

NEW BRUNSWICK RISK SHARING POOL

NOVEMBER 2020 OPERATIONAL REPORT

ACTUARIAL HIGHLIGHTS

Related Bulletin: F2020-096 New Brunswick RSP November 2020 Operational Report

For your convenience, bookmarks have been added to this document. To view them, please click on the BOOKMARK tab at the left.

Should you require any further information, please call Aidan Chen, AVP Data & Analytics at (416) 863-1750 x 4804.



ACTUARIAL HIGHLIGHTS

RSP New Brunswick

OPERATIONAL REPORT NOVEMBER 2020

TABLE OF CONTENTS

1	Sum	marv.		2	
			tion Schedule (Fiscal Year 2021)		
	1.2	Appo	inted Actuary and Hybrid Actuarial Services Model	2	
	1.3		deration of Recent Legal Decisions and Changes in Legislation / Regulation		
	1.4		nt Provision Summary		
2	Acti	vity Di	ring the Month of November 2020	4	
-	2.1		ded Premium and Claims Activity		
		2.1.a	Actual vs. Projected (AvsP): Earned Premium		
		2.1.b	AvsP: Recorded Indemnity & Allowed Claims Expense		
		2.1.c	AvsP: Paid Indemnity & Allowed Claims Expense	8	
	2.2	Actua	rial Provisions	10	
3	Ulti	mate L	oss Ratio Matching Method	12	
4	Cale	endar Y	Year-to-Date Results	12	
5	Current Operational Report – Additional Exhibits				
6	EXHIBITS				



1 Summary

Key Points

(a) The loss ratios currently being used include a review and assessment of the incurred impacts associated with the COVID-19 pandemic.

1.1 Valuation Schedule (Fiscal Year 2021)

The November 2020 Operational Report leverages actuarial assumptions consistent with last month (that is, it does not reflect the results of an updated valuation). The following table summarizes the valuation implementations scheduled for fiscal year 2021.

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

Under the proposed schedule for fiscal year 2021, the off-half valuation quarters ending March 31, 2021 and September 30, 2021 would not reflect a full valuation update of assumptions, but would rather roll-forward key assumptions from the previous valuation.

1.2 Appointed Actuary and Hybrid Actuarial Services Model

Mr. Cosimo Pantaleo of Ernst & Young LLP (EY) was appointed as Actuary by the FA Board at its February 18, 2020 meeting.

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



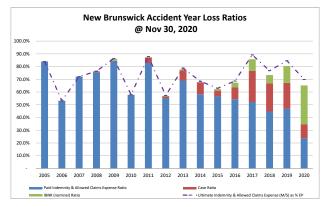
1.3 Consideration of Recent Legal Decisions and Changes in Legislation / Regulation¹

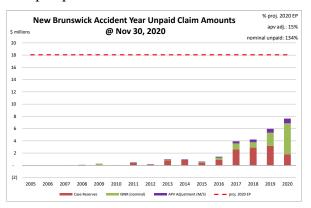
There have been no changes in these descriptions since last month's Highlights.

Consideration and assessment of potential impacts of legal decisions and changes in legislation / regulation constitutes a regular part of the valuation process. At the current time, there are no specific recent (i.e. within the last five years) decisions or changes for inclusion here.

1.4 Current Provision Summary

The following charts show the current levels of claim liabilities² 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 2020 full year earned premium (the red hash-mark line) to provide some perspective.





"M/S" refers to "Member Statement" values – that is, actuarial present value adjustments at the selected discount rate.

The current actuarial present value adjustments balance (\$2.7 million – see the following table) represents 15% of the earned premium projected for the full year 2020 (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.

			/ daaa \
claim	liahi	lities	(\$000s)

		amt	%
	case	14,368	53.4%
	ibnr	9,826	36.5%
	M/S apv adjust.	2,701	10.0%
M	I/S total	26,895	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 73% of the IBNR balance relates to accident years 2019 and 2020 (see Exhibit B). Approximately 86% of the M/S total claim

liabilities are related to accident years 2016-2020 inclusive (i.e. the most recent 5 accident years), and approximately 1% is related to accident years 2010 and prior (i.e. prior to the most recent 10 accident

¹This url to a pdf is to a helpful guide on how bills become laws: https://www.ola.org/sites/default/files/common/how-bills-become-law-en.pdf.

²Claim 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.



years).

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

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

orennam nabinares (4000s)						
	amt	%				
unearned prem	10,941	118.3%				
prem def/(dpac)	(2,469)	(26.7%)				
M/S apv adjust.	773	8.4%				
M/S total	9,245	100.0%				

policy liabilities (\$000s)

	amt	%
claim	24,194	66.9%
premium	8,472	23.4%
M/S apv adjust.	3,474	9.6%
M/S total	36,140	100.0%

2 Activity During the Month of November 2020

2.1 Recorded Premium and Claims Activity

The following table summarizes the extent to which premiums and claims amounts recorded during the month differ from projections reflected in the prior month's Operational Report³.

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

Table 01	Earned P	romium	Paid Ind	emnity &	Case inc	rease /	Recorded	increase /
	Earneu P	remun	Allowed Cla	ims Expense	(decr	ease)	(decr	ease)
Accident	Actual	Actual less	Actual	Actual less	Actual	Actual less	Actual	Actual less
Year	Actual	Projected	Actual	Projected	Actual	Projected	Actual	Projected
Prior	(2)	(2)	89	6	(454)	(402)	(365)	(396)
2018	(8)	(8)	23	(15)	(234)	(216)	(211)	(231)
2019	(9)	(9)	31	(184)	103	250	134	66
2020	1,670	17	525	1	26	(383)	552	(382)
TOTAL	1,651	(3)	668	(191)	(559)	(751)	110	(943)

(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.

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

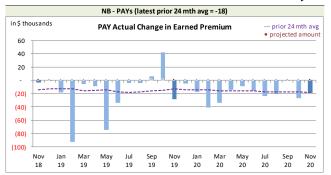
The following charts show actual **earned premium**⁴ activity in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

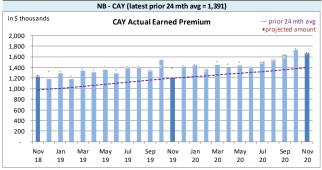
³There may be rounding differences in values in this document compared with the associated Bulletin and/or Operational Report.

⁴Premium 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.



New Brunswick RSP Actual Earned Premium by Calendar Month





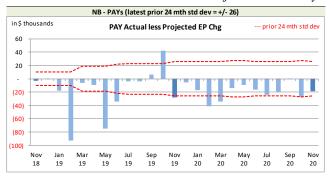
Earned premium changes during a given calendar month in relation to prior accident years tend to be at modest levels, although relatively high levels generally occur at the beginning of each year.

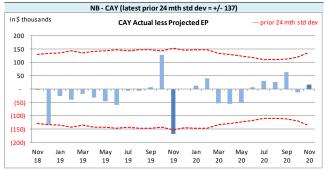
On Latest		
Earned Premium	PAYs	CAY
Mthly Avg EP Chg (prior 24 mths)	(18)	1,391
std dev	26	137
A-P <> std dev	8	1
% <> std dev	32.0%	4.0%
norm <> std dev	31.7%	31.7%
performance vs 24-mth avg:	no better	better

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

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

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





We project **earned premium** changes from known unearned premium balances and projected written premium levels, but upload the total projections as current accident year (CAY). This process has generated prior accident years' (PAYs) bias⁵, with actuals generally lower than our projections, although the magnitude is not high relative to monthly premium. However, for the CAY, bias⁶ has not been indicated. Over time, we may consider other projection approaches to address the bias issue, but it is not currently deemed as priority.

Readers will note the widening of the CAY standard deviation band, reflecting the recent and sustained

⁵The PAYs' variances will show bias as the projection upload forces all earned premium projections to be attributed to the CAY.

⁶For the binomial distribution with 25 trials and an assumed 50% success probability, the 95% confidence range is 8 to 17 successes. That is, favourable or unfavourable counts of 0 to 7 or 18 to 25 out of 25 outcomes would suggest bias.

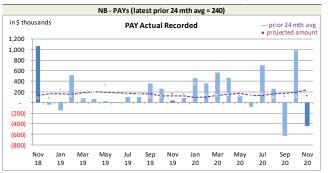


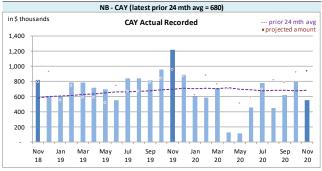
volume increases and the impact as those increases are earned.

2.1.b AvsP: Recorded Indemnity & Allowed Claims Expense

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

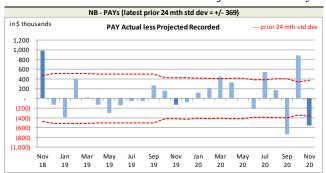
New Brunswick RSP Actual Recorded by Calendar Month

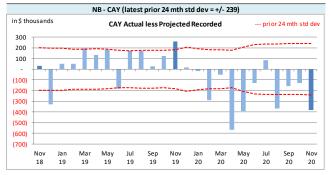




Recorded activity variances from the previous month's projections are shown in the following charts, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

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





On Latest \$ thousands						
Recorded	PAYs	CAY				
Mthly Avg Recorded (prior 24 mths)	240	680				
std dev	369	239				
A-P <> std dev	6	9				
% <> std dev	24.0%	36.0%				
norm <> std dev	31.7%	31.7%				
performance vs 24-mth avg:	better	no better				

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, 24% of the prior accident

years' (PAYs) **recorded** variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **recorded** amounts (see preceding table to the left), suggesting the projection process has performed better than simply projecting the prior 24-month average amount (assuming it follows a normal distribution). Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (13 of 25 variances are positive).





The PAY **recorded** variance was outside the one standard deviation band this month (see preceding chart on the right) the lower projected recorded activity was reviewed, and attributed to process variance.

The current accident year (CAY) **recorded** variances fell outside of one standard deviation 36% of the time over the last 25 calendar months (see preceding table on the left), suggesting the projection process has performed no better than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (13 of 25 variances are positive). Through 2020, our CAY recorded projections have been consistently higher than actual activity; 2020 has been a challenging year to project loss estimates, particularly with changes in RSP volumes and portfolio mix driven by Member transfer activity. We are working with our Appointed Actuary to adjust and refine our 2020 and 2021 accident year estimates to reflect the impact of COVID-19 and Member transfer activity.

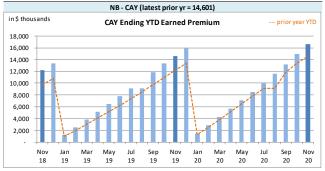
The CAY **recorded** variance was outside the one standard deviation band this month (see preceding chart on the right) the lower projected recorded activity was reviewed, and attributed to process variance.

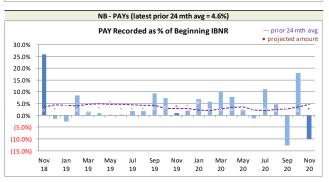
The method for establishing IBNR adjusts automatically for changes in **earned premium** and **recorded** claims activity level (see sections 2.2 and 3).

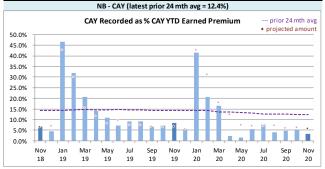
We have included, for reference, the following charts related to levels influencing **recorded** activity. Note in particular the increase in the level of PAY beginning IBNR over the months. Part of this will be as a response to valuations and showing up as a beginning IBNR change one month after the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



New Brunswick RSP Levels that influence Recorded activity by Calendar Month







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

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

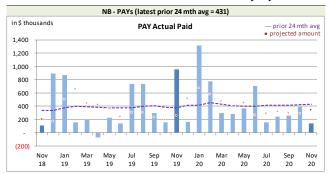
2.1.c AvsP: Paid Indemnity & Allowed Claims Expense

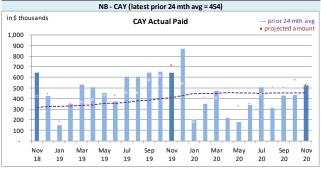
The following charts show actual **paid** activity in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

⁷Our recorded activity projections for the prior accident years are based on selected ratios of recorded activity to beginning unpaid balances, whereas the current accident year projections are based on selected ratios of year-to-date IBNR to year-to-date selected ultimate (i.e. selected LR x earned premium), deriving year-to-date recorded as selected ultimate less IBNR. In both cases, the ratio selection is based on our review of the more recent recorded activity and recent AvsP analyses.



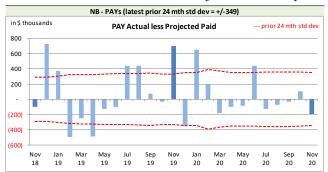
New Brunswick RSP Actual Paid activity by Calendar Month

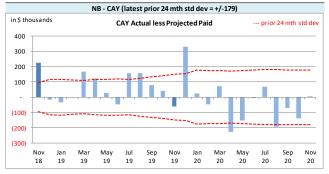




Paid activity variances from the previous month's projections are shown in the following charts, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

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





On Latest \$ thousands					
Paid	PAYs	CAY			
Mthly Avg Paid (prior 24 mths)	431	454			
std dev	349	179			
A-P <> std dev	10	8			
% <> std dev	40.0%	32.0%			
norm <> std dev	31.7%	31.7%			
performance vs 24-mth avg:	worse	no better			

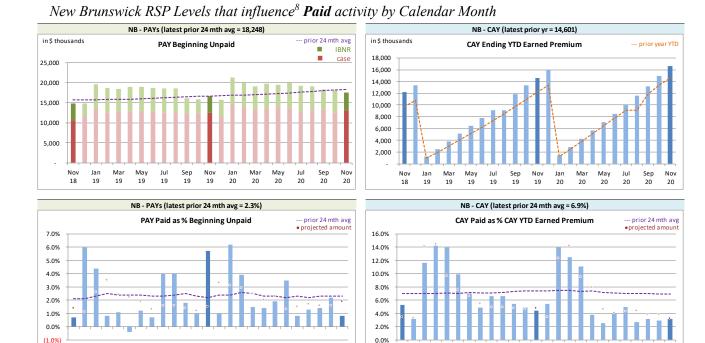
With respect to **paid** indemnity & allowed claims expense, caution must be exercised in reviewing the variances as this is a small pool, and single claim transactions that are normal course for the business may look unusual and generate relatively significant variances that in nominal value terms are not that significant in relative or overall terms. That said, 40% of the prior accident years' (PAYs)

paid amounts (see preceding table on the left), 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 (10 of 25 variances are positive).

The current accident year (CAY) **paid** variances fell outside of one standard deviation 32% of the time over the last 25 calendar months (see preceding table on the left), suggesting that the projection process has performed no better than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (13 of 25 variances are positive).

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





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

- to offset actual **paid** activity (may reduce case or IBNR or both);
- the annual switchover as a CAY becomes a PAY (occurs in January); and
- when a new valuation is implemented, where the valuation resulted in changes to the selection of PAYs' ultimates (will show up as a beginning unpaid balance change one month after the valuation is implemented, i.e. the change will generally show in April, June, September, and November).

2.2 Actuarial Provisions

An ultimate loss ratio matching method (described in section 3) was used to determine the month's IBNR⁹, and factors were applied to the nominal unpaid claims liability (case plus IBNR) to determine the discount amount (shown as a negative value to indicate its impact of reducing the liability) and the Provisions for Adverse Deviations. The loss ratios and the factors used to determine the current month's provisions and projections were based on the applicable valuation.

The following table summarizes variances in provisions included in this month's Operational Report

⁸Our 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.

⁹For ease of discussion, "IBNR" is used in place of "provisions for incurred but not recorded (IBNR) and development".



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

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

Table 02			actuarial present value adjustments					
	IDNID		Discount	Amount	Provisions for Adverse		IBNR + actuarial present	
	IBNR		Discount Amount		Deviations		value adjustments	
Accident	Actual	Actual less	Actual	Actual less	Actual	Actual less	Actual	Actual less
Year	Actual	Projected	Actual	Projected	Actual	Projected	Actual	Projected
Prior	1,798	395	(41)	-	863	-	2,620	395
2018	865	226	(26)	-	483	1	1,322	227
2019	2,120	(74)	(43)	(2)	688	24	2,765	(52)
2020	5,043	393	(55)	-	832	1	5,820	394
TOTAL	9,826	940	(165)	(2)	2,866	26	12,527	964

The IBNR provision is \$0.9 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.

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

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

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

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





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

Table 03	Premium D (Deferre Acquisitio	ed Policy	actuarial pr adjust	esent value ments	Premium Deficiency / (DPAC) including actuarial present value adjustments	
	Actual	Actual less	Actual	Actual less	Actual	Actual less
		Projected		Projected		Projected
balance:	(2,469)	(45)	773	14	(1,696)	(31)
balance as % unearned premium:	(22.6%)	-	7.1%	-	(15.5%)	-

actual unearned premium: 10,941 less projected: 194

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 loss¹⁰ ratio per latest valuation
- (c) Estimated ultimate incurred = (a) x (b)
- (d) Recorded indemnity & allowed claims expense to-date
- (e) IBNR = (c) (d)

4 Calendar Year-to-Date Results

The following table summarizes the calendar year-to-date results for indemnity & allowed claims expenses¹¹, 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 66.1% rather than 65.2% (the valuation ultimate ratio for accident year 2020), 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.)

¹⁰"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).

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



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

Table 04	YTD Nomina	al Values	YTD actuarial present valuation		YTD To	otal	Change from Prior Month YTD	
	Amount	% EP	Amount	% EP	Amount	% EP	Amount	LR pts
PAYs	1,016	6.2%	363	2.2%	1,379	8.4%	(30)	(1.2%)
CAY	10,825	66.1%	777	4.7%	11,602	70.8%	1,155	(0.1%)
TOTAL	11,841	72.3%	1,140	7.0%	12,981	79.3%	1,125	(1.2%)

("% EP" based on 2020 calendar year-to-date earned premium; ratios may not total due to rounding)

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

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

5 Current Operational Report – Additional Exhibits

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

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

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

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



6 EXHIBITS

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

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

EXHIBIT B IBNR

EXHIBIT C Premium Liabilities

EXHIBIT D Projected Year-end Policy Liabilities

EXHIBIT E Discount Rate & Margins for Adverse Deviations

EXHIBIT F Interest Rate Sensitivity

EXHIBIT G Components of IBNR Change During Month



$\label{eq:exhibit} \mbox{EXHIBIT A}$ $\mbox{IBNR for Member Sharing-includes Actuarial Present Value Adjustments}$

TABLE EXHIBIT A			Amount	ts in \$000s		
IBNR + M/S actuarial present value adjustments	Accident Year	Actual Oct. 2020	Actual Nov. 2020	Projected Dec. 2020	Projected Jan. 2021	Projected Dec. 2021
	2005	(2)	(2)	(2)	(2)	(2)
	2006	-	-	-	-	-
	2007	6	6	6	6	6
	2008	12	12	12	12	10
	2009	244	244	242	234	188
	2010	11	11	11	11	11
	2011	67	57	56	55	46
	2012	51	51	50	49	42
	2013	157	157	155	150	122
	2014	167	86	85	83	68
discount rate	2015	189	188	186	181	147
0.22%	2016	561	485	466	452	365
	2017	802	1,325	1,272	1,232	945
interest rate margin	2018	1,119	1,322	1,268	1,246	960
25 basis pts	2019	2,911	2,765	2,648	2,482	1,824
	2020	5,217	5,820	5,959	5,547	4,356
	2021	-	-	-	659	4,198
	TOTAL	11,512	12,527	12,414	12,397	13,286
	Change		1,015	(113)	(17)	

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



EXHIBIT B

IBNR

TABLE EXHIBIT B	Ī			Amount	s in \$000s		
IBNR	Ultimate Loss Ratio	Accident Year	Actual Oct. 2020	Actual Nov. 2020	Projected Dec. 2020	Projected Jan. 2021	Projected Dec. 2021
	84.0%	2005	(2)	(2)	(2)	(2)	(2)
	53.2%	2006	-	-	-	-	-
	72.1%	2007	5	5	5	5	5
	76.3%	2008	4	4	4	4	4
	86.1%	2009	219	219	217	210	168
	57.9%	2010	10	10	10	10	10
	87.4%	2011	21	11	11	11	10
	57.1%	2012	33	33	33	32	28
	77.9%	2013	66	66	65	63	49
	67.6%	2014	72	(3)	(3)	(3)	(3)
	62.4%	2015	130	129	128	124	100
	67.4%	2016	433	357	343	332	266
	85.9%	2017	443	969	930	894	667
	73.3%	2018	659	865	830	813	605
	80.5%	2019	2,262	2,120	2,029	1,887	1,334
	65.2%	2020	4,505	5,043	5,124	4,765	3,794
	76.6%	2021	-	-	-	542	3,202
		TOTAL	8,860	9,826	9,724	9,687	10,237
		Change		966	(102)	(37)	

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



EXHIBIT C

Premium Liabilities

TABLE EXHIBIT C		Amount	s in \$000s		
Premium Liabilities	Actual Oct. 2020	Actual Nov. 2020	Projected Dec. 2020	Projected Jan. 2021	Projected Dec. 2021
(1) unearned premium (UP)	11,457	10,941	10,064	9,851	11,524
FOR MEMBER SHARING					
(2) expected future costs ratio {% of (1)}	82.9%	84.5%	86.4%	86.4%	87.5%
(3) expected future costs {(1) x (2)}(4) premium deficiency / (deferred policy	9,498	9,245	8,697	8,515	10,085
acquisition cost)	(1,959)	(1,696)	(1,367)	(1,336)	(1,439)
Excluding Actuarial Present Value Adjustments					
(5) expected future costs ratio {% of (1)}	76.0%	77.4%	79.2%	79.2%	80.2%
(6) expected future costs {(1) x (5)}	8,705	8,472	7,969	7,802	9,240
(7) premium deficiency / (deferred policy					
acquisition cost)	(2,752)	(2,469)	(2,095)	(2,049)	(2,284)



EXHIBIT D

Projected Year-end Policy Liabilities

The table below presents the projected policy liabilities as at December 31, 2020, broken down by component.

New Brunswick	Projected Balances as at Dec. 31, 2020 (\$000s)									
ending 2020		nominal value:	S		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	-	5	5	-	-	1	-	1	1	6
2008	77	4	81	-	-	8	-	8	8	89
2009	28	217	245	-	-	25	-	25	25	270
2010	-	10	10	-	-	1	-	1	1	11
2011	440	11	451	(1)	1	45	-	45	45	496
2012	141	33	174	(1)	1	17	-	17	17	191
2013	839	65	904	(3)	3	90	-	90	90	994
2014	886	(3)	883	(4)	4	88	-	88	88	971
2015	454	128	582	(3)	3	58	-	58	58	640
2016	893	343	1,236	(7)	7	124	(1)	123	123	1,359
2017	2,507	930	3,437	(21)	21	344	(2)	342	342	3,779
2018	2,788	830	3,618	(25)	25	441	(3)	438	438	4,056
2019	3,084	2,029	5,113	(41)	41	624	(5)	619	619	5,732
PAYs (sub-total):	12,137	4,600	16,737	(106)	106	1,866	(11)	1,855	1,855	18,592
CAY (2020)	2,265	5,124	7,389	(59)	59	842	(7)	835	835	8,224
claims liabilities:	14,402	9,724	24,126	(165)	165	2,708	(18)	2,690	2,690	26,816
	Unearned Premium	Premium Deficiency / (DPAC)	Total Provision	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL*
premium liabilities:	10,064	(2,095)	7,969	(46)	46	732	(4)	728	728	8,697
						*	Total may not be s	um of parts, as ap	vs apply to future	costs within UPR
policy liabilities:			32,095	(211)	211	3,440	(22)	3,418	3,418	35,513



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, 2020 from the valuation), followed by the selected discount rate and the associated margin for investment income.

Selected Claims Development MfADs (Sep. 30, 2020)

Accident	Third Party	Accident	Other	Tatal
Year	Liability	Benefits	Coverages	Total
	Margins	Margins	Margins	Margins
2005	10.0%	10.0%	10.0%	10.0%
2006	10.0%	10.0%	10.0%	10.0%
2007	10.0%	10.0%	10.0%	10.0%
2008	10.0%	10.0%	10.0%	10.0%
2009	10.0%	10.0%	10.0%	10.0%
2010	10.0%	10.0%	10.0%	10.0%
2011	10.0%	10.0%	10.0%	10.0%
2012	10.0%	10.0%	10.0%	10.0%
2013	10.0%	10.0%	10.0%	10.0%
2014	10.0%	10.0%	10.0%	10.0%
2015	10.0%	10.0%	10.0%	10.0%
2016	10.0%	10.0%	6.1%	10.0%
2017	10.0%	10.0%	7.7%	10.0%
2018	12.5%	10.0%	11.1%	12.2%
2019	12.5%	10.0%	12.5%	12.2%
2020	12.3%	10.0%	5.4%	11.4%
2021	11.9%	10.0%	5.1%	9.5%
prem liab	11.9%	10.0%	5.1%	9.5%

discount rate: 0.22% 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, 2020 from the latest valuation date (projections in exhibits A to D are to Dec. 31, 2020, and are based on more up-to-date information). We have included the most recent valuation selection (0.22%), the prior valuation assumption (0.25%) and the prior fiscal year end valuation assumption (1.43%) for comparative purposes. A 25 basis point margin for investment return adverse deviation is used in all scenarios presented.

\$ Format: \$000s

	Actual		rac or riotisi		Biscount nate	.5 DCC. 51, 20	20 projected L	, inputu
AY	0.00%	0.00%	0.22%	0.72%	1.22%	1.72%	0.25%	1.43%
2005	-	-	-	-	-	-	-	-
2006	-	-	-	-	-	-	-	-
2007	-	-	-	-	-	-	-	-
2008	74	74	74	73	73	73	74	73
2009	242	242	242	241	240	238	242	239
2010	5	5	5	5	5	5	5	5
2011	442	442	442	439	435	432	442	434
2012	185	185	185	182	180	178	185	179
2013	855	855	855	848	842	835	855	839
2014	1,202	1,202	1,201	1,192	1,182	1,172	1,201	1,177
2015	613	613	613	607	600	594	613	598
2016	1,319	1,319	1,318	1,303	1,287	1,271	1,318	1,280
2017	3,864	3,864	3,862	3,810	3,755	3,703	3,862	3,733
2018	4,041	4,041	4,038	3,977	3,914	3,854	4,037	3,889
2019	5,862	5,862	5,857	5,761	5,663	5,568	5,856	5,622
2020	7,622	7,622	7,616	7,488	7,356	7,230	7,615	7,303
Total	26,326	26,326	26,308	25,926	25,532	25,153	26,305	25,371
	curr - 100 bp	curr - 50 bp	curr val	curr + 50bp	curr + 100bp	curr + 150bp		prior fyr end
	са 100 Бр	са зо вр	assumption		сан : 1000р	сан : 1500р		assumption
		!	assumption	!			assumption	assumption
			Dollarima	act Relative t	o Valuation As	sumntion		
AY	0.00%	0.00%				1.72%	0.25%	1.43%
AY Total	0.00%	0.00%	0.22% -	0.72%	1.22%	1.72%	0.25%	1.43% (937
AY Total	18	18	0.22%	0.72% (382)	1.22% (776)	(1,155)	(3)	(937)
				0.72% (382) curr + 50bp	1.22%	(1,155)	(3) prior val	
	18	18	0.22% - curr val	0.72% (382) curr + 50bp	1.22% (776)	(1,155)	(3) prior val	(937 prior fyr end
	18	18	0.22% - curr val assumption	0.72% (382) curr + 50bp	1.22% (776)	(1,155) curr + 150bp	(3) prior val	(937 prior fyr end
	18	18	0.22% - curr val assumption	0.72% (382) curr + 50bp	1.22% (776) curr + 100bp	(1,155) curr + 150bp	(3) prior val	(937 prior fyr end
Total	18 curr - 100 bp	18 curr - 50 bp	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ	1.22% (776) curr + 100bp	(1,155) curr + 150bp Assumption	prior val assumption	(937 prior fyr end assumption
Total	18 curr - 100 bp	18 curr - 50 bp	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ	1.22% (776) curr + 100bp	(1,155) curr + 150bp Assumption	prior val assumption	(937 prior fyr end assumption
AY 2005	18 curr - 100 bp	18 curr - 50 bp	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ	1.22% (776) curr + 100bp	(1,155) curr + 150bp Assumption	prior val assumption	(937 prior fyr end assumption
AY 2005 2006	18 curr - 100 bp	18 curr - 50 bp	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ	1.22% (776) curr + 100bp	(1,155) curr + 150bp Assumption	prior val assumption	(937 prior fyr enc assumption 1.43%
AY 2005 2006 2007	18 curr - 100 bp	18 curr - 50 bp	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ 0.72%	1.22% (776) curr + 100bp e to Valuation 1.22%	(1,155) curr + 150bp Assumption 1.72%	prior val assumption	(937) prior fyr end assumption 1.43%
AY 2005 2006 2007 2008	18 curr - 100 bp	18 curr - 50 bp	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ 0.72%	1.22% (776) curr + 100bp e to Valuation 1.22%	(1,155) curr + 150bp Assumption 1.72%	prior val assumption	(937) prior fyr end assumption 1.43%
AY 2005 2006 2007 2008 2009	18 curr - 100 bp	18 curr - 50 bp	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ 0.72%	1.22% (776) curr + 100bp e to Valuation 1.22%	(1,155) curr + 150bp Assumption 1.72%	prior val assumption	(937 prior fyr end assumption 1.43%
AY 2005 2006 2007 2008 2010 2011	18 curr - 100 bp	18 curr - 50 bp	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ 0.72% - - (1.4%)	1.22% (776) curr + 100bp e to Valuation 1.22% - (1.4%) (0.8%)	(1,155) curr + 150bp Assumption 1.72% - (1.4%) (1.7%)	prior val assumption	(937 prior fyr end assumption 1.43% (1.4% (1.2% (1.8%
AY 2005 2006 2007 2008 2009 2010	18 curr - 100 bp	18 curr - 50 bp	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ 0.72% - (1.4%) (0.4%)	1.22% (776) curr + 100bp e to Valuation 1.22% - (1.4%) (0.8%)	(1,155) curr + 150bp Assumption 1.72% 	prior val assumption	(937 prior fyr end assumption 1.43%
AY 2005 2006 2007 2011 2012 2013	18 curr - 100 bp	18 curr - 50 bp	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ 0.72% (1.4%) (0.4%) (0.7%) (1.6%) (0.8%)	1.22% (776) curr + 100bp e to Valuation 1.22% (1.4%) (0.8%) (1.6%) (2.7%) (1.5%)	(1,155) curr + 150bp Assumption 1.72%	prior val assumption	(937 prior fyr end assumption 1.43% (1.4% (1.2% (1.8% (3.2% (1.9%
AY 2005 2006 2007 2008 2009 2010 2011 2012	18 curr - 100 bp	18 curr - 50 bp	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ 0.72% (1.4%) (0.4%) (0.7%) (1.6%) (0.8%) (0.7%)	1.22% (776) curr + 100bp e to Valuation 1.22% (1.4%) (0.8%) (1.6%) (2.7%) (1.5%) (1.6%)	(1,155) curr + 150bp Assumption 1.72%	prior val assumption	(937 prior fyr enc assumption 1.43%
AY 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015	18 curr - 100 bp	18 curr - 50 bp	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ 0.72%	1.22% (776) curr + 100bp e to Valuation 1.22%	(1,155) curr + 150bp Assumption 1.72%	prior val assumption	(937 prior fyr enc assumption 1.43% - - (1.4% (1.2% - - (1.8% (3.2% (1.9% (2.0% (2.4%)
AY 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016	18 curr - 100 bp	0.00%	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ 0.72% (1.4%) (0.4%) - (0.7%) (1.6%) (0.9%) (1.0%) (1.1%)	1.22% (776) curr + 100bp e to Valuation 1.22% (1.4%) (0.8%) - (1.5%) (1.5%) (2.7%) (2.1%) (2.4%)	(1,155) curr + 150bp Assumption 1.72%	prior val assumption	(937 prior fyr enc assumption 1.43% - - (1.4% (1.2% - - (1.8% (3.2% (1.9% (2.0% (2.4% (2.9%
AY 2005 2006 2007 2008 2010 2011 2012 2014 2015 2016 2017	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	0.00% 0.00% 0.1% 0.1%	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ 0.72% (1.4%) (0.4%) - (0.7%) (1.6%) (0.7%) (1.0%) (1.1%) (1.1%)	1.22% (776) curr + 100bp e to Valuation 1.22% (1.4%) (0.8%) - (1.6%) (2.7%) (1.5%) (2.1%) (2.4%) (2.8%)	(1,155) curr + 150bp Assumption 1.72% (1.4%) (1.7%) (2.3%) (3.8%) (2.4%) (3.1%) (3.6%) (4.1%)	(3) prior val assumption 0.25%	(937 prior fyr end assumption 1.43% - (1.4% (1.2% (1.8% (3.2% (1.9% (2.0% (2.4% (2.9% (3.3%)
AY 2005 2006 2007 2008 2009 2011 2012 2013 2014 2015 2016 2017 2018	0.00% 0.00% 0.1% 0.1%	0.00% 0.00% 0.1% 0.1% 0.1% 0.1%	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ 0.72%	1.22% (776) curr + 100bp e to Valuation 1.22% (1.4%) (2.1%) (1.5%) (1.5%) (2.1%) (2.4%) (2.4%) (3.1%)	(1,155) curr + 150bp Assumption 1.72% (1.4%) (1.7%) (2.3%) (3.8%) (2.4%) (3.1%) (3.6%) (4.1%) (4.6%)	(3) prior val assumption 0.25%	(937 prior fyr end assumption 1.43% - (1.4% (1.2% (1.8% (3.2% (2.0% (2.4% (2.9% (3.3% (3.7%
AY 2005 2006 2007 2008 2009 2011 2012 2013 2014 2015 2016 2017 2018 2019	0.00% 0.00% 0.1% 0.1% 0.1% 0.1%	0.00% 0.00% 0.1% 0.1% 0.1% 0.1% 0.1%	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ 0.72% (1.4%) (0.4%) (0.7%) (1.6%) (0.7%) (1.1%) (1.1%) (1.1%) (1.5%) (1.5%)	1.22% (776) curr + 100bp e to Valuation 1.22% (1.4%) (0.8%) (1.5%) (2.1%) (2.1%) (2.4%) (3.1%) (3.3%)	(1,155) curr + 150bp Assumption 1.72%	(3) prior val assumption 0.25% (0.0%)	(937 prior fyr end assumption 1.43% (1.4% (1.2% (1.8% (3.2% (1.9% (2.0% (2.4% (2.9% (3.3% (3.7% (4.0%
AY 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	0.00% 0.00% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1	0.00%	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ 0.72% (1.4%) (0.4%) (0.5%) (1.6%) (1.1%) (1.5%) (1.5%) (1.5%) (1.5%) (1.5%) (1.7%)	1.22% (776) curr + 100bp e to Valuation 1.22% (1.4%) (0.8%) (1.5%) (1.5%) (2.1%) (2.4%) (2.8%) (3.3%) (3.3%) (3.4%)	(1,155) curr + 150bp Assumption 1.72%	(3) prior val assumption 0.25%	(937 prior fyr end assumption 1.43% (1.4% (1.2% (1.8% (3.2% (1.9% (2.0% (2.4% (2.9% (3.3% (4.0% (4.1%
AY 2005 2006 2007 2008 2009 2011 2012 2013 2014 2015 2016 2017 2018 2019	0.00% 0.00% 0.1% 0.1% 0.1% 0.1%	0.00% 0.00% 0.1% 0.1% 0.1% 0.1% 0.1%	0.22% - curr val assumption Percentage I	0.72% (382) curr + 50bp mpact Relativ 0.72% (1.4%) (0.4%) (0.7%) (1.6%) (0.7%) (1.1%) (1.1%) (1.1%) (1.5%) (1.5%)	1.22% (776) curr + 100bp e to Valuation 1.22% (1.4%) (0.8%) (1.5%) (2.1%) (2.1%) (2.4%) (3.1%) (3.3%)	(1,155) curr + 150bp Assumption 1.72%	(3) prior val assumption 0.25% (0.0%)	(937 prior fyr end assumption 1.43% (1.4% (1.2% (1.8% (3.2% (1.9% (2.0% (2.4% (2.9% (3.3% (3.3% (4.0%



EXHIBIT G

Page 1 of 2 Components of Member Statement IBNR (i.e. "Discounted") Change During Month

RSP New Brunswick
AccountCode Desc IBNR - Discounted M/S IBNR - in \$000s

	Values						
AccYear	Sum of Prior Month Actual Amount	Sum of Projected Change	Sum of Change Due to AvsP Variances	Sum of Change Due to Valuation Implementation	Sum of Total Change	Sum of % Total Change	Sum of Current Month Final Amount
2005	(2)	-	-	-	-	-	(2)
2006	-	-	-	-	-	-	-
2007	6	-	-	-	-	-	6
2008	12	-	-	-	-	-	12
2009	244	(2)	2	-	-	-	244
2010	11	-	-	-	-	-	11
2011	67	-	(10)	-	(10)	(14.9%)	57
2012	51	(1)	1	-	-	-	51
2013	157	(2)	2	-	-	-	157
2014	167	(2)	(79)	-	(81)	(48.5%)	86
2015	189	(2)	1	-	(1)	(0.5%)	188
2016	561	(14)	(62)	-	(76)	(13.5%)	485
2017	802	(17)	540	-	523	65.2%	1,325
2018	1,119	(24)	227	-	203	18.1%	1,322
2019	2,911	(94)	(52)	-	(146)	(5.0%)	2,765
2020	5,217	209	394	-	603	11.6%	5,820
Grand Total	11,512	51	964	-	1,015	8.8%	12,527



EXHIBIT G

Page 2 of 2

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

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

	Values	ı					
AccYear	Sum of Prior Month Actual Amount	Sum of Projected Change	Sum of Change Due to AvsP Variances	Sum of Change Due to Valuation Implementation	Sum of Total Change	Sum of % Total Change	Sum of Current Month Final Amount
2005	(2)	-	-	-	-	-	(2)
2006	-	-	-	-	-	-	-
2007	5	-	-	-	-	-	5
2008	4	-	-	-	-	-	4
2009	219	(2)	2	-	-	-	219
2010	10	-	-	-	-	-	10
2011	21	-	(10)	-	(10)	(47.6%)	11
2012	33	-	-	-	-	-	33
2013	66	(1)	1	-	-	-	66
2014	72	(1)	(74)	-	(75)	(104.2%)	(3)
2015	130	(1)	-	-	(1)	(0.8%)	129
2016	433	(13)	(63)	-	(76)	(17.6%)	357
2017	443	(13)	539	-	526	118.7%	969
2018	659	(20)	226	-	206	31.3%	865
2019	2,262	(68)	(74)	-	(142)	(6.3%)	2,120
2020	4,505	145	393	-	538	11.9%	5,043
Grand Total	8,860	26	940	-	966	10.9%	9,826