

ALBERTA GRID RISK SHARING POOL MAY 2022 OPERATIONAL REPORT ACTUARIAL HIGHLIGHTS

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ACTUARIAL HIGHLIGHTS

RSP ALBERTA GRID

OPERATIONAL REPORT MAY 2022

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1 Summary

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

1.1 Valuation Schedule (Fiscal Year 2022)

The May 2022 Operational Report incorporates the results of an updated valuation (as at December 30, 2021) – the impact of the implementation of the valuation is discussed in section 1.2. The following table summarizes the valuation implementations scheduled for fiscal year 2022.

	ALBERTA GRID RISK SHARING POOL FISCAL YEAR 2021 – SCHEDULE OF VALUATIONS						
Valuation Date	Discount Rate (per annum)	Operational Report	Description of Changes				
Sep. 30, 2021 (completed)	0.81% mfad ¹ 25 bp	Oct. 2021	update valuation (roll-forward): accident year 2021 loss ratio decreased 0.8 points to 65.5%; discount rate increased 9 basis points; no change to selected margins for adverse deviations				
Dec. 31, 2021 (completed)	1.04% mfad 25 bp	Mar. 2022	update valuation: accident year 2021 loss ratio <u>in</u> creased 1.2 points to 66.7% and accident year 2022 loss ratio <u>in</u> creased 3.3 points to 82.3%; discount rate <u>in</u> creased 23 basis points; no change to selected margins for adverse deviations				
Mar. 31, 2022 (completed)	2.24% mfad 25 bp	May. 2022	update valuation (roll-forward): accident year 2022 loss ratio decreased 0.6 points to 86.3%; discount rate increased 120 basis points; no change to selected margins for adverse deviations				
Jun. 30, 2022	% mfad bp	Aug. 2022	update valuation:				
Sep. 30, 2022	% mfad bp	Oct. 2022	update valuation (roll-forward):				

Under the proposed schedule for fiscal year 2022, the off-half valuation quarters ending March 31, 2022 and September 30, 2022 would not reflect a full valuation update of assumptions, but would rather roll-forward key assumptions from the previous valuation.

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



1.2 New Valuation

A valuation of the Alberta Grid Risk Sharing Pool ("RSP") as at March 31, 2022 has been completed since last month's Operational Report and the results of that valuation have been incorporated into this month's Report. The valuation was completed by the Facility Association's internal actuarial group in conjunction with, and approved by, the Appointed Actuary, under the hybrid model for actuarial services.

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

Summary of Impact (\$000s) of Implementing Result of Valuation as at Mar. 31, 2022²

AB Grid	unfav / (fav) for the month and ytd							
	IMPACT in \$000s from changes in:							
	ults &	payout patt	terns	dsct rate	margins			
	Nominal	apv adj.	sub-tot	apv adj.	apv adj.	TOTAL		
	[1]	[1] [2] [3]		[4]	[5]	[6]		
PAYs	369	13	382	(8,073)	-	(7,691)		
CAY	(615)	(61)	(676)	(2,521)	-	(3,197)		
Prem Def	(703)	(333)	(1,036)	(3,684)	-	(4,720)		
TOTAL	(949)	(381)	(1,330)	(14,278)	-	(15,608)		

As indicated in the preceding table, the incorporation of the new valuation had an estimated **\$15.6 million favourable impact** on the month's net result from operations, subtracting an estimated 6.6 points (see following table) from the **year-to-date Combined Operating Ratio** to end at **101.0%**. The favourable valuation impact is driven by the increase in discounting.

Summary of Impact (% YTD EP) of Implementing Result of Valuation as at Mar. 31, 2022

AB Grid	ytd EP	234,936	(actual)						
	IN	IMPACT unfav / (fav) as % ytd EP from changes in:							
	ults &	payout pat	terns	dsct rate	margins				
	Nominal	apv adj.	sub-tot	apv adj.	apv adj.	TOTAL			
	[1]	[1] [2] [3]		[4]	[5]	[6]			
PAYs	0.2%	-	0.2%	(3.4%)	-	(3.3%)			
CAY	(0.3%)	-	(0.3%)	(1.1%)	-	(1.4%)			
Prem Def	(0.3%)	(0.1%)	(0.4%)	(1.6%)	-	(2.0%)			
TOTAL	(0.4%)	(0.2%)	(0.6%)	(6.1%)	-	(6.6%)			

The impact of the **nominal changes** is shown in column [1] of the two preceding summary tables. The change in the selected nominal ultimates was **favourable by \$0.9 million** overall. This reflects

²In these tables, "PAYs" refers to prior accident years, "CAY" refers to the current accident year, and "Prem Def" refers to the provision for premium deficiency or the deferred policy acquisition asset (as applicable). "Nominal" refers to changes excluding any actuarial present value adjustments, whereas "apv adj." refers to actuarial present value adjustments.

The columns under the heading "ults & payout patterns" reflect the impact of changes in the valuation selected ultimates and claims payment patterns (i.e. based on unchanged selection of discount rates and margins for adverse deviation). The column "dsct rate" reflects the impact of the change in the selected discount rate and the column "margins" reflects the impact of any changes in selected margins for adverse deviations.



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). As this quarter is a roll-forward valuation, the impacts are mainly driven by claims development on short-tailed lines of business and on older accident years. Since the impact is relatively small, this indicates that claims are developing more or less as expected.

The **PAYs** overall showed a **\$0.4** million unfavourable nominal variance or 0.1% of the PAYs nominal unpaid balance of \$269.6 million determined at the end of last month (April 2022), due to favourable development on PAY BI claims along with valuation method selection changes resulting in favourable impacts.

The CAY and premium deficiency impacts are a result of the change in the selected loss for accident year **2022** (<u>de</u>creased 0.6 points to 81.7%). This change is a result of the valuation expected loss ratio update, which incorporates updated loss and premium trends and updated prior year ultimate loss ratios.

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 coverage, 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 an favourable change of \$0.4 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 March 2022. Column [4] accounts for the change in the **discount rate** selected (<u>in</u>creased 120 basis points to **2.24%**), indicating a favourable impact of \$14.3 million. The impact *related only to claims liabilities* (i.e. PAYs plus CAY) was \$10.6 million at May 2022 – this compares to the \$12.1 million change one would estimate as the impact by interpolation using the interest rate sensitivity table provided in last month's Actuarial Highlights.

Column [5] accounts for any changes to selected MfADs. The selected **investment rate MfAD** was **left unchanged at 25 basis points** and the selected **claims development MfADs** at the coverage and accident year level were 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 noted above and outlined in section 1.4.



1.3 Appointed Actuary and Hybrid Actuarial Services Model

The Annual General Meeting of the members of Facility Association ("FA") appointed Mr. Cosimo Pantaleo as the Appointed Actuary at its meeting on March 4, 2021.

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

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

There have been no changes in these descriptions since last Highlights, other than updated references to reflect the new valuation.

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.

In the **Alberta Treasury Board and Finance Notice 04-2018** (Clarification of Minor Injury Regulation), dated **October 17, 2018**, the Alberta Superintendent of Insurance advised that clarifying amendments have been made to the definition of minor injuries under the Minor Injury Regulation (MIR). Consideration of these changes were included in the industry trend analysis supporting the calculation of our valuation expected loss ratios.

Amendments to the Alberta Automobile Accident Insurance Benefits Regulation, Diagnostic and Treatment Protocols Regulation, and Minor Injury Regulation came into force effective November 1, 2020, amending definitions and various benefit maximums defined in these regulations. Alberta Bill 41 (Insurance (Enhancing Driver Affordability and Care) Amendment Act, 2020) received royal assent on December 9, 2020. Bill 41 amends the Insurance Act to: 1) control the use of expert witnesses in Court of Queen's Bench proceedings where damages for bodily injury or death arising from use or operation of a motor vehicle as defined in the Traffic Safety Act are claimed; 2) introduce direct compensation for property damage (DCPD) into the province; 3) amend the calculation of prejudgment interest on damages awarded for bodily injury or death arising directly or indirectly form the use or operation of an automobile; and 4) amend provisions regarding the regulation of auto insurance rates by the Alberta Automobile Insurance Rate Board. Consideration of these changes were included in the industry trend analysis supporting the calculation of our valuation expected loss ratios. There is an estimated 20% reduction to loss costs for Bodily Injury claims in Alberta, as well as an estimated 8% increase in accident benefits loss costs, effective Jan. 1, 2021, which have been reflected in our estimates.

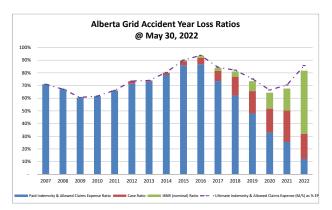
1.5 Current Provision Summary

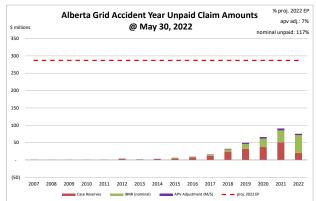
The following charts show the current levels of claim liabilities³ booked by accident year. The left

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.



chart displays life-to-date payments, case reserves, IBNR, and the total including actuarial present value adjustments against accident year earned premium. The right chart shows the associated dollar amounts for the components of the claim liabilities and the current projected amount of 2021 full year earned premium (the red hash-mark line) to provide some perspective.





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

claim liabilities (\$000s)

		amt	%
	case	197,237	55.4%
	ibnr	137,445	38.6%
	M/S apv adjust.	21,181	6.0%
Ν	1/S total	355,863	100.0%

The current actuarial present value adjustments balance (\$21.2 million - see the following table) represents 7% of the earned premium projected for the full year 2022 (see the upper right corner of the preceding chart on the right). If our current estimates of the nominal unpaid amounts prove to match actual claims payments, the actuarial

present value adjustments will be released into the net operating result over future periods.

The table to the left breaks down the Member Statement (M/S) claim liabilities total into component parts, showing that the majority of the claim liabilities for this RSP is in case reserves. Approximately 62% of the IBNR balance relates to accident years 2021 and 2022 (see Exhibit B). Approximately 88% of the M/S total claim liabilities are related to accident years 2018-2022 inclusive (i.e. the most recent 5 accident years), and approximately 2% is related to accident years 2012 and prior (i.e. prior to the most recent 10 accident years).

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

premium liabilities (\$000s)

premium nabilities (4000s)							
	amt	%					
unearned prem	146,372	114.8%					
prem def/(dpac)	(24,972)	(19.6%)					
M/S apv adjust.	6,154	4.8%					
M/S total	127,554	100.0%					

policy liabilities (\$000s)

_	amt	%
claim	334,682	69.2%
premium	121,400	25.1%
M/S apv adjust.	27,335	5.7%
M/S total	483,417	100.0%

Activity since previous valuation implementation

Recorded Premium and Claims Activity

The following table summarizes the extent to which premiums and claims amounts recorded since



the prior implementation differ from the prior projection.

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

AY Group	Share Year	Share Month	Actual Earned Premium (000s)	Actual minus Projected Earned Premium (000s)	Actual Paid Claims (000s)	Actual minus Projected Paid Claims (000s)	Actual Recorded Claims (000s)	Actual minus Projected Recorded Claims (000s)
PAY	2022	April	(73)	(73)	5,811	(1,262)	4,130	255
		May	(90)	(90)	6,604	310	3,272	(810)
PAY Total			(163)	(163)	12,415	(952)	7,402	(555)
CAY	2022	April	21,229	(2,532)	2,909	354	5,543	(1,014)
		May	22,848	(2,680)	3,647	702	8,206	539
CAY Total			44,077	(5,212)	6,556	1,056	13,749	(475)
Grand Total			43,914	(5,375)	18,971	104	21,151	(1,030)

(Recorded transaction amounts exclude IBNR & other actuarial provisions)

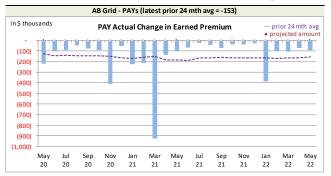
Claims transaction activity is generally volatile; changes from one month to the next are anticipated due to this natural "process variance" (i.e. random variation). Each month, the projection variances are reviewed for signs of projection bias and to identify potential ways to reduce the level of the variance. The variances are also reviewed as part of the quarterly valuation process, as an indicator of changes in the claims development process or potential bias in ultimate claims estimates.

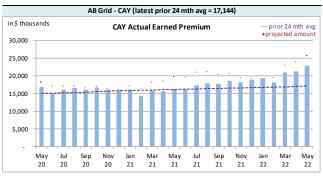
More detailed analysis and commentary on actual vs. projected for the most recent reporting months is provided below.

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

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

Alberta Grid 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.

⁴Premium is earned on a daily basis based on the transaction term measured in days. As a result, months with 31 days earned relatively more than those with 30 days, and February earns the least.

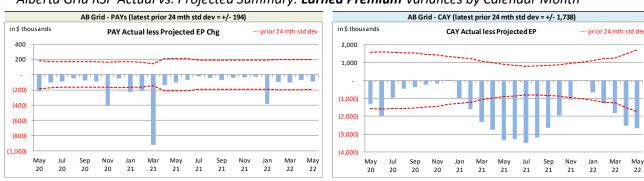


On Latest \$ thousands					
Earned Premium	PAYs	CAY			
Mthly Avg EP Chg (prior 24 mths)	(153)	17,144			
std dev	194	1,738			
A-P <> std dev	6	15			
% <> std dev	24.0%	60.0%			
norm <> std dev	31.7%	31.7%			
performance vs 24-mth avg:	better	worse			

The associated variances 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 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.

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



We project **earned premium** changes from known unearned premium balances and projected written premium levels, but upload the total projections as current accident year (CAY). This process has generated prior accident years' (PAYs) bias⁵, with actuals generally lower than projected, although the magnitude is not high relative to monthly premium. In addition to the PAYs' bias, the CAY has also shown bias⁶, 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 has not currently deemed as a priority.

2.1.b AvsP: Recorded Indemnity & Allowed Claims Expense

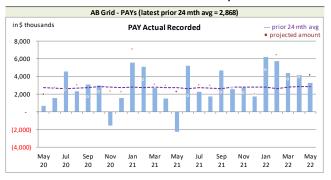
The following charts show actual **recorded** activity (**paid** and case reserve changes), in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

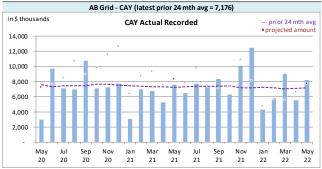
⁵The PAYs' variances will show bias as the projection upload forces all earned premium projections to be attributed to the CAY.

⁶We 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 May 2022 has only 2 months where the actuals were higher than projected, and as the 95% confidence range is 8 to 17, bias continues to be indicated.



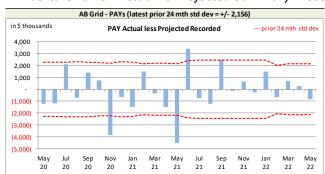
Alberta Grid RSP Actual Recorded by Calendar Month

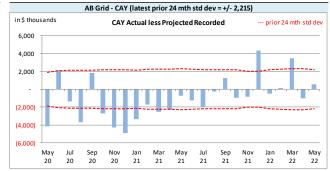




Recorded activity variances from the previous month's projections shown in the following charts, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

Alberta Grid RSP Actual vs Projected Summary: Recorded Variances by Calendar Month





On Latest \$ thousands					
Recorded	PAYs	CAY			
Mthly Avg Recorded (prior 24 mths)	2,868	7,176			
std dev	2,156	2,215			
A-P <> std dev	4	11			
% <> std dev	16.0%	44.0%			
norm <> std dev	31.7%	31.7%			
performance vs 24-mth avg:	better	worse			

With respect to **recorded** indemnity & allowed claims expense activity, 16% 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). Bias⁷ has not been indicated at a 95% confidence level on a rolling 25-month basis (10 of 25 variances were positive).

The current accident year (CAY) **recorded** variances fell outside of one standard deviation 44% of the time over the last 25 calendar months (see preceding table on the left), suggesting that the projection process has performed better than simply projecting the prior 24-month average amount. Bias has been indicated at a 95% confidence level on a lagging 24-month basis (6 of 25 variances were positive).

The method for establishing IBNR adjusts automatically for changes in earned premium and recorded

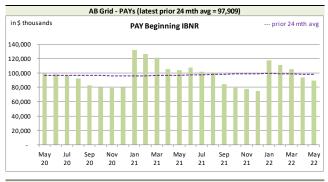
⁷ For the binomial distribution with 25 trials and an assumed 50% success probability, the 95% confidence range is 8 to 17 successes. That is, favourable or unfavourable counts of 0 to 7 or 18 to 25 out of 25 outcomes would suggest bias.

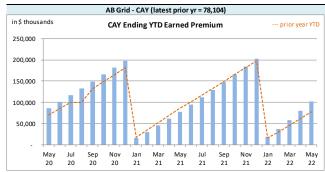


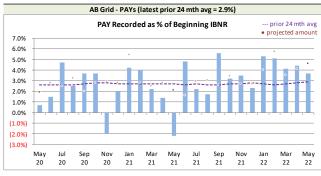
claims activity level (see sections 2.2 and 3).

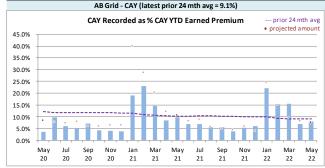
We have included, for reference, additional charts below related to levels influencing **recorded** activity. Note in particular the changes in the level of PAY beginning IBNR over the months, as a response to valuations and showing up as a beginning IBNR change one month after the valuation is implemented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

Alberta Grid 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

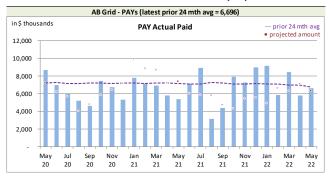
The following charts show actual **paid** activity in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average

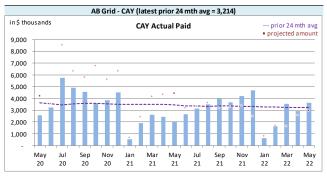
⁸Our recorded activity projections for the prior accident years are based on selected ratios of recorded activity to beginning unpaid balances, whereas the current accident year projections are based on selected ratios of year-to-date IBNR to year-to-date selected ultimate (i.e. selected LR x earned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



amount of the preceding 24 calendar months.

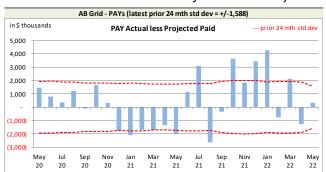
Alberta Grid RSP Actual Paid activity by Calendar Month

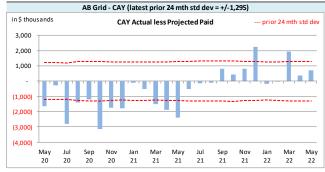




Paid activity variances from the previous month's projections shown in the following charts, including the prior 24-month standard deviation levels to show how the variances from projection compare with historical standard deviations.

Alberta Grid RSP Actual vs Projected Summary: Paid Variances by Calendar Month





On Latest \$thousands					
Paid	PAYs	CAY			
Mthly Avg Paid (prior 24 mths)	6,696	3,214			
std dev	1,588	1,295			
A-P <> std dev	10	11			
% <> std dev	40.0%	44.0%			
norm <> std dev	31.7%	31.7%			
performance vs 24-mth avg:	worse	worse			

With respect to **paid** indemnity & allowed claims expense, 40% of the prior accident years' (PAYs) variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **paid** amounts (see table on left), suggesting the projection process has performed worse than simply projecting the prior 24-month average

amount (assuming it follows a normal distribution), and we are actively looking into the projection process for means of improving this result. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (14 of 25 variances are positive).

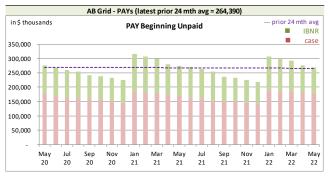
The PAY **paid** variance was just outside of the one standard deviation band this month (see preceding chart on the right). The lower than projected recorded activity was reviewed, and attributed to process variance.

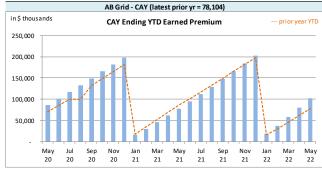
The current accident year (CAY) **paid** variances fell outside one standard deviation 44% of the time over the last 25 calendar months (see preceding table on the left), suggesting the projection process has performed no better than simply projecting the prior 24-month average amount. Bias has been indicated at a 95% confidence level on a rolling 25-month basis (8 of 25 variances are positive).

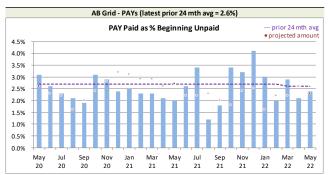


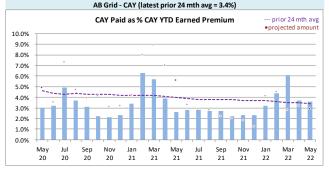
We have included, for reference, the following charts related to levels influencing paid activity.

Alberta Grid 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 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) is used to determine the month's IBNR¹⁰, and factors are 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

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".



projections and actuals based on the applicable valuation.

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

- (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)

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 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 82.3% rather than 81.7% (the valuation ultimate ratio for accident year 2022), as the calendar year-to-date earned premium includes prior accident year earned premium adjustments. (Note that the ratios in this table may differ slightly from those shown in the Alberta Grid RSP Summary of Operations due to rounding.)

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

				<u> </u>		<u> </u>		
Table 04	YTD Nomina	l Values	YTD actuarial pr adjustm	ol present value YTD Total		tal	Change from Prior Month YTD	
	Amount	% EP	Amount	% EP	Amount	% EP	Amount	LR pts
PAYs	(7,668)	(7.5%)	(13,343)	(13.1%)	(21,011)	(20.6%)	(8,380)	(4.6%)
CAY	83,751	82.3%	4,125	4.1%	87,876	86.4%	17,020	(3.3%)
TOTAL	76,083	74.8%	(9,218)	(9.1%)	66,865	65.7%	8,640	(8.0%)

("% EP" based on 2021 calendar year-to-date earned premium; ratios may not total 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.



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 implemented. The loss ratio change year-to-date in Table 04 reflects not only changes in the prior accident year levels, but also the increase in the calendar year-to-date earned premium with an additional month's earned premium, and due to the impact of valuation implementation.

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

5 Current Operational Report – Additional Exhibits

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

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

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

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

6 EXHIBITS

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

EXHIBIT A	IBNR for Member Sharing – includes Actuarial Present Value Adjustments
EXHIBIT B	IBNR
EXHIBIT C	Premium Liabilities
EXHIBIT D	Projected Year-end Policy Liabilities
EXHIBIT E	Discount Rate & Margins for Adverse Deviations
EXHIBIT F	Interest Rate Sensitivity
EXHIBIT G	Components of IBNR Change During Month



EXHIBIT A

IBNR for Member Sharing – includes Actuarial Present Value Adjustments

TABLE EXHIBIT A		Amounts in \$000s									
IBNR + M/S actuarial present	Accident	Actual	Actual	Projected	Projected	Projected	Projected	Projected	Projected		
value adjustments	Year	Apr. 2022	May. 2022	Jun. 2022	Jul. 2022	Aug. 2022	Sep. 2022	Oct. 2022	Dec. 2022		
	2006	(76)	(76)	(72)	(68)	(66)	(61)	(56)	(55)		
	2007	(131)	(133)	(126)	(119)	(115)	(106)	(96)	(94)		
	2008	(4)	(7)	(6)	(6)	(6)	(5)	(4)	(6)		
	2009	2	(2)	(2)	(2)	(2)	-	-	-		
	2010	71	62	59	57	55	52	48	45		
	2011	47	29	29	28	27	26	24	22		
	2012	37	87	84	81	80	78	78	68		
	2013	649	145	137	132	128	119	110	105		
	2014	430	426	407	387	376	356	332	313		
	2015	2,829	1,354	1,289	1,227	1,194	1,116	1,034	988		
	2016	3,374	2,520	2,399	2,282	2,216	2,068	1,913	1,832		
discount rate	2017	5,338	4,361	4,147	3,948	3,831	3,576	3,307	3,169		
2.24%	2018	9,748	8,151	7,794	7,386	6,870	6,542	6,075	5,483		
	2019	19,327	17,611	17,003	16,513	15,772	15,259	14,366	13,362		
interest rate margin	2020	31,560	28,873	27,571	26,509	25,475	24,521	23,461	22,553		
25 basis pts	2021	42,241	40,090	38,243	36,155	35,572	34,876	33,911	32,018		
	2022	46,232	55,046	69,089	79,910	90,552	100,438	110,666	129,090		
	TOTAL	161,464	158,626	168,130	174,501	182,038	188,930	195,240	208,959		
	Change		(2,838)	9,504	6,371	7,537	6,892	6,310			

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



EXHIBIT B

IBNR

TABLE EXHIBIT B		Amounts in \$000s								
IBNR	Ultimate	Accident	Actual	Actual	Projected	Projected	Projected	Projected	Projected	Projected
	Loss Ratio	Year	Apr. 2022	May. 2022	Jun. 2022	Jul. 2022	Aug. 2022	Sep. 2022	Oct. 2022	Dec. 2022
	66.4%	2006	(79)	(79)	(75)	(71)	(69)	(64)	(59)	(57)
	71.0%	2007	(159)	(159)	(151)	(143)	(138)	(128)	(117)	(114)
	67.1%	2008	(21)	(21)	(20)	(19)	(18)	(17)	(16)	(16)
	60.6%	2009	(15)	(15)	(14)	(13)	(13)	(12)	(11)	(11)
	61.7%	2010	45	45	43	41	40	37	34	33
	66.2%	2011	8	8	8	8	8	7	6	6
	73.4%	2012	(213)	(30)	(28)	(27)	(26)	(24)	(22)	(22)
	74.0%	2013	515	110	104	99	96	89	81	78
	80.3%	2014	201	262	249	236	228	211	193	187
	89.9%	2015	2,212	1,046	994	943	913	845	773	750
	93.4%	2016	2,590	2,057	1,954	1,854	1,795	1,660	1,519	1,475
	83.9%	2017	4,094	3,576	3,397	3,224	3,121	2,887	2,642	2,566
	81.1%	2018	7,174	6,526	6,200	5,828	5,344	5,050	4,636	4,186
	73.4%	2019	14,451	14,176	13,637	13,214	12,540	12,076	11,255	10,451
	64.3%	2020	25,177	24,488	23,264	22,264	21,284	20,411	19,452	18,739
	67.6%	2021	33,737	34,491	32,766	30,800	30,307	29,701	28,840	27,132
	81.7%	2022	40,938	50,921	63,937	73,765	83,375	92,227	101,350	117,543
		TOTAL	130,426	137,445	146,306	152,042	158,825	164,991	170,588	182,957
		Change		7.019	8.861	5.736	6.783	6.166	5.597	

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



EXHIBIT C

Premium Liabilities

TABLE EXHIBIT C	Amounts in \$000s								
	Actual	Actual	Projected	Projected	Projected	Projected	Projected	Projected	
Premium Liabilities	Apr. 2022	May. 2022	Jun. 2022	Jul. 2022	Aug. 2022	Sep. 2022	Oct. 2022	Dec. 2022	
(1) unearned premium (UP)	139,369	146,372	156,863	168,556	181,049	193,078	204,049	204,670	
FOR MEMBER SHARING									
(2) expected future costs ratio {% of (1)}	90.1%	87.1%	87.7%	88.1%	88.7%	89.2%	89.8%	91.0%	
(3) expected future costs {(1) x (2)}	125,511	127,554	137,493	148,562	160,514	172,199	183,166	186,275	
(4) premium deficiency / (deferred policy									
acquisition cost)	(13,858)	(18,818)	(19,370)	(19,994)	(20,535)	(20,879)	(20,883)	(18,395)	
Excluding Actuarial Present Value Adjustments									
(5) expected future costs ratio {% of (1)}	83.1%	82.9%	83.4%	83.9%	84.4%	84.9%	85.4%	86.6%	
(6) expected future costs {(1) x (5)}	115,859	121,400	130,859	141,394	152,767	163,889	174,328	177,285	
(7) premium deficiency / (deferred policy									
acquisition cost)	(23,510)	(24,972)	(26,004)	(27,162)	(28,282)	(29,189)	(29,721)	(27,385)	



EXHIBIT D

Projected Year-end Policy Liabilities

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

Alberta Grid	Projected Balances as at Dec. 31, 2022 (\$000s)												
ending 2022	nominal values				actuarial present value adjustments (apvs)								
Acc Yr	Case	IBNR	Total Unpaid	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL			
2006	81	(57)	24	-	-	2	-	2	2	26			
2007	336	(114)	222	(2)	-	22	-	22	20	242			
2008	157	(16)	141	(4)	-	14	-	14	10	151			
2009	156	(11)	145	(5)	1	15	-	15	11	156			
2010	211	33	244	(12)	1	24	(1)	23	12	256			
2011	385	6	391	(23)	2	39	(2)	37	16	407			
2012	2,841	(22)	2,819	(194)	21	282	(19)	263	90	2,909			
2013	1,059	78	1,137	(87)	9	114	(9)	105	27	1,164			
2014	2,056	187	2,243	(98)	10	224	(10)	214	126	2,369			
2015	3,763	750	4,513	(214)	23	450	(21)	429	238	4,751			
2016	5,299	1,475	6,774	(322)	34	677	(32)	645	357	7,131			
2017	9,352	2,566	11,918	(592)	63	1,191	(59)	1,132	603	12,521			
2018	20,055	4,186	24,241	(1,132)	120	2,422	(113)	2,309	1,297	25,538			
2019	28,628	10,451	39,079	(1,928)	204	4,876	(241)	4,635	2,911	41,990			
2020	34,859	18,739	53,598	(2,771)	293	6,635	(343)	6,292	3,814	57,412			
2021	47,112	27,132	74,244	(4,193)	442	9,154	(517)	8,637	4,886	79,130			
PAYs (sub-total):	156,549	65,414	221,963	(11,577)	1,223	26,176	(1,367)	24,809	14,455	236,418			
CAY (2022)	82,279	117,543	199,822	(11,997)	1,262	23,705	(1,423)	22,282	11,547	211,369			
claims liabilities:	238,828	182,957	421,785	(23,574)	2,485	49,881	(2,790)	47,091	26,002	447,787			
	Unearned Premium	Premium Deficiency / (DPAC)	Total Provision	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL*			
premium liabilities:	204,670	(27,385)	177,285	(9,268)	975	18,240	(957)	17,283	8,990	186,275			
						*	Total may not be s	um of parts, as ap	vs apply to future	costs within UPR			
policy liabilities:			599,070	(32,842)	3,460	68,121	(3,747)	64,374	34,992	634,062			



EXHIBIT E

Discount Rate & Margins for Adverse Deviations

The tables below present selected margins for adverse development by coverage (the total is a weighted average, based on the unpaid claims projection for December 31, 2022 from the valuation), followed by the selected discount rate and the associated margin for investment income.

Selected Claims Development MfADs

Accident Year	Third Party Liability	•		Total	
	Margins	Margins	Margins	Margins	
2005	10.0%	10.0%	10.0%	10.0%	
2006	10.0%	10.0%	10.0%	10.0%	
2007	10.0%	10.0%	10.0%	10.0%	
2008	10.0%	10.0%	10.0%	10.0%	
2009	10.0%	10.0%	10.0%	10.0%	
2010	10.0%	10.0%	10.0%	10.0%	
2011	10.0%	10.0%	10.0%	10.0%	
2012	10.0%	10.0%	10.0%	10.0%	
2013	10.0%	10.0%	10.0%	10.0%	
2014	10.0%	10.0%	8.2%	10.0%	
2015	10.0%	10.0%	5.3%	10.0%	
2016	10.0%	10.0%	9.9%	10.0%	
2017	10.0%	10.0%	9.3%	10.0%	
2018	10.0%	10.0%	9.1%	10.0%	
2019	12.5%	10.0%	11.2%	12.5%	
2020	12.5%	10.0%	7.5%	12.4%	
2021	12.4%	10.0%	10.5%	12.3%	
2022	12.2%	10.0%	7.2%	11.9%	
2023	11.9%	10.0%	5.1%	10.3%	
prem liab_	11.9%	10.0%	5.1%	10.3%	

discount rate: 2.24%

margin (basis points): 25

^{*}prem liabilities as at 2022m03



EXHIBIT F

Interest Rate Sensitivity

The tables below present sensitivity to the member statement claims liability as projected to Dec. 31, 2022 from the latest valuation date (projections in exhibits A to D are to Dec. 31, 2022, and are based on more up-to-date information). We have included the most recent valuation selection (1.04%), the prior valuation assumption (0.81%) and the prior fiscal year end valuation assumption (0.20%) for comparative purposes. A 25 basis point margin for investment return adverse deviation is used in all scenarios presented.

Υ	1.24%	1.74%	2.24%	2.74%	Discount Rates 3.24%	3.74%	1.04%	0.20
i	1.24/0	1.7470	2.2470	2.7470	3.2470	3.7470	1.04/0	0.20
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
	48	48	48	48	48	48	49	4
	280	279	279	278	277	277	280	28
	125	125	124	123	122	122	126	12
	177	175	174	173	171	170	177	17
	252	249	246	244	241	238	253	25
	471	465	458	452	447	441	473	48
	3,692	3,634	3,577	3,522	3,468	3,416	3,715	3,81
	769	755	742	730	717	705	775	79
	2,067	2,047	2,027	2,008	1,989	1,971	2,076	2,11
	5,079	5,025	4,972	4,920	4,870	4,821	5,102	5,19
	7,586	7,505	7,425	7,348	7,272	7,198	7,620	7,75
	11,797	11,664	11,535	11,409	11,286	11,167	11,851	12,07
	25,397	25,128	24,867	24,612	24,364	24,122	25,506	25,95
	40,370 52,925	39,919 52,304	39,480 51,700	39,052 51,112	38,635 50,539	38,229 49,980	40,554	41,30 54,21
					,		53,178	
	79,126	78,109	77,121	76,159	75,223	74,312	79,540	81,23
	180,845	178,363	175,953	173,611	171,335	169,122	181,858	186,01
	411,006	405,796	400,729	395,801	391,006	386,339	413,132	421,83
	curr - 100 bp	curr - 50 bp	curr val	curr + 50bp	curr + 100bp	urr + 150bp	prior val	prior fyr ei
	1		assumption				assumption	assumptio
_ !					Valuation Ass			
		1.74%						
- :	1.24%		2.24%	2.74%	3.24%	3.74%	1.04%	
_ :	10,277	5,066	-	(4,928)	(9,723)	(14,390)	1.04%	0.20 21,10
_ :			curr val	(4,928)	(9,723)	(14,390)		
_ :	10,277	5,066	-	(4,928)	(9,723)	(14,390)	12,403	21,10
<u> </u>	10,277	5,066	curr val assumption	(4,928) curr + 50bp	(9,723) curr + 100bp c	(14,390) urr + 150bp	12,403 prior val	21,10 prior fyr er
_ : _ :	10,277 curr - 100 bp	5,066 curr - 50 bp	curr val assumption Percentage I	(4,928) curr + 50bp	(9,723) curr + 100bp c	(14,390) urr + 150bp assumption	12,403 prior val assumption	21,10 prior fyr er assumption
<u>-</u>	10,277	5,066	curr val assumption Percentage I	(4,928) curr + 50bp	(9,723) curr + 100bp c	(14,390) urr + 150bp	12,403 prior val	21,10 prior fyr er assumption
<u> </u>	10,277 curr - 100 bp	5,066 curr - 50 bp	curr val assumption Percentage II 2.24%	(4,928) curr + 50bp mpact Relative 2.74%	(9,723) curr + 100bp c e to Valuation A 3.24%	(14,390) urr + 150bp ssumption 3.74%	12,403 prior val assumption 1.04%	21,10 prior fyr er assumption 0.20
_ :	10,277 curr - 100 bp 1.24%	5,066 curr - 50 bp 1.74%	curr val assumption Percentage II 2.24%	(4,928) curr + 50bp mpact Relative 2.74%	(9,723) curr + 100bp c e to Valuation A 3.24%	(14,390) urr + 150bp sssumption 3.74%	12,403 prior val assumption 1.04%	21,10 prior fyr er assumption 0.20
_ : _ ! _ !	10,277 curr - 100 bp 1.24% 0.0%	5,066 curr - 50 bp 1.74% 0.0% 0.0%	curr val assumption Percentage II 2.24% 0.0%	(4,928) curr + 50bp mpact Relative 2.74%	(9,723) curr + 100bp c e to Valuation A 3.24%	(14,390) urr + 150bp sssumption 3.74% 0.0%	12,403 prior val assumption 1.04%	21,10 prior fyr er assumption 0.20 0.0
_ :	10,277 curr - 100 bp 1.24% 0.0% 0.0%	5,066 curr - 50 bp 1.74%	curr val assumption Percentage II 2.24%	(4,928) curr + 50bp mpact Relative 2.74%	(9,723) curr + 100bp c e to Valuation A 3.24%	(14,390) urr + 150bp .ssumption 3.74%; 0.0% 0.0%	12,403 prior val assumption 1.04%	21,10 prior fyr er assumption 0.20 0.0
_ :	10,277 curr - 100 bp 1.24% 0.0%	5,066 curr - 50 bp 1.74% 0.0% 0.0%	curr val assumption Percentage II 2.24% 0.0%	(4,928) curr + 50bp mpact Relative 2.74% 0.0% 0.0%	(9,723) curr + 100bp c e to Valuation A 3.24% 0.0% 0.0%	(14,390) urr + 150bp sssumption 3.74% 0.0%	12,403 prior val assumption 1.04% 0.0% 0.0%	21,10 prior fyr er assumption 0.20 0.0
_ !	10,277 curr - 100 bp 1.24% 0.0% 0.0%	5,066 curr - 50 bp 1.74% 0.0% 0.0% 0.1%	curr val assumption Percentage II 2.24% 0.0% 0.0% 0.0%	(4,928) curr + 50bp mpact Relative 2.74% 0.0% 0.0% -0.1%	(9,723) curr + 100bp c e to Valuation A 3.24% 0.0% 0.0% -0.2%	(14,390) urr + 150bp .ssumption 3.74%; 0.0% 0.0%	12,403 prior val assumption 1.04% 0.0% 0.0% 0.3%	21,10 prior fyr er assumption 0.20 0.0 0.0 1.0
	10,277 curr - 100 bp 1.24% 0.0% 0.0% 0.5%	5,066 curr - 50 bp 1.74% 0.0% 0.0% 0.1% 0.2%	curr val assumption Percentage II 2.24% 0.0% 0.0% 0.0%	(4,928) curr + 50bp mpact Relative 2.74% 0.0% 0.0% -0.1% -0.2%	(9,723) curr + 100bp c to Valuation A 3.24% 0.0% 0.0% -0.2% -0.5%	(14,390) urr + 150bp .ssumption 3.74%; 0.0% 0.0% -0.4% -0.7%;	12,403 prior val assumption 1.04% 0.0% 0.0% 0.3% 0.6%	21,10 prior fyr er assumption 0.20 0.0 0.5 1.0
_ :	10,277 curr - 100 bp 1.24% 0.0% 0.2% 0.5% 1.2%	5,066 curr - 50 bp 1.74% 0.0% 0.0% 0.1% 0.2% 0.6%		(4,928) curr + 50bp mpact Relative 2.74% 0.0% 0.0% -0.1% -0.2% -0.6%	(9,723) curr+100bp c e to Valuation A 3.24% 0.0% 0.0% -0.5% -1.2%	(14,390) urr + 150bp sssumption 3.74% 0.0% 0.0% -0.4% -0.7% -1.8%	12,403 prior val assumption 1.04% 0.0% 0.0% 0.3% 0.6% 1.5%	21,10 prior fyr er assumption 0.20 0.0 0.1 1.0 2.5 3.0
_	10,277 curr - 100 bp 1.24% 0.0% 0.2% 0.5% 1.2% 1.5%	5,066 curr - 50 bp 1.74% 0.0% 0.0% 0.1% 0.2% 0.6% 0.7%		(4,928) curr + 50bp mpact Relative 2.74% 0.0% -0.1% -0.2% -0.6% -0.7% -1.1%	(9,723) curr + 100bp c e to Valuation A 3.24% 0.0% 0.0% -0.2% -0.5% -1.2% -1.4% -2.1%	(14,390) urr + 150bp .ssumption 3.74%; 0.0% -0.4% -0.7% -1.8% -2.1% -3.2%	12,403 prior val assumption 1.04% 0.0% 0.0% 0.6% 1.5% 1.8%	21,10 prior fyr er assumptiol 0.20 0.0 0.0 1.0 2.5 3.0
_ :	10,277 curr - 100 bp 1.24% 0.0% 0.2% 0.5% 1.2% 1.5%	5,066 curr - 50 bp 1.74% 0.0% 0.1% 0.2% 0.6% 0.7% 1.1%		(4,928) curr + 50bp mpact Relative 2.74% 0.0% -0.1% -0.2% -0.6% -0.7%	(9,723) curr+100bp c e to Valuation A 3.24% 0.0% 0.0% -0.2% -0.5% -1.2% -1.4%	(14,390) urr + 150bp sssumption 3.74% 0.0% 0.0% -0.4% -0.7% -1.8% -2.1%	12,403 prior val assumption 1.04% 0.0% 0.3% 0.6% 1.5% 1.8% 2.7%	21,10 prior fyr er assumptiol 0.20 0.0 0.0 1.0 4.5
	10,277 curr - 100 bp 1.24% 0.0% 0.2% 0.5% 1.2% 1.5% 2.2% 2.2%	5,066 curr - 50 bp 1.74% 0.0% 0.1% 0.2% 0.6% 0.7% 1.1% 1.3%	curr val assumption Percentage II 2.24% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(4,928) curr + 50bp mpact Relative 2.74% 0.0% 0.0% 0.1% -0.2% -0.6% -0.17% -1.1% -1.3% -1.5%	(9,723) curr + 100bp c 2 to Valuation A 3.24% 0.0% 0.0% 0.2% -0.5% -1.2% -1.4% -2.6% -3.0%	(14,390) urr + 150bp 3.74%; 0.0% 0.0% -0.4% -0.7%; -2.19; -3.2% -3.2% -4.5%	12,403 prior val assumption 1.04% 0.0% 0.3% 0.6% 1.5% 1.8% 2.7% 3.3% 3.9%	21,10 prior fyr er assumptiol 0.20 0.0 0.0 0.5 1.0 2.5 3.0 4.9 5.5 6.6
	10,277 curr - 100 bp 1.24%i 0.0% 0.2% 0.5%i 1.2% 2.2%i 2.2%i 3.2%i 3.6%	5,066 curr - 50 bp 1.74% 0.0% 0.1% 0.2% 0.6% 0.7% 1.1% 1.3%		(4,928) curr + 50bp mpact Relative 2.74% 0.0% -0.1% -0.2% -0.6% -1.1% -1.3% -1.5% -1.5% -1.7%	(9,723) curr + 100bp c e to Valuation A 3.24% 0.0% 0.0% -0.2% -0.5% -1.2% -1.4% -2.1% -2.6% -3.0% -3.0%	(14,390) urr + 150bp .ssumption 3.74%; 0.0% -0.4% -0.7% -1.8% -2.1% -3.2% -3.8% -4.5% -5.0%	12,403 prior val assumption 1.04% 0.0% 0.3% 0.68% 1.5% 1.8% 2.7% 3.3% 4.3%	21,10 prior fyr er assumptiol 0.20 0.0 0.0 1.0 2.5 3.0 4.5 6.6
	10,277 curr - 100 bp 1.24% 0.0% 0.0% 0.5% 1.296 2.7% 3.2% 3.6% 2.0%	5,066 curr - 50 bp 1.74% 0.0% 0.1% 0.2% 0.6% 0.7% 1.1% 1.3% 1.6% 1.8%		(4,928) curr + 50bp mpact Relative 2.74% 0.0% 0.0% -0.1% -0.2% -0.7% -1.1% -1.3% -1.5% -1.7% -1.7%	(9,723) curr+100bp c e to Valuation A 3.24% 0.0% -0.2% -0.5% -1.2% -1.4% -2.1% -2.6% -3.0% -3.4% -1.9%	(14,390) urr + 150bp .ssumption 3.74%; 0.0%; -0.4%; -0.7%; -1.8%; -2.1%; -3.2%; -4.5%; -5.0%; -2.8%;	12,403 prior val assumption 1.04% 0.0% 0.0% 0.6% 1.5% 1.8% 2.7% 3.3% 4.3% 2.4%	21,10 prior fyr er assumption 0.20 0.0 0.0 1.0 2.5 3.0 4.9 5.5 6.6 7.4 4.1
	10,277 curr - 100 bp 1.24% 0.0% 0.0% 0.2% 1.2% 2.7% 3.2% 2.7% 3.6% 2.0% 2.2% 2.2%	5,066 curr - 50 bp 1.74% 0.0% 0.0% 0.1% 0.2% 0.6% 0.7% 1.1% 1.3% 1.6% 1.8% 1.0%	curr val assumption Percentage Ir 2.24% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	(4,928) curr + 50bp mpact Relative 2.74% 0.0% -0.1% -0.2% -0.6% -0.7% -1.1% -1.3% -1.5% -1.7% -1.0%	(9,723) curr+100bp c 2 to Valuation A 3.24% 0.0% 0.0% 0.0% 0.5% -1.2% -1.4% -2.6% -3.0% -3.4% -1.9% -2.1%	(14,390) urr + 150bp ssumption 3.74%; 0.0% 0.0% -0.4% -0.7% -1.8% -2.1% -3.2% -3.8% -4.5% -5.0% -2.8% -3.0%	12,403 prior val assumption 1.04% 0.0% 0.0% 0.3% 0.6% 1.5% 2.7% 3.3% 4.3% 2.4% 2.6%	21,10 prior fyr er assumptiol 0.20 0.0 0.0 0.9 1.0 2.9 3.0 4.9 5.5 6.6 7.4 4.3
	10,277 curr - 100 bp 1.24% 0.0% 0.9% 0.5% 1.5% 2.29% 2.7% 3.6% 2.0% 2.2% 2.2% 2.2% 2.2%	5,066 curr - 50 bp 1.74% 0.0% 0.1% 0.2% 0.6% 0.6% 1.1% 1.3% 1.0% 1.10%		(4,928) curr + 50bp mpact Relative 2.74% 0.0% 0.0% -0.1% -0.2% -0.6% -0.7% -1.1% -1.3% -1.5% -1.0% -1.0% -1.0%	(9,723) curr + 100bp c e to Valuation A 3.24% 0.0% 0.0% 0.2% 0.5% 1.2% 1.4% 2.1% 2.6% 3.0% 3.4% 2.1% 2.1% 2.1%	(14,390) urr + 150bp 3.74%; 0.0% -0.4% -0.7% -1.8% -2.11% -3.2% -3.2% -5.0% -2.8% -3.1%	12,403 prior val assumption 1.04% 0.0% 0.3% 0.6% 1.5% 2.7% 3.3% 3.9% 4.3% 2.4% 2.6% 2.6%	21,10 prior fyr er assumption 0.20 0.0 0.0 0.5 1.0 2.5 3.0 4.9 4.1 4.4 4.5
	10,277 curr - 100 bp 1.24% 0.0% 0.2% 0.5% 1.29% 2.2% 2.2% 2.2% 2.2% 2.3%	5,066 curr - 50 bp 1.74% 0.0% 0.1% 0.2% 0.6% 0.7% 1.1% 1.6% 1.8% 1.0% 1.1%		(4,928) curr + 50bp mpact Relative 2.74% 0.0% 0.0% -0.1% -0.2% -0.7% -1.1% -1.5% -1.0% -1.0% -1.0% -1.0% -1.0% -1.0% -1.0% -1.0% -1.0% -1.0% -1.0% -1.0% -1.0% -1.0% -1.0% -1.0% -1.0% -1.0% -1.1%	(9,723) curr + 100bp c c to Valuation A 3.24% 0.0% 0.0% -0.2% -0.5% -1.2% -1.4% -2.1% -2.6% -3.0% -3.4% -1.9% -2.1% -2.1% -2.1% -2.1% -2.1% -2.1%	(14,390) urr + 150bp 3.74% 0.0% 0.0% -0.4% -0.7% -1.8% -2.1% -3.2% -3.8% -4.5% -5.0% -3.8% -3.8% -3.8% -3.8% -3.8% -3.8% -3.8% -3.2%	12,403 prior val assumption 1.04% 0.0% 0.3% 0.6% 1.5% 1.8% 2.7% 3.3% 2.4% 2.6% 2.6% 2.6%	21,10 prior fyr er assumptiol 0.20 0.00 0.00 1.00 2.9 3.00 4.9 4.9 4.9
	10,277 curr - 100 bp 1.24%i 0.0% 0.0% 0.5% 1.5% 2.2% 2.7% 3.2% 3.6% 2.0% 2.2% 2.2% 2.2% 2.2% 2.2% 2.2% 2.2	5,066 curr - 50 bp 1.74% 0.0% 0.0% 0.1% 0.2% 0.6% 0.7% 1.1% 1.36% 1.0% 1.11% 1.11% 1.11%	Curr val assumption Percentage It 2.24%; 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0	(4,928) curr + 50bp mpact Relative 2.74%; 0.0% 0.0% -0.19% -0.2% -0.6% -1.19% -1.3% -1.5% -1.7% -1.0% -1.0% -1.0% -1.0% -1.0% -1.0% -1.0% -1.0% -1.0%	(9,723) curr + 100bp c e to Valuation A 3.24% 0.0% 0.0% -0.5% -1.2% -2.6% -3.0% -3.4% -1.9% -2.1% -2.1% -2.1% -2.2% -2.0%	(14,390) urr + 150bp ssumption 3.74%; 0.0% 0.0% -0.4% -0.7% -1.8% -2.1% -3.2% -3.2% -3.8% -3.8% -3.8% -3.8% -3.8% -3.8% -3.9% -3.0%	12,403 prior val assumption 1.04% 0.0% 0.3% 0.6% 1.5% 1.8% 2.7% 3.3% 2.4% 2.6% 2.6% 2.7% 2.6%	21,10 prior fyr er assumption 0.20 0.0 0.0 1.0 2.5 3.0 4.9 4.1 4.4 4.4 4.5
	10,277 curr - 100 bp 1.24% 0.0% 0.0% 0.5% 1.2% 2.7% 3.26% 3.26% 2.2% 2.2% 2.2% 2.2% 2.36% 2.2% 2.36%	5,066 curr - 50 bp 1.74% 0.0% 0.0% 0.2% 0.6% 0.7% 1.19% 1.3% 1.6% 1.8% 1.0% 1.11% 1.11%		(4,928) curr + 50bp mpact Relative 2.74%; 0.0% 0.0% -0.1% -0.2% -0.7% -1.1% -1.3% -1.5% -1.7% -1.0% -1.0% -1.1% -1.0% -1.1% -1.0% -1.1%	(9,723) curr + 100bp c e to Valuation A 3.24% 0.0% 0.0% -0.2% -0.5% -1.2% -2.6% -3.0% -3.4% -1.9% -2.1% -2.1% -2.2% -2.2% -2.0% -2.1%	(14,390) urr + 150bp ssumption 3.74%; 0.0% -0.4% -0.7% -1.8% -2.1% -3.2% -3.2% -3.0% -3.1% -3.2% -3.0% -3.2%	12,403 prior val assumption 1.04% 0.0% 0.0% 0.3% 0.6% 1.5% 1.8% 2.7% 3.3% 3.9% 4.3% 2.4% 2.6% 2.7% 2.6% 2.7%	21,1(prior fyr er assumptio 0.2(0.0 0.0 1.(2.9 3.3 4.4 5.5 6.6 7.4 4.1 4.4 4.4 4.4
	10,277 curr - 100 bp 1.24% 0.0% 0.2% 0.5% 1.2% 2.2% 2.7% 3.2% 2.2% 2.2% 2.2% 2.2% 2.2% 2.2% 2.2	5,066 curr - 50 bp 1.74% 0.0% 0.0% 0.1% 0.2% 0.6% 0.7% 1.1% 1.3% 1.6% 1.1% 1.1% 1.1% 1.1% 1.1%		(4,928) curr + 50bp mpact Relative 2.74% 0.0% 0.0% -0.1% -0.2% -0.6% -1.1% -1.3% -1.5% -1.0% -1.0% -1.1% -1.1% -1.1% -1.1% -1.1% -1.1% -1.1% -1.1%	(9,723) curr + 100bp c c to Valuation A 3.24% 0.0% 0.0% -0.2% -0.5% -1.2% -2.1% -2.6% -3.0% -3.4% -1.9% -2.1% -2.1% -2.2% -2.1% -2.2% -2.1% -2.2% -2.1% -2.2%	(14,390) urr + 150bp 3.74% 0.0% -0.4% -0.7% -1.8% -2.1% -3.2% -3.3% -3.0% -3.2% -3.3% -3.2% -3.3% -3.2% -3.3% -3.3%	12,403 prior val assumption 1.04% 0.0% 0.0% 0.3% 0.6% 1.5% 2.7% 3.3% 3.9% 4.3% 2.6% 2.6% 2.6% 2.7% 2.6% 2.7%	21,10 prior fyr er assumption 0.20 0.0 0.5 1.0 2.5 3.0 4.9 4.1 4.4 4.6 4.9
	10,277 curr - 100 bp 1.24% 0.0% 0.0% 0.5% 1.296 2.2% 2.7% 3.6% 2.2% 2.2% 2.2% 2.3% 2.1% 2.3% 2.1% 2.3% 2.4% 2.4% 2.4% 2.6%	5,066 curr - 50 bp 1.74%; 0.0% 0.1% 0.2% 0.6% 1.1% 1.3% 1.0% 1.18% 1.19%		(4,928) curr + 50bp mpact Relative 2.74% 0.0% 0.0% 0.1% -0.2% -0.6% -1.1% -1.5% -1.0% -1.0% -1.0% -1.1%	(9,723) curr + 100bp c to Valuation A 3.24% 0.0% 0.0% 0.2% -0.5% -1.2% -1.4% -2.6% -3.0% -3.4% -1.9% -2.1% -2.1% -2.2% -2.1% -2.2% -2.2% -2.2% -2.5%	(14,390) urr + 150bp 3.74% 0.0% 0.0% -0.4% -0.7% -1.8% -2.1% -3.2% -3.2% -3.3% -3.0% -3.1% -3.3% -3.0% -3.3% -3.6%	12,403 prior val assumption 1.04% 0.0% 0.0% 0.3% 0.6% 1.5% 2.7% 3.3% 3.9% 4.3% 2.4% 2.6% 2.6% 2.7% 2.6% 2.7% 2.9% 3.1%	21,10 prior fyr er assumption 0.20 0.0 0.0 0.1.0 2.9 3.0 4.9 5.5 6.6 7.4 4.1 4.4 4.9 5.5
	10,277 curr - 100 bp 1.24% 0.0% 0.2% 0.5% 1.2% 2.2% 2.7% 3.2% 2.2% 2.2% 2.2% 2.2% 2.2% 2.2% 2.2	5,066 curr - 50 bp 1.74% 0.0% 0.0% 0.1% 0.2% 0.6% 0.7% 1.1% 1.3% 1.6% 1.1% 1.1% 1.1% 1.1% 1.1%		(4,928) curr + 50bp mpact Relative 2.74% 0.0% 0.0% -0.1% -0.2% -0.6% -1.1% -1.3% -1.5% -1.0% -1.0% -1.1% -1.1% -1.1% -1.1% -1.1% -1.1% -1.1% -1.1%	(9,723) curr + 100bp c c to Valuation A 3.24% 0.0% 0.0% -0.2% -0.5% -1.2% -2.1% -2.6% -3.0% -3.4% -1.9% -2.1% -2.1% -2.2% -2.1% -2.2% -2.1% -2.2% -2.1% -2.2%	(14,390) urr + 150bp 3.74% 0.0% -0.4% -0.7% -1.8% -2.1% -3.2% -3.3% -3.0% -3.2% -3.3% -3.2% -3.3% -3.2% -3.3% -3.3%	12,403 prior val assumption 1.04% 0.0% 0.0% 0.3% 0.6% 1.5% 2.7% 3.3% 3.9% 4.3% 2.6% 2.6% 2.6% 2.7% 2.6% 2.7%	21,10 prior fyr er assumption 0.20 0.0 0.0 1.0 2.5 3.0 4.9 4.9 4.1 4.1 4.1 4.1 4.1 4.1



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Components of Member Statement IBNR (i.e. "Discounted") Change (April 2022 to May 2022)

RSP Alberta Grid
AccountCode Desc IBNR - Discounted

M/S IBNR - in \$000s

AccYear	Sum of Prior Month Actual Amount	Sum of Projected Change	Sum of Change Due to AvsP Variances	Sum of Change Due to Valuation Implementation	Sum of Total Change	Sum of % Total Change	Sum of Current Month Final Amount
prior	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-
2004	(70)	4	(4)	-	-	-	(70)
2005	(140)	6	(3)	296	299	(213.6%)	159
2006	(77)	5	(4)	-	1	(1.3%)	(76)
2007	(131)	7	(7)	(2)	(2)	1.5%	(133)
2008	(4)	1	(1)	(3)	(3)	75.0%	(7)
2009	1	-	1	(4)	(3)	(300.0%)	(2)
2010	71	(5)	5	(9)	(9)	(12.7%)	62
2011	47	(3)	3	(18)	(18)	(38.3%)	29
2012	50	(1)	(12)	50	37	74.0%	87
2013	649	(34)	67	(537)	(504)	(77.7%)	145
2014	548	(25)	(178)	81	(122)	(22.3%)	426
2015	2,989	(147)	107	(1,595)	(1,635)	(54.7%)	1,354
2016	3,494	(172)	9	(811)	(974)	(27.9%)	2,520
2017	5,109	(262)	(39)	(447)	(748)	(14.6%)	4,361
2018	10,237	(789)	(125)	(1,172)	(2,086)	(20.4%)	8,151
2019	20,131	(1,412)	(156)	(952)	(2,520)	(12.5%)	17,611
2020	32,902	(2,641)	296	(1,684)	(4,029)	(12.2%)	28,873
2021	44,161	(3,772)	585	(884)	(4,071)	(9.2%)	40,090
2022	32,947	29,609	(4,313)	(3,197)	22,099	67.1%	55,046
Grand Total	152,914	20,369	(3,769)	(10,888)	5,712	3.7%	158,626



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Components of IBNR (i.e. "Undiscounted") Change (April 2022 to May 2022)

RSP Alberta Grid
AccountCode Desc IBNR - Undiscounted

IBNR - in \$000s

AccYear	Sum of Prior Month Actual Amount	Sum of Projected Change	Sum of Change Due to AvsP Variances	Sum of Change Due to Valuation Implementation	Sum of Total Change	Sum of % Total Change	Sum of Current Month Final Amount
prior	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-
2004	(78)	4	(4)	-	-	-	(78)
2005	(151)	8	(5)	269	272	(180.1%)	121
2006	(80)	5	(4)	-	1	(1.3%)	(79)
2007	(159)	8	(8)	-	-	-	(159)
2008	(21)	1	(1)	-	-	-	(21)
2009	(16)	1	-	-	1	(6.3%)	(15)
2010	45	(3)	3	-	-	-	45
2011	8	-	-	-	-	-	8
2012	(212)	11	(12)	183	182	(85.8%)	(30)
2013	515	(28)	63	(440)	(405)	(78.6%)	110
2014	304	(14)	(172)	144	(42)	(13.8%)	262
2015	2,355	(122)	133	(1,320)	(1,309)	(55.6%)	1,046
2016	2,708	(141)	13	(523)	(651)	(24.0%)	2,057
2017	3,821	(208)	(37)	-	(245)	(6.4%)	3,576
2018	7,626	(657)	(122)	(321)	(1,100)	(14.4%)	6,526
2019	15,132	(1,159)	(158)	361	(956)	(6.3%)	14,176
2020	26,436	(2,390)	246	196	(1,948)	(7.4%)	24,488
2021	35,432	(3,273)	512	1,820	(941)	(2.7%)	34,491
2022	29,010	26,340	(3,814)	(615)	21,911	75.5%	50,921
Grand Total	122,675	18,383	(3,367)	(246)	14,770	12.0%	137,445