

New Brunswick Risk Sharing Pool August 2022 Operational Report Actuarial Highlights

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ACTUARIAL HIGHLIGHTS

RSP New Brunswick

OPERATIONAL REPORT

AUGUST 2022

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1 Summary

Note to members: this is the quarterly Actuarial Highlights we will release going forward to replace the monthly Actuarial Highlights. The next report will be available for reporting month October 2022 in November 2022, in line with the valuation implementation schedule. Please contact us with any questions or concerns in regards to this matter.

1.1 Valuation Schedule (Fiscal Year 2022)

The August 2022 Operational Report incorporates the results of an updated valuation (as at June 30, 2022) – the impact of the implementation of the valuation is discussed in section 1.2. The following table summarizes the valuation implementations scheduled for fiscal year 2022.

	NEW BRUNSWICK RISK SHARING POOL							
Valuation Date	Discount Rate (per annum)	YEAR 2021 – SCHEDI Operational Report	Description of Changes					
Sep 30, 2021 (completed)	0.86% mfad ¹ 25 bp	Oct. 2021	update valuation (roll-forward):): accident year 2021 loss ratio decreased 1.2 points to 66.3%; discount rate increased by 10 basis points; no change to selected margins for adverse deviations					
Dec. 31, 2021 (completed)	1.07% mfad 25 bp	Mar. 2022	update valuation: accident year 2021 loss ratio decreased 2.0 points to 64.3% and accident year 2021 loss ratio increased 0.1 points to 84.2%; discount rate increased 21 basis points; no change to selected margins for adverse deviations					
Mar. 31, 2022 (completed)	2.26% mfad 25 bp	May. 2022	update valuation (roll-forward): accident year 2021 loss ratio decreased 1 points to 84.2%; discount rate increased by 119 basis points; no change to selected margins for adverse deviations					
Jun. 30, 2022	3.16% mfad 25 bp	Aug. 2022	update valuation: accident year 2022 loss ratio decreased 5.5 points to 78.6%; discount rate increased 90 basis points; selected margins for adverse deviations were rolled forward one year, with no changes to selections					
Sep. 30, 2022	% mfad bp	Oct. 2022	update valuation (roll-forward):					

Under the proposed schedule for fiscal year 2022, the off-half valuation quarters ending March 31, 2022 and September 30, 2022 would not reflect a full valuation update of assumptions,

¹ The selected interest rate margin is limited to reducing the selected discount rate to 0%; the approach is that if the net impact is negative, the discount rate will be capped at 0%.



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, 2022 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.

The valuation implementation impact is summarized in the following two tables, where the abbreviations PAYs refers to prior accident years, CAY refers to the current accident year (2022), and "Prem Def" refers to premium deficiency / deferred acquisition costs impacts.

Summary of Impact (\$000s) of Implementing Result of Valuation as at Jun. 30, 2022²

NB	unfav / (fav) for the month and ytd							
	IMPACT in \$000s from changes in:							
	ults &	payout patt	terns	dsct rate	margins			
	Nominal	apv adj.	sub-tot	apv adj.	apv adj.	TOTAL		
	[1] [2]		[3]	[4]	[5]	[6]		
PAYs	(65)	11	(54)	(578)	(114)	(746)		
CAY	(767)	(30)	(797)	(212)	-	(1,009)		
Prem Def	(187)	(7)	(194)	(127)	-	(321)		
TOTAL	(1,019)	(26)	(1,045)	(917)	(114)	(2,076)		

As indicated in the preceding table, the incorporation of the new valuation had an estimated \$2.1 million favourable impact on the month's net result from operations, subtracting an estimated 12.5 points (see following table) from the year-to-date Combined Operating Ratio to end at 100.1%. The favourable impact is due to the updates associated with the full review for the June valuation assumptions including an increase in discounting due to increases in government of Canada benchmark bond yields.

²In 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.



Summary of Impact (% YTD EP) of Implementing Result of Valuation as at Jun. 30, 2022

NB	ytd EP	16,648	(actual)					
		IMPACT unfav / (fav) as % ytd EP from changes in:						
	ults &	payout patt	terns	dsct rate	margins			
	Nominal	apv adj.	sub-tot	apv adj.	apv adj.	TOTAL		
	[1] [2]		[3]	[4]	[5]	[6]		
PAYs	(0.4%)	0.1%	(0.3%)	(3.5%)	(0.7%)	(4.5%)		
CAY	(4.6%)	(0.2%)	(4.8%)	(1.3%)	-	(6.1%)		
Prem Def	(1.1%)	-	(1.2%)	(0.8%)	-	(1.9%)		
TOTAL	(6.1%)	(0.2%)	(6.3%)	(5.5%)	(0.7%)	(12.5%)		

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 \$1.0** 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). Due to the June valuation being a full review of assumptions, the impacts are driven by the update to industry benchmark loss development factors and the increase in discount rate as a result of higher government of Canada benchmark bond yields. These positive impacts are partially offset by higher than expected levels of claim development in Bodily Injury across multiple accident years. The **PAYs** overall showed a **\$0.1** million favourable nominal variance or less than 0.2 % of the PAYs nominal unpaid balance of \$25.6 million determined at the end of last month (July 2022), relatively unchanged since the prior valuation.

The CAY and premium deficiency impacts are a result of the change in the nominal ultimate loss ratio for 2022 (decreased by 5.5% to 78.6%) in the latest valuation. Please note that the 2022 accident year loss ratio is expected to increase in 2022 compared to 2021 as the new RSP harmonization rules come into effect, allowing companies to select up to 5% of their personal passenger automobile to cede to the pool at their discretion.

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 preceding summary tables in columns [2], [4], and [5].

Column [2] recognizes that changing the nominal selections also changed the unpaid estimates (including changes to the relative mix by government line, which has an impact on the weighted-average MfADs). It also reflects the fact that we updated the projected emergence of claims payments, resulting in a change in the projected cash flows. These changes generated a favourable change of \$26 thousand in the actuarial present value adjustments, prior to any changes in the selected discount rate and/or MfADs.

Updated projected cash flows were reviewed against the selected risk-free yield curve, derived from Government of Canada benchmark bond yields monthly series using values for June 2022. Column [4] accounts for the change in the **discount rate** selected (<u>in</u>creased 90 basis points to **3.16**%), indicating a favourable impact of \$0.9 million. The impact related only to claims liabilities (i.e. PAYs



plus CAY) was \$0.8 million at August 2022 – this compares to the \$0.8 million change one would estimate as the impact by interpolation using the interest rate sensitivity table provided in last month's Actuarial Highlights.

Column [5] accounts for any changes to selected MfADs. The selected **investment rate MfAD** was **left unchanged at 25 basis points** and the selected **claims development MfADs** at the coverage and accident year level were rolled forward one year with no changes to the selection of the MfADs themselves, in accordance with the Q2 full review (as per our usual practice, development margins are reviewed with the June 30 valuation). This roll forward of the claims development MfADs had a favourable implementation impact of \$0.1 million.

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

The Annual General Meeting of the members of Facility Association ("FA") appointed Mr. Cosimo Pantaleo as the Appointed Actuary at its meeting on March 3, 2022.

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

1.4 Consideration of Recent Legal Decisions and Changes in Legislation / Regulation

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

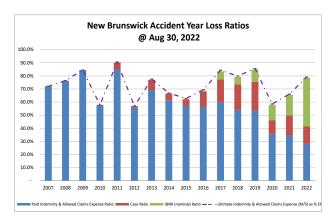
Consideration and assessment of potential impacts of legal decisions and changes in legislation / regulation constitutes a regular part of the valuation process. At the current time, there are no specific recent (i.e. within the last five years) decisions or changes for inclusion here.

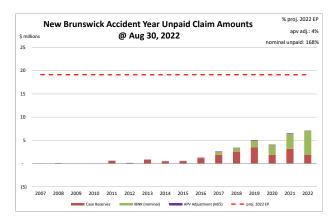
1.5 Current Provision Summary

The following charts 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 2021 full year earned premium (the red hash-mark line) to provide some perspective.

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.







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

claim liabilities (\$000s)		
	amt	%
case	18,557	56.4%
ibnr	13,528	41.1%

M/S apv adjust. 826 2.5%
M/S total 32,911 100.0%

The current actuarial present value adjustments balance (\$0.8million – see the following table) represents 4% of the earned premium projected for the full year 2022 (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.

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 62% of the IBNR balance relates to accident years 2021 and 2022 (see Exhibit B). Approximately 80% of the M/S total claim liabilities are related to accident years 2018-2022 inclusive (i.e. the most recent 5 accident years), and approximately 3% is related to accident years 2012 and prior (i.e. prior to the most recent 10 accident years).

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

premium liabilities (\$000s)

	amt	%
unearned prem	7,339	110.6%
prem def/(dpac)	(844)	(12.7%)
M/S apv adjust.	141	2.1%
M/S total	6,636	100.0%

policy liabilities (\$000s)

	amt	%
claim	32,085	81.1%
premium	6,495	16.4%
M/S apv adjust.	967	2.4%
M/S total	39.547	100.0%

2 Activity since previous valuation implementation

2.1 Recorded Premium and Claims Activity

The following table summarizes the extent to which premiums and claims amounts recorded since the prior implementation differ from the prior projection.



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

AY Group	Share Year	Share Month	Actual Earned Premium (000s)	Actual minus Projected Earned Premium (000s)	Actual Paid Claims (000s)	Actual minus Projected Paid Claims (000s)	Actual Recorded Claims (000s)	Actual minus Projected Recorded Claims (000s)
PAY	2022	June	(6)	(6)	248	(97)	318	(116)
		July	(1)	(1)	186	(145)	271	(297)
		August	(37)	(37)	433	116	421	(65)
PAY Total			(44)	(44)	867	(126)	1,010	(478)
CAY	2022	June	1,735	417	647	309	946	511
		July	1,685	427	620	(14)	668	(361)
		August	1,493	380	472	(65)	627	(129)
CAY Total			4,913	1,224	1,739	230	2,241	21
Grand Total			4,869	1,180	2,606	104	3,251	(457)

(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. The variances are also reviewed as part of the quarterly valuation process, as an indicator of changes in the claims development process or potential bias in ultimate claims estimates.

More detailed analysis and commentary on actual vs. projected for the most recent reporting months is provided below.

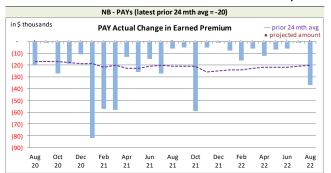
2.1.a Actual vs. Projected (AvsP): Earned Premium

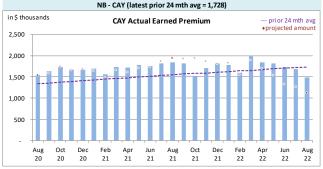
The following charts show actual **earned premium**⁴ activity in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

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.





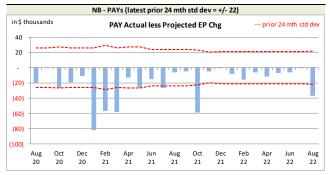


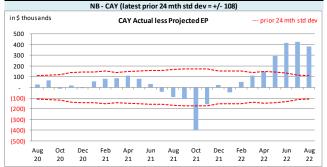


Earned premium changes during a given calendar month in relation to prior accident years tend to be at modest levels, although relatively high levels generally occur at the beginning of each year.

The associated variance between the actual changes and the projections from the previous month are shown in 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





On Latest \$ thousands				
Earned Premium	PAYs	CAY		
Mthly Avg EP Chg (prior 24 mths)	(20)	1,728		
std dev	22	108		
A-P <> std dev	6	5		
% <> std dev	24.0%	20.0%		
norm <> std dev	31.7%	31.7%		
performance vs 24-mth avg:	better	better		

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.

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.

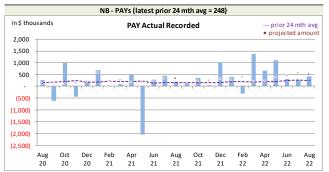


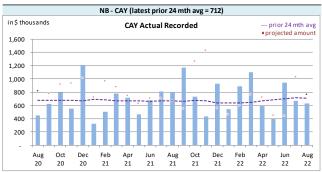
Readers will note the widening of the CAY standard deviation band, reflecting the recent and sustained volume increases and the impact as those increases are earned.

2.1.b AvsP: Recorded Indemnity & Allowed Claims Expense

The 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.

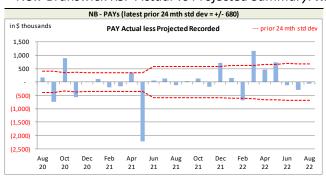
New Brunswick RSP Actual Recorded by Calendar Month

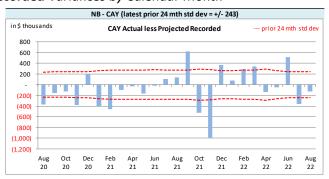




Recorded activity variances from the previous month's projections are shown in the following charts, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

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





On Latest \$ thousands				
Recorded	PAYs	CAY		
Mthly Avg Recorded (prior 24 mths)	248	712		
std dev	680	243		
A-P <> std dev	8	12		
% <> std dev	32.0%	48.0%		
norm <> std dev	31.7%	31.7%		
performance vs 24-mth avg:	no better	worse		

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 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



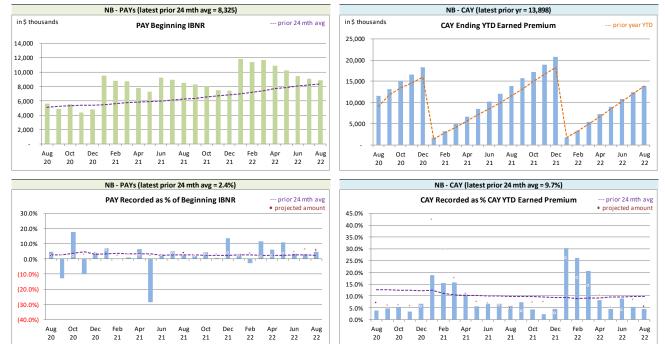
not been indicated at a 95% confidence level on a rolling 25-month basis (14 of 25 variances are positive).

The current accident year (CAY) **recorded** variances fell outside of one standard deviation 48% 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 (9 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, 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 influence⁷ **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);

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.

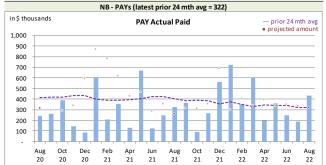


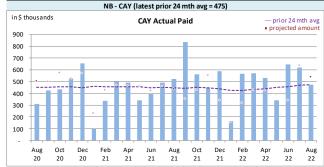
- the annual switchover as a CAY becomes a PAY (occurs in January); and
- when a new valuation is implemented, where the valuation resulted in changes to the selection of PAYs' ultimates (will show up as a beginning IBNR change one month after the valuation is implemented, i.e. the change will generally 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.

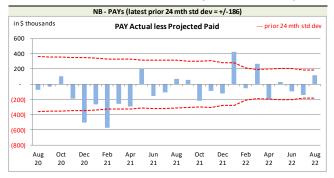
New Brunswick RSP Actual Paid activity by Calendar Month

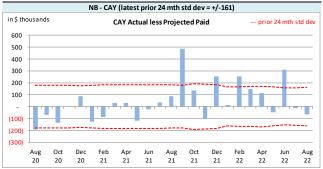




Paid activity variances from the previous month's projections are shown in the following charts, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

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





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, 16% of the prior accident years' (PAYs)



On Latest \$ thousands				
Paid	Paid PAYs			
Mthly Avg Paid (prior 24 mths)	322	475		
std dev	186	161		
A-P <> std dev	4	5		
% <> std dev	16.0%	20.0%		
norm <> std dev	31.7%	31.7%		
performance vs 24-mth avg:	better	better		

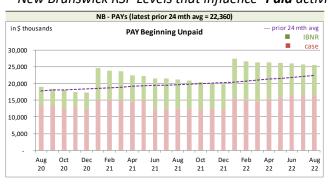
variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **paid** amounts (see preceding table on the left), suggesting the projection process has performed no better than simply projecting the prior 24-month average amount (assuming a normal distribution). Bias has been indicated at a

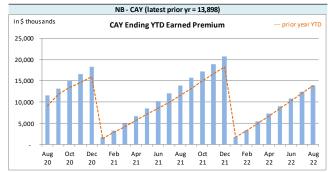
95% confidence level on a rolling 25-month basis (8 of 25 variances are positive).

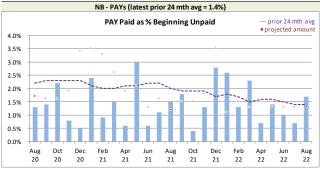
The current accident year (CAY) **paid** variances fell outside of one standard deviation 20% of the time over the last 25 calendar months (see preceding table on the left), suggesting that the projection process has performed better than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (14 of 25 variances are positive).

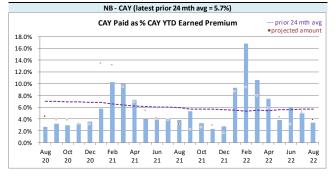
We have included, for reference, the following charts related to levels influencing paid activity.

New Brunswick RSP Levels that influence⁸ Paid activity by Calendar Month









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

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.



- 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.

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

- (i) the change projected last month;
- 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)

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

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

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).



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 79.1% rather than 78.6% (the valuation ultimate ratio for accident year 2022), as the calendar year-to-date earned premium includes prior accident year earned premium adjustments. (Note that the ratios in this table may differ slightly from those shown in the New Brunswick RSP Summary of Operations due to rounding.)

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

Table 04		YTD Nomina	al Values	YTD actuarial pr adjustm		YTD To	tal	Change from P YTD	
		Amount	% EP	Amount	% EP	Amount	% EP	Amount	LR pts
	PAYs	742	5.4%	(1,792)	(12.9%)	(1,050)	(7.6%)	(792)	(5.5%)
	CAY	10,962	79.1%	68	0.5%	11,030	79.6%	276	(7.1%)
	TOTAL	11,703	84.5%	(1,724)	(12.4%)	9,979	72.0%	(516)	(12.6%)

("% EP" based on 2022 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 impact of valuation implementation.

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

5 Current Operational Report – Additional Exhibits

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

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

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

The ultimate loss ratios detailed in section 6, Exhibit B, refer to the estimates derived on the basis of various actuarial methodologies applied to the experience of the New Brunswick Risk Sharing Pool for the purposes of the most recent quarterly valuation. As discussed in section 3, IBNR reflected in the current month's Operational Report was derived as the difference between the estimated

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.



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



IBNR for Member Sharing – includes Actuarial Present Value Adjustments

EXHIBIT A

TABLE EXHIBIT A	Amounts in \$000s									
IBNR + M/S actuarial present	Accident	Actual	Actual	Projected	Projected	Projected	Projected	Projected	Projected	
value adjustments	Year	Jul. 2022	Aug. 2022	Sep. 2022	Oct. 2022	Nov. 2022	Dec. 2022	Jan. 2023	Dec. 2022	
	2007	6	6	6	6	6	6	6	6	
	2008	12	12	12	12	12	12	12	12	
	2009	6	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
	2010	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	
	2011	46	40	39	39	39	38	59	38	
	2012	11	-	-	-	-	-	(2)	-	
	2013	109	59	59	58	57	56	56	56	
	2014	109	30	31	30	30	29	33	29	
	2015	69	50	50	50	48	48	52	48	
	2016	(87)	136	134	132	130	128	138	128	
discount rate	2017	(61)	757	750	741	718	710	707	710	
3.16%	2018	1,185	842	834	815	803	794	790	794	
	2019	1,621	1,588	1,543	1,523	1,508	1,492	1,474	1,492	
interest rate margin	2020	3,005	2,213	2,125	2,073	2,052	2,031	2,031	2,031	
25 basis pts	2021	4,268	3,354	3,254	3,127	3,036	2,919	2,931	2,919	
	2022	5,623	5,272	5,532	6,141	6,727	7,346	7,224	7,346	
	TOTAL	15,918	14,354	14,364	14,742	15,161	15,604	16,122	15,604	
	Change		(1.564)	10	378	419	443	518		

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	Projected	Projected	Projected		
	Loss Ratio	Year	Jul. 2022	Aug. 2022	Sep. 2022	Oct. 2022	Nov. 2022	Dec. 2022	Jan. 2023	Dec. 2022		
	72.1%	2007	5	5	5	5	5	5	5	5		
	76.3%	2008	4	4	4	4	4	4	4	4		
	84.5%	2009	3	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
	57.8%	2010	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)		
	90.3%	2011	4	4	4	4	4	4	4	4		
	56.8%	2012	1	(9)	(9)	(9)	(9)	(9)	(9)	(9)		
	76.9%	2013	35	(7)	(7)	(7)	(7)	(7)	(7)	(7)		
	66.5%	2014	66	(4)	(4)	(4)	(4)	(4)	(4)	(4)		
	62.4%	2015	27	16	16	16	15	15	14	15		
	68.7%	2016	(155)	71	70	69	67	66	62	66		
	83.4%	2017	(158)	658	651	644	621	614	581	614		
	79.2%	2018	1,003	748	741	723	711	704	666	704		
	85.0%	2019	1,299	1,498	1,453	1,433	1,419	1,405	1,340	1,405		
	57.9%	2020	2,761	2,110	2,023	1,972	1,952	1,932	1,886	1,932		
	65.5%	2021	3,940	3,235	3,138	3,012	2,922	2,805	2,777	2,805		
	78.6%	2022	5,343	5,204	5,462	6,063	6,643	7,255	7,110	7,255		
		TOTAL	14,174	13,528	13,542	13,920	14,338	14,784	15,029	14,784		
		Change		(646)	1/1	378	/118	446	2/15			

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



EXHIBIT C

Premium Liabilities

TABLE EXHIBIT C	Amounts in \$000s							
Premium Liabilities	Actual Jul. 2022	Actual Aug. 2022	Projected Sep. 2022	Projected Oct. 2022	Projected Nov. 2022	Projected Dec. 2022	Projected Jan. 2023	Projected Dec. 2022
			<u> </u>					
(1) unearned premium (UP)	7,825	7,339	8,543	9,039	9,369	9,615	9,945	9,615
FOR MEMBER SHARING								
(2) expected future costs ratio {% of (1)}	93.5%	90.4%	92.5%	95.3%	97.9%	100.6%	100.6%	100.6%
(3) expected future costs {(1) x (2)}	7,314	6,636	7,905	8,614	9,171	9,670	10,008	9,670
(4) premium deficiency / (deferred policy								
acquisition cost)	(511)	(703)	(638)	(425)	(198)	55	63	55
Excluding Actuarial Present Value Adjustments								
(5) expected future costs ratio {% of (1)}	89.8%	88.5%	90.5%	93.3%	95.8%	98.4%	98.5%	98.4%
(6) expected future costs {(1) x (5)}	7,026	6,495	7,736	8,430	8,974	9,464	9,795	9,464
(7) premium deficiency / (deferred policy								
acquisition cost)	(799)	(844)	(807)	(609)	(395)	(151)	(150)	(151)



EXHIBIT D

Projected Year-end Policy Liabilities

The table below presents the projected policy liabilities as at December 31, 2022, broken down by component.

New Brunswick	Projected Balances as at Dec. 31, 2022 (\$000s)											
ending 2022	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		
2007	-	5	5	-	-	1	-	1	1	6		
2008	74	4	78	-	-	8	-	8	8	86		
2009	-	(1)	(1)	-	-	-	-	-	-	(1)		
2010	-	(2)	(2)	-	-	-	-	-	-	(2)		
2011	547	4	551	(21)	2	55	(2)	53	34	585		
2012	116	(9)	107	(2)	-	11	-	11	9	116		
2013	778	(7)	771	(14)	1	77	(1)	76	63	834		
2014	458	(4)	454	(12)	1	45	(1)	44	33	487		
2015	510	15	525	(19)	1	53	(2)	51	33	558		
2016	1,132	66	1,198	(56)	4	120	(6)	114	62	1,260		
2017	1,820	614	2,434	(144)	11	243	(14)	229	96	2,530		
2018	2,475	704	3,179	(222)	16	318	(22)	296	90	3,269		
2019	3,378	1,405	4,783	(381)	28	478	(38)	440	87	4,870		
2020	1,881	1,932	3,813	(349)	26	465	(43)	422	99	3,912		
2021	3,353	2,805	6,158	(604)	44	747	(73)	674	114	6,272		
PAYs (sub-total):	16,522	7,529	24,051	(1,824)	134	2,621	(202)	2,419	729	24,780		
CAY (2022)	2,116	7,255	9,371	(942)	68	1,073	(108)	965	91_	9,462		
claims liabilities:	18,638	14,784	33,422	(2,766)	202	3,694	(310)	3,384	820	34,242		
	Unearned Premium	Premium Deficiency / (DPAC)	Total Provision	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL*		
premium liabilities:	9,615	(151)	9,464	(632)	45	851	(58)	793	206	9,670		
						*	Total may not be s	um of parts, as ap	vs apply to future	costs within UPR		
policy liabilities:			42,886	(3,398)	247	4,545	(368)	4,177	1,026	43,912		



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, 2022 from the valuation), followed by the selected discount rate and the associated margin for investment income.

Selected Claims Development MfADs

Accident Year	Third Party Liability	Accident Benefits	Other 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%
<u>2014</u>	10.0%	10.0%	10.0%	10.0%
2015	10.0%	10.0%	10.0%	10.0%
2016	10.0%	10.0%	10.0%	10.0%
2017	10.0%	10.0%	10.0%	10.0%
2018	10.0%	10.0%	10.0%	10.0%
2019	10.0%	10.0%	5.9%	10.0%
2020	12.5%	10.0%	6.5%	12.2%
2021	12.5%	10.0%	7.6%	12.1%
2022	12.3%	10.0%	5.6%	11.4%
2023	11.8%	10.0%	5.0%	9.2%
prem liab	11.8%	10.0%	5.0%	9.2%

discount rate: 3.16%

margin (basis points): 25

^{*}prem liabilities as at 2022m06



EXHIBIT F

Interest Rate Sensitivity

The tables below present sensitivity to the member statement claims liability as projected to Dec. 31, 2022 from the latest valuation date (projections in exhibits A to D are to Dec. 31, 2022, and are based on more up-to-date information). We have included the most recent valuation selection (3.17%), the prior valuation assumption (2.26%) and the prior fiscal year end valuation assumption (0.22%) for comparative purposes. A 25 basis point margin for investment return adverse deviation is used in all scenarios presented.

AY 2.16% 2.66% 3.16% 3.66% 4.16% 4.66% 2.26% 2005 & prior -	0.86%
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2,350 2,328 2,306 2,285 2,264 2,243 2,346 3,178 3,143 3,108 3,073 3,040 3,007 3,171 4,924 4,860 4,799 4,738 4,679 4,622 4,911 3,794 3,738 3,683 3,629 3,577 3,526 3,783 6,370 6,268 6,170 6,074 5,980 5,889 6,350	2,410 3,275
3,178 3,143 3,108 3,073 3,040 3,007 3,171 4,924 4,860 4,799 4,738 4,679 4,622 4,911 3,794 3,738 3,683 3,629 3,577 3,526 3,783 6,370 6,268 6,170 6,074 5,980 5,889 6,350	3,275
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	8,995
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assumption assumption	assumption
assumption {	assumption
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curr - 100 bp curr - 50 bp curr val curr + 50bp curr + 100bp curr + 150bp prior val	orior fyr end
	assumption
, , ,	•
Percentage Impact Relative to Valuation Assumption	
2.16% 2.66% 3.16% 3.66% 4.16% 4.66% 2.26%	0.86%
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Components of Member Statement IBNR (i.e. "Discounted") Change (June 2022 to August 2022)

RSP New Brunswick
AccountCode Desc IBNR - Discounted

M/S IBNR - in \$000s

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
prior	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-
2005	(2)	-	-	-	-	-	(2)
2006	-	-	-	-	-	-	-
2007	6	-	-	-	-	-	6
2008	12	-	-	-	-	-	12
2009	6	-	(7)	-	(7)	(116.7%)	(1)
2010	(2)	-	-	-	-	-	(2)
2011	48	(3)	1	(6)	(8)	(16.7%)	40
2012	11	-	-	(11)	(11)	(100.0%)	-
2013	86	(6)	29	(50)	(27)	(31.4%)	59
2014	113	(7)	(2)	(74)	(83)	(73.5%)	30
2015	74	(2)	(3)	(19)	(24)	(32.4%)	50
2016	159	4	(242)	215	(23)	(14.5%)	136
2017	(75)	7	(6)	831	832	(1,109.3%)	757
2018	1,198	(100)	63	(319)	(356)	(29.7%)	842
2019	1,878	(194)	(13)	(83)	(290)	(15.4%)	1,588
2020	3,036	(505)	379	(697)	(823)	(27.1%)	2,213
2021	4,369	(736)	254	(533)	(1,015)	(23.2%)	3,354
2022	4,294	944	1,043	(1,009)	978	22.8%	5,272
Grand Total	15,211	(598)	1,496	(1,755)	(857)	(5.6%)	14,354



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Components of IBNR (i.e. "Undiscounted") Change (June 2022 to August 2022)

RSP New Brunswick
AccountCode Desc IBNR - Undiscounted

IBNR - in \$000s

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
prior	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-
2005	(2)	-	-	-	-	-	(2)
2006	-	-	-	-	-	-	-
2007	5	-	-	-	-	-	5
2008	4	-	-	-	-	-	4
2009	3	-	(4)	-	(4)	(133.3%)	(1)
2010	(2)	-	-	-	-	-	(2)
2011	6	-	(2)	-	(2)	(33.3%)	4
2012	1	-	-	(10)	(10)	(1,000.0%)	(9)
2013	12	(2)	25	(42)	(19)	(158.3%)	(7)
2014	69	(4)	(3)	(66)	(73)	(105.8%)	(4)
2015	31	(1)	(4)	(10)	(15)	(48.4%)	16
2016	90	5	(242)	218	(19)	(21.1%)	71
2017	(174)	9	(6)	829	832	(478.2%)	658
2018	1,014	(94)	65	(237)	(266)	(26.2%)	748
2019	1,549	(182)	(11)	142	(51)	(3.3%)	1,498
2020	2,785	(500)	383	(558)	(675)	(24.2%)	2,110
2021	4,034	(719)	251	(331)	(799)	(19.8%)	3,235
2022	4,079	882	1,010	(767)	1,125	27.6%	5,204
Grand Total	13,504	(606)	1,462	(832)	24	0.2%	13,528