

NEW BRUNSWICK RISK SHARING POOL

AUGUST 2019 OPERATIONAL REPORT

ACTUARIAL HIGHLIGHTS

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ACTUARIAL HIGHLIGHTS

RSP NEW BRUNSWICK

OPERATIONAL REPORT

AUGUST 2019

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1 Summary

1.1 Valuation Schedule (Fiscal Year 2019)

The August 2019 Operational Report incorporates the results of an updated valuation (as at June 30, 2018) – the impact of the implementation of the valuation is discussed in section **Error! Reference source not found.** 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>in</u> creased 1.0 points to 76.5%; discount rate <u>de</u> creased by 49 basis points; no change to selected margins for adverse deviations						
Jun. 30, 2019 (completed)	1.41% mfad 25 bp	Aug. 2019	updated valuation: accident year 2019 loss ratio <u>de</u> creased 2.9 points to 73.6%; discount rate <u>de</u> creased by 3 basis points; selected margins for adverse deviations were updated						
Sep. 30, 2019		Oct. 2019	update valuation (roll forward)						

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

1.2 New Valuation

A valuation of the New Brunswick Risk Sharing Pool ("RSP") as at June 30, 2019 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 in October 2019.

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

abbreviations PAYs refers to prior accident years, CAY refers to the current accident year (2019), and Prem Def refers to premium deficiency / deferred acquisition costs impacts.

NB	unfav / <mark>(fav)</mark> for the month and ytd						
	IMPACT in \$000s from changes in:						
	ults &	payout pat	terns	dsct rate	margins		
	Nominal	apv adj.	sub-tot	apv adj.	apv adj.	TOTAL	
	[1]	[2]	[3]	[4]	[5]	[6]	
PAYs	(1,018)	(81)	(1,099)	3	(34)	(1,130)	
CAY	(305)	(25)	(330)	5	-	(325)	
Prem Def	(321)	(27)	(348)	1	-	(347)	
TOTAL	(1,644)	(133)	(1,777)	9	(34)	(1,802)	

Summary of Impact (\$000s) of Implementing Result of Valuation as at June 30, 2019¹

As indicated in the table above, the incorporation of the new valuation had an estimated *\$1.8 million favourable impact* on the month's net result from operations, subtracting an estimated 17.6 points (see table immediately below) to the **year-to-date Combined Operating Ratio** to end at **111.3%**.

Summary of Impact (% YTD EP) of Implementing Result of Valuation as at June 30, 2019

NB	ytd EP	10,262	(actual)			
	IM	PACT unfav	/ (fav) as %	6 ytd EP fro	m changes i	in:
	ults &	payout pat	terns	dsct rate	margins	
	Nominal	apv adj.	sub-tot	apv adj.	apv adj.	TOTAL
	[1]	[2]	[3]	[4]	[5]	[6]
PAYs	(9.9%)	(0.8%)	(10.7%)	-	(0.3%)	(11.0%)
CAY	(3.0%)	(0.2%)	(3.2%)	-	-	(3.2%)
Prem Def	(3.1%)	(0.3%)	(3.4%)	-	-	(3.4%)
TOTAL	(16.0%)	(1.3%)	(17.3%)	0.1%	(0.3%)	(17.6%)

The impact of the **nominal changes** is shown in column [1] of the two preceding summary tables. The change in the selected nominal ultimates was **favourable by \$1.6 million** overall. This reflects the impact attributable to the changes in the selected ultimate loss ratios (i.e. for each accident year, it is the product of life-to-date earned premium for the accident year and the change in the selected ultimate loss ratio).

The **PAYs** overall showed a **\$1.0 million favourable** nominal variance or 5.7% of the PAYs nominal unpaid balance of \$17.8 million determined at the end of last month beginning, driven by favourable claims development and updates to a priori loss ratios to include more recent data and updated trends. While the valuation implementation impact does differ from the valuation changes themselves (as they

¹In 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.



apply to different periods), the valuation result by government line provides insight into the relative PAYs nominal changes. As per below, the primary changes were in relation TPL and accident benefits.

Valuation as at June 30, 2019 – PAYs Nominal Changes by Government Line

_	(favourable) / unfavourable during Quarter						
Accident Year	Third Party	Accident	Other	Total			
	Liability	Benefits	Coverages	TOLAI			
2014 & Prior	(197)	(2)	(6)	(205)			
2015	(158)	-	(4)	(162)			
2016	(254)	(76)	(3)	(333)			
2017	46	(102)	(8)	(64)			
2018	(249)	(40)	(45)	(334)			
TOTAL	(812)	(220)	(66)	(1,098)			

New Brunswick RSP - valuation changes in selected ultimate

The CAY and premium deficiency impacts are a result of the change in the selected loss ratios for accident year **2019** (decreased 2.9 points to **73.6%**).and **2020** (decreased 4.5 points to **73.0%**).

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 on the previous page in columns [2], [4], and [5].

Column [2] recognizes that changing the nominal selections also changed the unpaid estimates (including changes to the relative mix by government line, which has an impact on the weighted-average MfADs). It also reflects the fact that we updated the projected emergence of claims payments, resulting in a change in the projected cash flows. These changes generated a favourable change of \$0.1 million 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 June 2019. Column [4] accounts for the change in the **discount rate** selected (<u>de</u>creased 3 basis point to **1.41%**), indicating an <u>un</u>favourable impact of \$9 thousand. The impact *related only to claims liabilities* (i.e. PAYs plus CAY) was \$8 thousand at August 2019 (projected \$8 thousand impact at December 31, 2019) – this compares to the \$20 thousand change one would estimate as the impact by interpolation using the interest rate sensitivity table provided in last month's Actuarial Highlights.

Column [5] accounts for any changes to selected MfADs. The selected **investment rate MfAD** was **left unchanged at 25 basis points** but the selected **claims development MfADs** at the coverage and accident year level were **updated** as per usual practice with the June 30 valuation, resulting in a favourable impact of \$34 thousand, as margins on older PAYs were aged.

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 / Regulation²

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.

1.5 Harmonized Sales Tax

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

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

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

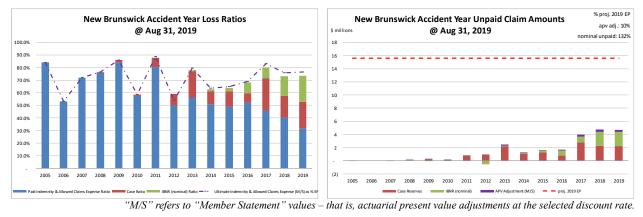
1.6 Current Provision Summary

The charts at the top of the next page show the current levels of claim liabilities³ 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.

²This 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>.

³Claim 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.





The current actuarial present value adjustments balance (\$1.5 million – see table immediately below) represents 10% of the earned premium projected for the full year 2019 (see the upper right corner of the right chart above). If our current estimates of the nominal unpaid amounts prove to match actual claims payments, the actuarial present value adjustments will be released into the net operating result over future periods.

claim liabilities (\$000s)		
	amt	%
case	14,455	65.5%
ibnr	6,073	27.5%
M/S apv adjust.	1,530	6.9%
M/S total	22,058	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 71% of the IBNR balance relates to accident years 2018 and 2019 (see Exhibit B). Approximately 76% 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 (\$00 unearned prem prem def/(dpac) M/S apv adjust. M/S total	000s)		policy liabilities (\$000	s)	
	amt	%		amt	%
unearned prem	8,738	124.3%	claim	20,528	70.6%
prem def/(dpac)	(2,105)	(29.9%)	premium	6,633	22.8%
M/S apv adjust.	397	5.6%	M/S apv adjust.	1,927	6.6%
M/S total	7,030	100.0%	M/S total	29,088	100.0%

2 Activity During the Month of August 2019

2.1 Recorded Premium and Claims Activity

The table at the top of the next page summarizes the extent to which premiums and claims amounts recorded during the month differ from projections reflected in the prior month's Operational Report⁴.

⁴There may be rounding differences in values in this document compared with the associated Bulletin and/or Operational Report.



w Branswick RSF fictual vs Frojectea Sammary. Recorded Fransaction fillounts (# thousands)																	
Table 01	le 01 Earned Premium		Paid Indemnity &		Case increase /		Recorded increase /										
	Earneu P	remum	Allowed Claims Expense		(decrease)		(decrease)										
Accident	Actual	Actual less	Actual	Actual less	Actual	Actual less	Actual	Actual less									
Year	Actual	Projected	Actual	Projected	Actual	Actual	Actual	ed Actual	Actual	Actual	Actual	Actual	Actual	Actual	Projected	Actual	Projected
Prior	-	-	537	434	256	329	792	762									
2017	(1)	(1)	15	(41)	57	102	72	61									
2018	(8)	(8)	76	5	(15)	(17)	61	(12)									
2019	1,372	(14)	365	(122)	200	(2)	565	(123)									
TOTAL	1,363	(23)	992	276	498	412	1,490	688									

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

(Recorded transaction amounts exclude IBNR & other actuarial provisions)

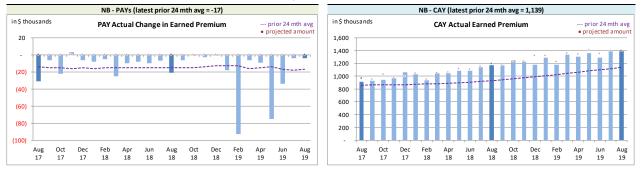
It is typically unusual to see actual earned premium transactions affecting accident years older than the first prior accident year, the changes in 2018 and prior accident years reflect activity undertaken by a member reflecting recent audit findings.

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

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

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

New Brunswick RSP Actual Earned Premium by Calendar Month



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

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

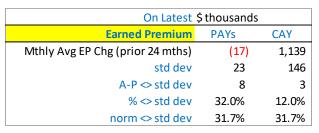
⁵Premium is earned on a daily basis based on the transaction term measured in days. As a result, months with 31 days earned relatively more than those with 30 days, and February earns the least.



mean that the actual less projection variance will equal the actual **earned premium** change in relation to prior accident years.

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

NB - PAYs (latest prior 24 mth std dev = +/-23) in\$ thousands prior 24 mth std dev PAY Actual less Projected EP Chg 40 20 (20) (40) (60) (80) (100) Dec Feb Oct Feb Aug Ар Aug Apr 19 Jun Aug 17 17 18 18 18 19 18 18 19 19 19





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) bias⁶, 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 bias⁷, with actuals being generally lower than projected, and we have modified our projections processes in response. Over time, we may consider other projection approaches to narrow monthly variance levels further, but it is not currently deemed a priority.

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

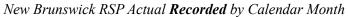
2.1.b AvsP: Recorded Indemnity & Allowed Claims Expense

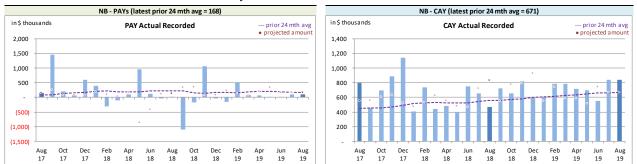
The charts at the top of the next page show actual **recorded** activity (**paid** and case reserve changes), in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

⁶The PAYs' variances will show bias as the projection upload forces all earned premium projections to be attributed to the CAY.

⁷We measure bias based on a 95% confidence range for a binominal distribution with trials based on the range being considered (25 in this case) and 50% probability of success. The rolling 25-month variances at August 2019 has only 3 months where the actual was higher than projected, and as the 95% confidence range is 8 to 17, bias continues to be indicated.

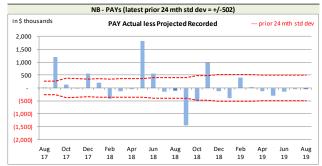


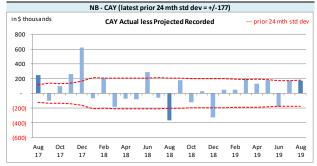




Recorded activity variances from the previous month's projections are shown in the charts immediately below, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

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





On Latest \$ thousands					
Recorded	PAYs	CAY			
Mthly Avg Recorded (prior 24 mths)	168	671			
std dev	502	177			
A-P <> std dev	8	9			
% <> std dev	32.0%	36.0%			
norm <> std dev	31.7%	31.7%			

With respect to **recorded** indemnity & allowed claims expense activity, caution must be exercised in reviewing the variances as this is a small pool and single claim transactions that are normal course for the business may look unusual and generate relatively significant variances that in nominal value terms are not that significant in

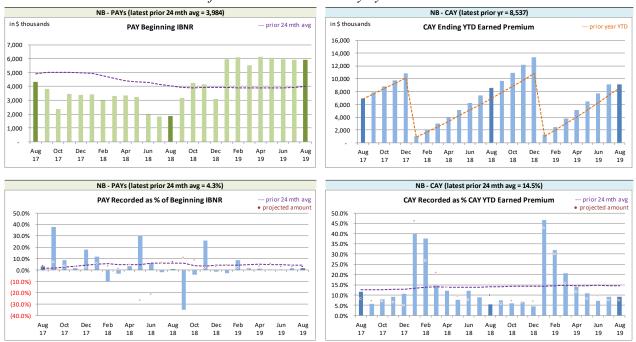
relative or overall terms. That said, 32% of the prior accident years' (PAYs) **recorded** variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **recorded** amounts (see table above), suggesting the projection process has performed no better than simply projecting the prior 24-month average amount (assuming it follows a normal distribution). Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (10 of 25 variances are positive).

The current accident year (CAY) **recorded** variances fell outside of one standard deviation 36% 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. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (15 of 25 variances are positive).

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



We have included, for reference, additional charts immediately below 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 influence⁸ **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).

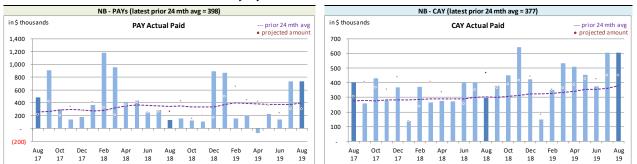
2.1.c AvsP: Paid Indemnity & Allowed Claims Expense

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.

⁸Our 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.

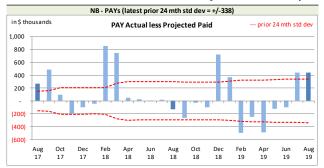




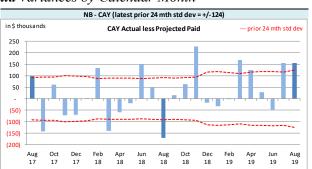


Paid activity variances from the previous month's projections are shown in the charts immediately below, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

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



On Latest	On Latest \$ thousands				
Paid	PAYs	CAY			
Mthly Avg Paid (prior 24 mths)	398	377			
std dev	338	124			
A-P <> std dev	10	11			
% <> std dev	40.0%	44.0%			
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 rolling 25-month basis (12 of 25 variances are positive).

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.

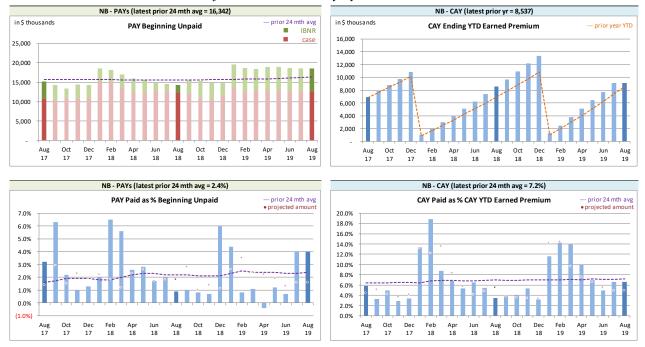
The current accident year (CAY) **paid** variances fell outside of one standard deviation 44% of the time over the last 25 calendar months (see table above), suggesting that the projection process has performed worse than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (14 of 25 variances are positive).

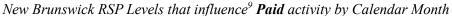
The CAY paid variance (right chart above) was outside of one standard deviation this month. The



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.





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 IBNR¹⁰, and factors were applied to the nominal unpaid claims liability (case plus IBNR) to determine

 $^{^{9}}$ 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.

¹⁰For 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.

Table 02			actuarial present value adjustments										
	IBNR		Discount Amount		Provisions for Adverse		IBNR + actua	arial present					
					Deviations		value adjustments						
Accident	Accident		Actual	Actual less	Actual	Actual less	Actual	Actual less					
Year	Actual	Projected	Actual	Projected	Actual	Actual	Actual	Actual	Actual	Actual	Projected	Actual	Projected
Prior	845	(1,461)	(225)	31	823	(155)	1,443	(1,585)					
2017	925	(115)	(161)	(3)	457	1	1,221	(117)					
2018	2,104	(259)	(206)	13	536	(34)	2,434	(280)					
2019	2,199	(192)	(211)	14	517	(26)	2,505	(204)					
TOTAL	6,073	(2,027)	(803)	55	2,333	(214)	7,603	(2,186)					

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

The IBNR provision is \$2.0 million lower than projected from last month, counterbalancing the recorded claims activity and adjusting for the earned premium variance impacts indicated in section 2.1 and due to the valuation implementation.

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

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

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

The 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 D (Deferre Acquisitio	d Policy	actuarial present value adjustments		Premium Deficiency / (DPAC) including actuarial present value adjustments	
		Actual	Actual less Projected	Actual	Actual less Projected	Actual	Actual less Projected
Γ	balance:	(2,105)	(356)	397	(17)	(1,708)	(373)
	balance as % unearned premium:	(24.1%)	(3.7%)	4.5%	(0.2%)	(19.5%)	(3.9%)
-	actual unearned premium:	8,738					

less projected: 177

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 loss¹¹ 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 expenses¹², including IBNR.

In calculating the amounts as percentages of earned premium, the calendar year-to-date earned premium has been used, which includes not only the earned premium associated with the current accident year, but also earned premium adjustments related to prior accident years. Specifically, the current accident year (CAY) ratio in the table is 75.4% rather than 73.6% (the valuation ultimate ratio for accident year 2019), as the calendar year-to-date earned premium includes prior accident year earned premium adjustments. (Note that the ratios in this table may differ slightly from those shown in the New Brunswick RSP Summary of Operations due to rounding.)

¹¹"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).

¹²Allowed 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	tal	Change from Prior Month YTD	
	Amount	% EP	Amount	% EP	Amount	% EP	Amount	LR pts
PAYs	(510)	(5.0%)	228	2.2%	(282)	(2.7%)	(1,186)	(12.9%)
CAY	7,737	75.4%	306	3.0%	8,043	78.4%	773	(3.3%)
TOTAL	7,227	70.4%	534	5.2%	7,761	75.6%	(413)	(16.2%)

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.

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	Jul. 2019	Aug. 2019	Sep. 2019	Oct. 2019	Dec. 2019		
	2005	(2)	(2)	(2)	(2)	(2)		
	2006	-	-	-	-	-		
	2007	(4)	(4)	(4)	(4)	(4)		
	2008	11	11	11	11	11		
	2009	42	(15)	(13)	(13)	(13)		
	2010	55	41	39	39	39		
	2011	139	93	90	91	89		
	2012	137	(518)	(486)	(481)	(472)		
	2013	280	281	274	272	266		
discount rate	2014	381	228	218	217	211		
1.41%	2015	707	401	384	370	346		
	2016	1,318	927	908	850	793		
interest rate margin	2017	1,352	1,221	1,196	1,166	1,089		
25 basis pts	2018	2,793	2,434	2,369	2,345	2,186		
	2019	2,297	2,505	2,732	2,957	3,327		
	TOTAL	9,506	7,603	7,716	7,818	7,866		
	Change		(1,903)	113	102			

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	Jul. 2019	Aug. 2019	Sep. 2019	Oct. 2019	Dec. 2019	
	84.0%	2005	(2)	(2)	(2)	(2)	(2)	
	53.2%	2006	-	-	-	-	-	
	72.0%	2007	(4)	(4)	(4)	(4)	(4)	
	76.3%	2008	4	4	4	4	4	
	85.8%	2009	14	(33)	(31)	(31)	(31)	
	58.5%	2010	44	32	30	30	30	
	88.0%	2011	46	33	31	31	31	
	53.7%	2012	104	(547)	(514)	(509)	(499)	
	77.9%	2013	107	105	99	98	96	
	62.8%	2014	286	142	133	132	130	
	63.9%	2015	586	288	274	263	245	
	68.0%	2016	1,151	827	810	753	701	
	80.2%	2017	1,051	925	906	879	819	
	73.3%	2018	2,436	2,104	2,041	2,021	1,882	
	73.6%	2019	2,019	2,199	2,398	2,594	2,920	
		TOTAL	7,842	6,073	6,175	6,259	6,322	
		Change		(1,769)	102	84		

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



EXHIBIT C

Premium Liabilities

TABLE EXHIBIT C					
- Premium Liabilities	Actual Jul. 2019	Actual Aug. 2019	Projected Sep. 2019	Projected Oct. 2019	Projected Dec. 2019
(1) unearned premium (UP)	8,394	8,738	8,728	8,605	8,057
FOR MEMBER SHARING					
(2) expected future costs ratio {% of (1)}	84.3%	80.5%	80.4%	80.3%	80.1%
(3) expected future costs {(1) x (2)}(4) premium deficiency / (deferred policy	7,076	7,030	7,017	6,910	6,456
acquisition cost)	(1,318)	(1,708)	(1,711)	(1,695)	(1,601)
Excluding Actuarial Present Value Adjustments					
(5) expected future costs ratio {% of (1)}	79.5%	75.9%	75.8%	75.8%	75.6%
(6) expected future costs {(1) x (5)}(7) premium deficiency / (deferred policy	6,671	6,633	6,620	6,520	6,091
acquisition cost)	(1,723)	(2,105)	(2,108)	(2,085)	(1,966)



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				actuarial present value adjustments (apvs)							
Acc Yr	Case	IBNR	Total Unpaid	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL		
2005	-	(2)	(2)	-	-	-	-	-	-	(2)		
2006	-	-	-	-	-	-	-	-	-	-		
2007	-	(4)	(4)	-	-	-	-	-	-	(4)		
2008	74	4	78	(1)	-	8	-	8	7	85		
2009	239	(31)	208	(4)	1	21	-	21	18	226		
2010	89	30	119	(3)	-	12	-	12	9	128		
2011	710	31	741	(17)	3	74	(2)	72	58	799		
2012	851	(499)	352	(8)	1	35	(1)	34	27	379		
2013	2,087	96	2,183	(52)	9	218	(5)	213	170	2,353		
2014	974	130	1,104	(30)	4	110	(3)	107	81	1,185		
2015	1,135	245	1,380	(40)	7	138	(4)	134	101	1,481		
2016	722	701	1,423	(54)	9	142	(5)	137	92	1,515		
2017	2,528	819	3,347	(147)	23	412	(18)	394	270	3,617		
2018	2,161	1,882	4,043	(190)	32	485	(23)	462	304	4,347		
PAYs (sub-total):	11,570	3,402	14,972	(546)	89	1,655	(61)	1,594	1,137	16,109		
CAY (2019)	2,920	2,920	5,840	(280)	47	672	(32)	640	407	6,247		
claims liabilities:	14,490	6,322	20,812	(826)	136	2,327	(93)	2,234	1,544	22,356		
	Unearned Premium	Premium Deficiency / (DPAC)	Total Provision	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL*		
premium liabilities:	8,057	(1,966)	6,091	(188)	29	541	(17)	524	365	6,456		
						*	Total may not be s	um of parts, as ap	ovs apply to future	costs within UPR		
policy liabilities:			26,903	(1,014)	165	2,868	(110)	2,758	1,909	28,812		



EXHIBIT E

Discount Rate & Margins for Adverse Deviations

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

	Selected Claims Development MfADs (Jun. 30, 2019)									
Accident	Third Party	Accident	Other	Total						
Year	Liability	Benefits	Coverages							
	Margins	Margins	Margins	Margins						
2005	10.0%	10.0%	10.0%	10.0%						
2006	10.0%	10.0%	10.0%	10.0%						
2007	10.0%	10.0%	10.0%	10.0%						
2008	10.0%	10.0%	10.0%	10.0%						
2009	10.0%	10.0%	10.0%	10.0%						
2010	10.0%	10.0%	10.0%	10.0%						
2011	10.0%	10.0%	10.0%	10.0%						
2012	10.0%	10.0%	10.0%	10.0%						
2013	10.0%	10.0%	10.0%	10.0%						
2014	10.0%	10.0%	10.0%	10.0%						
2015	10.0%	10.0%	10.0%	10.0%						
2016	10.0%	10.0%	8.7%	10.0%						
2017	12.5%	10.0%	9.5%	12.3%						
2018	12.5%	10.0%	8.3%	12.0%						
2019	12.3%	10.0%	5.7%	11.5%						
2020	11.8%	10.0%	5.1%	9.2%						
prem liab	11.8%	10.0%	5.1%	9.2%						

Selected Claims Development MfADs (Jun. 30.

discount rate: 1.41%

margin (basis points): 25



EXHIBIT F

Interest Rate Sensitivity

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

\$ Format: \$000s

Y	0.41%	ial Present Va 0.91%	1.41%	3	2.41%	2.91%	1.44%	2.29%
)5	0.41%	0.91%	1.41%	1.91%	2.41%	2.91%	1.44%	2.29%
	-	-	-	-	-	-	-	-
				<u> </u>				<u></u>
	-	-	-	-	-	-	-	-
	72	72	71	71	70	70	71	7
	244	242	241	239	237	235	240	23
	106	105	104	103	103	102	<u>104</u>	10
	1,448	1,436	1,425	1,413	1,402	1,391	1,424	1,40
	303	301	299	296	294	292	298	29
	2,127	2,108	2,091	2,073	2,056	2,039	2,090	2,06
	1,077	1,066	1,056	1,046	1,036	1,026	1,055	1,03
	1,433	1,418	1,403	1,389	1,375	1,361	1,402	1,37
	1,554	1,532	1,511	1,491	1,471	1,451	1,510	1,47
	3,833	3,771	3,712	3,654	3,598	3,544	3,709	3,61
	4,618	4,540	4,464	4,391	4,320	4,251	4,460	4,33
	6,776	6,657	6,542	6,431	6,322	6,219	6,536	6,34
_	23,591	23,248	22,919	22,597	22,284	21,981	22,899	22,36
	curr - 100 bp	curr - 50 bp	curr val assumption	curr + 50bp	curr + 100bp	curr + 150bp	prior val	prior fyr er
	0.41%	0.91%	Dollar Imp 1.41%	oact Relative t 1.91%	o Valuation As 2.41%	sumption 2.91%	1.44%	2.29
	0.41/0	0.51/0	1.41/0		2.41/0	2.51/0		
	672	329	_	(322)	(635)	(938)	(20)	2
-	672 curr - 100 bp	329 curr - 50 bp	- curr val assumption	(322) curr + 50bp	<mark>(635)</mark> curr + 100bp	(938) curr + 150bp	(20) prior val assumption	<mark>(55)</mark> prior fyr en
_			assumption	curr + 50bp	()	curr + 150bp	prior val	<mark>(55)</mark> prior fyr er
_			assumption	curr + 50bp	curr + 100bp	curr + 150bp	prior val	<mark>(55)</mark> prior fyr er
_	curr - 100 bp	curr - 50 bp	assumption Percentage I	curr + 50bp mpact Relativ	curr + 100bp e to Valuation	curr + 150bp Assumption	prior val assumption	(55 prior fyr er assumptio
	curr - 100 bp	curr - 50 bp	assumption Percentage I	curr + 50bp mpact Relativ	curr + 100bp e to Valuation	curr + 150bp Assumption	prior val assumption	(55 prior fyr ei assumptic
	curr - 100 bp	curr - 50 bp	assumption Percentage I	curr + 50bp mpact Relativ	curr + 100bp e to Valuation	curr + 150bp Assumption	prior val assumption	(55 prior fyr ei assumptic
	curr - 100 bp	curr - 50 bp	assumption Percentage I	curr + 50bp mpact Relativ	curr + 100bp e to Valuation	curr + 150bp Assumption	prior val assumption	(55 prior fyr ei assumptio 2.29 - - - -
	curr - 100 bp	curr - 50 bp 0.91% - - -	assumption Percentage I	curr + 50bp mpact Relativ	curr + 100bp e to Valuation 2.41% - - -	curr + 150bp Assumption 2.91% - - -	prior val assumption	(55 prior fyr er assumptic 2.29 - - - - (1.4
	curr - 100 bp	curr - 50 bp 0.91% - - - 1.4%	assumption Percentage I	curr + 50bp mpact Relativ 1.91% - - - -	curr + 100bp e to Valuation 2.41% - - - - (1.4%)	curr + 150bp Assumption 2.91% - - (1.4%)	prior val assumption 1.44% - - - -	(55 prior fyr er assumptic 2.29 - - - (1.4 (1.2
 	curr - 100 bp	Curr - 50 bp	assumption Percentage I	curr + 50bp	e to Valuation 2.41% - - - (1.4%) (1.7%)	curr + 150bp Assumption 2.91% - - (1.4%) (2.5%)	prior val assumption 1.44% - - - -	(55 prior fyr er assumptio - - - (1.44 (1.25 (1.05)
	curr - 100 bp	Curr - 50 bp 0.91% - - - 1.4% 0.4% 1.0%	assumption Percentage I	curr + 50bp mpact Relativ 1.91% - - - - (0.8%) (1.0%)	e to Valuation 2.41% - - (1.4%) (1.7%) (1.0%)	curr + 150bp Assumption 2.91% - - (1.4%) (2.5%) (1.9%)	prior val assumption 1.44% - - - - (0.4%)	(55 prior fyr er assumptio - - - - - - - - - - - - - - - - - - -
	curr - 100 bp	Curr - 50 bp 0.91% - - - 1.4% 0.4% 1.0% 0.8%	assumption Percentage I	curr + 50bp	e to Valuation 2.41% - - (1.4%) (1.7%) (1.0%) (1.6%)	curr + 150bp Assumption 2.91% - - (1.4%) (2.5%) (1.9%) (2.4%)	prior val assumption 1.44% - - - - (0.4%) - - (0.1%)	(55 prior fyr er assumptio - - - - - - - - - - - - - - - - - - -
	curr - 100 bp	Curr - 50 bp 0.91% - - 1.4% 0.4% 1.0% 0.8% 0.7%	assumption Percentage I	curr + 50bp	e to Valuation 2.41% - (1.4%) (1.7%) (1.0%) (1.6%) (1.7%)	curr + 150bp Assumption 2.91% - - (1.4%) (2.5%) (1.9%) (2.4%) (2.3%)	prior val assumption 1.44% - - - - (0.4%) - - (0.1%) (0.3%)	(55 prior fyr er assumptio - - - - - - - - - - - - - - - - - - -
	curr - 100 bp	curr - 50 bp 0.91% - - 1.4% 0.4% 0.4% 0.8% 0.8% 0.7% 0.8%	assumption Percentage I	curr + 50bp	e to Valuation 2.41% - (1.4%) (1.7%) (1.6%) (1.7%) (1.7%)	curr + 150bp <u>Assumption</u> <u>2.91%</u> <u>-</u> (1.4%) (2.5%) (2.4%) (2.3%) (2.5%)	prior val assumption 1.44% - - - - (0.4%) (0.3%) (0.0%)	(55 prior fyr er assumptio - - - (1.4 (1.2 (1.0 (1.4 (1.7 (1.5) (1.7)
	curr - 100 bp	curr - 50 bp 0.91% - - 1.4% 0.4% 1.0% 0.8% 0.7% 0.8% 0.9% 1.1%	assumption Percentage I	curr + 50bp	e to Valuation 2.41% - (1.4%) (1.7%) (1.7%) (1.6%) (1.7%) (1.7%) (1.9%) (2.0%)	curr + 150bp <u>Assumption</u> 2.91% - (1.4%) (2.5%) (1.9%) (2.4%) (2.3%) (2.5%) (2.5%) (2.5%) (2.5%) (2.8%)	prior val assumption 1.44% - - - - (0.4%) (0.3%) (0.0%) (0.1%)	(55 prior fyr er assumptio - - - (1.4 (1.2 (1.0 (1.4 (1.7 (1.5 (1.7 (1.8)
	curr - 100 bp	curr - 50 bp 0.91% - - 1.4% 0.4% 0.4% 0.8% 0.7% 0.8% 0.9%	assumption Percentage I	curr + 50bp	e to Valuation 2.41% - (1.4%) (1.7%) (1.6%) (1.7%) (1.7%) (1.7%) (1.9%)		prior val assumption 1.44% - - - - (0.4%) - - - (0.1%) (0.3%) (0.0%) (0.1%)	(55 prior fyr er assumptic - - - - - - - - - - - - - - - - - - -
	curr - 100 bp	curr - 50 bp 0.91% - - 1.4% 0.4% 1.0% 0.8% 0.7% 0.8% 0.9% 1.1% 1.4%	assumption Percentage I	curr + 50bp	e to Valuation 2.41% - (1.4%) (1.7%) (1.0%) (1.6%) (1.7%) (1.7%) (1.7%) (1.7%) (1.9%) (2.0%) (2.6%) (3.1%)		prior val assumption 1.44% - - - - - - - - - - - - - - - - - -	(55 prior fyr er assumptic - - - (1.4 (1.2 (1.2 (1.4 (1.2 (1.4 (1.2) (1.4 (1.2) (1.4 (1.2) (1.4 (1.2) (1.4 (1.2) (1.4) (1.4) (1.2) (1.4) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (1.7) (1.7) (1.7) (1.8) (
	curr - 100 bp	curr - 50 bp 0.91% - - 1.4% 0.4% 1.0% 0.8% 0.7% 0.8% 0.7% 0.8% 0.9% 1.1% 1.4% 1.6%	assumption Percentage I	curr + 50bp	e to Valuation 2.41% - (1.4%) (1.7%) (1.7%) (1.6%) (1.7%) (1.7%) (1.7%) (1.9%) (2.0%) (2.6%)		prior val assumption 1.44% - - - - - - - - - - - - - - - - - -	(55 prior fyr er assumptic - - - (1.4 (1.2 (1.2 (1.4 (1.2 (1.4 (1.2) (1.4 (1.2) (1.4 (1.2) (1.4 (1.2) (1.4 (1.2) (1.4) (1.4) (1.2) (1.4) (1.4) (1.2) (1.2) (1.4) (1.2) (1.4) (1.2) (1.4) (1.2) (
	curr - 100 bp	curr - 50 bp 0.91% - - 1.4% 0.4% 1.0% 0.8% 0.7% 0.8% 0.7% 0.8% 0.9% 1.1% 1.6% 1.6% 1.7%	assumption Percentage I	curr + 50bp	e to Valuation 2.41% - - (1.4%) (1.7%) (1.7%) (1.6%) (1.7%) (1.7%) (1.7%) (1.7%) (1.9%) (2.0%) (2.6%) (3.1%) (3.2%)		prior val assumption 1.44% - - - - - - - - - - - - - - - - - -	(55 prior fyr er assumptio 2.299 - - (1.44 (1.22 (1.00 (1.44 (1.77 (1.85 (1.77 (1.85 (2.37 (2.87 (2.87 (3.00)))))))))))))))))))))))))))))))))))
	curr - 100 bp	curr - 50 bp 0.91% - 1.4% 0.4% 0.4% 0.4% 0.8% 0.7% 0.8% 0.7% 0.8% 0.9% 1.1% 1.6% 1.6% 1.7% 1.8%	assumption Percentage I	curr + 50bp	e to Valuation 2.41% - - (1.4%) (1.7%) (1.7%) (1.6%) (1.7%) (1.6%) (1.7%) (1.7%) (1.9%) (2.0%) (2.6%) (3.1%) (3.2%) (3.4%) (2.8%)		prior val assumption 1.44% - - - - - - - - - - - - - - - - - -	(55 prior fyr er assumptio - - - (1.4 (1.2 (1.0 (1.4 (1.7 (1.5) (1.7)



EXHIBIT G

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

RSP New Brunswick AccountCode Desc IBNR - Discounted M/S IBNR - in \$000											
	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	(1)	(41)	(15)	(57)	(135.7%)	(15)				
2010	55	(1)	1	(14)	(14)	(25.5%)	41				
2011	139	(2)	(33)	(11)	(46)	(33.1%)	93				
2012	137	(3)	(588)	(64)	(655)	(478.1%)	(518)				
2013	280	(3)	(21)	25	1	0.4%	281				
2014	381	(6)	(4)	(143)	(153)	(40.2%)	228				
2015	707	(6)	(129)	(171)	(306)	(43.3%)	401				
2016	1,318	(14)	18	(395)	(391)	(29.7%)	927				
2017	1,352	(14)	(59)	(58)	(131)	(9.7%)	1,221				
2018	2,793	(79)	4	(284)	(359)	(12.9%)	2,434				
2019	2,297	412	121	(325)	208	9.1%	2,505				
Grand Total	9,506	283	(731)	(1,455)	(1,903)	(20.0%)	7,603				



EXHIBIT G

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

RSP New Brunswick AccountCode Desc IBNR - Undiscounted IBNR - in \$0										
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	-	(33)	(14)	(47)	(335.7%)	(33)			
2010	44	(1)	1	(12)	(12)	(27.3%)	32			
2011	46	(1)	(2)	(10)	(13)	(28.3%)	33			
2012	104	(2)	(589)	(60)	(651)	(626.0%)	(547)			
2013	107	(2)	(21)	21	(2)	(1.9%)	105			
2014	286	(6)	(4)	(134)	(144)	(50.3%)	142			
2015	586	(6)	(129)	(163)	(298)	(50.9%)	288			
2016	1,151	(12)	16	(328)	(324)	(28.1%)	827			
2017	1,051	(11)	(61)	(54)	(126)	(12.0%)	925			
2018	2,436	(73)	5	(264)	(332)	(13.6%)	2,104			
2019	2,019	372	113	(305)	180	8.9%	2,199			
Grand Total	7,842	258	(704)	(1,323)	(1,769)	(22.6%)	6,073			