

# NEW BRUNSWICK RISK SHARING POOL JULY 2019 OPERATIONAL REPORT

# **ACTUARIAL HIGHLIGHTS**

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# **ACTUARIAL HIGHLIGHTS**

### **RSP NEW BRUNSWICK**

# OPERATIONAL REPORT JULY 2019

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#### 1 Summary

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

The July 2019 Operational Report leverages actuarial assumptions consistent with last month (that is, it does not reflect the results of an updated valuation). The table immediately 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		Aug. 2019	update valuation					
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 is Facility Association's Appointed Actuary (effective as of June 1, 2013).

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

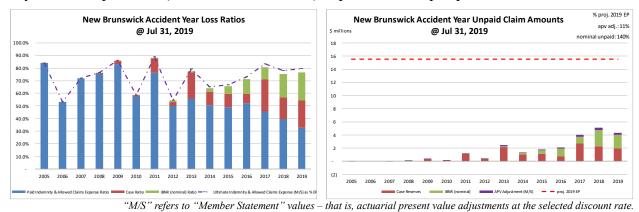
There have been no changes in these descriptions since last month's Highlights.

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 (March 31, 2019), on the basis that current estimates have implicitly incorporated the impact.

#### 1.5 Current Provision Summary

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



The current actuarial present value adjustments balance (\$1.7 million – see table at the top of the next page) represents 11% 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

<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.



over future periods.

claim liabilities (\$000s)

amt

 case
 13,957
 59.5%

 ibnr
 7,842
 33.4%

 M/S apv adjust.
 1,664
 7.1%

 M/S total
 23,463
 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 57% of the IBNR balance relates to accident years 2018 and 2019 (see Exhibit B). Approximately 74% of the M/S claim liabilities

are related to accident years 2015-2019 inclusive (i.e. the most recent 5 accident years), and 2% is related to accident years 2009 and prior (i.e. prior to the most recent 10 accident years).

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

%

premium liabilities (\$0	000s)		policy liabilities (\$000s)				
	amt	%		amt	%		
unearned prem	8,394	118.6%	claim	21,799	71.4%		
prem def/(dpac)	(1,723)	(24.4%)	premium	6,671	21.8%		
M/S apv adjust.	405	5.7%	M/S apv adjust.	2,069	6.8%		
M/S total	7,076	100.0%	M/S total	30,539	100.0%		

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

#### 2.1 Recorded Premium and Claims Activity

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

New Brunswick RSP A	Actual vs Projected	Summary: Record	led Transaction	Amounts (\$ the	nusands)
TICW DIWISWICK RSI 1	icinal vs i lolectea	Bullillai V. Mecoli	ica iransaciion i	THOULIS ID HIL	jusuiusi

Table 01	Earned Premium		Paid Inde	emnity &	Case inc	crease /	Recorded	increase /
			Allowed Claims Expense		(decrease)		(decrease)	
Accident	Actual	Actual less	Actual	Actual less	Actual	Actual less	Actual	Actual less
Year		Projected	Actual	Projected	Actual	Projected	Actual	Projected
Prior	-	-	587	470	(604)	(575)	(17)	(105)
2017	(0)	(0)	73	35	(22)	(6)	51	29
2018	(4)	(4)	78	(66)	(5)	89	73	23
2019	1,390	(7)	605	156	233	17	838	173
TOTAL	1,386	(11)	1,343	595	(398)	(475)	945	120

(Recorded transaction amounts exclude IBNR & other actuarial provisions)

It is typically unusual to see actual earned premium transactions affecting accident years older than the first prior accident year, the changes in 2018 and prior accident years reflect activity undertaken by a member to remove risks from the RSP, 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

<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.

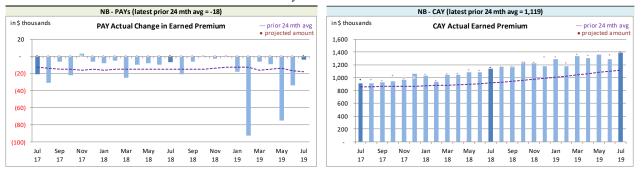


projection bias and to identify potential ways to reduce the level of the variance. Commentary from our review is provided in the sub-sections that follow.

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

The charts immediately 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.

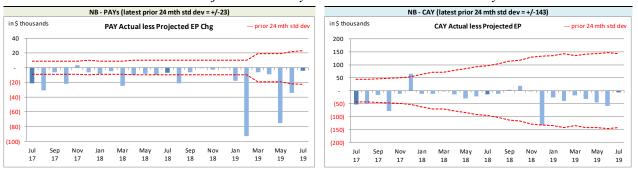
New Brunswick RSP Actual Earned Premium by Calendar Month



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

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



<sup>&</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.



On Latest \$thousands					
Earned Premium	PAYs	CAY			
Mthly Avg EP Chg (prior 24 mths)	(18)	1,119			
std dev	23	143			
A-P <> std dev	9	4			
% <> std dev	36.0%	16.0%			
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

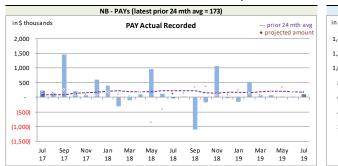
monthly premium. In addition to the PAYs' bias, the CAY has also shown bias<sup>6</sup>, with actuals being generally lower than projected, and we have modified our projections processes in response. Over time, we may consider other projection approaches to narrow monthly variance levels further, but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

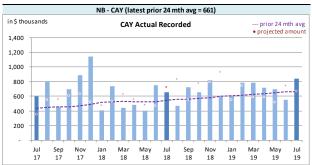
Readers will note the widening of the CAY standard deviation band, reflecting the recent and sustained volume increases and the impact as those increases are earned.

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

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







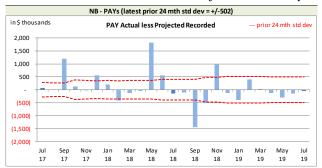
**Recorded** activity variances from the previous month's projections are shown in the charts at the top of the next page, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

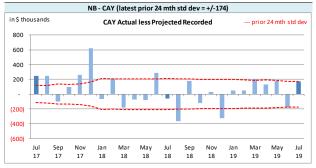
<sup>&</sup>lt;sup>5</sup>The PAYs' variances will show bias as the projection upload forces all earned premium projections to be attributed to the CAY.

<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 (24 in this case) and 50% probability of success. The 24-month variances at July 2019 has only 3 months where the actual was higher than projected, and as the 95% confidence range is 7 to 17, bias continues to be indicated.



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





On Latest \$ thousands					
Recorded	PAYs	CAY			
Mthly Avg Recorded (prior 24 mths)	173	661			
std dev	502	174			
A-P <> std dev	8	10			
% <> std dev	32.0%	40.0%			
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 lagging 24-month basis.

The current accident year (CAY) **recorded** variances fell outside of one standard deviation 40% of the time over the last 25 calendar months (see table above), suggesting the projection process has performed worse than simply projecting the prior 24-month average amount. We believe projection improvements introduced during 2018 are not yet fully reflected in the CAY variance measure (7 of the 11 variances beyond a standard deviation were related to the earlier 13 months, with only 4 related to the more recent 12 months). Bias has not been indicated at a 95% confidence level on a lagging 24-month basis.

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

We have included, for reference, additional charts at the top of the next page related to levels influencing **recorded** activity. Note in particular the increase in the level of PAYs 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 beginning prior accident years' IBNR as **recorded** activity "comes out of" IBNR. Changes in the prior accident years' 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).

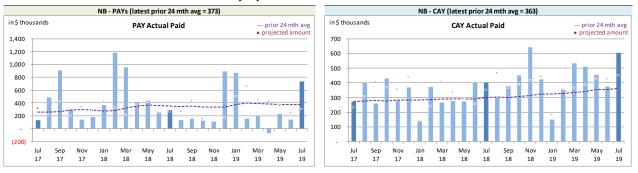
#### 2.1.c AvsP: Paid Indemnity & Allowed Claims Expense

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.

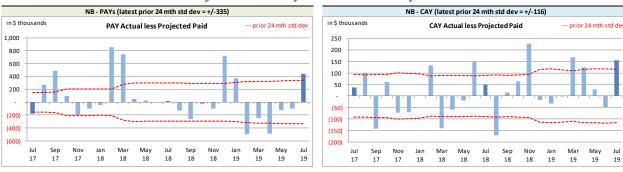


New Brunswick RSP Actual Paid activity by Calendar Month



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

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



On Latest \$ thousands				
Paid	PAYs	CAY		
Mthly Avg Paid (prior 24 mths)	373	363		
std dev	335	116		
A-P <> std dev	10	10		
% <> std dev	40.0%	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, 40% 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 worse than simply projecting the prior 24-month average amount (assuming a normal distribution). Bias has not been indicated at a 95% confidence level on a lagging 24-month basis.

The PAY **paid** variance (left chart above) was outside of one standard deviation this month. The activity was reviewed and confirmed, with the variance attributed to process variance.

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

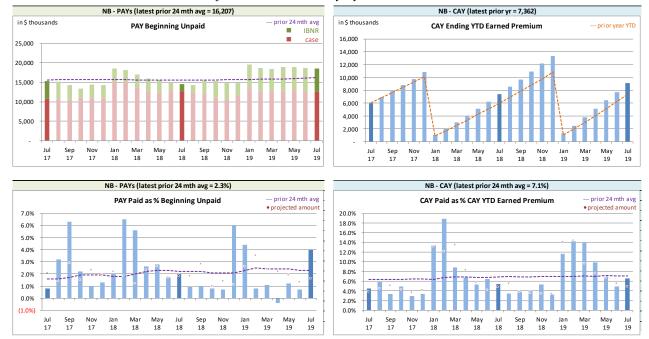
The CAY paid variance (right chart above) was outside of one standard deviation this month. The



activity was reviewed and confirmed, with the variance attributed to process variance.

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

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



We track beginning prior accident years' unpaid balance (case and IBNR) as **paid** activity "comes out of" the unpaid balance. Changes in the prior accident years' 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

<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".



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

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

Table 02		actua	arial present v					
	IBNR		Discount	A ma a m t	Provisions	for Adverse	IBNR + actua	arial present
			Discount Amount		Deviations		value adjustments	
Accident	nt Actual	Actual less	Actual	Actual less	Actual	Actual less	Actual	Actual less
Year		Projected	Actual	Projected	Actual	Projected	Actual	Projected
Prior	2,336	105	(260)	11	988	(47)	3,064	69
2017	1,051	(29)	(161)	1	462	(4)	1,352	(32)
2018	2,436	(25)	(222)	(3)	579	8	2,793	(20)
2019	2,019	(178)	(197)	8	475	(19)	2,297	(189)
TOTAL	7,842	(127)	(840)	17	2,504	(62)	9,506	(172)

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

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

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

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

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





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

Table 03	Premium Deficiency / (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
	, 10000.	Projected	710000	Projected	710000.	Projected
balance:	(1,723)	(20)	405	5	(1,318)	(15)
balance as % unearned premium:	(20.5%)	0.1%	4.8%	(0.1%)	(15.7%)	-

actual unearned premium: 8,394 less projected: 109

#### 3 Ultimate Loss Ratio Matching Method

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

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

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

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

In calculating the amounts as percentages of earned premium, the calendar year-to-date earned premium has been used, which includes not only the earned premium associated with the current accident year, but also earned premium adjustments related to prior accident years. Specifically, the current accident year (CAY) ratio in the table is 78.6% rather than 76.5% (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.)

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

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



New Brunswick RS	SP Calenaar 1ear-10-Dale Inaemnily & Allowea C	laims Expense Summary (\$ inousanas)
Table 04	YTD actuarial present value	Change from Prior Month

Table 04	YTD Nominal Values		YTD actuarial practice adjustn		YTD To	otal	Change from P YTD	
	Amount	% EP	Amount	% EP	Amount	% EP	Amount	LR pts
PAYs	514	5.8%	390	4.4%	904	10.2%	(64)	(2.7%)
CAY	6,992	78.6%	278	3.1%	7,270	81.7%	1,094	(0.5%)
TOTAL	7,506	84.3%	668	7.5%	8,174	91.8%	1,030	(3.3%)

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

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

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

#### 5 Current Operational Report – Additional Exhibits

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

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

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

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

#### 6 EXHIBITS

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

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

EXHIBIT B IBNR

EXHIBIT C Premium Liabilities

EXHIBIT D Projected Year-end Policy Liabilities

EXHIBIT E Discount Rate & Margins for Adverse Deviations

EXHIBIT F Interest Rate Sensitivity

EXHIBIT G Components of IBNR Change During Month



# EXHIBIT A

# IBNR for Member Sharing – includes Actuarial Present Value Adjustments

TABLE EXHIBIT A	Amounts in \$000s							
IBNR + M/S actuarial present	Accident	Actual	Actual	Projected	Projected	Projected		
value adjustments	Year	Jun. 2019	Jul. 2019	Aug. 2019	Sep. 2019	Dec. 2019		
	2005	(2)	(2)	(2)	(2)	(2)		
	2006	-	-	-	-	-		
	2007	(4)	(4)	(4)	(4)	(4)		
	2008	11	11	11	11	11		
	2009	42	42	41	40	39		
	2010	55	55	54	51	51		
	2011	173	139	137	133	129		
	2012	148	137	134	128	124		
	2013	229	280	277	268	262		
discount rate	2014	392	381	375	357	345		
1.44%	2015	730	707	701	669	598		
	2016	1,321	1,318	1,304	1,278	1,159		
interest rate margin	2017	1,410	1,352	1,338	1,311	1,213		
25 basis pts	2018	2,875	2,793	2,714	2,638	2,435		
	2019	2,041	2,297	2,709	3,063	3,882		
	TOTAL	9,421	9,506	9,789	9,941	10,242		
	Change		85	283	152			

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



# **EXHIBIT B**

# **IBNR**

TABLE EXHIBIT B		Amounts in \$000s							
IBNR	 Ultimate	Accident	Actual	Actual	Projected	Projected	Projected		
IDIVIN	Loss Ratio	Year	Jun. 2019	Jul. 2019	Aug. 2019	Sep. 2019	Dec. 2019		
	84.0%	2005	(2)	(2)	(2)	(2)	(2)		
	53.2%	2005	(2)	(2)	(2)	(2)	(2)		
			- (4)	- (4)	- (4)	- (4)	- (4)		
	72.0%	2007	(4)	(4)	(4)	(4)	(4)		
	76.3%	2008	4	4	4	4	4		
	85.9%	2009	14	14	14	13	13		
	58.6%	2010	44	44	43	40	40		
	88.1%	2011	39	46	45	42	42		
	54.3%	2012	114	104	102	96	93		
	77.7%	2013	54	107	105	99	96		
	64.2%	2014	296	286	280	263	254		
	65.5%	2015	608	586	580	551	487		
	71.3%	2016	1,152	1,151	1,139	1,116	1,009		
	80.7%	2017	1,102	1,051	1,040	1,019	940		
	75.3%	2018	2,511	2,436	2,363	2,292	2,113		
	76.5%	2019	1,794	2,019	2,391	2,706	3,395		
		TOTAL	7,726	7,842	8,100	8,235	8,480		
		Change		116	258	135			

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



# EXHIBIT C

# Premium Liabilities

TABLE EXHIBIT C		Amount	s in \$000s		
	Actual	Actual	Projected	Projected	Projected
Premium Liabilities	Jun. 2019	Jul. 2019	Aug. 2019	Sep. 2019	Dec. 2019
(1) unearned premium (UP)	8,263	8,394	8,562	8,562	7,976
FOR MEMBER SHARING					
(2) expected future costs ratio {% of (1)}	84.2%	84.3%	84.4%	84.5%	85.0%
(3) expected future costs {(1) x (2)}	6,956	7,076	7,227	7,236	6,777
(4) premium deficiency / (deferred policy					
acquisition cost)	(1,307)	(1,318)	(1,335)	(1,326)	(1,199)
Excluding Actuarial Present Value Adjustments					
(5) expected future costs ratio {% of (1)}	79.4%	79.5%	79.6%	79.7%	80.1%
(6) expected future costs {(1) x (5)}	6,558	6,671	6,813	6,822	6,389
(7) premium deficiency / (deferred policy					
acquisition cost)	(1,705)	(1,723)	(1,749)	(1,740)	(1,587)



# 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	;		actua	arial present val	ue adjustments	(apvs)		
Acc Yr	Case	IBNR	Total Unpaid	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL
2005	-	(2)	(2)	-	-	-	-	-	-	(2)
2006	-	-	-	-	-	-	-	-	-	-
2007	-	(4)	(4)	-	-	-	-	-	-	(4)
2008	73	4	77	(1)	-	8	-	8	7	84
2009	317	13	330	(7)	1	33	(1)	32	26	356
2010	90	40	130	(3)	1	13	-	13	11	141
2011	1,082	42	1,124	(26)	4	112	(3)	109	87	1,211
2012	315	93	408	(11)	2	41	(1)	40	31	439
2013	2,062	96	2,158	(54)	9	216	(5)	211	166	2,324
2014	966	254	1,220	(33)	5	122	(3)	119	91	1,311
2015	1,050	487	1,537	(46)	8	154	(5)	149	111	1,648
2016	710	1,009	1,719	(62)	10	210	(8)	202	150	1,869
2017	2,436	940	3,376	(145)	24	412	(18)	394	273	3,649
2018	2,163	2,113	4,276	(201)	34	513	(24)	489	322	4,598
PAYs (sub-total):	11,264	5,085	16,349	(589)	98	1,834	(68)	1,766	1,275	17,624
CAY (2019)	3,638	3,395	7,033	(345)	63	809	(40)	769	487	7,520
claims liabilities:	14,902	8,480	23,382	(934)	161	2,643	(108)	2,535	1,762	25,144
	Unearned Premium	Premium Deficiency / (DPAC)	Total Provision	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL*
premium liabilities:	7,976	(1,587)	6,389	(210)	37	581	(20)	561	388	6,777
						•	Total may not be s	um of parts, as ap	vs apply to future	costs within UPR
policy liabilities:			29,771	(1,144)	198	3,224	(128)	3,096	2,150	31,921



#### **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 (Mar. 31, 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%	9.9%	10.0%
2015	10.0%	10.0%	10.0%	10.0%
2016	12.5%	10.0%	10.9%	12.2%
2017	12.5%	10.0%	9.1%	12.2%
2018	12.5%	10.0%	8.9%	12.0%
2019	12.3%	10.0%	5.7%	11.5%
2020	11.8%	10.0%	5.1%	9.4%
prem liab	11.8%	10.0%	5.1%	9.4%

discount rate: 1.44% 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

0.44%  1 58 115 99 1,260 361 1,860 1,145 1,444 1,846 3,803 4,800 7,930 24,722 - 100 bp	0.94%	1.44%  1 57 114 98 1,240 354 1,828 1,123 1,414 1,799 3,689 4,643 7,660 24,020 curr val assumption  Dollar Imp 1.44%	1.94% (339)	2.44%	·	1.93%  1 57 113 97 1,230 351 1,813 1,113 1,400 1,777 3,636 4,569 7,535 23,692 prior val assumption  1.93% (328)	2.29% (569)
58 115 99 1,260 361 1,860 1,145 1,444 1,846 3,803 4,800 7,930 24,722 - 100 bp	57 115 98 1,250 358 1,844 1,134 1,428 1,822 3,745 4,720 7,792 24,364 curr - 50 bp	57 114 98 1,240 354 1,828 1,123 1,414 1,799 3,689 4,643 7,660 24,020 curr val assumption Dollar Im	57 113 97 1,230 351 1,812 1,112 1,399 1,776 3,634 4,567 7,532 23,681 curr + 50bp	56 112 96 1,220 348 1,797 1,102 1,385 1,754 3,581 4,495 7,407 23,354 curr + 100bp	56 111 95 1,210 345 1,782 1,092 1,372 1,733 3,530 4,423 7,287 23,037 curr + 150bp	57 113 97 1,230 351 1,813 1,113 1,400 1,777 3,636 4,569 7,535 23,692 prior val assumption	56 112 96 1,223 349 1,801 1,105 1,389 1,761 3,597 4,516 7,445 23,451 prior fyr end assumption
58 115 99 1,260 361 1,860 1,145 1,444 1,846 3,803 4,800 7,930 24,722 - 100 bp	57 115 98 1,250 358 1,844 1,134 1,428 1,822 3,745 4,720 7,792 24,364 curr - 50 bp	57 114 98 1,240 354 1,828 1,123 1,414 1,799 3,689 4,643 7,660 24,020 curr val assumption Dollar Im	57 113 97 1,230 351 1,812 1,112 1,399 1,776 3,634 4,567 7,532 23,681 curr + 50bp	56 112 96 1,220 348 1,797 1,102 1,385 1,754 3,581 4,495 7,407 23,354 curr + 100bp	56 111 95 1,210 345 1,782 1,092 1,372 1,733 3,530 4,423 7,287 23,037 curr + 150bp	57 113 97 1,230 351 1,813 1,113 1,400 1,777 3,636 4,569 7,535 23,692 prior val assumption	56 112 96 1,223 349 1,801 1,105 1,389 1,761 3,597 4,516 7,445 23,451 prior fyr end assumption
58 115 99 1,260 361 1,860 1,145 1,444 1,846 3,803 4,800 7,930 24,722 - 100 bp	57 115 98 1,250 358 1,844 1,134 1,428 1,822 3,745 4,720 7,792 24,364 curr - 50 bp	57 114 98 1,240 354 1,828 1,123 1,414 1,799 3,689 4,643 7,660 24,020 curr val assumption Dollar Im	57 113 97 1,230 351 1,812 1,112 1,399 1,776 3,634 4,567 7,532 23,681 curr + 50bp	56 112 96 1,220 348 1,797 1,102 1,385 1,754 3,581 4,495 7,407 23,354 curr + 100bp	56 111 95 1,210 345 1,782 1,092 1,372 1,733 3,530 4,423 7,287 23,037 curr + 150bp	57 113 97 1,230 351 1,813 1,113 1,400 1,777 3,636 4,569 7,535 23,692 prior val assumption	56 112 96 1,223 349 1,801 1,105 1,389 1,761 3,597 4,516 7,445 23,451 prior fyr end assumption
115 99 1,260 361 1,860 1,145 1,444 1,846 3,803 4,800 7,930 24,722 - 100 bp	115 98 1,250 358 1,844 1,134 1,428 1,822 3,745 4,720 7,792 24,364 curr - 50 bp	114 98 1,240 354 1,828 1,123 1,414 1,799 3,689 4,643 7,660 24,020 curr val assumption Dollar Imp	113 97 1,230 351 1,812 1,112 1,399 1,776 3,634 4,567 7,532 23,681 curr + 50bp	112 96 1,220 348 1,797 1,102 1,385 1,754 3,581 4,495 7,407 23,354 curr + 100bp	111 95 1,210 345 1,782 1,092 1,372 1,733 3,530 4,423 7,287 23,037 curr + 150bp	113 97 1,230 351 1,813 1,113 1,400 1,777 3,636 4,569 7,535 23,692 prior val assumption	112 96 1,223 349 1,801 1,105 1,389 1,761 3,597 4,516 7,445 23,451 prior fyr end assumption
99 1,260 361 1,860 1,145 1,444 1,846 3,803 4,800 7,930 24,722 - 100 bp	98 1,250 358 1,844 1,134 1,428 1,822 3,745 4,720 7,792 24,364 curr - 50 bp	98 1,240 354 1,828 1,123 1,414 1,799 3,689 4,643 7,660 24,020 curr val assumption Dollar Imp	97 1,230 351 1,812 1,112 1,399 1,776 3,634 4,567 7,532 23,681 curr + 50bp  Dact Relative t 1,94% (339)	96 1,220 348 1,797 1,102 1,385 1,754 3,581 4,495 7,407 23,354 curr + 100bp	95 1,210 345 1,782 1,092 1,372 1,733 3,530 4,423 7,287 23,037 curr + 150bp	97 1,230 351 1,813 1,113 1,400 1,777 3,636 4,569 7,535 23,692 prior val assumption 1,93% (328)	96 1,223 349 1,801 1,105 1,389 1,761 3,597 4,516 7,445 23,451 prior fyr end assumption 2,29% (569)
1,260 361 1,860 1,145 1,444 1,846 3,803 4,800 7,930 24,722 - 100 bp	1,250 358 1,844 1,134 1,428 1,822 3,745 4,720 7,792 24,364 curr - 50 bp	1,240 354 1,828 1,123 1,414 1,799 3,689 4,643 7,660 24,020 curr val assumption Dollar Im	1,230 351 1,812 1,112 1,399 1,776 3,634 4,567 7,532 23,681 curr + 50bp	1,220 348 1,797 1,102 1,385 1,754 3,581 4,495 7,407 23,354 curr + 100bp	1,210 345 1,782 1,092 1,372 1,733 3,530 4,423 7,287 23,037 curr + 150bp	1,230 351 1,813 1,113 1,400 1,777 3,636 4,569 7,535 23,692 prior val assumption	1,223 349 1,801 1,105 1,389 1,761 3,597 4,516 7,445 23,451 prior fyr end assumption
361 1,860 1,145 1,444 1,846 3,803 4,800 7,930 24,722 - 100 bp	358 1,844 1,134 1,428 1,822 3,745 4,720 7,792 24,364 curr - 50 bp	354 1,828 1,123 1,414 1,799 3,689 4,643 7,660 24,020 curr val assumption Dollar Imp 1,44%	351 1,812 1,112 1,399 1,776 3,634 4,567 7,532 23,681 curr + 50bp	348 1,797 1,102 1,385 1,754 3,581 4,495 7,407 23,354 curr + 100bp	345 1,782 1,092 1,372 1,733 3,530 4,423 7,287 23,037 curr + 150bp	351 1,813 1,113 1,400 1,777 3,636 4,569 7,535 23,692 prior val assumption	349 1,801 1,105 1,389 1,761 3,597 4,516 7,445 23,451 prior fyr end assumption
1,860 1,145 1,444 1,846 3,803 4,800 7,930 24,722 - 100 bp	1,844 1,134 1,428 1,822 3,745 4,720 7,792 24,364 curr - 50 bp	1,828 1,123 1,414 1,799 3,689 4,643 7,660 24,020 curr val assumption Dollar Im 1,44%	1,812 1,112 1,399 1,776 3,634 4,567 7,532 23,681 curr + 50bp	1,797 1,102 1,385 1,754 3,581 4,495 7,407 23,354 curr + 100bp	1,782 1,092 1,372 1,733 3,530 4,423 7,287 23,037 curr + 150bp	1,813 1,113 1,400 1,777 3,636 4,569 7,535 23,692 prior val assumption 1.93% (328)	1,801 1,105 1,389 1,761 3,597 4,516 7,445 23,451 prior fyr end assumption
1,145 1,444 1,846 3,803 4,800 7,930 24,722 - 100 bp	1,134 1,428 1,822 3,745 4,720 7,792 24,364 curr - 50 bp	1,123 1,414 1,799 3,689 4,643 7,660 24,020 curr val assumption Dollar Im 1,44%	1,112 1,399 1,776 3,634 4,567 7,532 23,681 curr + 50bp  Dact Relative t 1,94% (339)	1,102 1,385 1,754 3,581 4,495 7,407 23,354 curr + 100bp	1,092 1,372 1,733 3,530 4,423 7,287 23,037 curr + 150bp sumption 2.94%	1,113 1,400 1,777 3,636 4,569 7,535 23,692 prior val assumption 1.93% (328)	1,105 1,389 1,761 3,597 4,516 7,445 23,451 prior fyr end assumption 2.29% (569)
1,444 1,846 3,803 4,800 7,930 24,722 - 100 bp 0.44% 702	1,428 1,822 3,745 4,720 7,792 24,364 curr - 50 bp	1,414 1,799 3,689 4,643 7,660 24,020 curr val assumption Dollar Im 1,44%	1,399 1,776 3,634 4,567 7,532 23,681 curr + 50bp	1,385 1,754 3,581 4,495 7,407 23,354 curr + 100bp	1,372 1,733 3,530 4,423 7,287 23,037 curr + 150bp sumption 2.94%	1,400 1,777 3,636 4,569 7,535 23,692 prior val assumption 1.93% (328)	1,389 1,761 3,597 4,516 7,445 23,451 prior fyr end assumption 2.29% (569)
1,846 3,803 4,800 7,930 24,722 - 100 bp 0.44% 702	1,822 3,745 4,720 7,792 24,364 curr - 50 bp	1,799 3,689 4,643 7,660 24,020 curr val assumption Dollar Imp 1,44%	1,776 3,634 4,567 7,532 23,681 curr+50bp pact Relative t 1,94% (339)	1,754 3,581 4,495 7,407 23,354 curr + 100bp o Valuation As 2.44%	1,733 3,530 4,423 7,287 23,037 curr + 150bp sumption 2.94%	1,777 3,636 4,569 7,535 23,692 prior val assumption 1.93% (328)	1,761 3,597 4,516 7,445 23,451 prior fyr end assumption 2.29% (569)
3,803 4,800 7,930 24,722 - 100 bp 0.44% 702	3,745 4,720 7,792 24,364 curr - 50 bp	3,689 4,643 7,660 24,020 curr val assumption Dollar Im 1,44%	3,634 4,567 7,532 23,681 curr+50bp pact Relative t 1,94% (339)	3,581 4,495 7,407 23,354 curr + 100bp o Valuation As 2,44%	3,530 4,423 7,287 23,037 curr + 150bp sumption 2.94%	3,636 4,569 7,535 23,692 prior val assumption 1.93% (328)	3,597 4,516 7,445 23,451 prior fyr end assumption 2.29% (569)
4,800 7,930 24,722 - 100 bp 0.44% 702	4,720 7,792 24,364 curr - 50 bp 0.94% 344	4,643 7,660 24,020 curr val assumption Dollar Im 1.44%	4,567 7,532 23,681 curr + 50bp pact Relative t 1.94% (339)	4,495 7,407 23,354 curr + 100bp o Valuation As 2.44%	4,423 7,287 23,037 curr + 150bp sumption 2.94%	4,569 7,535 23,692 prior val assumption 1.93% (328)	4,516 7,445 23,451 prior fyr end assumption 2.29% (569)
7,930 24,722 - 100 bp 0.44% 702	7,792 24,364 curr - 50 bp 0.94% 344	7,660 24,020 curr val assumption Dollar Im 1.44%	7,532 23,681 curr + 50bp pact Relative t 1.94% (339)	7,407 23,354 curr + 100bp o Valuation As 2.44%	7,287 23,037 curr + 150bp sumption 2.94%	7,535 23,692 prior val assumption 1.93% (328)	7,445 23,451 prior fyr end assumption 2.29% (569)
24,722 - 100 bp 0.44% 702	24,364 curr - 50 bp 0.94% 344	24,020 curr val assumption Dollar Imp 1.44%	23,681 curr + 50bp pact Relative t 1.94% (339)	23,354 curr + 100bp to Valuation As 2.44%	23,037 curr + 150bp sumption 2.94%	23,692 prior val assumption 1.93% (328)	23,451 prior fyr end assumption 2.29% (569)
0.44% 702	0.94% 344	curr val assumption Dollar Imp 1.44%	curr + 50bp pact Relative t 1.94% (339)	curr + 100bp to Valuation As 2.44%	curr + 150bp sumption 2.94%	prior val assumption 1.93% (328)	prior fyr end assumption 2.29% (569)
0.44%	0.94%	Dollar Imp 1.44%	0act Relative t 1.94% (339)	o Valuation As 2.44%	sumption 2.94%	1.93% (328)	2.29% (569)
702	344	Dollar Imp 1.44%	1.94% (339)	2.44%	2.94%	1.93%	2.29% (569)
702	344	1.44%	1.94% (339)	2.44%	2.94%	(328)	(569)
702	344	-	(339)			(328)	(569)
		- curr val	· · · · · ·	(666)	(983)	<del> </del>	
- 100 bp	curr - 50 bp	curr val	account COlors				
		Carr Var	curr + 50bp	curr + 100bp	curr + 150bp	prior val	prior fyr end
		assumption				assumption	assumption
					-	3	3
0.44%	0.94%	1.44%	1.94%	2.44%	2.94%	1.93%	2.29%
-	-	-	-	-	-	-	-
			L				
-	-	-	-		-	-	-
			L				(1.8%)
	0.9%	-	1			1	(1.8%)
			<b></b>			1	(2.0%)
	:	-	1			1	(1.4%)
	:		<b>⊱</b>			1 <u>-</u>	(1.4%)
	:	-	1			1	(1.5%)
—	;		F			1	(1.6%)
	:	-	1			1	(1.8%)
	:		<b></b>				(2.1%)
	:	-	1			1	(2.5%)
	;		F			1	(2.7%)
		-				<del> </del>	(2.8%) (2.4%)
		-	(1.4%)	(2.0%)	(4.1%)	(1.4%)	prior fyr end
	0.44%  1.8% 0.9% 1.0% 1.6% 2.0% 2.1% 2.6% 3.1% 3.4% 3.5%	1.8%	0.44% 0.94% 1.44%	0.44% 0.94% 1.44% 1.94%	0.44%         0.94%         1.44%         1.94%         2.44%           -	1.8%       -       -       (1.8%)       (1.8%)         0.9%       0.9%       -       (0.9%)       (1.8%)       (2.6%)         1.0%       -       (1.0%)       (2.0%)       (3.1%)         1.6%       0.8%       -       (0.8%)       (1.6%)       (2.4%)         2.0%       1.1%       -       (0.8%)       (1.7%)       (2.5%)         1.8%       0.9%       -       (0.9%)       (1.7%)       (2.5%)         2.0%       1.0%       -       (1.0%)       (1.9%)       (2.8%)         2.1%       1.0%       -       (1.1%)       (2.1%)       (3.0%)         2.6%       1.3%       -       (1.3%)       (2.5%)       (3.7%)         3.1%       1.5%       -       (1.5%)       (2.9%)       (4.3%)         3.4%       1.7%       -       (1.6%)       (3.2%)       (4.7%)         3.5%       1.7%       -       (1.7%)       (3.3%)       (4.9%)	0.44%         0.94%         1.44%         1.94%         2.44%         2.94%         1.93%           -



# **EXHIBIT G**

Page 1 of 2

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

RSP New Brunswick
AccountCode Desc IBNR - Discount

	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
2005	(2)	-	-	-	-	-	(2)
2006	-	-	-	-	-	-	-
2007	(4)	-	-	-	-	-	(4)
2008	11	-	-	-	-	-	11
2009	42	(2)	2	-	-	-	42
2010	55	(2)	2	-	-	-	55
2011	173	(4)	(30)	-	(34)	(19.7%)	139
2012	148	(7)	(4)	-	(11)	(7.4%)	137
2013	229	(5)	56	-	51	22.3%	280
2014	392	(16)	5	-	(11)	(2.8%)	381
2015	730	(37)	14	-	(23)	(3.2%)	707
2016	1,321	(27)	24	-	(3)	(0.2%)	1,318
2017	1,410	(26)	(32)	-	(58)	(4.1%)	1,352
2018	2,875	(62)	(20)	-	(82)	(2.9%)	2,793
2019	2,041	445	(189)	-	256	12.5%	2,297
<b>Grand Total</b>	9,421	257	(172)	-	85	0.9%	9,506



# **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
2005	(2)	-	-	-	-	-	(2)
2006	-	-	-	-	-	-	-
2007	(4)	-	-	-	-	-	(4)
2008	4	-	-	-	-	-	4
2009	14	(1)	1	-	-	-	14
2010	44	(2)	2	-	-	-	44
2011	39	(2)	9	-	7	17.9%	46
2012	114	(6)	(4)	-	(10)	(8.8%)	104
2013	54	(3)	56	-	53	98.1%	107
2014	296	(15)	5	-	(10)	(3.4%)	286
2015	608	(36)	14	-	(22)	(3.6%)	586
2016	1,152	(23)	22	-	(1)	(0.1%)	1,151
2017	1,102	(22)	(29)	-	(51)	(4.6%)	1,051
2018	2,511	(50)	(25)	-	(75)	(3.0%)	2,436
2019	1,794	403	(178)	-	225	12.5%	2,019
<b>Grand Total</b>	7,726	243	(127)	-	116	1.5%	7,842