

# **NEW BRUNSWICK RISK SHARING POOL**

# MARCH 2019 OPERATIONAL REPORT

# **ACTUARIAL HIGHLIGHTS**

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### **ACTUARIAL HIGHLIGHTS**

**RSP NEW BRUNSWICK** 

# **OPERATIONAL REPORT**

# **MARCH 2019**

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#### 1 Summary

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

The March 2019 Operational Report incorporates the results of an updated valuation (as at December 31, 2018) – the impact of the implementation of the valuation is discussed in section 1.2. 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: accident year 2018 loss ratio increased 0.5 points to 74.7%; discount rate increased 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		May 2019	update valuation (roll forward)								
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 New Valuation

A valuation of the New Brunswick Risk Sharing Pool ("RSP") as at December 31, 2018 has been completed since last month's Operational Report and the results of that valuation have been incorporated into this month's Report. The valuation was completed by the Facility Association's internal actuarial group in conjunction with, and approved by, the Appointed Actuary, under the hybrid model for actuarial services. Additional detail will be provided in an "Actuarial Highlights – Quarterly Valuation" report which we anticipate will be posted to the FA website later in June 2019.

The valuation implementation impact is summarized in the tables on the next page.

NB	unfav / (fav) for the month and ytd								
		IMPA	CT in \$000s	from chang	es in:				
	ults &	payout pat	tterns	dsct rate	margins				
	Nominal	Nominal apv adj. sub-tot apv adj. apv a							
	[1]	[2]	[3]	[4]	[5]	[6]			
PAYs	705	27	732	173	-	905			
CAY	34	2	36	25	-	61			
Prem Def	75 3			52	-	130			
TOTAL	814	32	846	250	-	1,096			

Summary of Impact (\$000s) of Implementing Result of Valuation as at December 31, 2018<sup>1</sup>

As indicated in the table above, the incorporation of the new valuation had an estimated *\$1.1 million unfavourable impact* on the month's net result from operations, adding an estimated 29.8 points (see table immediately below) to the **year-to-date Combined Operating Ratio** to end at **140.9%**.

Summary of Impact (% YTD EP) of Implementing Result of Valuation as at December 31, 2018

NB	ytd EP	3,681	(actual)			
	IM	PACT unfav	/ (fav) as %	% ytd EP fro	m changes	in:
	ults &	payout pat	tterns	dsct rate	margins	
	Nominal	apv adj.	sub-tot	apv adj.	apv adj.	TOTAL
	[1]	[2]	[3]	[4]	[5]	[6]
PAYs	19.2%	0.7%	19.9%	4.7%	-	24.6%
CAY	0.9%	0.1%	1.0%	0.7%	-	1.7%
Prem Def	2.0%	0.1%	2.1%	1.4%	-	3.5%
TOTAL	22.1%	0.9%	23.0%	6.8%	-	29.8%

The impact of the nominal changes is shown in column [1] of the two preceding summary tables. The change in the selected nominal ultimates was <u>un</u>favourable by \$0.8 million overall. This reflects the impact attributable to the changes in the selected ultimate loss ratios (i.e. for each accident year, it is the product of life-to-date earned premium for the accident year and the change in the selected ultimate loss ratio).

The prior accident years overall showed a \$0.7 million <u>un</u>favourable nominal variance, which is attributed to large claim activity. The overall <u>un</u>favourable prior accident years change is 3.8% of the prior accident years' nominal unpaid balance of \$18.4 million determined at the end of last month (February 2019). As a smaller pool, it is subject to higher levels of process variance, driving volatility in the ultimate selection.

The current accident year and premium deficiency impacts are a result of the changes in the selected loss ratios for accident year **2019** (up 0.9 points to **75.5%**) and reflecting **2020** (up 2.4 points to

<sup>&</sup>lt;sup>1</sup>In these tables, "PAYs" refers to prior accident years, "CAY" refers to the current accident year, and "Prem Def" refers to the provision for premium deficiency or the deferred policy acquisition asset (as applicable). "Nominal" refers to changes excluding any actuarial present value adjustments, whereas "apv adj." refers to actuarial present value adjustments.

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



**77.5%**). Generally, as a smaller pool, we would expect more volatility around projections of current and future expected loss ratios.

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

Column [2] recognizes that changing the nominal selections also changed the unpaid estimates (including changes to the relative mix by government line, which has an impact on the weighted-average MfADs). It also reflects the fact that we updated the projected emergence of claims payments, resulting in a change in the projected cash flows. These changes generated an <u>un</u>favourable change of \$32 thousand in the actuarial present value adjustments, prior to any changes in the selected discount rate and/or MfADs.

Updated projected cash flows were reviewed against the selected risk-free yield curve, derived from Government of Canada benchmark bond yields monthly series using values for December 2018. Column [4] accounts for the change in the **discount rate** selected (<u>decreased 36 basis point to 1.93%</u>), indicating an <u>unfavourable impact of \$0.3 million</u>. The impact *related only to claims liabilities* (i.e. PAYs plus CAY) was \$0.2 million at March 2019 – this compares to the \$0.2 million change one would estimate as the impact by interpolation using the interest rate sensitivity table provided in last month's Actuarial Highlights.

Column [5] accounts for any changes to selected MfADs. The selected **investment rate MfAD** was **left unchanged at 25 basis points** and the selected **claims development MfADs** at the coverage and accident year level were **left unchanged** as well.

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

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

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.

#### 1.4 Consideration of Recent Legal Decisions and Changes in Legislation / Regulation<sup>2</sup>

Discussion related to the Supreme Court of Canada Saadati v Moorhead decision (2017 SCC 28, rendered on June 2, 2017) was removed as at this point we do not believe this judgment will have a

<sup>&</sup>lt;sup>2</sup>This link is to a helpful guide on how bills become laws: <u>http://www.ontla.on.ca/lao/en/media/laointernet/pdf/bills-and-lawmaking-background-documents/how-bills-become-law-en.pdf</u>.



further impact on our valuation results.

Consideration and assessment of potential impacts of legal decisions and changes in legislation / regulation constitutes a regular part of the valuation process.

#### **1.5 Harmonized Sales Tax**

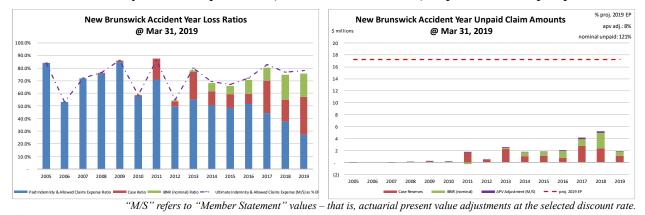
The descriptions in this section have been updated to reflect the most recent valuation (December 2018) and updates arising from the most recent industry trend analyses (June 2018).

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%.

Consideration of the HST rate increase was included in the NB PPV Industry 2018-1 data industry trend analyses, however, no specific adjustments have been made to the valuation assumptions from the **most recent** valuation (December 31, 2018).

#### **1.6** Current Provision Summary

The charts immediately below show the current levels of claim liabilities<sup>3</sup> booked by accident year. The left chart displays life-to-date payments, case reserves, IBNR, and the total including actuarial present value adjustments against accident year earned premium. The right chart shows the associated dollar amounts for the components of the claim liabilities and the current projected amount of 2019 full year earned premium (the red hash-mark line) to provide some perspective.



The current actuarial present value adjustments balance (\$1.3 million – see table at the top of the next page) represents 8% of the earned premium projected for the full year 2019 (see the upper right corner of the right chart above), with the increase in the actuarial present value adjustments from last month a result of the 2018 Q4 valuation implementation, specifically the decrease in the discount rate. If our current estimates of the nominal unpaid amounts prove to match actual claims payments, the actuarial present value adjustments will be released into the net operating result over future periods.

<sup>&</sup>lt;sup>3</sup>Claim liabilities refer to provision for unpaid indemnity and allowed claims expenses. Allowed claims expenses are first party legal and other expenses as listed in the RSP Claims Guide. Claims expenses paid through the member company expense allowance are NOT included in this discussion.



claim liabilities (\$000s)		
	amt	%
case	13,928	63.1%
ibnr	6,828	30.9%
M/S apv adjust.	1,329	6.0%
M/S total	22,085	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 48% of the IBNR balance relates to accident years 2018 and 2019 (see Exhibit B). Approximately 69% 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 immediately below summarize the premium liabilities and the total policy liabilities.

premium liabilities (\$0	000s)		policy liabilities (\$000	5)	
	amt	%		amt	%
unearned prem	7,651	121.9%	claim	20,756	73.2%
prem def/(dpac)	(1,667)	(26.6%)	premium	5,984	21.1%
M/S apv adjust.	295	4.7%	M/S apv adjust.	1,624	5.7%
M/S total	6,279	100.0%	M/S total	28,364	100.0%

#### 2 Activity During the Month of March 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>4</sup>.

Table 01	Farned F	Earned Premium		Paid Indemnity &		crease /	Recorded increase /		
			Allowed Cla	ims Expense	(decr	ease)	(decrease)		
Accident	Actual	Actual less	Actual	Actual less	Actual	Actual less	Actual	Actual less	
Year	Actual	Projected	Actual	Projected	Actual	Projected	Actual	Projected	
Prior	0	0	15	(152)	(96)	51	(81)	(101)	
2017	(0)	(0)	23	(101)	(49)	62	(26)	(39)	
2018	(5)	(5)	158	4	35	161	193	165	
2019	1,333	(19)	532	169	250	30	782	198	
TOTAL	1,327	(25)	728	(80)	140	303	868	223	

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

(Recorded transaction amounts exclude IBNR & other actuarial provisions)

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

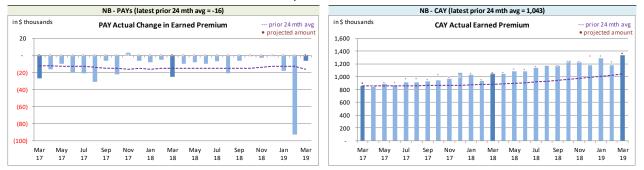
<sup>&</sup>lt;sup>4</sup>There may be rounding differences in values in this document compared with the associated Bulletin and/or Operational Report.



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

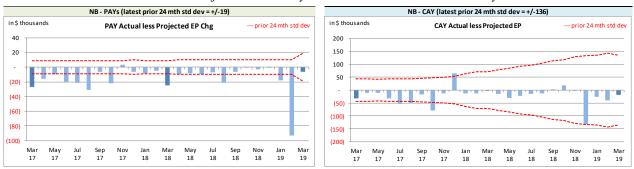
The charts immediately below show actual **earned premium**<sup>5</sup> activity in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

New Brunswick RSP Actual Earned Premium by Calendar Month



**Earned premium** changes during a given calendar month in relation to prior accident years tend to be at modest levels, although relatively high levels generally occur at the beginning of each year. The unusually and relatively high prior accident years earned premium in February 2019 were investigated and related to a member removal of ineligible risks.

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>5</sup>Premium is earned on a daily basis based on the transaction term measured in days. As a result, months with 31 days earned relatively more than those with 30 days, and February earns the least.



On Latest \$thousands								
Earned Premium	PAYs	CAY						
Mthly Avg EP Chg (prior 24 mths)	(16)	1,043						
std dev	19	136						
A-P <> std dev	11	4						
% <> std dev	44.0%	16.0%						
norm <> std dev	31.7%	31.7%						

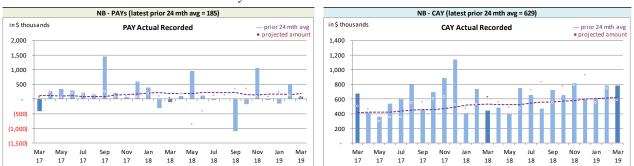
We project **earned premium** changes from known unearned premium and projected written premium levels, but upload the total projections as current accident year (CAY). This process has generated prior accident years' (PAYs) bias<sup>6</sup>, with actuals generally lower than our projections, although the magnitude is not high relative to

monthly premium. In addition to the PAYs' bias, the CAY has also shown bias<sup>7</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.



New Brunswick RSP Actual **Recorded** by Calendar Month

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

<sup>&</sup>lt;sup>6</sup>The PAYs' variances will show bias as the projection upload forces all earned premium projections to be attributed to the CAY.

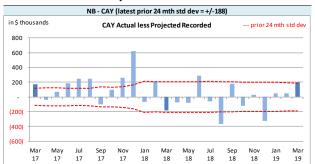
<sup>&</sup>lt;sup>7</sup>We measure bias based on a 95% confidence range for a binominal distribution with trials based on the range being considered (24 in this case) and 50% probability of success. The 24-month variances at March 2019 has only 3 months where the actual was higher than projected, and as the 95% confidence range is 7 to 17, bias continues to be indicated.



	NB - PAYs (latest prior 24 mth std dev = +/-515)												
in \$ thousands PAY Actual less Projected Recorded prior 24 mth										24 mth	std dev		
2,000													
1,500													
1,000				-									
500				_									
-	+												
(500)													
(1,000)	-												
(1,500)													
(2,000)													
	Mar 17	May 17	Jul 17	Sep 17	Nov 17	Jan 18	Mar 18	May 18	Jul 18	Sep 18	Nov 18	Jan 19	Mar 19

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

On Latest	\$ thousand	s
Recorded	PAYs	CAY
Mthly Avg Recorded (prior 24 mths)	185	629
std dev	515	188
A-P <> std dev	9	11
% <> std dev	36.0%	44.0%
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, 36% of the prior accident years' (PAYs) **recorded** variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **recorded** amounts (see 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.

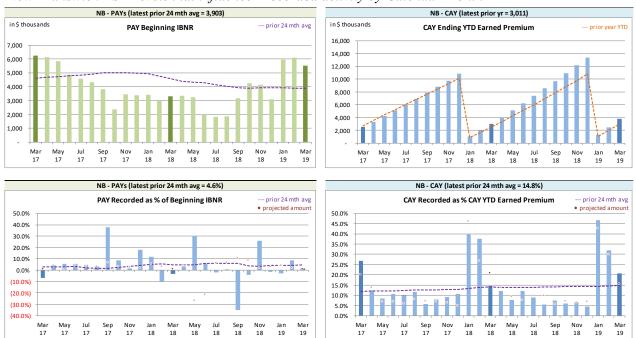
The current accident year (CAY) **recorded** variances fell outside of one standard deviation 44% of the time over the last 25 calendar months (see table above), suggesting the projection process has performed worse than simply projecting the prior 24-month average amount. We believe projection improvements 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 CAY **recorded** variance (see right chart above) was outside of one standard deviation this month. The activity was reviewed and confirmed, with the variance attributed to process variance.

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>8</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:

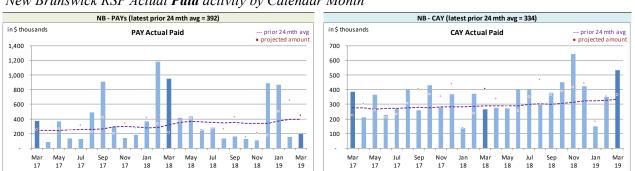
- to offset actual **recorded** activity (through loss ratio matching);
- the annual switchover as a current accident year becomes a prior accident year (occurs in January); and
- when a new valuation is implemented, where the valuation resulted in changes to the selection of prior accident years' ultimate (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>8</sup>Our recorded activity projections for the prior accident years are based on selected ratios of recorded activity to beginning unpaid balances, whereas the current accident year projections are based on selected ratios of year-to-date IBNR to year-to-date selected ultimate (i.e. selected LR x earned premium), deriving year-to-date recorded as selected ultimate less IBNR. In both cases, the ratio selection is based on our review of the more recent recorded activity and recent AvsP analyses.





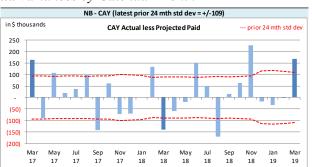
New Brunswick RSP Actual Paid activity by Calendar Month

**Paid** activity variances from the previous month's projections are shown in the 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

			1	NB - PAN	rs (lates	st prior	24 mth	std dev	= +/-32	3)			
in\$th	ousand	ls		P	AY Act	ual less	Projec	ted Pa	id		prior 2	24 mth s	td dev
1,000													
800													
600	-						H-						
400	-						H-						
200												_	
-	+												
(200)											_		
(400)	-												
(600)													
	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar
	17	17	17	17	17	18	18	18	18	18	18	19	19

On Latest \$	On Latest \$thousands								
Paid	Paid PAYs								
Mthly Avg Paid (prior 24 mths)	392	334							
std dev	323	109							
A-P <> std dev	8	10							
% <> std dev	32.0%	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

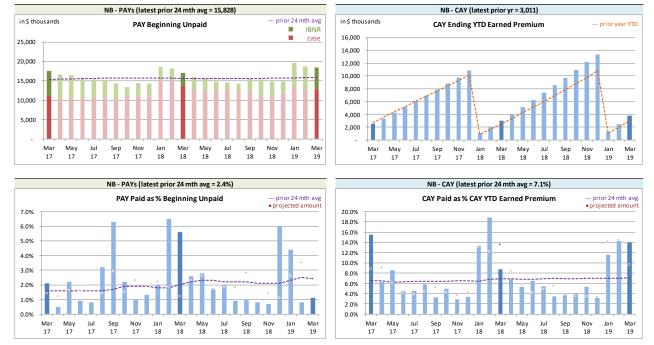
relative or overall terms. That said, 32% of the prior accident years' (PAYs) variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **paid** amounts (see table on the left above), suggesting the projection process has performed no better than simply projecting the prior 24-month average amount (assuming a normal distribution). Bias has not been indicated at a 95% confidence level on a lagging 24-month basis.

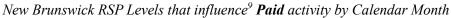
The current accident year (CAY) **paid** variances fell outside of one standard deviation 40% of the time over the last 25 calendar months (see table above), suggesting that the projection process has performed worse than simply projecting the prior 24-month average amount. No bias has been indicated at a 95% confidence level on a lagging 24-month basis.

The CAY **paid** variance (see 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.





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>10</sup>, and factors were applied to the nominal unpaid claims liability (case plus IBNR) to determine the discount amount (shown as a negative value to indicate its impact of reducing the liability) and the Provisions for Adverse Deviations. The loss ratios and the factors used to

<sup>&</sup>lt;sup>9</sup>Our paid projections for the prior accident years are based on selected ratios of paid to beginning unpaid balances, whereas the current accident year projections are based on selected ratios of year-to-date paid to year-to-date selected ultimate indemnity (i.e. selected LR x earned premium). In both cases, the ratio selection is based on our review of the more recent recorded activity and recent AvsP analyses.

<sup>&</sup>lt;sup>10</sup>For ease of discussion, "IBNR" is used in place of "provisions for incurred but not recorded (IBNR) and development".



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.

Table 02			actua	arial present v				
	ID	NR	Discount Amount		Provisions for Adverse		IBNR + actuarial present	
	IDINIK		Discount Amount		Devia	ations	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	2,414	1,057	(372)	24	1,061	59	3,103	1,140
2017	1,122	(197)	(217)	47	473	(8)	1,378	(158)
2018	2,594	(182)	(311)	61	600	32	2,883	(89)
2019	698	(179)	(117)	34	212	(15)	793	(160)
TOTAL	6,828	499	(1,017)	166	2,346	68	8,157	733

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

The IBNR provision is \$0.5 million higher than projected from last month, counterbalancing the recorded claims activity and adjusting for the earned premium variance impacts indicated in section 2.1, and due to the valuation implementation.

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

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

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

The 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, and due to the valuation implementation.



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

Table 03	Premium Deficiency / (Deferred Policy Acquisition Costs)		•	esent value ments	Premium Deficiency / (DPAC) including actuarial present value adjustments	
	Actual	Actual less Projected	Actual	Actual less Projected	Actual	Actual less Projected
balance:	(1,667)	109	295	51	(1,372)	160
balance as % unearned premium:	(21.8%)	1.0%	3.9%	0.8%	(17.9%)	1.8%
actual unearned premium:	7,651					

less projected: (144)

#### **3** Ultimate Loss Ratio Matching Method

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

- (a) Earned premium to-date
- (b) Ultimate loss<sup>11</sup> ratio per latest valuation
- (c) Estimated ultimate incurred = (a) x (b)
- (d) Recorded indemnity & allowed claims expense to-date
- (e) IBNR = (c) (d)

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

The table at the top of the next page summarizes the calendar year-to-date results for indemnity & allowed claims expenses<sup>12</sup>, including IBNR.

In calculating the amounts as percentages of earned premium, the calendar year-to-date earned premium has been used, which includes not only the earned premium associated with the current accident year, but also earned premium adjustments related to prior accident years. Specifically, the current accident year (CAY) ratio in the table is 77.9% rather than 75.5% (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>11</sup>"Loss" here refers to indemnity and allowed claims expenses, but does not include the claims expense allowance included in member company overall expense allowances ("Expense Allowance" in the Operational Report).

<sup>&</sup>lt;sup>12</sup>Allowed claims expenses are first party legal and other expenses as listed in the RSP Claims Guide. Claims expenses paid through the member company expense allowance are NOT included in this analysis.



Table 04	YTD Nominal Values		YTD actuarial present value adjustment		YTD To	otal	Change from Prior Month YTD	
	Amount	% EP	Amount	% EP	Amount	% EP	Amount	LR pts
PAYs	615	16.7%	238	6.5%	853	23.2%	894	24.9%
CAY	2,867	77.9%	95	2.6%	2,962	80.5%	1,072	0.2%
TOTAL	3,482	94.6%	333	9.0%	3,815	103.6%	1,966	25.0%

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

("% 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, and due to the valuation implementation.

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

#### 5 Current Operational Report – Additional Exhibits

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

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

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

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



# 6 EXHIBITS

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	Feb. 2019	Mar. 2019	Apr. 2019	May. 2019	Dec. 2019		
	2005	(2)	(2)	(2)	(2)	(2)		
	2006	-	-	-	-	-		
	2007	9	(4)	(4)	(4)	(4)		
	2008	10	10	10	10	9		
	2009	(443)	56	52	50	41		
	2010	66	54	49	47	39		
	2011	(379)	(167)	(146)	(139)	(92)		
	2012	216	109	101	97	78		
	2013	(124)	320	300	290	248		
discount rate	2014	562	729	670	645	517		
1.93%	2015	705	751	745	693	541		
	2016	1,375	1,247	1,191	1,105	953		
interest rate margin	2017	1,555	1,378	1,331	1,243	1,084		
25 basis pts	2018	3,006	2,883	2,847	2,814	2,394		
	2019	503	793	1,252	1,865	4,464		
	TOTAL	7,059	8,157	8,396	8,714	10,270		
	Change		1,098	239	318			

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	
	Loss Ratio	Year	Feb. 2019	Mar. 2019	Apr. 2019	May. 2019	Dec. 2019	
	84.0%	2005	(2)	(2)	(2)	(2)	(2)	
	53.2%	2006	-	-	-	-	-	
	72.0%	2007	8	(4)	(4)	(4)	(4)	
	76.3%	2008	4	4	4	4	4	
	86.1%	2009	(483)	42	38	36	28	
	58.6%	2010	56	44	40	38	30	
	85.1%	2011	(455)	(266)	(242)	(232)	(179)	
	54.4%	2012	177	76	69	66	50	
	78.3%	2013	(249)	156	142	136	105	
	67.9%	2014	470	618	562	540	419	
	65.8%	2015	612	642	636	585	448	
	70.8%	2016	1,239	1,104	1,049	965	828	
	80.4%	2017	1,332	1,122	1,077	991	859	
	74.6%	2018	2,804	2,594	2,568	2,542	2,161	
	75.5%	2019	452	698	1,125	1,703	4,064	
		TOTAL	5,965	6,828	7,062	7,368	8,811	
		Change		863	234	306		

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 Feb. 2019	Actual Mar. 2019	Projected Apr. 2019	Projected May. 2019	Projected Dec. 2019		
(1) unearned premium (UP)	7,571	7,651	8,130	8,574	10,187		
FOR MEMBER SHARING							
(2) expected future costs ratio {% of (1)}	80.4%	82.1%	82.2%	82.4%	84.0%		
(3) expected future costs {(1) x (2)}	6,084	6,279	6,682	7,062	8,561		
(4) premium deficiency / (deferred policy							
acquisition cost)	(1,487)	(1,372)	(1,448)	(1,512)	(1,626)		
Excluding Actuarial Present Value Adjustments							
(5) expected future costs ratio {% of (1)}	77.2%	78.2%	78.3%	78.5%	80.1%		
(6) expected future costs {(1) x (5)}	5,846	5,984	6,369	6,729	8,160		
(7) premium deficiency / (deferred policy							
acquisition cost)	(1,725)	(1,667)	(1,761)	(1,845)	(2,027)		



# 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				Projec	ted Balances a	s at Dec. 31, 201	.9 (\$000s)			
ending 2019		nominal values	5		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
2006	-	-	-	-	-	-	-	-	-	-
2007	-	(4)	(4)	-	-	-	-	-	-	(4)
2008	67	4	71	(2)	-	7	-	7	5	76
2009	148	28	176	(5)	1	18	(1)	17	13	189
2010	90	30	120	(3)	-	12	-	12	9	129
2011	1,415	(179)	1,236	(38)	5	124	(4)	120	87	1,323
2012	393	50	443	(16)	2	44	(2)	42	28	471
2013	2,014	105	2,119	(70)	8	212	(7)	205	143	2,262
2014	1,057	419	1,476	(52)	7	148	(5)	143	98	1,574
2015	1,051	448	1,499	(58)	7	150	(6)	144	93	1,592
2016	829	828	1,657	(78)	10	202	(9)	193	125	1,782
2017	2,534	859	3,393	(190)	24	414	(23)	391	225	3,618
2018	1,834	2,161	3,995	(252)	32	483	(30)	453	233	4,228
PAYs (sub-total):	11,432	4,747	16,179	(764)	96	1,814	(87)	1,727	1,059	17,238
CAY (2019)	3,671	4,064	7,735	(495)	62	890	(57)	833	400	8,135
claims liabilities:	15,103	8,811	23,914	(1,259)	158	2,704	(144)	2,560	1,459	25,373
	Unearned Premium	Premium Deficiency / (DPAC)	Total Provision	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL*
premium liabilities:	10,187	(2,027)	8,160	(355)	47	742	(33)	709	401	8,561
						*	Total may not be s	um of parts, as ap	vs apply to future	costs within UPR
policy liabilities:			32,074	(1,614)	205	3,446	(177)	3,269	1,860	33,934



#### 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 Cla	ims Developr	nent MIADS (De	C. 31, 2018)
Accident	Third Party	Accident	Other	Total
Year	Liability	Benefits	Coverages	Total
	Margins	Margins	Margins	Margins
2005	10.0%	10.0%	10.0%	10.0%
2006	10.0%	10.0%	10.0%	10.0%
2007	10.0%	10.0%	10.0%	10.0%
2008	10.0%	10.0%	10.0%	10.0%
2009	10.0%	10.0%	10.0%	10.0%
2010	10.0%	10.0%	10.0%	10.0%
2011	10.0%	10.0%	10.0%	10.0%
2012	10.0%	10.0%	10.0%	10.0%
2013	10.0%	10.0%	10.0%	10.0%
2014	10.0%	10.0%	9.4%	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%	9.9%	12.2%
2018	12.5%	10.0%	11.6%	12.1%
2019	12.3%	10.0%	5.7%	11.5%
prem liab	11.7%	10.0%	5.6%	9.4%
			diagon unt votor	1 0 2 0/

Selected Claims Development MfADs (Dec. 31, 2018)

discount rate: 1.93%

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 (1.93%), the prior valuation assumption (2.29%) 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

	AC	tuariar Present	Value of Provisi	ions at Various	Discount Rates	- Dec. 31, 2019	projected Unpa	aid
AY	0.93%	1.43%	1.93%	2.43%	2.93%	3.43%	2.29%	2.29%
2005	-	-	-	-	-	-	-	-
006	-	-	-					
2007	1	1	1	1	1	1	1	1
2008	48	48	47	47	47	46	47	47
2009	111	110	109	109	108	107	109	109
2010	89	88	87	87	86	85	87	87
011	920	912	905	898	891	884	900	900
012	312	309	306	303	300	298	304	304
013	1,773	1,757	1,742	1,727	1,712	1,698	1,731	1,731
014	1,330	1,318	1,306	1,295	1,284	1,272	1,298	1,298
015	1,361	1,347	1,334	1,320	1,307	1,295	1,324	1,324
016	1,729	1,708	1,687	1,666	1,646	1,627	1,672	1,672
017	3,757	3,701	3,647	3,593	3,542	3,491	3,608	3,608
018	4,720	4,642	4,565	4,491	4,419	4,348	4,511	4,511
019	8,500	8,356	8,216	8,078	7,947	7,819	8,117	8,117
otal	24,651	24,297	23,952	23,615	23,290	22,971	23,709	23,709
	curr - 100 bp	curr - 50 bp	curr val	curr + 50bp	curr + 100bp	curr + 150bp	prior val	prior fyr end
			assumption				assumption	assumption
		=				-		
			Dollar Im	npact Relative t	o Valuation Ass	umption		
Y	0.93%	1.43%	1.93%	2.43%	2.93%	3.43%	2.29%	2.29%
otal	699	345	-	(337)	(662)	(981)	(243)	(243)
	curr - 100 bp	curr - 50 bp	curr val	curr + 50bp	curr + 100bp	curr + 150bp	prior val	
				curi · Sobp	cuil : 1000p	cuil + 1500p		prior fyr end
			assumption	cuii - 505p	cuil : 1000p	cuir ( 1500p	assumption	assumption
			assumption	•				
			assumption	•	e to Valuation A			
<b>.</b> Y	0.93%	1.43%	assumption	•				
	0.93%	1.43%	assumption Percentage	Impact Relativ	e to Valuation A	Assumption	assumption	assumption
005	0.93%	1.43%	assumption Percentage	Impact Relativ	e to Valuation A	Assumption	assumption	assumption
)05 )06	0.93%	1.43%	assumption Percentage	Impact Relativ	e to Valuation A	Assumption	assumption	assumption
005 006 007	0.93%	1.43% - - 2.1%	assumption Percentage	Impact Relativ	e to Valuation A	Assumption	assumption	assumption
005 006 007 008		-	assumption Percentage	Impact Relativ	e to Valuation A	Assumption 3.43%	assumption	assumption
005 006 007 008 009	2.1%	- - 2.1%	assumption Percentage	Impact Relativ	e to Valuation A 2.93% - - - -	Assumption 3.43% - - - - - - - - - - - - - - - - - - -	2.29%	assumption
005 006 007 008 009 010	<u> </u>	- - - 2.1%	assumption Percentage	Impact Relativ	e to Valuation A 2.93% - - - - - - - - - - - - - - - - - - -	Assumption 3.43% 	2.29%	assumption
005 006 007 008 009 010 011	2.1% 1.8% 2.3%		assumption Percentage	Impact Relativ 2.43% - - - - -	e to Valuation A 2.93% - - - - - - - - - - - - - - - - - - -	Assumption 3.43% (2.1%) (1.8%) (2.3%)	assumption 2.29%	assumption 2.29%
005 006 007 008 009 010 011 012	2.1% 1.8% 2.3% 1.7%	2.1% 0.9% 1.1% 0.8%	assumption Percentage	(0.8%)	e to Valuation A 2.93% 	Assumption 3.43% (2.1%) (1.8%) (2.3%) (2.3%)	assumption	assumption
005 006 007 008 009 010 011 012 012	2.1% 1.8% 2.3% 1.7% 2.0%	- 2.1% 0.9% 1.1% 0.8% 1.0%	assumption Percentage	Impact Relativ 2.43% - - - (0.8%) (1.0%)	e to Valuation A 2.93% - - - - (0.9%) (1.1%) (1.5%) (2.0%)	Assumption 3.43% (2.1%) (1.8%) (2.3%) (2.3%) (2.6%)	assumption 2.29% 	assumption
005 006 007 008 009 010 011 011 012 013	2.1% 1.8% 2.3% 1.7% 2.0% 1.8%		assumption Percentage	Impact Relativ 2.43% - - - - (0.8%) (1.0%) (0.9%)	e to Valuation A 2.93% - - - - - - - - - - - - - - - - - - -	Assumption 3.43% (2.1%) (1.8%) (2.3%) (2.3%) (2.6%) (2.5%)	assumption 2.29% 	assumption 2.29% 
005 006 007 008 009 010 011 012 013 014 014 015	2.1% 1.8% 2.3% 1.7% 2.0% 1.8% 1.8%		assumption Percentage	Impact Relativ 2.43% - - - (0.8%) (1.0%) (0.9%) (0.9%) (0.8%)	e to Valuation A 2.93% - - (0.9%) (1.1%) (1.5%) (2.0%) (1.7%) (1.7%)	Assumption 3.43% (2.1%) (1.8%) (2.3%) (2.3%) (2.6%) (2.5%) (2.6%)	assumption 2.29% 	assumption 2.29% 
AY 005 006 007 008 009 010 011 012 013 014 015 016 017	2.1% 1.8% 2.3% 1.7% 2.0% 1.8% 1.8% 2.0%	2.1% 0.9% 1.1% 0.8% 1.0% 0.9% 0.9% 1.0%	assumption Percentage	Impact Relativ 2.43% 	e to Valuation A 2.93% (0.9%) (1.1%) (1.5%) (2.0%) (1.7%) (1.7%) (2.0%)	Assumption 3.43% (2.1%) (1.8%) (2.3%) (2.6%) (2.5%) (2.6%) (2.9%)	2.29% 	assumption 2.29% - - - - - - - - - - - - -
005 006 007 008 009 010 011 012 013 014 014 015 016	2.1% 1.8% 2.3% 1.7% 2.0% 1.8% 1.8% 2.0% 2.5%	2.1% 0.9% 1.1% 0.8% 1.0% 0.9% 0.9% 1.0% 1.2%	assumption Percentage	Impact Relativ 2.43% - 	e to Valuation A 2.93% (0.9%) (1.1%) (1.5%) (2.0%) (1.7%) (1.7%) (2.0%) (2.4%)	Assumption 3.43% (2.1%) (1.8%) (2.3%) (2.5%) (2.5%) (2.5%) (2.5%) (2.9%) (3.6%)	2.29% 	assumption 2.29% 
005 006 007 008 009 010 011 011 012 013 014 015 016 017	2.1% 1.8% 2.3% 1.7% 2.0% 1.8% 1.8% 2.0% 2.5% 3.0%	2.1% 0.9% 1.1% 0.8% 0.9% 0.9% 1.0% 1.0% 1.2% 1.5%	assumption Percentage	Impact Relativ 2.43% 	e to Valuation A 2.93% (0.9%) (1.1%) (1.5%) (2.0%) (1.7%) (2.0%) (2.4%) (2.9%)	Assumption 3.43% (2.1%) (1.8%) (2.3%) (2.5%) (2.5%) (2.6%) (2.6%) (2.6%) (2.6%) (4.3%)	assumption 2.29% 	assumption 2.29% (0.6%) (0.7%) (0.6%) (0.6%) (0.7%) (0.6%) (0.7%) (0.9%) (1.1%)
05 06 07 08 09 10 11 12 13 14 15 16 17 18 19	2.1% 1.8% 2.3% 1.7% 2.0% 1.8% 1.8% 2.0% 2.5% 3.0% 3.4%	2.1% 0.9% 1.1% 0.8% 1.0% 0.9% 0.9% 1.0% 1.2% 1.5% 1.7%	assumption Percentage	Impact Relativ 2.43% 	e to Valuation A 2.93% (0.9%) (1.1%) (1.5%) (2.0%) (1.7%) (2.0%) (1.7%) (2.0%) (2.4%) (2.9%) (3.2%)	Assumption 3.43% (2.1%) (1.8%) (2.3%) (2.3%) (2.5%) (2.5%) (2.5%) (2.5%) (2.5%) (3.6%) (4.3%) (4.8%)	assumption 2.29% 	assumption 2.29% 
005 006 007 008 009 110 111 112 113 114 115 116 117 118 118 118 118 118 118 118	2.1% 1.8% 2.3% 1.7% 2.0% 1.8% 1.8% 2.0% 2.5% 3.0% 3.4% 3.5%	2.1% 0.9% 1.1% 0.8% 1.0% 0.9% 0.9% 1.0% 1.0% 1.2% 1.5% 1.7%	assumption Percentage	Impact Relativ 2.43% (0.8%) (1.0%) (0.9%) (0.9%) (1.0%) (1.0%) (1.2%) (1.5%) (1.5%) (1.5%) (1.5%) (1.7%)	e to Valuation A 2.93% (0.9%) (1.1%) (1.5%) (2.0%) (1.7%) (1.7%) (2.0%) (2.4%) (2.9%) (3.2%) (3.3%)	Assumption 3.43% (2.1%) (1.8%) (2.3%) (2.3%) (2.5%) (2.5%) (2.5%) (2.6%) (3.6%) (4.3%) (4.8%) (4.8%)	assumption 2.29% 	assumption 2.29% 



# EXHIBIT G

Page 1 of 2

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

RSP	New Brunswick						
AccountCode Desc	IBNR - Discountee	1				M	/S IBNR - in \$000s
	Values	I.			I		
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	9	-	-	(13)	(13)	(144.4%)	(4)
2008	10	-	-	-	-	-	10
2009	(443)	5	(5)	499	499	(112.6%)	56
2010	66	(1)	1	(12)	(12)	(18.2%)	54
2011	(379)	4	(5)	213	212	(55.9%)	(167)
2012	216	(3)	3	(107)	(107)	(49.5%)	109
2013	(124)	-	-	444	444	(358.1%)	320
2014	562	(6)	125	48	167	29.7%	729
2015	705	(16)	15	47	46	6.5%	751
2016	1,375	(15)	(21)	(92)	(128)	(9.3%)	1,247
2017	1,555	(19)	44	(202)	(177)	(11.4%)	1,378
2018	3,006	(34)	(169)	80	(123)	(4.1%)	2,883
2019	503	450	(221)	61	290	57.7%	793
Grand Total	7,059	365	(233)	966	1,098	15.6%	8,157



# EXHIBIT G

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

RSP New Brunswick AccountCode Desc IBNR - Undiscounted IBNR - i										
	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	8	-	-	(12)	(12)	(150.0%)	(4)			
2008	4	-	-	-	-	-	4			
2009	(483)	5	(5)	525	525	(108.7%)	42			
2010	56	(1)	1	(12)	(12)	(21.4%)	44			
2011	(455)	5	(6)	190	189	(41.5%)	(266)			
2012	177	(2)	2	(101)	(101)	(57.1%)	76			
2013	(249)	2	(2)	405	405	(162.7%)	156			
2014	470	(5)	124	29	148	31.5%	618			
2015	612	(12)	11	31	30	4.9%	642			
2016	1,239	(12)	(23)	(100)	(135)	(10.9%)	1,104			
2017	1,332	(13)	39	(236)	(210)	(15.8%)	1,122			
2018	2,804	(28)	(168)	(14)	(210)	(7.5%)	2,594			
2019	452	425	(213)	34	246	54.4%	698			
Grand Total	5,965	364	(240)	739	863	14.5%	6,828			