

ONTARIO RISK SHARING POOL DECEMBER 2019 OPERATIONAL REPORT ACTUARIAL HIGHLIGHTS

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ACTUARIAL HIGHLIGHTS

RSP ONTARIO

OPERATIONAL REPORT DECEMBER 2019

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1 Summary

Key Points

(a) The month's claims activities were generally aligned with projections from last month.

1.1 Valuation Schedule (Fiscal Year 2019)

The December 2019 Operational Report leverages actuarial assumptions consistent with last month (that is, it does not reflect the results of an updated valuation). The table below summarizes the implemented valuations for fiscal year 2019.

	ONTARIO RISK SHARING POOL FISCAL YEAR 2019 – SCHEDULE OF VALUATIONS							
Valuation Date	Discount Rate (per annum)	Operational Report	Description of Changes					
Sep. 30, 2018 (completed)	2.22% mfad 25 bp	Oct. 2018	updated valuation (roll forward): accident year 2018 loss ratio <u>increased 0.5</u> points to 127.0%; discount rate <u>increased 39</u> basis points; selected margins for adverse deviations were updated					
Dec. 31, 2018 (completed)	1.88% mfad 25 bp	Mar. 2019	updated valuation: accident year 2019 loss ratio 127.1%; discount rate <u>de</u> creased 34 basis points; no change to selected margins for adverse deviations					
Mar. 31, 2019 (completed)	1.43% mfad 25 bp	May 2019	updated valuation (roll forward): accident year 2019 loss ratio <u>in</u> creased 0.5 points to 127.6%; discount rate <u>de</u> creased 45 basis points; no change to selected margins for adverse deviations					
Jun. 30, 2019 (completed)	mfad 25 bp		updated valuation: accident year 2019 loss ratio decreased 4.6 points to 123.0%; discount rate decreased 3 basis points; selected margins for adverse deviations were updated					
Sep. 30, 2019 (completed)	1.41% mfad 25 bp	Oct. 2019	update valuation (roll forward): accident year 2019 loss ratio <u>de</u> creased 0.7 points to 122.3%; discount rate <u>in</u> creased 1 basis point; no change to selected margins for adverse deviations					

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

1.2 Appointed Actuary and Hybrid Actuarial Services Model

Mr. Cosimo Pantaleo of Ernst & Young LLP (EY) has assumed the Appointed Actuary's role effective as of October 24, 2019, from Liam McFarlane (the Appointed Actuary from June 1, 2013), due to Mr. McFarlane's departure from EY. It is anticipated that Mr. Pantaleo will be formally appointed by the Board at its February 18, 2020 meeting.



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

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

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

Consideration and assessment of potential impacts of legal decisions and changes in legislation / regulation constitutes a regular part of the valuation process. Descriptions of some of the more recent changes are provided below.

Ontario Bill 15 (Fighting Fraud and Reducing Automobile Insurance Rates Act, 2014) was introduced into the Legislature by the Minister of Finance on July 15, 2014 and received Royal Assent on November 20, 2014. Bill 15 includes various amendments and provisions such as moving the Ontario Automobile Dispute Resolution System (DRS) for statutory accident benefits from the Financial Services Commission of Ontario to the Ministry of the Attorney General (Licence Appeal Tribunal), regulation of the Tow and Storage Industry (amendments to the Consumer Protection Act and Repair and Storage Liens Act), regulations related to licensing of insurance agents and adjusters, changes the applicable interest rate applied to overdue payments in the Statutory Accident Benefits Schedule (SABS), and changes to the prejudgment interest rate on general damages for non-pecuniary loss from the rate as set out in the Courts of Justice Act to rates linked to market conditions.

Ontario Bill 91 (Building Ontario Up Act (Budget Measures), 2015) was introduced into the Legislature by the Minister of Finance on April 23, 2015 and received Royal Assent on June 4, 2015. Bill 91 announced a number of amendments to regulations made under the Insurance Act, including: updating the Catastrophic Impairment Definition and changes to the standard benefit level under the Statutory Accident Benefits Schedule (SABS); restrictions on insurance premium increases and lowering of the maximum interest rate charged on monthly auto insurance premium payments; and adjustments to the monetary threshold beyond which the tort deductible does not apply to reflect inflation (adjustments to reflect inflation in the associated tort deductible were undertaken via an update to regulation 461/96). On August 26, 2015, the Ontario government filed Ontario regulations 250/15 and 251/15 implementing reforms set out in Bill 91. With the most recent valuation (September 30, 2019), reform adjustments (originally introduced with the September 30, 2015 valuation) specifically related to changes to the SABS impacting the bodily injury and accident benefits coverages, were included with the updated industry trend analysis (completed using industry data as at December 31, 2018), impacting the selection of ultimates.

1.4 Harmonized Sales Tax Class Action - Ontario

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

Since the end of October 2018, class action lawsuits have been brought against multiple insurers related to HST and limits / sub-limits of benefits per the Statutory Accident Benefits Schedule and FSCO's Professional Services Guideline as part of claims settlement practices in Ontario.

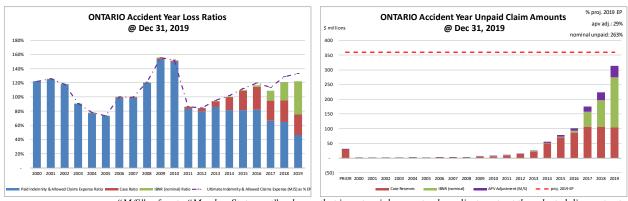
¹This url to a pdf is to a helpful guide on how bills become laws: https://www.ola.org/sites/default/files/common/how-bills-become-law-en.pdf.



At the current time, no adjustments have been made to our valuation estimates, but in conjunction with FA's Appointed Actuary, FA management continues to review and consider the implications of the potential outcomes related to the class action lawsuits. Please contact Shawn Doherty at sdoherty@facilityassociation.com if you need further information.

1.5 Current Provision Summary

The charts below show the current levels of claim liabilities² booked by accident year³. The left chart displays life-to-date payments, case reserves, IBNR, and the total including actuarial present value adjustments against accident year earned premium. The right chart shows the associated dollar amounts for the components of the claim liabilities and the current projected amount of 2019 full year earned premium (the red hash-mark line) to provide some perspective.



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

The current actuarial present value adjustments provision for claims liabilities (\$105.0 million – see table below) represents 29% of the earned premium projected for the full year 2019 (see the upper right corner of the right chart above). If our current estimates of the nominal unpaid amounts prove to match actual claims payments, the actuarial present value adjustments will be released into the net operating result over future periods.

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Claim	แสดเ	mes	こうしししいらい

	amt	%
case	612,540	58.2%
ibnr	334,982	31.8%
M/S apv adjust.	104,951	10.0%
M/S total	1,052,473	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 78% of the IBNR balance relates to accident years 2018 and 2019 (see Exhibit B). Approximately 85% of the M/S total claim

liabilities are related to accident years 2015-2019 inclusive (i.e. the most recent 5 accident years), and approximately 4% is related to accident years 2009 and prior (i.e. prior to the most recent 10 accident years).

²Claim liabilities refer to provision for unpaid indemnity and allowed claims expenses. Allowed claims expenses are first party legal and other expenses as listed in the RSP Claims Guide. Claims expenses paid through the member company expense allowance are NOT included in this discussion.

³The loss ratio chart has been limited to show the most recent 20 accident years; the unpaid provision chart has been limited to show the most recent 20 accident years, and show all accident years older than 20 years collectively as "PRIOR".



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

premium liabilities (\$000s)		policy liabilities (\$000s)				
	amt	%		amt	%		
unearned prem	230,148	72.3%	claim	947,522	69.1%		
prem def/(dpac)	58,457	18.4%	premium	288,605	21.1%		
M/S apv adjust.	29,836	9.4%	M/S apv adjust.	134,787	9.8%		
M/S total	318,441	100.0%	M/S total	1,370,914	100.0%		

2 Activity During the Month of December 2019

2.1 Recorded Premium and Claims Activity

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

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

Table 01	Earned Premium		Paid Indemnity &		Case increase / (decrease)		Recorded increase /	
			Allowed Claims Expense		(decr	ease)	(decrease)	
Accident	Actual	Actual less	Actual	Actual less	Actual	Actual less	Actual	Actual less
Year	Projected	Projected	Actual	Projected	Actual	Projected	Actual	Projected
Prior	10	10	10,047	(528)	(2,975)	6,268	7,072	5,740
2017	(5)	(5)	2,862	(1,953)	(1,672)	525	1,190	(1,428)
2018	(15)	(15)	4,231	200	(3,947)	(5,402)	284	(5,202)
2019	35,679	152	19,379	4,854	9,434	(5,076)	28,812	(223)
TOTAL	35,669	142	36,519	2,573	840	(3,686)	37,358	(1,113)

(Recorded transaction amounts exclude IBNR & other actuarial provisions)

It is unusual to see actual earned premium transactions affecting prior accident years by this time in the calendar year – the prior accident years changes in the month reflect activity undertaken by a member reflecting recent audit findings.

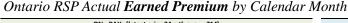
Claims transaction activity is generally volatile and changes from one month to the next are anticipated due to this natural "process variance" (i.e. random variation). Each month, the projection variances are reviewed for signs of projection bias and to identify potential ways to reduce the level of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

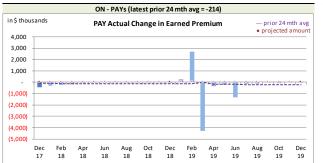
2.1.a Actual vs. Projected (AvsP): Earned Premium

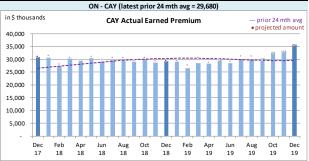
The charts at the top of the next page show actual **earned premium**⁵ activity in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

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

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.



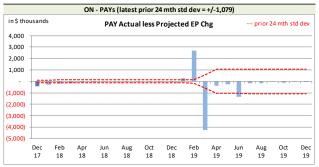


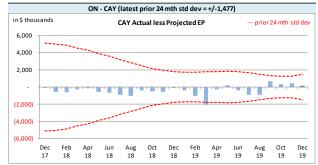


Earned premium changes during a given calendar month in relation to prior accident years tend to be at modest levels (note the different scales in the charts above), although relatively high levels generally occur at the beginning of each year.

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

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





On Latest		
Earned Premium	PAYs	CAY
Mthly Avg EP Chg (prior 24 mths)	(214)	29,680
std dev	1,079	1,477
A-P <> std dev	8	1
% <> std dev	32.0%	4.0%
norm <> std dev	31.7%	31.7%
performance vs 24-mth avg:	no better	better

We project **earned premium** changes from known unearned premium and projected written premium levels, but upload the total projections as current accident year (CAY). This process has generated prior accident years' (PAYs) bias⁶, with actuals generally lower than 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

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 December 2019 has only 5 months where the actuals were higher than projected, and as the 95% confidence range is 8 to 17, bias continues to be indicated.

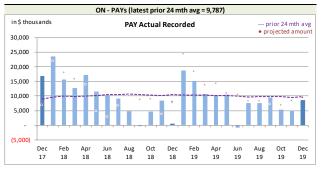


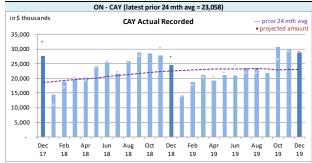
approaches to narrow monthly variance levels further, but it is not currently deemed a priority. Readers will also note the significant widening then tapering of the CAY standard deviation band, reflecting significant volume changes and the impact as those changes were earned.

2.1.b AvsP: Recorded Indemnity & Allowed Claims Expense

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

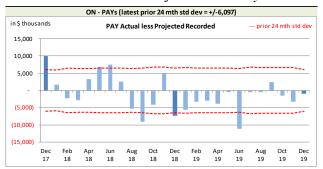
Ontario RSP Actual Recorded by Calendar Month

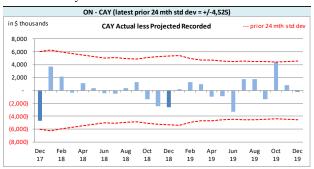




Recorded activity variances from the previous month's projections are shown in the charts below, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

Ontario RSP Actual vs Projected Summary: Recorded Variances by Calendar Month





On Latest \$		
Recorded	PAYs	CAY
Mthly Avg Recorded (prior 24 mths)	9,787	23,058
std dev	6,097	4,525
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

With respect to **recorded** indemnity & allowed claims expense, 24% of the prior accident years' (PAYs) variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **recorded** amounts (see table on 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 (8 of 25 variances were positive), but on a lagging 12-month basis, bias is indicated (1 of latest 12 variances have been positive; we have made some adjustments to address this, but more appears to be needed).

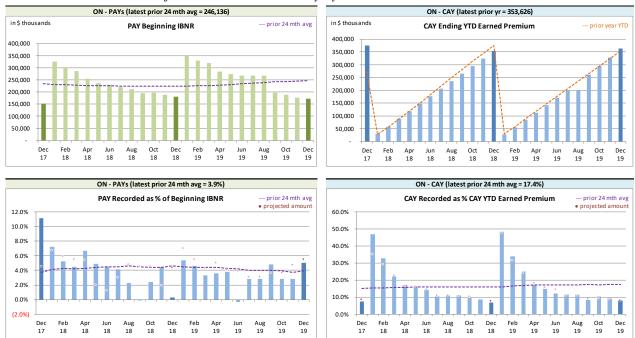


The current accident year (CAY) **recorded** variances (right lower chart at the bottom of the previous page) fell outside of one standard deviation 0% of the time over the last 25 calendar months suggesting that the projection process has performed better than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (13 of 25 variances were positive).

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

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





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

- to offset actual **recorded** activity (through loss ratio matching);
- the annual switchover as a 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).

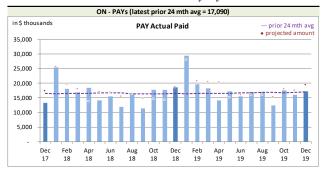
⁸Our recorded activity projections for the prior accident years are based on selected ratios of recorded activity to beginning unpaid balances, whereas the current accident year projections are based on selected ratios of year-to-date IBNR to year-to-date selected ultimate (i.e. selected LR x earned 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.

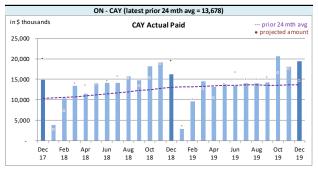


2.1.c AvsP: Paid Indemnity & Allowed Claims Expense

The charts below 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.

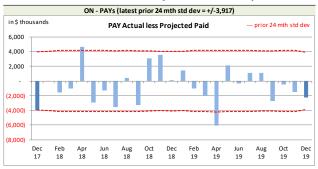
Ontario RSP Actual Paid activity by Calendar Month





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

Ontario RSP Actual vs Projected Summary: Paid Variances by Calendar Month





On Latest S	On Latest \$thousands				
Paid	PAYs	CAY			
Mthly Avg Paid (prior 24 mths)	17,090	13,678			
std dev	3,917	4,062			
A-P <> std dev	2	3			
% <> std dev	8.0%	12.0%			
norm <> std dev	31.7%	31.7%			
performance vs 24-mth avg:	better	better			

With respect to **paid** indemnity & allowed claims expense, 8% of the prior accident years' (PAYs) variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **paid** amounts (see table on 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 (9 of 25 variances are positive).

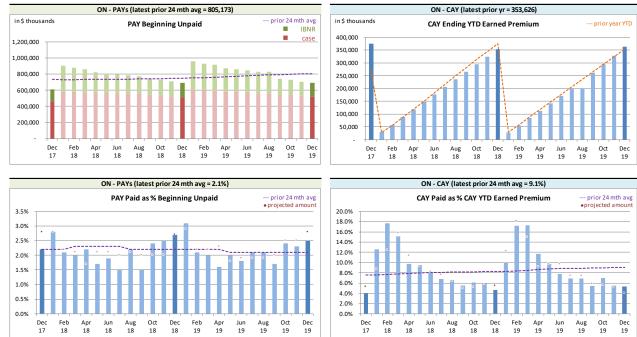
The current accident year (CAY) **paid** variances fell outside of one standard deviation 12% of the time over the last 25 calendar months (see table above), suggesting the projection process has performed better than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (12 of 25 variances are positive).



The CAY **paid** variance was outside of the one standard deviation band this month (see right chart at the bottom of the previous page). The activity was reviewed and verified, and attributed to process variance.

We have included, for reference, additional charts below related to levels influencing **paid** activity.

Ontario RSP Levels that influence⁹ 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 chart above) 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) is used to determine the month's IBNR¹⁰, and factors are applied to the nominal unpaid claims liability (case plus IBNR) to determine

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".



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 projections and actuals were based on the applicable valuation.

The table below summarizes variances in provisions included in this month's Operational Report and the associated one-month projections from last month's Report.

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

Table 02	ble 02 actuarial present value adjustments							
	IDI	ND	Discount Amount		Provisions	for Adverse	IBNR + actua	arial present
	IDI	IBNR		Discount Amount		ations	value adj	ustments
Accident	Actual	Actual less	Actual	Actual less	Actual	Actual less	Actual	Actual less
Year	Actual	Projected	Actual	Projected	Actual	Projected	Actual	Projected
Prior	21,243	(5,728)	(13,053)	(16)	34,897	63	43,087	(5,681)
2017	51,169	1,422	(5,675)	(70)	23,740	294	69,234	1,646
2018	91,133	5,183	(8,089)	9	34,303	(39)	117,347	5,153
2019	171,437	408	(11,833)	201	50,661	(859)	210,265	(250)
TOTAL	334,982	1,285	(38,650)	124	143,601	(541)	439,933	868

The IBNR provision is \$1.3 million higher than projected from last month, counterbalancing the recorded claims activity and adjusting for the earned premium variance impacts indicated in section 2.1.

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

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

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

The table at the top of the next page summarizes the variances in the provisions for premium deficiency liability / (deferred policy acquisition cost asset) included in this month's Operational Report and the one-month projections from last month's Report. This RSP is in a premium deficiency position (shown as a positive 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.



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

Table 03		Premium Deficiency / (Deferred Policy Acquisition Costs)		actuarial present value adjustments		Premium Deficiency / (DPAC) including actuarial present value adjustments	
		Actual	Actual less	Actual	Actual less	Actual	Actual less
			Projected		Projected		Projected
	balance:	58,457	2,378	29,836	1,237	88,293	3,615
	balance as % unearned premium:	25.4%	-	13.0%	-	38.4%	-

actual unearned premium: 230,148 less projected: 9,537

3 Ultimate Loss Ratio Matching Method

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

- (a) Earned premium to-date
- (b) Ultimate loss¹¹ ratio per latest valuation
- (c) Estimated ultimate incurred = (a) x (b)
- (d) Recorded indemnity & allowed claims expense to-date
- (e) IBNR = (c) (d)

4 Calendar Year-to-Date Results

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

In calculating the amounts as percentages of earned premium, the calendar year-to-date earned premium has been used, which includes 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 123.5% rather than 122.3% (the valuation ultimate ratio for accident year 2019), as the calendar year-to-date earned premium includes prior accident year earned premium adjustments. (Note that the ratios in this table may differ slightly from those shown in the Ontario RSP Summary of Operations due to rounding.)

¹¹"Loss" here refers to indemnity and allowed claims expenses, but does not include the claims expense allowance included in member company overall expense allowances ("Expense Allowance" in the Operational Report).

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



Table 04	YTD Nomina	YTD Nominal Values		YTD actuarial present value adjustment		tal	Change from Prior Month YTD	
	Amount	% EP	Amount	% EP	Amount	% EP	Amount	LR pts
PAYs	(78,927)	(21.9%)	(16,000)	(4.4%)	(94,927)	(26.4%)	(1,592)	2.4%
CAY	444,415	123.5%	38,828	10.8%	483,243	134.3%	47,056	(0.3%)
TOTAL	365,488	101.6%	22,828	6.3%	388,316	107.9%	45,464	2.1%

("% EP" based on 2019 calendar year-to-date earned premium; ratios may not total due to rounding)

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

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

5 Current Operational Report – Additional Exhibits

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

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

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

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

6 EXHIBITS

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

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

EXHIBIT B IBNR

EXHIBIT C Premium Liabilities

EXHIBIT D Projected Year-end Policy Liabilities

EXHIBIT E Discount Rate & Margins for Adverse Deviations

EXHIBIT F Interest Rate Sensitivity

EXHIBIT G Components of IBNR Change During Month



EXHIBIT A

IBNR for Member Sharing – includes Actuarial Present Value Adjustments

TABLE EXHIBIT A	Amounts in \$000s								
TABLE EXTIIBIT A			Amoun	13 111 20003					
IBNR + M/S actuarial present	Accident	Actual	Actual	Projected	Projected	Projected			
value adjustments	Year	Nov. 2019	Dec. 2019	Jan. 2020	Feb. 2020	Dec. 2020			
	prior	1,940	1,741	2,115	2,071	1,604			
	2000	14	14	14	14	12			
	2001	49	49	51	50	39			
	2002	70	70	69	67	52			
	2003	122	465	462	448	350			
	2004	282	283	285	278	217			
	2005	304	304	303	294	230			
	2006	605	604	613	595	467			
	2007	476	484	489	476	371			
	2008	1,266	1,317	1,312	1,274	999			
	2009	1,897	1,825	1,812	1,758	1,378			
	2010	2,533	2,482	2,405	2,334	1,828			
	2011	1,465	1,425	1,291	1,253	979			
	2012	1,155	(318)	(411)	(394)	(312)			
	2013	4,010	4,217	3,959	3,850	3,007			
discount rate	2014	5,321	5,422	4,734	4,618	3,598			
1.41%	2015	9,513	8,091	7,357	7,179	5,592			
	2016	19,811	14,612	14,030	13,498	9,726			
interest rate margin	2017	70,758	69,234	65,846	63,578	42,686			
25 basis pts	2018	118,215	117,347	113,847	108,946	73,853			
	2019	192,021	210,265	197,463	188,730	134,628			
	2020	<u> </u>	<u> </u>	34,165	63,346	275,139			
	TOTAL	431,827	439,933	452,211	464,263	556,443			
	Change		8,106	12,278	12,052				

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



EXHIBIT B

IBNR

TABLE EVALUELTS	ī	Amounts in \$000s							
TABLE EXHIBIT B				Amount	s in \$000s				
IBNR	Ultimate	Accident	Actual	Actual	Projected	Projected	Projected		
	Loss Ratio	Year	Nov. 2019	Dec. 2019	Jan. 2020	Feb. 2020	Dec. 2020		
	-	prior	100	(86)	(86)	(84)	(68)		
	122.0%	2000	13	13	13	13	11		
	125.8%	2001	9	9	9	9	8		
	117.9%	2002	63	63	62	60	46		
	90.7%	2003	99	442	438	425	332		
	77.7%	2004	227	227	225	218	171		
	73.6%	2005	291	291	288	279	219		
	100.4%	2006	533	533	528	512	402		
	99.9%	2007	423	430	426	413	322		
	120.7%	2008	1,225	1,277	1,264	1,226	962		
	155.6%	2009	1,785	1,716	1,699	1,648	1,292		
	152.0%	2010	2,346	2,296	2,273	2,205	1,727		
	86.3%	2011	1,112	1,074	1,063	1,031	806		
	84.1%	2012	563	(882)	(873)	(847)	(665)		
	94.5%	2013	2,615	2,927	2,898	2,811	2,201		
	100.5%	2014	1,909	2,147	2,126	2,062	1,614		
	109.7%	2015	4,180	2,885	2,856	2,770	2,169		
	116.7%	2016	10,810	5,881	5,469	5,196	3,413		
	108.7%	2017	52,365	51,169	47,587	45,684	28,800		
	121.2%	2018	91,436	91,133	87,488	83,114	52,962		
	122.3%	2019	156,615	171,437	159,436	151,464	103,867		
	125.2%	2020	-	_	28,358	53,147	223,413		
		TOTAL	328,719	334,982	343,547	353,356	424,004		
		Change		6,263	8,565	9,809			

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 Nov. 2019	Actual Dec. 2019	Projected Jan. 2020	Projected Feb. 2020	Projected Dec. 2020	
(1) unearned premium (UP)	230,224	230,148	223,449	218,009	267,394	
FOR MEMBER SHARING						
(2) expected future costs ratio {% of (1)}	137.9%	138.4%	138.4%	138.4%	142.2%	
(3) expected future costs {(1) x (2)}	317,476	318,441	309,208	301,801	380,305	
(4) premium deficiency / (deferred policy						
acquisition cost)	87,252	88,293	85,759	83,792	112,911	
Excluding Actuarial Present Value Adjustments						
(5) expected future costs ratio {% of (1)}	125.0%	125.4%	125.4%	125.5%	128.9%	
(6) expected future costs {(1) x (5)}	287,731	288,605	280,237	273,524	344,671	
(7) premium deficiency / (deferred policy acquisition cost)	57,507	58,457	56,788	55,515	77,277	



EXHIBIT D

Projected Year-end Policy Liabilities

The table below presents the projected policy liabilities as at December 31, 2019, broken down by component.

Ontario	Projected Balances as at Dec. 31, 2019 (\$000s)											
ending 2019	nominal values				actuarial present value adjustments (apvs)							
Acc Yr	Case	IBNR	Total Unpaid	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL		
prior	28,880	(86)	28,794	(1,139)	183	2,897	(114)	2,783	1,827	30,621		
2000	(1)	13	12	-	-	1	-	1	1	13		
2001	657	9	666	(29)	5	67	(3)	64	40	706		
2002	62	63	125	(6)	1	13	(1)	12	7	132		
2003	7	442	449	(24)	4	45	(2)	43	23	472		
2004	1,043	227	1,270	(77)	14	127	(8)	119	56	1,326		
2005	52	291	343	(23)	4	34	(2)	32	13	356		
2006	1,883	533	2,416	(184)	31	242	(18)	224	71	2,487		
2007	1,823	430	2,253	(185)	32	225	(18)	207	54	2,307		
2008	813	1,277	2,090	(182)	31	209	(18)	191	40	2,130		
2009	4,314	1,716	6,030	(531)	90	603	(53)	550	109	6,139		
2010	5,172	2,296	7,468	(605)	105	747	(61)	686	186	7,654		
2011	8,355	1,074	9,429	(641)	113	943	(64)	879	351	9,780		
2012	13,718	(882)	12,836	(783)	141	1,284	(78)	1,206	564	13,400		
2013	21,958	2,927	24,885	(1,294)	224	2,489	(129)	2,360	1,290	26,175		
2014	49,764	2,147	51,911	(2,025)	311	5,191	(202)	4,989	3,275	55,186		
2015	70,640	2,885	73,525	(2,353)	441	7,353	(235)	7,118	5,206	78,731		
2016	87,009	5,881	92,890	(2,972)	464	11,611	(372)	11,239	8,731	101,621		
2017	106,463	51,169	157,632	(5,675)	946	23,645	(851)	22,794	18,065	175,697		
2018	106,167	91,133	197,300	(8,089)	1,381	34,330	(1,408)	32,922	26,214	223,514		
PAYs (sub-total):	508,779	163,545	672,324	(26,817)	4,521	92,056	(3,637)	88,419	66,123	738,447		
CAY (2019)	103,760	171,437	275,197	(11,833)	2,202	50,636	(2,177)	48,459	38,828	314,025		
claims liabilities:	612,539	334,982	947,521	(38,650)	6,723	142,692	(5,814)	136,878	104,951	1,052,472		
	Unearned Premium	Premium Deficiency / (DPAC)	Total Provision	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL*		
premium liabilities:	230,148	58,457	288,605	(9,509)	1,729	38,900	(1,284)	37,616	29,836	318,441		
						*	Total may not be s	um of parts, as ap	vs apply to future	costs within UPR		
policy liabilities:			1,236,126	(48,159)	8,452	181,592	(7,098)	174,494	134,787	1,370,913		
,,			_,	(, 100)	-, .0-	,00	(.,,550)	,		_,,,,,,		



EXHIBIT E

Discount Rate & Margins for Adverse Deviations

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

Selected Claims Development MfADs (Sep. 30,

		2	019)	
Accident	Third Party	Accident	Other	Total
Year	Liability	Benefits	Coverages	TOtal
	Margins	Margins	Margins	Margins
1993	10.0%	10.0%	10.0%	10.0%
1994	10.0%	10.0%	10.0%	10.0%
1995	10.0%	10.0%	10.0%	10.0%
1996	10.0%	10.0%	10.0%	10.0%
1997	10.0%	10.0%	10.0%	10.0%
1998	10.0%	10.0%	10.0%	10.0%
1999	10.0%	10.0%	10.0%	10.0%
2000	10.0%	10.0%	10.0%	10.0%
2001	10.0%	10.0%	10.0%	10.0%
2002	10.0%	10.0%	10.0%	10.0%
2003	10.0%	10.0%	10.0%	10.0%
2004	10.0%	10.0%	10.0%	10.0%
2005	10.0%	10.0%	10.0%	10.0%
2006	10.0%	10.0%	10.0%	10.0%
2007	10.0%	10.0%	10.0%	10.0%
2008	10.0%	10.0%	10.0%	10.0%
2009	10.0%	10.0%	10.0%	10.0%
2010	10.0%	10.0%	10.0%	10.0%
2011	10.0%	10.0%	10.0%	10.0%
2012	10.0%	10.0%	10.0%	10.0%
2013	10.0%	10.0%	10.0%	10.0%
2014	10.0%	10.0%	9.7%	10.0%
2015	10.0%	10.0%	9.9%	10.0%
2016	12.5%	12.5%	11.9%	12.5%
2017	15.0%	15.0%	15.0%	15.0%
2018	17.4%	17.5%	15.1%	17.4%
2019	18.1%	20.0%	6.0%	18.4%
2020	12.9%	20.0%	5.2%	13.5%
prem liab	12.9%	20.0%	5.2%	13.5%

discount rate: 1.41% margin (basis points): 25



EXHIBIT F

Interest Rate Sensitivity

The tables below present sensitivity to the member statement claims liability as projected to Dec. 31, 2019 from the latest valuation date (projections in exhibits A to D are to Dec. 31, 2019, and are based on more up-to-date information). We have included the most recent valuation selection (1.41%), the prior valuation assumption (1.40%) and the prior fiscal year end valuation assumption (2.22%) for comparative purposes. A 25 basis point margin for investment return adverse deviation is used in all scenarios presented.

\$ Format: \$000s

	Actuar	rial Present Va	lue of Provision	ons at Various	Discount Rate	s - Dec. 31, 20	19 projected l	Jnpaid
AY	0.41%	0.91%	1.41%	1.91%	2.41%	2.91%	1.40%	2.22%
2002 &								
prior	31,554	31,099	30,655	30,226	29,803	29,394	30,665	29,964
2003	411	402	395	387	380	373	395	382
2004	1,285	1,256	1,229	1,203	1,177	1,152	1,230	1,187
2005	317	309	301	294	287	280	302	290
2006	2,508	2,438	2,372	2,309	2,247	2,188	2,374	2,270
2007	2,481	2,407	2,335	2,268	2,202	2,141	2,337	2,227
2008	2,292	2,219	2,149	2,083	2,020	1,960	2,151	2,044
2009	7,120	6,889	6,670	6,464	6,265	6,079	6,675	6,340
2010	8,342	8,094	7,859	7,638	7,425	7,226	7,865	7,505
2011	9,568	9,329	9,104	8,892	8,690	8,498	9,110	8,765
2012	14,768	14,439	14,127	13,834	13,553	13,288	14,135	13,658
2013	26,901	26,390	25,905	25,449	25,008	24,594	25,918	25,173
2014	51,022	50,284	49,585	48,919	48,278	47,671	49,600	48,516
2015	77,322	76,434	75,583	74,772	73,982	73,234	75,608	74,280
2016	105,083	103,866	102,692	101,558	100,459	99,403	102,717	100,875
2017	179,004	176,706	174,460	172,331	170,217	168,204	174,530	171,023
2018	232,978	229,473	226,114	222,859	219,695	216,647	226,182	220,888
2019	315,108	310,234	305,517	300,998	296,608	292,333	305,661	298,263
Total	1,068,064	1,052,268	1,037,052	1,022,484	1,008,296	994,665	1,037,455	1,013,650
	curr - 100 bp	curr - 50 bp	curr val	curr + 50bp	curr + 100bp	curr + 150bp	prior val	prior fyr end
			assumption				assumption	assumption
			Dollar Imp	act Relative t	o Valuation As	sumption		
AY	0.41%	0.91%	1.41%	1.91%	2.41%	2.91%	1.40%	2.22%
Total	31,012	15,216	-	(14.568)	(28,756)	(42,387)	403	(23,402)
				(=:,000)	(20)750)	(,,		(25) 102)
	curr - 100 bp	curr - 50 bp	curr val	curr + 50bp	curr + 100bp	curr + 150bp	prior val	(-/ - /
	curr - 100 bp	curr - 50 bp	curr val assumption	curr + 50bp	(-,,		prior val assumption	(-/ - /
	curr - 100 bp	curr - 50 bp	assumption	curr + 50bp	curr + 100bp	curr + 150bp		prior fyr end
			assumption Percentage I	curr + 50bp mpact Relativ	curr + 100bp e to Valuation	curr + 150bp	assumption	prior fyr end assumption
AY	curr - 100 bp	curr - 50 bp	assumption	curr + 50bp	curr + 100bp	curr + 150bp		prior fyr end
2002 &	0.41%	0.91%	assumption Percentage I	curr + 50bp mpact Relativ 1.91%	curr + 100bp e to Valuation 2.41%	curr + 150bp Assumption 2.91%	assumption 1.40%	prior fyr end assumption 2.22%
2002 & prior	0.41%	0.91%	assumption Percentage I	curr + 50bp mpact Relativ 1.91% (1.4%)	e to Valuation 2.41%	curr + 150bp Assumption 2.91% (4.1%)	assumption 1.40%	prior fyr end assumption 2.22% (2.3%)
2002 & prior 2003	0.41% 2.9% 4.1%	0.91% 1.4% 1.8%	assumption Percentage I	curr + 50bp mpact Relativ 1.91% (1.4%) (2.0%)	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%)	Assumption 2.91% (4.1%) (5.6%)	1.40% 0.0%	2.22% (2.3%) (3.3%)
2002 & prior 2003 2004	0.41% 2.9% 4.1% 4.6%	0.91% 1.4% 1.8% 2.2%	assumption Percentage I	curr + 50bp mpact Relativ 1.91% (1.4%) (2.0%) (2.1%)	e to Valuation 2.41% (2.8%) (3.8%) (4.2%)	Assumption 2.91% (4.1%) (5.6%) (6.3%)	1.40% 0.0% - 0.1%	2.22% (2.3%) (3.3%) (3.4%)
2002 & prior 2003 2004 2005	0.41% 2.9% 4.1% 4.6% 5.3%	0.91% 1.4% 1.8% 2.2% 2.7%	assumption Percentage I	curr + 50bp mpact Relativ 1.91% (1.4%) (2.0%) (2.1%) (2.3%)	e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (4.7%)	Curr + 150bp Assumption 2.91% (4.1%) (5.6%) (6.3%) (7.0%)	1.40% 0.0% 0.1% 0.3%	2.22% (2.3%) (3.3%) (3.4%) (3.7%)
2002 & prior 2003 2004 2005 2006	0.41% 2.9% 4.1% 4.6% 5.3% 5.7%	0.91% 1.4% 1.8% 2.2% 2.7% 2.8%	assumption Percentage I	curr + 50bp mpact Relativ 1.91% (1.4%) (2.0%) (2.1%) (2.3%) (2.3%)	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (4.7%) (5.3%)	Assumption 2.91% (4.1%) (5.6%) (6.3%) (7.0%) (7.8%)	1.40% 0.0% 0.1% 0.3% 0.1%	2.22% (2.3%) (3.3%) (3.4%) (4.3%)
2002 & prior 2003 2004 2005 2006 2007	0.41% 2.9% 4.1% 4.6% 5.3% 5.7% 6.3%	0.91% 1.4% 1.8% 2.2% 2.7% 2.8% 3.1%	assumption Percentage I	curr+50bp mpact Relativ 1.91% (1.4%) (2.0%) (2.1%) (2.3%) (2.7%) (2.9%)	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (4.7%) (5.3%)	Curr + 150bp Assumption 2.91% (4.1%) (5.6%) (6.3%) (7.0%) (7.8%) (8.3%)	1.40% 0.0% 0.1% 0.3% 0.1% 0.1%	2.22% (2.3%) (3.3%) (3.7%) (4.3%) (4.6%)
2002 & prior 2003 2004 2005 2006 2007 2008	0.41% 2.9% 4.1% 4.6% 5.3% 5.7% 6.3% 6.7%	0.91% 1.4% 1.8% 2.2% 2.7% 2.8% 3.1% 3.3%	assumption Percentage I	curr + 50bp mpact Relativ 1.91% (1.4%) (2.0%) (2.1%) (2.3%) (2.7%) (2.9%) (3.1%)	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (4.7%) (5.3%) (5.7%) (6.0%)	Assumption 2.91% (4.1%) (5.6%) (7.0%) (7.8%) (8.3%) (8.3%)	1.40% 0.0% 0.1% 0.1% 0.1%	2.22% (2.3%) (3.3%) (3.4%) (4.3%) (4.6%) (4.9%)
2002 & prior 2003 2004 2005 2006 2007 2008 2009	0.41% 2.9% 4.1% 4.6% 5.3% 5.7% 6.3% 6.7%	0.91% 1.4% 1.8% 2.2% 2.7% 2.8% 3.1% 3.3% 3.3%	assumption Percentage I	curr + 50bp mpact Relativ 1.91% (1.4%) (2.0%) (2.3%) (2.7%) (2.9%) (3.1%) (3.1%)	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (4.7%) (5.3%) (5.7%) (6.0%)	Curr + 150bp Assumption 2.91% (4.1%) (5.6%) (7.0%) (7.8%) (8.3%) (8.8%)	1.40% 0.0% 0.1% 0.19% 0.19% 0.19% 0.19% 0.11%	2.22% (2.3%) (3.3%) (3.3%) (4.3%) (4.6%) (4.9%)
2002 & prior 2003 2004 2005 2006 2007 2008 2009 2010	0.41% 2.9% 4.1% 4.6% 5.3% 5.7% 6.3% 6.7% 6.7% 6.1%	0.91% 1.4% 1.8% 2.2% 2.7% 2.8% 3.1% 3.3% 3.3% 3.0%	assumption Percentage I	curr + 50bp mpact Relativ 1.91% (1.4%) (2.0%) (2.1%) (2.3%) (2.7%) (3.1%) (3.1%) (2.8%)	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (4.7%) (5.3%) (6.0%) (6.1%) (5.5%)	Curr + 150bp Assumption 2.91% (4.1%) (5.6%) (6.3%) (7.0%) (7.8%) (8.3%) (8.9%) (8.1%)	1.40% 0.0% - 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	2.22% (2.3%) (3.3%) (3.4%) (4.3%) (4.9%) (4.9%) (4.5%)
2002 & prior 2003 2004 2005 2006 2007 2008 2009 2010 2011	0.41% 2.9% 4.1% 4.6% 5.3% 5.7% 6.3% 6.7% 6.1% 5.1%	0.91% 1.4% 1.8% 2.2% 2.7% 2.8% 3.1% 3.3% 3.0% 2.5%	assumption Percentage I	curr + 50bp mpact Relativ 1.91% (1.4%) (2.0%) (2.1%) (2.3%) (2.9%) (3.1,4%) (3.1,4%) (2.8%) (2.3%) (2.3%) (2.3%)	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (5.3%) (5.7%) (6.1%) (6.5%) (4.5%)	Curr + 150bp Assumption 2.91% (4.1%) (5.6%) (6.3%) (7.0%) (7.8%) (8.3%) (8.8%) (8.9%) (6.7%)	1.40% 0.0% 0.1% 0.1% 0.1% 0.11% 0.11% 0.11% 0.11% 0.11%	2.22% (2.3%) (3.3%) (3.4%) (4.5%) (4.9%) (4.5%) (3.7%)
2002 & prior 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	0.41% 2.9% 4.1% 4.6% 5.3% 6.7% 6.7% 6.1% 5.1% 4.5%	0.91% 1.4% 1.8% 2.2% 2.7% 2.8% 3.1% 3.3% 3.3% 2.5% 2.2%	assumption Percentage I	curr + 50bp mpact Relativ 1.91% (1.4%) (2.0%) (2.1%) (2.3%) (2.9%) (3.1%) (3.1%) (2.8%) (2.3%) (2.3%) (2.3%) (2.1%)	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (5.3%) (5.7%) (6.0%) (5.5%) (4.5%) (4.5%) (4.1%)	Assumption 2.91% (4.1%) (5.6%) (6.3%) (7.0%) (8.3%) (8.8%) (8.9%) (8.1%) (6.7%) (5.9%)	1.40% 0.0% 0.1% 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	2.22% (2.3%) (3.3%) (3.4%) (4.5%) (4.5%) (4.5%) (3.7%) (4.5%) (3.7%) (3.3%)
2002 & prior 2003 2004 2005 2006 2007 2008 2010 2011 2012 2013	0.41% 2.9% 4.1% 4.6% 5.3% 6.7% 6.7% 6.1% 5.1% 4.5% 3.8%	0.91% 1.4% 1.8% 2.2% 2.7% 2.8% 3.1% 3.3% 3.3% 2.5% 2.2% 1.9%	assumption Percentage I	curr + 50bp mpact Relativ 1.91% (1.4%) (2.0%) (2.1%) (2.3%) (2.9%) (3.1%) (2.8%) (2.8%) (2.3%) (2.1%) (1.8%)	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (5.3%) (5.7%) (6.0%) (5.5%) (4.4%) (4.5%) (4.1%) (3.5%)	Curr + 150bp Assumption 2.91% (4.1%) (5.6%) (6.3%) (7.0%) (8.3%) (8.8%) (8.9%) (6.7%) (5.9%) (5.1%)	1.40% 0.0% 0.1% 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	2.22% (2.3%) (3.3%) (3.4%) (4.9%) (4.5%) (3.7%) (4.5%) (2.8%)
2002 & prior 2003 2004 2005 2006 2007 2008 2010 2011 2012 2013 2014	0.41% 2.9% 4.1% 4.6% 5.3% 5.7% 6.3% 6.7% 6.1% 5.11% 4.5% 3.8% 2.9%	0.91% 1.4% 1.8% 2.2% 2.7% 2.8% 3.1% 3.3% 3.3% 3.0% 2.5% 2.2% 1.9% 1.4%	assumption Percentage I	curr + 50bp mpact Relativ 1.91% (1.4%) (2.0%) (2.1%) (2.3%) (2.9%) (3.1%) (2.8%) (2.3%) (2.1%) (2.1%) (1.8%) (1.3%)	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (5.3%) (5.7%) (6.0%) (5.5%) (4.5%) (4.1%) (3.5%) (2.6%)	Assumption 2.91% (4.1%) (5.6%) (6.3%) (7.0%) (8.3%) (8.3%) (8.9%) (6.7%) (5.9%) (5.9%) (5.9%) (3.9%)	1.40% 0.0% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1%	2.22% (2.3%) (3.3%) (3.3%) (4.3%) (4.9%) (4.9%) (4.9%) (2.8%) (2.8%) (2.2%)
2002 & prior 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015	0.41% 2.9% 4.1% 4.6% 5.3% 5.7% 6.3% 6.7% 6.1% 5.1% 4.5% 3.8% 2.9% 2.3%	0.91% 1.4% 1.8% 2.2% 2.7% 3.1% 3.3% 3.0% 2.5% 2.2% 1.9% 1.4% 1.1%	assumption Percentage I	curr + 50bp mpact Relativ 1.91% (1.4%) (2.0%) (2.1%) (2.3%) (2.9%) (3.1%) (2.8%) (2.3%) (2.1%) (1.8%) (1.3%) (1.1%)	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (4.7%) (5.3%) (5.7%) (6.0%) (4.1%) (3.5%) (2.6%) (2.1%)	Curr + 150bp Assumption 2.91% (4.1%) (5.6%) (6.3%) (7.0%) (8.3%) (8.8%) (8.9%) (5.1%) (5.1%) (3.9%) (3.1%)	1.40% 0.0% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1%	2.22% (2.3%) (3.3%) (3.4%) (4.3%) (4.6%) (4.9%) (4.5%) (3.3%) (2.8%) (2.2%)
2002 & prior 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	0.41% 2.9% 4.1% 4.6% 5.3% 5.7% 6.3% 6.7% 6.1% 5.14% 4.5% 3.8% 2.9% 2.3% 2.3%	0.91% 1.4% 1.8% 2.2% 2.7% 3.1% 3.3% 3.0% 2.5% 2.2% 1.9% 1.1% 1.1%	assumption Percentage I	curr + 50bp mpact Relativ 1.91% (1.4%) (2.0%) (2.1%) (2.3%) (2.7%) (3.1%) (2.8%) (2.3%) (2.1%) (1.1%) (1.1%) (1.1%)	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (4.7%) (5.3%) (6.0%) (6.1%) (4.5%) (4.1%) (2.6%) (2.6%) (2.1%)	Curr + 150bp Assumption 2.91% (4.1%) (5.6%) (6.3%) (7.0%) (7.8%) (8.3%) (8.9%) (6.7%) (5.9%) (5.1%) (3.9%) (3.1%) (3.2%)	1.40% 0.0% 0.19% 0.19% 0.19% 0.19% 0.19% 0.19% 0.01% 0.01% 0.00% 0.0%	2.22% (2.3%) (3.3%) (3.4%) (4.3%) (4.5%) (4.5%) (3.7%) (2.2%) (2.2%) (1.7%) (1.8%)
2002 & prior 2003 2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017	0.41% 2.9% 4.1% 4.6% 5.3% 5.7% 6.3% 6.7% 6.1% 5.16 4.5% 3.8% 2.9% 2.3% 2.3% 2.6%	0.91% 1.4% 1.8% 2.2% 2.7% 2.8% 3.1% 3.3% 3.0% 2.5% 1.9% 1.4% 1.1% 1.3%	assumption Percentage I	mpact Relativ 1.91% (1.4%) (2.0%) (2.1%) (2.3%) (2.7%) (3.1,4%) (3.3,4%) (2.8%) (2.1%) (1.1%) (1.1%) (1.1%) (1.1%)	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (5.3%) (5.7%) (6.0%) (6.1%) (4.5%) (4.1%) (2.6%) (2.1%) (2.2%)	Assumption 2.91% (4.1%) (5.6%) (6.3%) (7.0%) (8.8%) (8.9%) (6.7%) (5.1%) (3.9%) (3.1%) (3.2%) (3.6%)	1.40% 0.0% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.0% 0.0% 0.0%	2.22% (2.3%) (3.3%) (3.4%) (4.5%) (4.5%) (3.37%) (4.5%) (2.2%) (1.7%) (1.8%)
2002 & prior 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	0.41% 2.9% 4.1% 4.6% 5.3% 5.7% 6.3% 6.7% 6.1% 5.146 4.5% 3.8% 2.9% 2.3% 2.3% 2.3% 2.6% 3.0%	0.91% 1.4% 1.8% 2.2% 2.7% 2.8% 3.1% 3.3% 3.0% 2.5% 2.2% 1.9% 1.1% 1.1% 1.3% 1.5%	assumption Percentage I	mpact Relativ 1.91% (1.4%) (2.0%) (2.1%) (2.3%) (2.9%) (3.1%) (2.8%) (2.1%) (1.1%) (1.1%) (1.1%) (1.1%) (1.2%) (1.4%)	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (4.7%) (5.3%) (6.1%) (5.5%) (4.1%) (2.5%) (2.2%) (2.2%) (2.8%)	Assumption 2.91% (4.1%) (5.6%) (6.3%) (7.0%) (8.8%) (8.9%) (5.1%) (5.1%) (3.9%) (3.1%) (3.2%) (3.6%) (4.2%)	1.40% 0.0% 0.1% 0.19 0.19 0.19 0.19 0.19 0.19 0.09 0.0% 0.0% 0.0%	2.22% (2.3%) (3.3%) (3.4%) (3.7%) (4.5%) (4.9%) (4.5%) (2.2%) (2.2%) (1.7%) (1.8%) (2.0%) (2.3%)
2002 & prior 2003 2004 2005 2006 2007 2008 2009 2011 2012 2013 2014 2015 2016 2017 2018 2019	0.41% 2.9% 4.1% 4.6% 5.3% 6.7% 6.7% 6.1% 4.5% 3.8% 2.9% 2.3% 2.3% 3.0% 3.1%	0.91% 1.4% 1.8% 2.2% 2.79 2.8% 3.1% 3.3% 3.0% 2.5% 2.29 1.9% 1.1% 1.1% 1.3% 1.5%	assumption Percentage I	curr + 50bp mpact Relativ 1.91% (1.4%) (2.0%) (2.1%) (2.3%) (2.9%) (3.1%) (2.8%) (2.3%) (1.1%) (1.1%) (1.1%) (1.2%) (1.1%) (1.2%) (1.5%)	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (5.7%) (5.7%) (6.0%) (5.5%) (4.1%) (2.6%) (2.1%) (2.2%) (2.4%) (2.8%) (2.9%)	Assumption 2.91% (4.1%) (5.6%) (6.3%) (7.0%) (8.3%) (8.8%) (6.7%) (5.9%) (5.1%) (3.1%) (3.2%) (3.6%) (4.2%)	1.40% 0.0% 0.1% 0.1% 0.1% 0.1% 0.19 0.19 0.19 0.19 0.09 0.0% 0.0% 0.0% 0.0%	2.22% (2.3%) (3.3%) (3.4%) (4.3%) (4.5%) (4.5%) (2.8%) (2.2%) (1.7%) (1.18%) (2.0%) (2.3%) (2.4%)
2002 & prior 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	0.41% 2.9% 4.1% 4.6% 5.3% 6.7% 6.3% 6.7% 6.1% 5.1% 4.5% 3.8% 2.9% 2.3% 2.3% 3.0% 3.1% 3.0%	0.91% 1.4% 1.8% 2.2% 2.7% 2.8% 3.1% 3.3% 3.3% 1.1% 1.1% 1.1% 1.1% 1.5% 1.5%	assumption Percentage I 1.41%	curr + 50bp mpact Relativ 1.91% (1.4%) (2.0%) (2.3%) (2.7%) (2.9%) (3.1%) (2.8%) (2.3%) (1.1%) (1.1%) (1.1%) (1.2%) (1.2%) (1.1%) (1.2%) (1.4%) (1.4%) (1.4%)	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (4.7%) (5.3%) (5.7%) (6.0%) (5.5%) (4.1%) (2.5%) (2.1%) (2.2%) (2.2%) (2.8%) (2.8%)	Assumption 2.91% (4.1%) (5.6%) (6.3%) (7.0%) (8.3%) (8.8%) (8.9%) (5.1%) (5.9%) (5.1%) (3.2%) (3.2%) (4.2%) (4.2%) (4.3%)	1.40% 0.0% 0.19% 0.19% 0.19% 0.19% 0.19% 0.01% 0.00% 0.00% 0.00% 0.00% 0.00%	2.22% (2.3%) (3.3%) (3.3%) (3.4%) (4.3%) (4.5%) (4.5%) (2.5%) (2.2%) (1.7%) (2.0%) (2.3%) (2.3%)
2002 & prior 2003 2004 2005 2006 2007 2008 2009 2011 2012 2013 2014 2015 2016 2017 2018 2019	0.41% 2.9% 4.1% 4.6% 5.3% 6.7% 6.7% 6.1% 4.5% 3.8% 2.9% 2.3% 2.3% 3.0% 3.1%	0.91% 1.4% 1.8% 2.2% 2.79 2.8% 3.1% 3.3% 3.0% 2.5% 2.29 1.9% 1.1% 1.1% 1.3% 1.5%	assumption Percentage I 1.41%	curr + 50bp mpact Relativ	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (5.7%) (5.7%) (6.0%) (5.5%) (4.1%) (2.6%) (2.1%) (2.2%) (2.4%) (2.8%) (2.9%)	Assumption 2.91% (4.1%) (5.6%) (6.3%) (7.0%) (8.3%) (8.8%) (6.7%) (5.9%) (5.1%) (3.1%) (3.2%) (3.6%) (4.2%)	1.40% 0.0% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1%	prior fyr end assumption 2.22% (2.3%) (3.3%) (3.4%) (4.3%) (4.6%) (4.9%) (4.5%) (2.8%) (2.2%) (1.7%) (2.3%) (2.3%) prior fyr end
2002 & prior 2003 2004 2005 2006 2007 2008 2009 2011 2012 2013 2014 2015 2016 2017 2018 2019	0.41% 2.9% 4.1% 4.6% 5.3% 6.7% 6.3% 6.7% 6.1% 5.1% 4.5% 3.8% 2.9% 2.3% 2.3% 3.0% 3.1% 3.0%	0.91% 1.4% 1.8% 2.2% 2.7% 2.8% 3.1% 3.3% 3.3% 1.1% 1.1% 1.1% 1.1% 1.5% 1.5%	assumption Percentage I 1.41%	curr + 50bp mpact Relativ	curr + 100bp e to Valuation 2.41% (2.8%) (3.8%) (4.2%) (4.7%) (5.3%) (5.7%) (6.0%) (5.5%) (4.1%) (2.5%) (2.1%) (2.2%) (2.2%) (2.8%) (2.8%)	Assumption 2.91% (4.1%) (5.6%) (6.3%) (7.0%) (8.3%) (8.8%) (8.9%) (5.1%) (5.9%) (5.1%) (3.2%) (3.2%) (4.2%) (4.2%) (4.3%)	1.40% 0.0% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1%	2.22% (2.3%) (3.3%) (3.3%) (3.4%) (4.3%) (4.5%) (4.5%) (2.5%) (2.2%) (1.7%) (2.0%) (2.3%) (2.3%)



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

RSP	Ontario
AccountCode Desc	IBNR - Discounted

	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
prior	1,940	(61)	(138)	-	(199)	(10.3%)	1,741
2000	14	(1)	1	-	-	-	14
2001	49	(1)	1	-	-	-	49
2002	70	(4)	4	-	-	-	70
2003	122	(6)	349	-	343	281.1%	465
2004	282	(12)	13	-	1	0.4%	283
2005	304	(16)	16	-	-	-	304
2006	605	(29)	28	-	(1)	(0.2%)	604
2007	476	(23)	31	-	8	1.7%	484
2008	1,266	(62)	113	-	51	4.0%	1,317
2009	1,897	(93)	21	-	(72)	(3.8%)	1,825
2010	2,533	(123)	72	-	(51)	(2.0%)	2,482
2011	1,465	(67)	27	-	(40)	(2.7%)	1,425
2012	1,155	(46)	(1,427)	-	(1,473)	(127.5%)	(318)
2013	4,010	(173)	380	-	207	5.2%	4,217
2014	5,321	(197)	298	-	101	1.9%	5,422
2015	9,513	(339)	(1,083)	-	(1,422)	(14.9%)	8,091
2016	19,811	(812)	(4,387)	-	(5,199)	(26.2%)	14,612
2017	70,758	(3,170)	1,646	-	(1,524)	(2.2%)	69,234
2018	118,215	(6,021)	5,153	-	(868)	(0.7%)	117,347
2019	192,021	18,494	(250)	-	18,244	9.5%	210,265
Grand Total	431,827	7,238	868	-	8,106	1.9%	439,933



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

RSP Ontario
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
prior	100	(6)	(180)	-	(186)	(186.0%)	(86)
2000	13	(1)	1	-	-	-	13
2001	9	-	-	-	-	-	9
2002	63	(3)	3	-	-	-	63
2003	99	(5)	348	-	343	346.5%	442
2004	227	(11)	11	-	-	-	227
2005	291	(15)	15	-	-	-	291
2006	533	(27)	27	-	-	-	533
2007	423	(21)	28	-	7	1.7%	430
2008	1,225	(61)	113	-	52	4.2%	1,277
2009	1,785	(89)	20	-	(69)	(3.9%)	1,716
2010	2,346	(117)	67	-	(50)	(2.1%)	2,296
2011	1,112	(56)	18	-	(38)	(3.4%)	1,074
2012	563	(28)	(1,417)	-	(1,445)	(256.7%)	(882)
2013	2,615	(131)	443	-	312	11.9%	2,927
2014	1,909	(95)	333	-	238	12.5%	2,147
2015	4,180	(125)	(1,170)	-	(1,295)	(31.0%)	2,885
2016	10,810	(541)	(4,388)	-	(4,929)	(45.6%)	5,881
2017	52,365	(2,618)	1,422	-	(1,196)	(2.3%)	51,169
2018	91,436	(5,486)	5,183	-	(303)	(0.3%)	91,133
2019	156,615	14,414	408	-	14,822	9.5%	171,437
Grand Total	328,719	4,978	1,285	-	6,263	1.9%	334,982