

NOVA SCOTIA RISK SHARING POOL OCTOBER 2020 OPERATIONAL REPORT ACTUARIAL HIGHLIGHTS

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ACTUARIAL HIGHLIGHTS

RSP NOVA SCOTIA

OPERATIONAL REPORT OCTOBER 2020

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1 Summary

Key Points

(a) The 2020 Q3 valuation was completed and implemented into the results this month, with a \$2.2 million favourable impact, or 2.4% of beginning policy liabilities (policy liabilities ended at \$92 million) and 7.5 points of year-to-date earned premium; the updated valuation loss ratios include a further assessment of the incurred impacts associated with the COVID-19 pandemic.

1.1 Valuation Schedule (Fiscal Year 2020)

The October 2020 Operational Report incorporates the results of an updated valuation (as at September 30, 2020) – 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 2020.

	Nova Scotia Risk Sharing Pool Fiscal Year 2020 – Schedule of Valuations					
Valuation Date	Discount Rate (per annum)	Operational Report	Description of Changes			
Sep. 30, 2019 (completed)	1.46% mfad 25 bp	Oct. 2019	updated valuation (roll forward): accident year 2019 loss ratio <u>increased 1.0 points to 97.8%;</u> discount rate <u>increased 5 basis points;</u> no change to selected margins for adverse deviations			
Dec. 31, 2019 (completed)	1.64% mfad 25 bp	Mar. 2020	update valuation: 2019 loss ratio <u>increased 2.7</u> points to 100.5%; accident year 2020 loss ratio <u>increased 4.5</u> points to 103.1%; discount rate <u>increased 18</u> basis points; no change to selected margins for adverse deviations			
Mar. 31, 2020 (completed)	0.62% mfad -25 bp	May. 2020	update valuation (partial roll-forward): accident year 2020 loss ratio <u>de</u> creased 3.5 points to 99.6%; discount rate <u>de</u> creased 102 basis points; no change to selected margins for adverse deviations			
Jun. 30, 2020 (completed)	0.23% mfad 25 bp	Aug. 2020	update valuation: accident year 2020 loss ratio decreased 12.1 points to 87.5%; discount rate decreased by 39 basis points; selected margins for adverse deviations were updated			
Sep 30, 2020 (completed)	0.19% mfad 25 bp	Oct. 2020	update valuation (roll-forward): accident year 2020 loss ratio <u>in</u> creased 0.2 points to 87.7%; discount rate <u>de</u> creased 4 basis points; no change to selected margins for adverse deviations			

Under the proposed schedule for fiscal year 2020, the off-half valuation quarters ending March 31, 2020 and September 30, 2020 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 Nova Scotia Risk Sharing Pool ("RSP") as at September 30, 2020 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 (2020), and Prem Def refers to premium deficiency / deferred acquisition costs impacts.

Summary of Impact (\$000s) of Implementing Result of Valuation as at Sep. 30, 2020¹

			_			•	
NS	S unfav / (fav) for the month and ytd						
	ults &	payout patt	erns	dsct rate	margins		
	Nominal	apv adj.	sub-tot	apv adj.	apv adj.	TOTAL	
	[1]	[2]	[3]	[4]	[5]	[6]	
PAYs	(2,030)	(249)	(2,279)	4	-	(2,275)	
CAY	61	7	68	2	-	70	
Prem Def	14	(47)	(33)	3	-	(30)	
TOTAL	(1,955)	(289)	(2,244)	9	-	(2,235)	

As indicated in the preceding table, the incorporation of the new valuation had an estimated \$2.2 million favourable impact on the month's net result from operations, subtracting an estimated 7.5 points (see following table) from the year-to-date Combined Operating Ratio to end at 124.0%.

Summary of Impact (% YTD EP) of Implementing Result of Valuation as at Sep. 30, 2020

NS	ytd EP	29,887	(actual)			
	IN	/IPACT unfa	v / (fav) as %	6 ytd EP fror	n changes ir	1:
	ults &	payout pat	terns	dsct rate	margins	
	Nominal	apv adj.	sub-tot	apv adj.	apv adj.	TOTAL
	[1]	[2]	[3]	[4]	[5]	[6]
PAYs	(6.8%)	(0.8%)	(7.6%)	-	-	(7.6%)
CAY	0.2%	-	0.2%	-	-	0.2%
Prem Def		(0.2%)	(0.1%)	-	-	(0.1%)
TOTAL	(6.5%)	(1.0%)	(7.5%)	-	-	(7.5%)

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 \$2.0 million** overall. This reflects

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.



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 **\$2.0** million favourable nominal variance or 4.7% of the PAYs nominal unpaid balance of \$42.4 million determined at the end of last month (September 2020), 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 apply to different periods), the valuation result by government line provides insight into the relative PAYs nominal changes. As per following table, the primary changes were in relation to TPL for Accident Year 2018.

Valuation as at Sep. 30, 2020 – PAYs Nominal Changes by Government Line

Nova Scotia RSP - valuation changes in selected ultimate

(favourable) / unfavourable during Quarter

	Third Douby	A soid a set	Other	
Accident Year	Third Party	Accident	Other	Total
Accident real	Liability	Benefits	Coverages	
2015 & Prior	(79)	18	(6)	(67)
2016	98	(26)	1	73
2017	99	(86)	-	13
2018	(1,875)	(6)	2	(1,879)
2019	(80)	(58)	(35)	(173)
TOTAL	(1,837)	(158)	(38)	(2,033)

The CAY and premium deficiency impacts are a result of the change in the selected loss ratio for accident year **2020** (<u>in</u>creased 0.2 points to 87.7%); there was no change in the accident year **2021** selected loss ratio.

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 had 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 \$0.3 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 September 2020. Column [4] accounts for the change in the **discount rate** selected (<u>decreased 4 basis point to **0.19%**), indicating an <u>unfavourable impact of \$9 thousand</u>. The impact *related only to claims liabilities* (i.e. PAYs plus CAY) was \$6 thousand at October 2020 – this compares to the \$7 thousand change one</u>



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 also left unchanged (as per our usual practice, development margins are reviewed with the June 30 valuation).

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

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.

1.4 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. Descriptions of some of the more recent (i.e. within the last five years) changes are provided below.

The Nova Scotia Court of Appeal confirmed, in a unanimous decision released on January 18, 2019 in relation to Sparks v Holland (2019 NSCA 3), that future Canada Pension Plan (CPP) disability benefits are deductible from future income loss awards in motor-vehicle accident claims in that province. Sparks sustained injuries as a result of a motor vehicle accident in Nova Scotia and sought damages for personal injuries and loss of income. The decision supported an earlier decision (Tibbets v Murphy, 2017 NSCA 35) that both past and future CPP disability benefits are deductible under section 133A of the Insurance Act. At the current time, no adjustments have been made to our valuation estimates as a result of this decision.

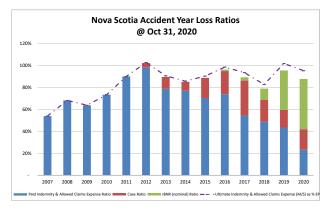
1.5 Current Provision Summary

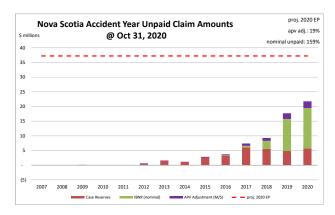
The following charts show the current levels of claim liabilities³ booked by accident year. The left chart displays life-to-date payments, case reserves, IBNR, and the total including actuarial present value adjustments against accident year earned premium. The right chart shows the associated dollar amounts for the components of the claim liabilities and the current projected amount of 2020 full year earned premium (the red hash-mark line) to provide some perspective.

²This 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.

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.

The current actuarial present value adjustments balance (\$7.0 million – see the following table) represents 19% 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.

	amt	%
case	30,951	46.8%
ibnr	28,245	42.7%
M/S apv adjust.	6,927	10.5%
M/S total	66,123	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 88% of the IBNR balance relates to accident years 2019 and 2020 (see Exhibit B). Approximately 91% of the M/S total claim

liabilities are related to accident years 2016-2020 inclusive (i.e. the most recent 5 accident years), and just over 0% is related to accident years 2010 and prior (i.e. prior to the most recent 10 accident years).

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

	1 . 1 . 1	/
nremiiim	liabilities	(50005)

premammabmae	premiam nazmines (40003)						
_	amt	%					
unearned prem	25,792	93.2%					
prem def/(dpac)	(607)	(2.2%)					
M/S apv adjust.	2,496	9.0%					
M/S total	27,681	100.0%					

policy liabilities (\$000s)

	amt	%
claim	59,196	63.1%
premium	25,185	26.8%
M/S apv adjust.	9,423	10.0%
M/S total	93.804	100.0%

2 Activity During the Month of October 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 Report⁴.

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



Nova Scotia RSP Actual vs Projected Summary: Recorded Transaction Amounts (\$ thousands	Nova Scotia RSF	Actual vs Projected Summary:	Recorded Transaction Amounts	(\$ thousands)
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Table 01	Earned Premium		Paid Indemnity &		Case increase /		Recorded increase /	
			Allowed Cla	ims Expense	(decr	ease)	(decrease)	
Accident	Actual	Actual less	Actual	Actual less	Actual	Actual less	Actual	Actual less
Year	Actual	Projected	Actual	Projected	Actual	Projected	Actual	Projected
Prior	(10)	(10)	420	155	(261)	(18)	160	138
2018	(26)	(26)	130	(24)	(146)	(38)	(16)	(62)
2019	(18)	(18)	49	(191)	133	147	182	(44)
2020	3,615	11	930	(267)	490	(406)	1,420	(673)
TOTAL	3,561	(43)	1,529	(327)	216	(315)	1,745	(641)

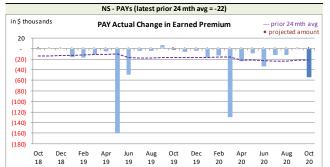
(Recorded transaction amounts exclude IBNR & other actuarial provisions)

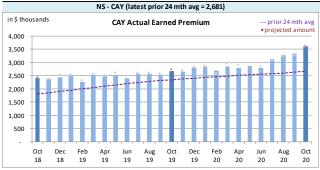
Claims transaction activity is generally volatile and changes from one month to the next are anticipated due to this natural "process variance" (i.e. random variation), and this is particularly true where volumes are low as found in this RSP. Each month, the projection variances are reviewed for signs 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**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.

Nova Scotia 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 \$ thousands							
Earned Premium	PAYs	CAY					
Mthly Avg EP Chg (prior 24 mths)	(22)	2,681					
std dev	40	276					
A-P <> std dev	6	-					
% <> std dev	24.0%	0.0%					
norm <> std dev	31.7%	31.7%					
performance vs 24-mth avg:	better	better					

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

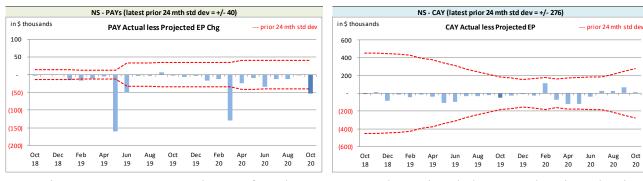
⁵Premium is earned on a daily basis based on the transaction term measured in days. As a result, months with 31 days earned relatively more than those with 30 days, and February earns the least.



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.

The PAY **earned premium** variance was outside the one standard deviation band this month (see preceding chart on the left) the lower projected recorded activity was reviewed, and attributed to system sweep activity undertaken by two members in responding to audit findings.

Nova Scotia RSP Actual vs. Projected Summary: Earned Premium Variances by Calendar Month

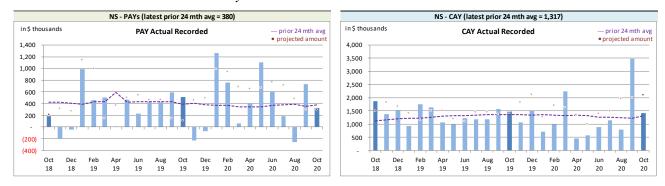


We project **earned premium** changes from known unearned premium balances and projected written premium levels, but upload the total projections as current accident year (CAY). This process has generated prior accident years' (PAYs) bias⁶, with actuals generally lower than projected, although the magnitude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

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.

Nova Scotia RSP Actual Recorded by Calendar Month



Recorded activity variances from the previous month's projections are shown in the following charts,

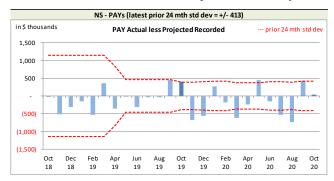
⁶The PAYs' variances will show bias as the projection upload forces all earned premium projections to be attributed to the CAY.

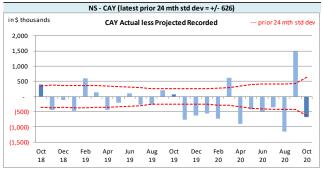
⁷We measure bias based on a 95% confidence range for a binominal distribution with trials based on the range being considered (25 in this case) and 50% probability of success. The rolling 25-month CAY variances at October 2020 has only 6 months where the actuals were higher than projected, and as the 95% confidence range is 8 to 17, bias continues to be indicated.



including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

Nova Scotia RSP Actual vs Projected Summary: Recorded Variances by Calendar Month





On Latest	\$ thousand	S
Recorded	PAYs	CAY
Mthly Avg Recorded (prior 24 mths)	380	1,317
std dev	413	626
A-P <> std dev	8	17
% <> std dev	32.0%	68.0%
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 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 the preceding table), 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 been indicated at a 95% confidence level on a rolling 25-month basis (7 of 25 variances are positive).

The current accident year (CAY) **recorded** variances fell outside of one standard deviation 68% of the time over the last 25 calendar months (see preceding table on the left), suggesting that the projection process has performed worse than simply projecting the prior 24-month average amount. We are considering ways to improve our projection process as a result, but efforts so far have fallen short. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (8 of 25 variances are positive).

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. 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), and part will also reflect the maturity level of the RSP.



Oct

NS - PAYs (latest prior 24 mth avg = 15,333) NS - CAY (latest prior yr = 25,067) in \$ thousands in \$ thousands -- prior 24 mth ave **CAY Ending YTD Earned Premium PAY Beginning IBNR** 35,000 30.000 30.000 25,000 25,000 20,000 20,000 15.000 15,000 10.000 10,000 5,000 5,000 NS - PAYs (latest prior 24 mth avg = 2.3%) NS - CAY (latest prior 24 mth avg = 11.8%) -- prior 24 mth avg projected amount PAY Recorded as % of Beginning IBNR prior 24 mth avg CAY Recorded as % CAY YTD Earned Premium 8 0% 60.0% 50.0% 6.0% 4.0% 40.0% 2.0% 30.0% 20.0% 0.0% (2.0%) 10.0% 0.0%

Nova Scotia RSP Levels that influence⁸ **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

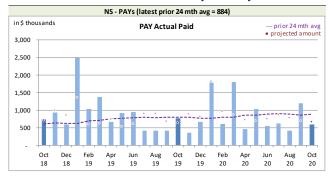
Aug Oct Dec Feb Apr

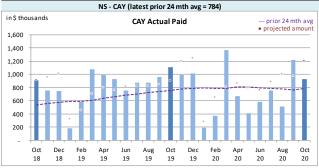
The following charts show actual **paid** activity in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

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.



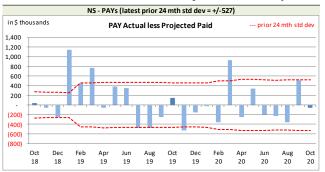
Nova Scotia RSP Actual Paid by activity Calendar Month

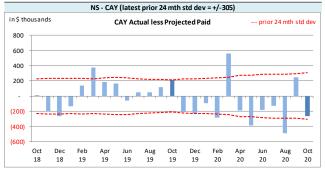




Paid activity variances from the previous month's projections are shown in the following charts, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

Nova Scotia RSP Actual vs Projected Summary: Paid Variances by Calendar Month





On Latest \$ thousands						
Paid	PAYs	CAY				
Mthly Avg Paid (prior 24 mths)	884	784				
std dev	527	305				
A-P <> std dev	6	8				
% <> std dev	24.0%	32.0%				
norm <> std dev	31.7%	31.7%				
performance vs 24-mth avg:	better	no better				

With respect to **paid** 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) 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 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).

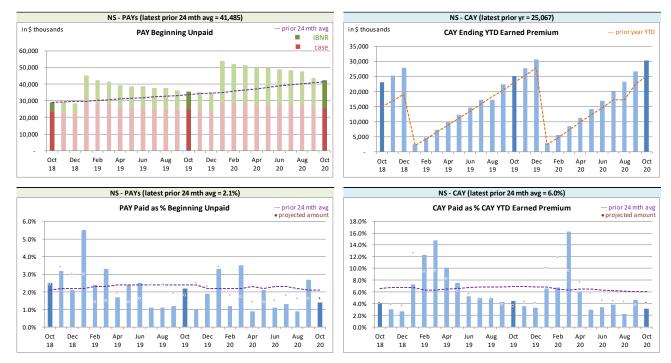
The current accident year (CAY) **paid** variances fell outside of one standard deviation 32% of the time over the last 25 calendar months (see the preceding table), suggesting that the projection process has performed no better than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (11 of 25 variances are positive).

We have included, for reference, the following charts related to levels influencing **paid** activity. Both case and IBNR increases contribute to the increase of PAY beginning unpaid. This is somewhat



expected, given the maturity level of the RSP.

Nova Scotia RSP Levels that influence 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:

- 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 IBNR¹⁰, 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

⁹Our 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".



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

Nova Scotia RSP Actual vs Projected Summary: IBNR and APV Amounts (\$ thousands)

Table 02			actua	arial present v						
	IBI	ND.	Discount Amount		Diagonal Amazonat		Provisions	for Adverse	IBNR + actua	arial present
	IDI	NI.			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	738	(147)	(66)	1	1,765	(16)	2,437	(162)		
2018	4,643	40	(51)	-	1,293	-	5,885	40		
2019	11,078	27	(96)	(2)	2,042	23	13,024	48		
2020	13,755	682	(136)	(2)	2,412	35	16,031	715		
TOTAL	30,214	602	(349)	(3)	7,512	42	37,377	641		

The IBNR provision is \$0.6 million higher than projected from last month, counterbalancing the recorded claims activity and adjusting for the earned premium variance impacts indicated in section 2.1, and due to the valuation implementation.

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

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

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

The following table summarizes the variances in the provisions for premium deficiency liability / (deferred policy acquisition cost asset) included this month's Operational Report and the one-month projections from last month's Report. This RSP is in a premium deficiency position (shown as a negative amount) prior to and after actuarial present value adjustments. Actuarial present value adjustments increase the liability 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 the valuation implementation.



Nova Scotia RSP Actual vs Projected Summary: Premium Deficiency / (DPAC) Amounts (\$ thousand	Nova Scotia	RSP Actual v	s Projected Summary	: Premium Deficiency	/ (DPAC) Amounts	(\$ thousands
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Table 03		Premium D (Deferre Acquisitio	d Policy	actuarial pr adjust		Premium Deficiency / (DPAC) including actuarial present value adjustments	
		Actual less		Actual	Actual less	Actual	Actual less
		Actual	Projected	Actual	Projected	Actual	Projected
	balance:	(621)	(10)	2,540	67	1,919	57
	balance as % unearned premium:	(2.4%)	-	9.8%	-	7.4%	-

actual unearned premium: 25,792 less projected: 684

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 following table 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 88.6% rather than 87.7% (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 Nova Scotia 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.



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

Table 04	YTD Nominal Values		YTD actuarial pi adjustn		YTD To	tal	Change from P YTD	
	Amount	% EP	Amount	% EP	Amount	% EP	Amount	LR pts
PAYs	(5,143)	(17.2%)	145	0.5%	(4,998)	(16.7%)	(2,393)	(6.8%)
CAY	26,480	88.6%	2,285	7.6%	28,765	96.2%	3,495	0.2%
TOTAL	21,338	71.4%	2,430	8.1%	23,768	79.5%	1,102	(6.6%)

("% 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, and due to the valuation implementation.

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

5 Current Operational Report – Additional Exhibits

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

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

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

The ultimate loss ratios detailed in section 6, Exhibit B, refer to the estimates derived on the basis of various actuarial methodologies applied to the experience of the Nova Scotia 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	Amounts in \$000s								
IBNR + M/S actuarial present	Accident	Actual	Actual	Projected	Projected	Projected			
value adjustments	Year	Sep. 2020	Oct. 2020	Nov. 2020	Dec. 2020	Dec. 2021			
	2007	(1)	(1)	(1)	(1)	(1)			
	2008	9	(3)	(3)	(3)	(3)			
	2009	12	12	12	12	11			
	2010	4	4	4	4	4			
	2011	4	4	4	4	4			
	2012	29	58	57	56	48			
	2013	208	139	138	136	114			
	2014	130	86	86	86	71			
discount rate	2015	322	219	217	216	181			
0.19%	2016	386	540	532	505	414			
	2017	1,545	1,372	1,358	1,313	962			
interest rate margin	2018	5,910	3,786	3,652	3,531	2,520			
25 basis pts	2019	13,231	12,855	12,496	12,160	8,548			
	2020	14,026	16,101	17,587	19,070	13,692			
	TOTAL	35,815	35,172	36,139	37,089	49,563			
	Change		(643)	967	950				

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



EXHIBIT B

IBNR

	.=	IBNK						
TABLE EXHIBIT B				Amount	s in \$000s			
IBNR	Ultimate	Accident	Actual	Actual	Projected	Projected	Projected	
	Loss Ratio	Year	Sep. 2020	Oct. 2020	Nov. 2020	Dec. 2020	Dec. 2021	
	53.9%	2007	(1)	(1)	(1)	(1)	(1)	
	68.2%	2008	8	(3)	(3)	(3)	(3)	
	63.8%	2009	5	5	5	5	5	
	73.4%	2010	4	4	4	4	4	
	90.1%	2011	4	4	4	4	4	
	102.4%	2012	(26)	-	-	-	-	
	89.6%	2013	54	(9)	(9)	(9)	(8)	
	85.0%	2014	1	(18)	(17)	(16)	(15)	
	88.6%	2015	53	(35)	(34)	(33)	(28)	
	96.4%	2016	57	206	204	198	156	
	89.3%	2017	748	577	571	554	388	
	79.0%	2018	4,649	2,773	2,657	2,564	1,711	
	95.5%	2019	11,277	10,926	10,598	10,280	7,032	
	87.7%	2020	12,012	13,816	15,056	16,291	11,521	
		TOTAL	28,845	28,245	29,035	29,838	39,774	
		Change		(600)	790	803		

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 Sep. 2020	Actual Oct. 2020	Projected Nov. 2020	Projected Dec. 2020	Projected Dec. 2021			
(1) unearned premium (UP)	24,109	25,792	26,178	25,581	31,079			
FOR MEMBER SHARING								
(2) expected future costs ratio {% of (1)}	105.8%	107.3%	108.9%	110.7%	114.6%			
(3) expected future costs {(1) x (2)}	25,510	27,681	28,517	28,322	35,623			
(4) premium deficiency / (deferred policy								
acquisition cost)	1,401	1,889	2,339	2,741	4,544			
Excluding Actuarial Present Value Adjustments								
(5) expected future costs ratio {% of (1)}	96.1%	97.6%	99.1%	100.7%	104.3%			
(6) expected future costs {(1) x (5)}	23,171	25,185	25,945	25,767	32,409			
(7) premium deficiency / (deferred policy								
acquisition cost)	(938)	(607)	(233)	186	1,330			



EXHIBIT D

Projected Year-end Policy Liabilities

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

Nova Scotia	Projected Balances as at Dec. 31, 2020 (\$000s)									
ending 2020		nominal value:	3		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	-	(1)	(1)	-	-	-	-	-	-	(1)
2008	-	(3)	(3)	-	-	-	-	-	-	(3)
2009	66	5	71	-	-	7	-	7	7	78
2010	-	4	4	-	-	-	-	-	-	4
2011	-	4	4	-	-	-	-	-	-	4
2012	564	-	564	(2)	2	56	-	56	56	620
2013	1,462	(9)	1,453	(4)	4	145	-	145	145	1,598
2014	1,039	(16)	1,023	(3)	3	102	-	102	102	1,125
2015	2,529	(33)	2,496	(7)	7	250	(1)	249	249	2,745
2016	2,885	198	3,083	(9)	9	308	(1)	307	307	3,390
2017	5,746	554	6,300	(25)	25	762	(3)	759	759	7,059
2018	5,336	2,564	7,900	(39)	39	972	(5)	967	967	8,867
2019	5,079	10,280	15,359	(77)	77	1,889	(9)	1,880	1,880	17,239
PAYs (sub-total):	24,706	13,547	38,253	(166)	166	4,491	(19)	4,472	4,472	42,725
CAY (2020)	7,405	16,291	23,696	(142)	142	2,796	(17)	2,779	2,779	26,475
claims liabilities:	32,111	29,838	61,949	(308)	308	7,287	(36)	7,251	7,251	69,200
	Unearned Premium	Premium Deficiency / (DPAC)	Total Provision	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL*
premium liabilities:	25,581	186	25,767	(127)	127	2,568	(13)	2,555	2,555	28,322
						*	Total may not be s	um of parts, as ap	ovs apply to future	costs within UPR
policy liabilities:			87,716	(435)	435	9,855	(49)	9,806	9,806	97,522



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
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%	10.0%	10.0%
2017	12.5%	10.0%	5.6%	12.1%
2018	12.5%	10.0%	9.7%	12.3%
2019	12.5%	10.0%	10.7%	12.3%
2020	12.4%	10.0%	5.3%	11.8%
2021	12.0%	10.0%	5.1%	10.1%
			_ _	
prem liab	12.0%	10.0%	5.1%	10.1%

discount rate: 0.19% 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 (0.19%), the prior valuation assumption (0.23%) and the prior fiscal year end valuation assumption (1.46%) for comparative purposes. A 25 basis point margin for investment return adverse deviation is used in all scenarios presented.

Ś	Format:	\$000s

		rial Dracant Va	lun of Dunistati		D'			La caracteria	
	Actuarial Present Value of Provisions at Various Discount Rates - Dec. 31, 2020 projected Unpaid							Inpaid	
AY	0.00%	0.00%	0.19%	0.69%	1.19%	1.69%	0.23%	1.46%	
2007	-	-	-	-	-	-	-	-	
2008		-	-	-	-		-		
2009	69	69	69	68	68	68	69	68	
2010			-		-			<u> </u>	
2011	-	-	-	-	-	-	-	-	
2012	549	549	549	545	541	536	549	538	
2013	1,492	1,492	1,491	1,480	1,467	1,455	1,491	1,460	
2014	970	970	969	962	955	947	969	951	
2015	2,559	2,559	2,558	2,541	2,522	2,503	2,558	2,512	
2016	3,431	3,431	3,430	3,403	3,375	3,346	3,429	3,359	
2017	6,797	6,797	6,794	6,733	6,666	6,601	6,794	6,630	
2018	8,867	8,867	8,862	8,768	8,665	8,564	8,862	8,610	
2019	16,972	16,972	16,963	16,750	16,518	16,292	16,961	16,396	
2020	25,179	25,179	25,163	24,809	24,425	24,052	25,161	24,221	
Total	66,885	66,885	66,848	66,059	65,202	64,364	66,843	64,745	
	curr - 100 bp	curr - 50 bp	curr val	curr + 50bp	curr + 100bp	curr + 150bp	prior val	prior fyr end	
			assumption				assumption	assumption	
			Dollar imi	act Relative to	o valuation As	sumption			
ΔΥ	0.00%	0.00%		0.69%	1 19%	1 69%	ი 23%	1 46%	
AY Total	0.00%	0.00%	0.19%	0.69%	1.19%	1.69%	0.23%	1.46%	
AY Total	37	37	0.19%	(789)	(1,646)	(2,484)	(5)	(2,103	
			0.19% - curr val	(789) curr + 50bp		(2,484)	(5) prior val	(2,103) prior fyr end	
	37	37	0.19%	(789) curr + 50bp	(1,646)	(2,484)	(5) prior val	(2,103 prior fyr end	
	37	37	0.19% - curr val assumption	(789) curr + 50bp	(1,646) curr + 100bp	(2,484) curr + 150bp	(5) prior val	(2,103 prior fyr end	
	37	37	0.19% - curr val assumption	(789) curr + 50bp	(1,646) curr + 100bp	(2,484) curr + 150bp	(5) prior val	(2,103 prior fyr end	
Total	37 curr - 100 bp	37 curr - 50 bp	0.19% - curr val assumption Percentage I	(789) curr + 50bp mpact Relative	(1,646) curr + 100bp e to Valuation	(2,484) curr + 150bp Assumption	(5) prior val assumption	(2,103 prior fyr end assumption	
Total	37 curr - 100 bp	37 curr - 50 bp	0.19% - curr val assumption Percentage I	(789) curr + 50bp mpact Relative	(1,646) curr + 100bp e to Valuation	(2,484) curr + 150bp Assumption	(5) prior val assumption	(2,103 prior fyr end assumption	
AY 2007	37 curr - 100 bp	37 curr - 50 bp	0.19% - curr val assumption Percentage I	(789) curr + 50bp mpact Relative	(1,646) curr + 100bp e to Valuation	(2,484) curr + 150bp Assumption	(5) prior val assumption	(2,103 prior fyr end assumption 1.46%	
AY 2007 2008	37 curr - 100 bp	37 curr - 50 bp	0.19% - curr val assumption Percentage I	(789) curr + 50bp mpact Relative 0.69% -	(1,646) curr + 100bp e to Valuation 1.19%	(2,484) curr + 150bp Assumption 1.69%	(5) prior val assumption	(2,103 prior fyr end assumption 1.46%	
AY 2007 2008 2009	37 curr - 100 bp	37 curr - 50 bp	0.19% - curr val assumption Percentage I	(789) curr + 50bp mpact Relative 0.69% -	(1,646) curr + 100bp e to Valuation 1.19%	(2,484) curr + 150bp Assumption 1.69%	(5) prior val assumption	(2,103 prior fyr end assumption 1.46%	
AY 2007 2008 2009 2010	37 curr - 100 bp	37 curr - 50 bp	0.19% - curr val assumption Percentage I	(789) curr + 50bp mpact Relative 0.69% -	(1,646) curr + 100bp e to Valuation 1.19%	(2,484) curr + 150bp Assumption 1.69%	(5) prior val assumption	(2,103 prior fyr enc assumption 1.46%	
AY 2007 2008 2009 2010 2011	37 curr - 100 bp	37 curr - 50 bp	0.19% - curr val assumption Percentage I	(789) curr + 50bp mpact Relative 0.69% (1.4%)	(1,646) curr + 100bp e to Valuation 1.19% - (1.4%)	(2,484) curr + 150bp Assumption 1.69%	(5) prior val assumption	(2,103 prior fyr end assumption 1.46% - (1.4%	
AY 2007 2008 2009 2010 2011 2012	37 curr - 100 bp	0.00%	0.19% - curr val assumption Percentage I	(789) curr + 50bp mpact Relative 0.69% (1.4%) (0.7%)	(1,646) curr + 100bp e to Valuation 1.19% - (1.4%) - (1.5%)	(2,484) curr + 150bp Assumption 1.69% - (1.4%) - (2.4%)	(5) prior val assumption	(2,103 prior fyr end assumption 1.46% - (1.4% - - (2.0% (2.1%	
AY 2007 2008 2010 2011 2012 2013	37 curr - 100 bp	0.00%	0.19% - curr val assumption Percentage I	(789) curr + 50bp mpact Relative 0.69%	(1,646) curr + 100bp e to Valuation 1.19% (1.4%) (1.5%) (1.6%)	(2,484) curr + 150bp Assumption 1.69% - (1.4%) - (2.4%) (2.4%)	(5) prior val assumption	(2,103 prior fyr end assumption 1.46% - (1.4% - (2.0% (2.1% (1.9%	
AY 2007 2008 2009 2010 2011 2012 2013 2014	0.00% 0.00% 0.01% 0.1%	37 curr - 50 bp	0.19% - curr val assumption Percentage I	(789) curr + 50bp mpact Relativ. 0.69%	(1,646) curr + 100bp e to Valuation 1.19% (1.4%) (1.5%) (1.6%) (1.4%)	(2,484) curr + 150bp Assumption 1.69% (1.4%) (2.4%) (2.4%) (2.3%)	(5) prior val assumption	(2,103 prior fyr enc assumption 1.46% (1.4% (2.0% (2.1% (1.9% (1.8%	
AY 2007 2008 2009 2011 2012 2013 2014 2015	0.00% 0.1% 0.00%	0.00% 0.00% 0.1% 0.1% 0.0%	0.19% - curr val assumption Percentage I	(789) curr + 50bp mpact Relative 0.69%	(1,646) curr + 100bp e to Valuation 1.19%	(2,484) curr + 150bp Assumption 1.69%	(5) prior val assumption 0.23%	(2,103 prior fyr enc assumption 1.46% (1.4% (2.1% (2.1% (1.9% (1.8% (2.1%	
AY 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	37 curr - 100 bp 0.00%	37 curr - 50 bp	0.19% - curr val assumption Percentage I	(789) curr + 50bp mpact Relative 0.69%	(1,646) curr + 100bp e to Valuation 1.19%	(2,484) curr + 150bp Assumption 1.69% (1.4%) (2.4%) (2.3%) (2.2%) (2.4%)	(5) prior val assumption 0.23%	(2,103 prior fyr enc assumption 1.46% - (1.4% (2.0% (2.1% (1.9% (1.8% (2.1% (2.4%)	
AY 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	0.00% 0.1% 0.0% 0.0% 0.0% 0.0%	37 curr - 50 bp	0.19% - curr val assumption Percentage I	(789) curr + 50bp mpact Relative 0.69%	(1,646) curr + 100bp e to Valuation 1.19% (1.4%) (1.5%) (1.4%) (1.4%) (1.6%) (1.9%)	(2,484) curr + 150bp Assumption 1.69%	(5) prior val assumption 0.23%	(2,103 prior fyr end assumption 1.46%	
AY 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	0.00% 0.1% 0.0% 0.0% 0.1%	0.00%	0.19% - curr val assumption Percentage I	(789) curr + 50bp mpact Relative 0.69%	(1,646) curr + 100bp e to Valuation 1.19% - (1.4%) - (1.5%) (1.6%) (1.4%) (1.6%) (1.9%) (2.2%)	(2,484) curr + 150bp Assumption 1.69% - (1.4%) (2.4%) (2.4%) (2.2%) (2.2%) (2.4%) (3.4%)	(5) prior val assumption 0.23%	(2,103 prior fyr end assumption 1.46% (1.4% (2.0% (2.1% (2.1% (2.1% (2.4% (2.8% (3.3%	
AY 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	37 curr - 100 bp 0.00% 0.1% 0.1% 0.0% 0.0% 0.0% 0.1% 0.1	0.00% 0.00% 0.1% 0.1% 0.0% 0.0% 0.0% 0.1% 0.1%	0.19% - curr val assumption Percentage I	(789) curr + 50bp mpact Relative 0.69%	(1,646) curr + 100bp e to Valuation 1.19% - (1.4%) - (1.5%) (1.6%) (1.4%) (1.4%) (1.9%) (2.2%) (2.6%)	(2,484) curr + 150bp Assumption 1.69%	(5) prior val assumption 0.23% (0.0%)	(2,103 prior fyr end assumption 1.46% 	
AY 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	0.00% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1%	0.00% 0.00% 0.1% 0.0% 0.0% 0.0% 0.0% 0	0.19% - curr val assumption Percentage I	(789) curr + 50bp mpact Relative 0.69%	(1,646) curr + 100bp e to Valuation 1.19% (1.4%) (1.5%) (1.6%) (1.4%) (1.6%) (1.9%) (2.2%) (2.6%) (2.9%)	(2,484) curr + 150bp Assumption 1.69% (1.4%) (2.4%) (2.2%) (2.2%) (2.8%) (3.4%) (4.0%) (4.0%) (4.0%) (3.7%)	(5) prior val assumption 0.23% (0.0%) (0.0%) (0.0%) (0.0%)	(2,103) prior fyr end assumption 1.46% (1.4%) (2.0%) (2.1%) (1.8%) (2.18%) (2.14%) (2.4%) (2.8%) (3.3%) (3.7%)	



EXHIBIT G

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

RSP Nova Scotia
AccountCode Desc IBNR - Discounted M/S 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
2007	(1)	-	-	-	-	-	(1)
2008	9	-	-	(12)	(12)	(133.3%)	(3)
2009	12	-	-	-	-	-	12
2010	4	-	-	-	-	-	4
2011	4	-	-	-	-	-	4
2012	29	-	(1)	30	29	100.0%	58
2013	208	(4)	(4)	(61)	(69)	(33.2%)	139
2014	130	(2)	(42)	-	(44)	(33.8%)	86
2015	322	(6)	(51)	(46)	(103)	(32.0%)	219
2016	386	(9)	82	81	154	39.9%	540
2017	1,545	(28)	(146)	1	(173)	(11.2%)	1,372
2018	5,910	(65)	40	(2,099)	(2,124)	(35.9%)	3,786
2019	13,231	(255)	48	(169)	(376)	(2.8%)	12,855
2020	14,026	1,290	715	70	2,075	14.8%	16,101
Grand Total	35,815	921	641	(2,205)	(643)	(1.8%)	35,172



EXHIBIT G

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

RSP Nova Scotia
AccountCode Desc IBNR - Undiscounted IBNR - in \$000s

	Values						
AccYear	Sum of Prior Month Actual Amount	Sum of Projected Change	Sum of Change Due to AvsP Variances	Sum of Change Due to Valuation Implementation	Sum of Total Change	Sum of % Total Change	Sum of Current Month Final Amount
2007	(1)	-	-	-	-	-	(1)
2008	8	-	-	(11)	(11)	(137.5%)	(3)
2009	5	-	-	-	-	-	5
2010	4	-	-	-	-	-	4
2011	4	-	-	-	-	-	4
2012	(26)	1	(2)	27	26	(100.0%)	-
2013	54	(1)	(6)	(56)	(63)	(116.7%)	(9)
2014	1	-	(19)	-	(19)	(1,900.0%)	(18)
2015	53	(1)	(45)	(42)	(88)	(166.0%)	(35)
2016	57	(1)	76	74	149	261.4%	206
2017	748	(20)	(151)	-	(171)	(22.9%)	577
2018	4,649	(46)	40	(1,870)	(1,876)	(40.4%)	2,773
2019	11,277	(226)	27	(152)	(351)	(3.1%)	10,926
2020	12,012	1,061	682	61	1,804	15.0%	13,816
Grand Total	28,845	767	602	(1,969)	(600)	(2.1%)	28,245