

# **NEW BRUNSWICK RISK SHARING POOL**

## **SEPTEMBER 2019 OPERATIONAL REPORT**

# **ACTUARIAL HIGHLIGHTS**

Related Bulletin: F19-080 New Brunswick RSP September 2019 Operational Report

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## **ACTUARIAL HIGHLIGHTS**

## **RSP New Brunswick**

# OPERATIONAL REPORT SEPTEMBER 2019

## TABLE OF CONTENTS

1	Sum	mary	2
		Valuation Schedule (Fiscal Year 2019)	
	1.2	Appointed Actuary and Hybrid Actuarial Services Model	3
	1.3	Consideration of Recent Legal Decisions and Changes in Legislation / Regulation	
	1.4	Harmonized Sales Tax	
	1.5	Current Provision Summary	3
2	Acti	rity During the Month of September 2019	4
-	2.1	Recorded Premium and Claims Activity	
		2.1.a Actual vs. Projected (AvsP): Earned Premium	5
		2.1.b AvsP: Recorded Indemnity & Allowed Claims Expense	
		2.1.c AvsP: Paid Indemnity & Allowed Claims Expense	8
	2.2	Actuarial Provisions.	10
3	Ulti	nate Loss Ratio Matching Method	12
4	Cale	ndar Year-to-Date Results	12
5	Cur	ent Operational Report – Additional Exhibits	12
6	EXI	IBITS	13



#### 1 Summary

#### **Key Points**

- (a) Liam McFarlane has resigned as the Facility Association's Appointed Actuary; Mr. Cosimo Pantaleo of Ernst & Young LLP has assumed the Appointed Actuary's role (effective as of October 24, 2019), pending formal appointment by the Facility Association Board (expected at its December 12, 2019 meeting); and
- (b) There were no other specific issues or events warranting additional comment for this month results were reasonably aligned with our expectations.

#### 1.1 Valuation Schedule (Fiscal Year 2019)

The September 2019 Operational Report leverages actuarial assumptions consistent with last month (that is, it does not reflect the results of an updated valuation). The table below summarizes the implemented valuations and future scheduled valuations for fiscal year 2019.

	NEW BRUNSWICK RISK SHARING POOL FISCAL YEAR 2019 – SCHEDULE OF VALUATIONS								
Valuation Date	Discount Rate (per annum)	Operational Report	Description of Changes						
Sep. 30, 2018 (completed)	2.29% mfad 25 bp	Oct. 2018	updated valuation (roll forward): accident year 2018 loss ratio <u>in</u> creased 0.5 points to 74.7%; discount rate <u>in</u> creased by 42 basis points; no change to selected margins for adverse deviations						
Dec. 31, 2018 (completed)	1.93% mfad 25 bp	Mar. 2019	updated valuation: accident year 2019 loss ratio increased 0.9 points to 75.5%; discount rate decreased by 36 basis points; no change to selected margins for adverse deviations						
Mar. 31, 2019 (completed)	1.44% mfad 25 bp	May 2019	updated valuation (roll forward): accident year 2019 loss ratio <u>increased 1.0 points to 76.5%;</u> discount rate <u>decreased by 49 basis points;</u> no change to selected margins for adverse deviations						
Jun. 30, 2019 (completed)	1.41% mfad 25 bp	Aug. 2019	updated valuation: accident year 2019 loss ratio decreased 2.9 points to 73.6%; discount rate decreased by 3 basis points; selected margins for adverse deviations were updated						
Sep. 30, 2019		Oct. 2019	update valuation (roll forward)						

Under the proposed schedule for fiscal year 2019, the "off-half" valuation quarters ending March 31, 2019 and September 30, 2019 would not reflect a full valuation update of assumptions, but would rather "roll-forward" key assumptions from the previous valuation.



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

Liam McFarlane of Ernst & Young LLP was Facility Association's Appointed Actuary (effective as of June 1, 2013). Mr. McFarlane has resigned his Appointment to take on a role at a different organization. Mr. Cosimo Pantaleo of Ernst & Young LLP has assumed the Appointed Actuary's role (effective as of October 24, 2019), pending formal appointment by the Facility Association Board (expected at its December 12, 2019 meeting).

Facility Association operates under a "hybrid" model in relation to the management and provision of actuarial services. Under this model, actuarial services are performed by both Facility Association's internal staff and its external actuarial consulting firm. The hybrid model approach maximizes the efficiency of resource allocation while providing access to additional expertise and capacity as needed.

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

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

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 decisions or changes for inclusion here.

#### 1.4 Harmonized Sales Tax

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

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

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

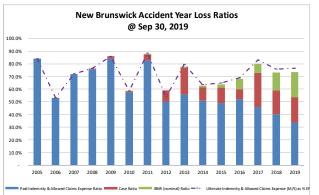
#### 1.5 Current Provision Summary

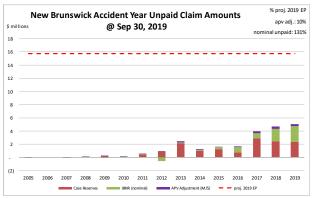
The charts at the top of the next page show the current levels of claim liabilities<sup>2</sup> booked by accident year. The left chart displays life-to-date payments, case reserves, IBNR, and the total including actuarial present value adjustments against accident year earned premium. The right chart shows the associated dollar amounts for the components of the claim liabilities and the current projected amount of 2019 full year earned premium (the red hash-mark line) to provide some perspective.

<sup>&</sup>lt;sup>1</sup>This link is to a helpful guide on how bills become laws: <a href="http://www.ontla.on.ca/lao/en/media/laointernet/pdf/bills-and-lawmaking-background-documents/how-bills-become-law-en.pdf">http://www.ontla.on.ca/lao/en/media/laointernet/pdf/bills-and-lawmaking-background-documents/how-bills-become-law-en.pdf</a>.

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







"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 (\$1.5 million – see table below) represents 10% of the earned premium projected for the full year 2019 (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.

claim	liabilities	(\$000s)
-------	-------------	----------

	amt	%
case	14,686	66.4%
ibnr	5,893	26.7%
M/S apv adjust.	1,533	6.9%
M/S total	22,112	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 72% of the IBNR balance relates to accident years 2018 and 2019 (see Exhibit B). Approximately 77% of the M/S claim liabilities

are related to accident years 2015-2019 inclusive (i.e. the most recent 5 accident years), and 1% is related to accident years 2009 and prior (i.e. prior to the most recent 10 accident years).

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

premium liabilities (\$000s)

•		
_	amt	%
unearned prem	9,011	124.4%
prem def/(dpac)	(2,178)	(30.1%)
M/S apv adjust.	410	5.7%
M/S total	7,243	100.0%

policy liabilities (\$000s)

	amt	%
claim	20,579	70.1%
premium	6,833	23.3%
M/S apv adjust.	1,943	6.6%
M/S total	29,355	100.0%

#### 2 Activity During the Month of September 2019

#### 2.1 Recorded Premium and Claims Activity

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

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



(V	New Brunswick RSP Actual vs Projected Summary. Recorded Transaction Amounts (\$ inousands)									
	Table 01 Earned Premium		Paid Indemnity & Allowed Claims Expense		Case increase / (decrease)		Recorded increase / (decrease)			
	Accident	A atual	Actual less	Actual	Actual less	A atual	Actual less	A ctual	Actual less	
	Year	Actual	Projected	Actual	Projected	Actual	Projected	Actual	Projected	
	Prior	2	2	258	146	(243)	(146)	14	(1)	
	2017	4	4	6	(67)	118	172	124	105	
	2018	(1)	(1)	35	(9)	188	169	223	160	
	2019	1,340	6	644	78	168	(50)	811	28	
	TOTAL	1.346	12	942	147	231	145	1.173	292	

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

(Recorded transaction amounts exclude IBNR & other actuarial provisions)

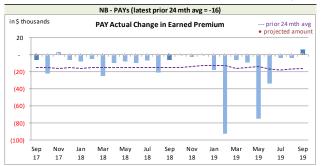
It is unusual to see actual earned premium transactions affecting prior accident years by this time in the calendar year – the prior accident years changes in the month reflect activity undertaken by a member reflecting recent audit findings.

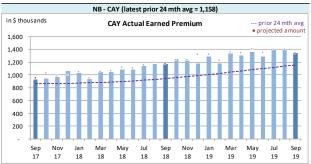
Claims transaction activity is generally volatile and changes from one month to the next are anticipated due to this natural "process variance" (i.e. random variation), and this is particularly true where volumes are low as found in this RSP. Each month, the projection variances are reviewed for signs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

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

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

New Brunswick RSP Actual Earned Premium by Calendar Month





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

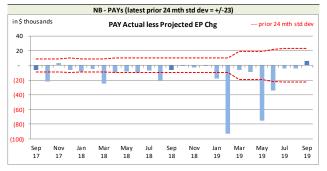
The associated variance between the actual changes and the projections from the previous month are shown in the charts at the top of the next page. **Earned premium** change projections are all attributed to the current accident year as the projection upload does not accept **earned premium** changes for other accident years. We do not see this limitation as being significant for our purposes, but it does

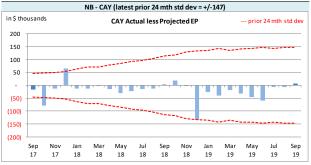
<sup>&</sup>lt;sup>4</sup>Premium is earned on a daily basis based on the transaction term measured in days. As a result, months with 31 days earned relatively more than those with 30 days, and February earns the least.



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





On Latest \$ thousands						
Earned Premium	PAYs	CAY				
Mthly Avg EP Chg (prior 24 mths)	(16)	1,158				
std dev	23	147				
A-P <> std dev	7	2				
% <> std dev	28.0%	8.0%				
norm <> std dev	31.7%	31.7%				

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

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

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

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

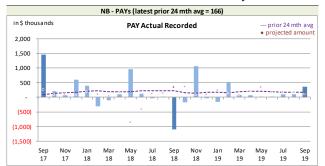
The charts at the top of the next page show actual **recorded** activity (**paid** and case reserve changes), in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

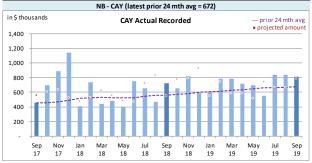
<sup>&</sup>lt;sup>5</sup>The PAYs' variances will show bias as the projection upload forces all earned premium projections to be attributed to the CAY.

<sup>&</sup>lt;sup>6</sup>We measure bias based on a 95% confidence range for a binominal distribution with trials based on the range being considered (25 in this case) and 50% probability of success. The rolling 25-month CAY variances at September 2019 has only 4 months where the actual was higher than projected, and as the 95% confidence range is 8 to 17, bias continues to be indicated.



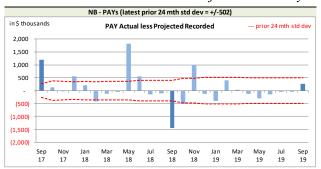
New Brunswick RSP Actual Recorded by Calendar Month

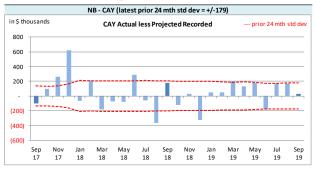




**Recorded** activity variances from the previous month's projections are shown in the charts below, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

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





On Latest \$ thousands						
Recorded	PAYs	CAY				
Mthly Avg Recorded (prior 24 mths)	166	672				
std dev	502	179				
A-P <> std dev	8	8				
% <> std dev	32.0%	32.0%				
norm <> std dev	31.7%	31.7%				

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, 32% of the prior accident years' (PAYs) **recorded** variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **recorded** amounts (see table above), suggesting the projection process has performed no 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 (10 of 25 variances are positive).

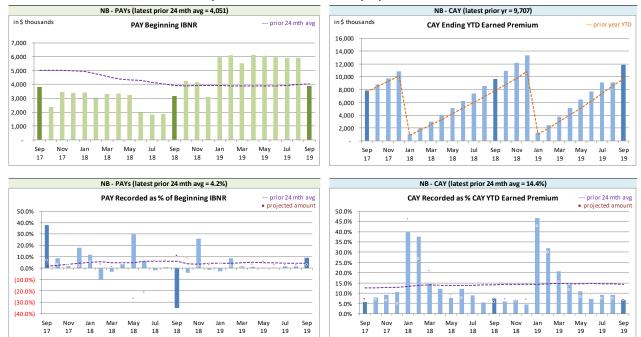
The current accident year (CAY) **recorded** variances fell outside of one standard deviation 32% of the time over the last 25 calendar months (see table above), suggesting the projection process has performed no better than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (15 of 25 variances are positive).

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



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

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



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

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

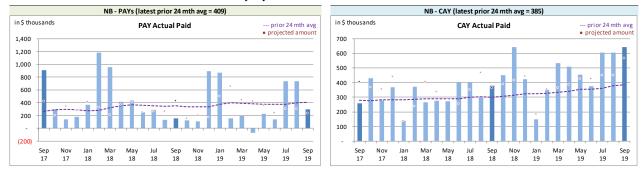
## 2.1.c AvsP: Paid Indemnity & Allowed Claims Expense

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

<sup>&</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.

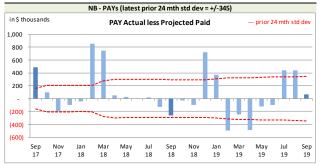


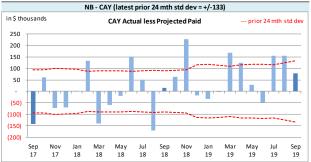
New Brunswick RSP Actual Paid activity by Calendar Month



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

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





On Latest \$	thousands	i
Paid	PAYs	CAY
Mthly Avg Paid (prior 24 mths)	409	385
std dev	345	133
A-P <> std dev	9	10
% <> std dev	36.0%	40.0%
norm <> std dev	31.7%	31.7%

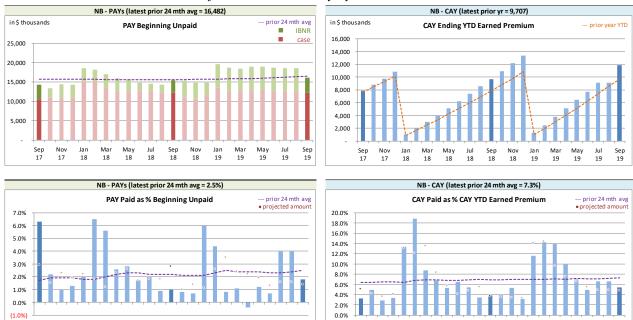
With respect to **paid** indemnity & allowed claims expense, caution must be exercised in reviewing the variances as this is a small pool, and single claim transactions that are normal course for the business may look unusual and generate relatively significant variances that in nominal value terms are 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 table on the left above), 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 (12 of 25 variances are positive).

The current accident year (CAY) **paid** variances fell outside of one standard deviation 40% of the time over the last 25 calendar months (see table above), suggesting that the projection process has performed worse than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (14 of 25 variances are positive).

We have included, for reference, additional charts at the top of the next page related to levels influencing **paid** activity.





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

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

- to offset actual **paid** activity (may reduce case or IBNR or both);
- the annual switchover as a current accident year becomes a prior accident year (occurs in January); and
- when a new valuation is implemented, where the valuation resulted in changes to the selection of prior accident years' ultimate (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 month's provisions and projections were based on the applicable valuation.

The table at the top of the next page summarizes variances in provisions included in this month's

<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".



Operational Report and the associated one-month projections from last month's Report.

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

Table 02		actuarial present value adjustments									
	IBNR		IDNID		Discount	D:		Provisions for Adverse		IBNR + actuarial present	
			Discount Amount		Deviations		value adjustments				
Accident	Actual	Actual less	Actual	Actual less	Actual	Actual less	Actual	Actual less			
Year	Actual	Projected	Actual	Projected	Actual	Projected	Actual	Projected			
Prior	833	3	(218)	3	798	(12)	1,413	(6)			
2017	805	(101)	(161)	(3)	457	9	1,101	(95)			
2018	1,881	(160)	(205)	(1)	532	-	2,208	(161)			
2019	2,374	(24)	(227)	4	557	(8)	2,704	(28)			
TOTAL	5,893	(282)	(811)	3	2,344	(11)	7,426	(290)			

The IBNR provision is \$0.3 million lower than projected from last month, counterbalancing the recorded claims activity and adjusting for the earned premium variance impacts indicated in section 2.1.

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

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

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

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

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

Table 03	Premium Deficiency / (Deferred Policy Acquisition Costs)		actuarial present value adjustments		Premium Deficiency / (DPAC) including actuarial present value adjustments	
	Actual	Actual less Projected	Actual	Actual less Projected	Actual	Actual less Projected
balance:	(2,178)	(70)	410	13	(1,768)	(57)
balance as % unearned premium:	(24.2%)	-	4.6%	-	(19.6%)	-

actual unearned premium: 9,011 less projected: 283



#### 3 Ultimate Loss Ratio Matching Method

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

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

#### 4 Calendar Year-to-Date Results

The table below 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 75.1% rather than 73.6% (the valuation ultimate ratio for accident year 2019), 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.)

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

Table 04	YTD Nomina	l Values	YTD actuarial present value adjustment		YTD Total		Change from Prior Month YTD	
	Amount	% EP	Amount	% EP	Amount	% EP	Amount	LR pts
PAYs	(503)	(4.3%)	207	1.8%	(296)	(2.6%)	(15)	0.1%
CAY	8,723	75.1%	330	2.8%	9,053	78.0%	1,010	(0.4%)
TOTAL	8,219	70.8%	537	4.6%	8,756	75.4%	996	(0.2%)

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

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

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

#### 5 Current Operational Report – Additional Exhibits

Section 6 provides exhibits pertaining to the actuarial provisions reflected in the current month's

<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.



#### Operational Report.

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

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

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

#### 6 EXHIBITS

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

EXHIBIT A IBNR for Member Sharing – includes Actuarial Present Value Adjustments

EXHIBIT B IBNR

EXHIBIT C Premium Liabilities

EXHIBIT D Projected Year-end Policy Liabilities

EXHIBIT E Discount Rate & Margins for Adverse Deviations

EXHIBIT F Interest Rate Sensitivity

EXHIBIT G Components of IBNR Change During Month



## **EXHIBIT A**

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

TABLE EXHIBIT A	Amounts in \$000s								
IBNR + M/S actuarial present	Accident	Actual	Actual	Projected	Projected	Projected			
value adjustments	Year	Aug. 2019	Sep. 2019	Oct. 2019	Nov. 2019	Dec. 2019			
	2005	(2)	(2)	(2)	(2)	(2)			
	2006	-	-	-	-	-			
	2007	(4)	(4)	(4)	(4)	(4)			
	2008	11	11	11	11	11			
	2009	(15)	(25)	(25)	(25)	(25)			
	2010	41	41	41	41	41			
	2011	93	123	123	121	120			
	2012	(518)	(519)	(515)	(510)	(505)			
	2013	281	289	286	283	281			
discount rate	2014	228	217	215	214	211			
1.41%	2015	401	398	383	374	361			
	2016	927	884	827	804	775			
interest rate margin	2017	1,221	1,101	1,072	1,048	1,004			
25 basis pts	2018	2,434	2,208	2,187	2,128	2,039			
	2019	2,505	2,704	2,935	3,150	3,343			
	TOTAL	7,603	7,426	7,534	7,633	7,650			
	Change	<u> </u>	(177)	108	99				

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



## **EXHIBIT B**

## **IBNR**

TABLE EXHIBIT B		Amounts in \$000s							
IBNR	Ultimate Loss Ratio	Accident Year	Actual Aug. 2019	Actual Sep. 2019	Projected Oct. 2019	Projected Nov. 2019	Projected Dec. 2019		
	84.0%	2005	(2)	(2)	(2)	(2)	(2)		
	53.2%	2006	-	-	-	-	-		
	72.0%	2007	(4)	(4)	(4)	(4)	(4)		
	76.3%	2008	4	4	4	4	4		
	85.8%	2009	(33)	(43)	(43)	(43)	(43)		
	58.5%	2010	32	32	32	32	32		
	88.0%	2011	33	81	80	79	78		
	53.7%	2012	(547)	(547)	(542)	(537)	(532)		
	77.9%	2013	105	112	111	110	109		
	62.8%	2014	142	131	130	129	128		
	63.9%	2015	288	285	274	266	255		
	68.0%	2016	827	784	729	707	679		
	80.2%	2017	925	805	781	758	728		
	73.3%	2018	2,104	1,881	1,862	1,806	1,734		
	73.6%	2019	2,199	2,374	2,577	2,766	2,935		
		TOTAL	6,073	5,893	5,989	6,071	6,101		
		Change	_	(180)	96	82			

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



## EXHIBIT C

## Premium Liabilities

TABLE EXHIBIT C	Amounts in \$000s							
Premium Liabilities	Actual	Actual Sep. 2019	Projected Oct. 2019	Projected Nov. 2019	Projected Dec. 2019			
Fielinain Liabilities	Aug. 2019	3ep. 2019	OCI. 2019	1100. 2019	Dec. 2019			
(1) unearned premium (UP)	8,738	9,011	8,876	8,613	8,264			
FOR MEMBER SHARING								
(2) expected future costs ratio {% of (1)}	80.5%	80.4%	80.3%	80.2%	80.1%			
(3) expected future costs {(1) x (2)}	7,030	7,243	7,127	6,911	6,622			
(4) premium deficiency / (deferred policy								
acquisition cost)	(1,708)	(1,768)	(1,749)	(1,702)	(1,642)			
Excluding Actuarial Present Value Adjustments								
(5) expected future costs ratio {% of (1)}	75.9%	75.8%	75.8%	75.7%	75.6%			
<ul><li>(6) expected future costs {(1) x (5)}</li><li>(7) premium deficiency / (deferred policy</li></ul>	6,633	6,833	6,725	6,520	6,248			
acquisition cost)	(2,105)	(2,178)	(2,151)	(2,093)	(2,016)			



## EXHIBIT D

## Projected Year-end Policy Liabilities

The table below presents the projected policy liabilities as at December 31, 2019, broken down by component.

New Brunswick	Projected Balances as at Dec. 31, 2019 (\$000s)									
ending 2019	nominal values									
Acc Yr	Case	IBNR	Total Unpaid	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL
2005	-	(2)	(2)	-	-	-	-	-	-	(2)
2006	-	-	-	-	-	-	-	-	-	-
2007	-	(4)	(4)	-	-	-	-	-	-	(4)
2008	75	4	79	(1)	-	8	-	8	7	86
2009	248	(43)	205	(4)	1	21	-	21	18	223
2010	88	32	120	(3)	-	12	-	12	9	129
2011	451	78	529	(12)	2	53	(1)	52	42	571
2012	877	(532)	345	(8)	1	35	(1)	34	27	372
2013	2,100	109	2,209	(53)	9	221	(5)	216	172	2,381
2014	987	128	1,115	(30)	4	112	(3)	109	83	1,198
2015	1,195	255	1,450	(42)	7	145	(4)	141	106	1,556
2016	806	679	1,485	(56)	9	149	(6)	143	96	1,581
2017	2,685	728	3,413	(150)	24	420	(18)	402	276	3,689
2018	2,317	1,734	4,051	(190)	32	486	(23)	463	305	4,356
PAYs (sub-total):	11,829	3,166	14,995	(549)	89	1,662	(61)	1,601	1,141	16,136
CAY (2019)	2,935	2,935	5,870	(282)	47	675	(32)	643	408	6,278
claims liabilities:	14,764	6,101	20,865	(831)	136	2,337	(93)	2,244	1,549	22,414
	Unearned Premium	Premium Deficiency / (DPAC)	Total Provision	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL*
premium liabilities:	8,264	(2,016)	6,248	(193)	30	555	(18)	537	374	6,622
						*	Total may not be s	um of parts, as ap	vs apply to future	costs within UPR
policy liabilities:			27,113	(1,024)	166	2,892	(111)	2,781	1,923	29,036



#### **EXHIBIT E**

## Discount Rate & Margins for Adverse Deviations

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

Selected Claims Development MfADs (Jun. 30, 2019)

			•	
Accident	Third Party	Accident	Other	Total
Year	Liability	Benefits	Coverages	
	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%	8.7%	10.0%
2017	12.5%	10.0%	9.5%	12.3%
2018	12.5%	10.0%	8.3%	12.0%
2019	12.3%	10.0%	5.7%	11.5%
2020	11.8%	10.0%	5.1%	9.2%
prem liab	11.8%	10.0%	5.1%	9.2%

discount rate: 1.41% margin (basis points): 25



#### **EXHIBIT F**

#### **Interest Rate Sensitivity**

The tables below present sensitivity to the member statement claims liability as projected to Dec. 31, 2019 from the latest valuation date (projections in exhibits A to D are to Dec. 31, 2019, and are based on more up-to-date information). We have included the most recent valuation selection (1.44%), the prior valuation assumption (1.93%) and the prior fiscal year end valuation assumption (2.29%) for comparative purposes. A 25 basis point margin for investment return adverse deviation is used in all scenarios presented.

\$ Format: \$000s

	Actua	rial Present Va	lue of Provision	ons at Various	Discount Rate	s - Dec. 31, 20	19 projected L	Inpaid
AY	0.41%	0.91%	1.41%	1.91%	2.41%	2.91%	1.44%	2.29%
2005	_	-	-	-	-	-	-	-
2006	-	-	-	-	-	-	-	-
2007	-	-	-	-	-	-	-	-
2008	72	72	71	71	70	70	71	70
2009	244	242	241	239	237	235	240	238
2010	106	105	104	103	103	102	104	103
2011	1,448	1,436	1,425	1,413	1,402	1,391	1,424	1,405
2012	303	301	299	296	294	292	298	294
2013	2,127	2,108	2,091	2,073	2,056	2,039	2,090	2,060
2014	1,077	1,066	1,056	1,046	1,036	1,026	1,055	1,038
2015	1,433	1,418	1,403	1,389	1,375	1,361	1,402	1,378
2016	1,554	1,532	1,511	1,491	1,471	1,451	1,510	1,476
2017	3,833	3,771	3,712	3,654	3,598	3,544	3,709	3,612
2018	4,618	4,540	4,464	4,391	4,320	4,251	4,460	4,337
2019	6,776	6,657	6,542	6,431	6,322	6,219	6,536	6,349
Total	23,591	23,248	22,919	22,597	22,284	21,981	22,899	22,360
	curr - 100 bp	curr - 50 bp	curr val	curr + 50bp	curr + 100bp	curr + 150bp	prior val	prior fyr end
			assumption				assumption	assumption
			-		o Valuation As			
AY	0.41%	0.91%	1.41%	1.91%	2.41%	2.91%	1.44%	2.29%
Total	672	329	-	(322)	(635)	(938)	(20)	, ,
	curr - 100 bp	curr - 50 bp	curr val	curr + 50bp	curr + 100bp	curr + 150bp	prior val	prior fyr end
		l	assumption				assumption	assumption
			D	A D. I.A.	- + - \/ -   + !	A		
				mpact Relativ				
AY	0.41%							
2005	-	0.91%	1.41%	1.91%	2.41%	2.91%	1.44%	2.29%
	-	0.91%	1.41% -	1.91% -			1.44%	2.29% -
2006	-	0.91% - -	1.41% - -	1.91% - -			1.44% - -	2.29% - -
2006 2007	-	- - -	1.41% - - - -	1.91% - - -	2.41%	2.91% - - -	1.44% - - -	- - -
2006 2007 2008	1.4%	- - - 1.4%	1.41% - - - -	- - - -	2.41% - - - (1.4%)	2.91%	- - - -	(1.4%)
2006 2007 2008 2009	1.2%	- - - 1.4% 0.4%	1.41% - - - - -	- - - (0.8%)	2.41% - - - (1.4%) (1.7%)	2.91% - - - (1.4%) (2.5%)	1.44%	- - (1.4%) (1.2%)
2006 2007 2008 2009 2010	1.2% 1.9%	1.4% 0.4% 1.0%	1.41% - - - - - -	(0.8%) (1.0%)	2.41% (1.4%) (1.7%) (1.0%)	2.91% - - (1.4%) (2.5%) (1.9%)	(0.4%)	(1.4%) (1.2%) (1.0%)
2006 2007 2008 2009 2010 2011	1.2% 1.9% 1.6%	1.4% 0.4% 1.0% 0.8%	1.41% - - - - - - - -	(0.8%) (1.0%) (0.8%)	2.41% (1.4%) (1.7%) (1.0%) (1.6%)	2.91% (1.4%) (2.5%) (1.9%) (2.4%)	(0.4%) - - (0.4%) - (0.1%)	(1.4%) (1.2%) (1.0%) (1.4%)
2006 2007 2008 2009 2010 2011 2012	1.2% 1.9% 1.6% 1.3%	1.4% 0.4% 1.0% 0.8% 0.7%	1.41%	(0.8%) (1.0%) (0.8%) (1.0%)	2.41% (1.4%) (1.7%) (1.6%) (1.7%)	2.91%	(0.4%)	(1.4%) (1.2%) (1.0%) (1.4%) (1.7%)
2006 2007 2008 2009 2010 2011 2012 2013	1.2% 1.9% 1.6% 1.3% 1.7%	1.4% 0.4% 1.0% 0.8% 0.7%	1.41%	(0.8%) (1.0%) (0.8%) (1.0%) (0.9%)	2.41% (1.4%) (1.7%) (1.6%) (1.7%) (1.7%)	2.91%	(0.4%) (0.1%) (0.3%) (0.0%)	(1.4%) (1.2%) (1.0%) (1.4%) (1.7%) (1.5%)
2006 2007 2008 2009 2010 2011 2012 2013 2014	1.2% 1.9% 1.6% 1.3% 1.7% 2.0%	1.4% 0.4% 1.0% 0.8% 0.7% 0.8% 0.9%	1.41%	(0.8%) (1.0%) (0.8%) (1.0%) (0.9%)	2.41%  (1.4%) (1.7%) (1.0%) (1.6%) (1.7%) (1.7%) (1.9%)	2.91% (1.4%) (2.5%) (1.9%) (2.4%) (2.3%) (2.5%) (2.8%)	(0.4%) (0.1%) (0.3%) (0.0%) (0.1%)	(1.4%) (1.2%) (1.0%) (1.4%) (1.7%) (1.5%) (1.7%)
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015	1.2% 1.9% 1.6% 1.3% 1.7% 2.0%	1.4% 0.4% 1.0% 0.8% 0.7% 0.8% 0.9%	1.41%	(0.8%) (1.0%) (0.8%) (1.0%) (0.9%) (0.9%) (1.0%)	2.41%  (1.4%) (1.7%) (1.0%) (1.6%) (1.7%) (1.7%) (1.9%) (2.0%)	2.91% (1.4%) (2.5%) (1.9%) (2.4%) (2.3%) (2.5%) (2.8%) (3.0%)	(0.4%) (0.1%) (0.3%) (0.0%) (0.1%)	(1.4%) (1.2%) (1.0%) (1.4%) (1.7%) (1.5%) (1.7%) (1.8%)
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	1.2% 1.9% 1.6% 1.3% 1.7% 2.0% 2.1%	1.4% 0.4% 1.0% 0.8% 0.7% 0.8% 0.9% 1.1%	1.41%	(0.8%) (1.0%) (0.8%) (1.0%) (0.9%) (0.9%) (1.0%) (1.3%)	2.41%  (1.4%) (1.7%) (1.0%) (1.6%) (1.7%) (1.9%) (2.0%) (2.6%)	2.91% (1.4%) (2.5%) (1.9%) (2.4%) (2.3%) (2.5%) (2.8%) (3.0%) (4.0%)	(0.4%) (0.1%) (0.3%) (0.0%) (0.1%) (0.1%) (0.1%)	(1.4%) (1.2%) (1.0%) (1.4%) (1.7%) (1.5%) (1.7%) (1.8%) (2.3%)
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	1.2% 1.9% 1.6% 1.3% 1.7% 2.0% 2.1% 2.8% 3.3%	1.4% 0.4% 1.0% 0.8% 0.7% 0.8% 0.9% 1.1% 1.4%	1.41%	(0.8%) (1.0%) (0.8%) (1.0%) (0.9%) (1.0%) (1.3%) (1.6%)	2.41%  (1.4%) (1.7%) (1.0%) (1.6%) (1.7%) (1.9%) (2.0%) (2.6%) (3.1%)	2.91% (1.4%) (2.5%) (1.9%) (2.4%) (2.3%) (2.5%) (2.8%) (3.0%) (4.0%) (4.5%)	(0.4%) (0.1%) (0.3%) (0.0%) (0.1%) (0.1%) (0.1%) (0.1%)	(1.4%) (1.2%) (1.0%) (1.4%) (1.7%) (1.5%) (1.7%) (1.8%) (2.3%) (2.7%)
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	1.2% 1.9% 1.6% 1.3% 1.7% 2.0% 2.1% 2.8% 3.3% 3.4%	1.4% 0.4% 1.0% 0.8% 0.7% 0.8% 0.9% 1.1% 1.4% 1.6%		(0.8%) (1.0%) (0.8%) (1.0%) (0.9%) (1.0%) (1.3%) (1.6%)	2.41%  (1.4%) (1.7%) (1.0%) (1.6%) (1.7%) (1.9%) (2.0%) (2.6%) (3.1%) (3.2%)	2.91% (1.4%) (2.5%) (1.9%) (2.4%) (2.3%) (2.5%) (2.8%) (3.0%) (4.0%) (4.5%) (4.8%)	(0.4%) (0.1%) (0.3%) (0.0%) (0.1%) (0.1%) (0.1%) (0.1%) (0.1%)	(1.4%) (1.2%) (1.0%) (1.4%) (1.7%) (1.5%) (1.7%) (1.8%) (2.3%) (2.7%) (2.8%)
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	1.2% 1.9% 1.6% 1.3% 1.7% 2.0% 2.1% 2.8% 3.3% 3.4%	1.4% 0.4% 1.0% 0.8% 0.7% 0.8% 0.9% 1.1% 1.4% 1.6% 1.7%	1.41%	(0.8%) (1.0%) (0.8%) (1.0%) (0.9%) (1.0%) (1.3%) (1.6%) (1.6%) (1.7%)	2.41%  (1.4%) (1.7%) (1.0%) (1.6%) (1.7%) (1.9%) (2.0%) (2.6%) (3.1%) (3.2%) (3.4%)	2.91% (1.4%) (2.5%) (1.9%) (2.4%) (2.3%) (2.5%) (2.8%) (3.0%) (4.0%) (4.5%) (4.8%) (4.9%)	(0.4%) (0.1%) (0.3%) (0.0%) (0.1%) (0.1%) (0.1%) (0.1%) (0.1%) (0.1%)	(1.4%) (1.2%) (1.0%) (1.4%) (1.7%) (1.5%) (1.8%) (2.3%) (2.7%) (2.8%) (3.0%)
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	1.2% 1.9% 1.6% 1.3% 1.7% 2.0% 2.1% 2.8% 3.3% 3.4% 3.6%	1.4% 0.4% 1.0% 0.8% 0.7% 0.8% 0.9% 1.1% 1.4% 1.6% 1.7%		(0.8%) (1.0%) (0.8%) (1.0%) (0.9%) (1.0%) (1.3%) (1.6%) (1.6%) (1.7%) (1.4%)	2.41%  (1.4%) (1.7%) (1.0%) (1.6%) (1.7%) (1.9%) (2.0%) (2.6%) (3.1%) (3.2%) (3.4%) (2.8%)	2.91% (1.4%) (2.5%) (1.9%) (2.4%) (2.3%) (2.5%) (2.8%) (3.0%) (4.0%) (4.5%) (4.9%) (4.1%)	(0.4%) (0.1%) (0.3%) (0.0%) (0.1%) (0.1%) (0.1%) (0.1%) (0.1%) (0.1%)	(1.4%) (1.2%) (1.0%) (1.4%) (1.7%) (1.5%) (1.8%) (2.3%) (2.7%) (2.8%) (3.0%) (2.4%)
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	1.2% 1.9% 1.6% 1.3% 1.7% 2.0% 2.1% 2.8% 3.3% 3.4%	1.4% 0.4% 1.0% 0.8% 0.7% 0.8% 0.9% 1.1% 1.4% 1.6% 1.7%		(0.8%) (1.0%) (0.8%) (1.0%) (0.9%) (1.0%) (1.6%) (1.6%) (1.7%) (1.4%) curr + 50bp	2.41%  (1.4%) (1.7%) (1.0%) (1.6%) (1.7%) (1.9%) (2.0%) (2.6%) (3.1%) (3.2%) (3.4%)	2.91% (1.4%) (2.5%) (1.9%) (2.4%) (2.3%) (2.5%) (2.8%) (3.0%) (4.0%) (4.5%) (4.9%) (4.1%)	(0.4%) (0.1%) (0.1%) (0.1%) (0.1%) (0.1%) (0.1%) (0.1%) (0.1%) (0.1%)	(1.4%) (1.2%) (1.0%) (1.4%) (1.7%) (1.5%) (1.8%) (2.3%) (2.7%) (2.8%) (3.0%)



## EXHIBIT G

Page 1 of 2

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

RSP	New Brunswick
AccountCode Desc	IBNR - Discounted

	Values	ı					
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
2005	(2)	-	-	-	-	-	(2)
2006	-	-	-	-	-	-	-
2007	(4)	-	-	-	-	-	(4)
2008	11	-	-	-	-	-	11
2009	(15)	2	(12)	-	(10)	66.7%	(25)
2010	41	(2)	2	-	-	-	41
2011	93	(3)	33	-	30	32.3%	123
2012	(518)	32	(33)	-	(1)	0.2%	(519)
2013	281	(7)	15	-	8	2.8%	289
2014	228	(10)	(1)	-	(11)	(4.8%)	217
2015	401	(17)	14	-	(3)	(0.7%)	398
2016	927	(19)	(24)	-	(43)	(4.6%)	884
2017	1,221	(25)	(95)	-	(120)	(9.8%)	1,101
2018	2,434	(65)	(161)	-	(226)	(9.3%)	2,208
2019	2,505	227	(28)	-	199	7.9%	2,704
<b>Grand Total</b>	7,603	113	(290)	-	(177)	(2.3%)	7,426



## **EXHIBIT G**

Page 2 of 2

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

RSP New Brunswick
AccountCode Desc IBNR - Undiscounted IBNR - in \$000s

	Values						ı
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
2005	(2)	-	-	-	-	-	(2)
2006	-	-	-	-	-	-	-
2007	(4)	-	-	-	-	-	(4)
2008	4	-	-	-	-	-	4
2009	(33)	2	(12)	-	(10)	30.3%	(43)
2010	32	(2)	2	-	-	-	32
2011	33	(2)	50	-	48	145.5%	81
2012	(547)	33	(33)	-	-	-	(547)
2013	105	(6)	13	-	7	6.7%	112
2014	142	(9)	(2)	-	(11)	(7.7%)	131
2015	288	(14)	11	-	(3)	(1.0%)	285
2016	827	(17)	(26)	-	(43)	(5.2%)	784
2017	925	(19)	(101)	-	(120)	(13.0%)	805
2018	2,104	(63)	(160)	-	(223)	(10.6%)	1,881
2019	2,199	199	(24)	-	175	8.0%	2,374
<b>Grand Total</b>	6,073	102	(282)	-	(180)	(3.0%)	5,893