

## Nova Scotia RSP

### Exhibit A

#### Summary of Valuation Selection Changes over Time

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Facility Association Prior Accident Year Change in Estimated Ultimate Incurred Amounts  
RSP - Nova Scotia  
Amounts in \$000s  
as at March 31, 2019

	Change in Selected Ultimates from prior Sept 30th						
	Sep-12	Sep-13	Sep-14	Sep-15	Sep-16	Sep-17	Sep-18
AY2008 & Prior	46	(59)	342	(29)	253	(167)	(4)
AY2009	(872)	257	(108)	(84)	14	(13)	(43)
AY2010	(867)	(377)	(104)	(113)	(187)	1	(103)
AY2011	(295)	390	609	617	496	(189)	(114)
AY2012		1,543	1,099	292	1,033	221	(361)
AY2013			(28)	549	195	37	362
AY2014				(342)	(52)	(71)	(455)
AY2015					(603)	(773)	331
AY2016						(624)	711
AY2017							304
AY2018							
<b>Total</b>	<b>(1,989)</b>	<b>1,755</b>	<b>1,810</b>	<b>889</b>	<b>1,149</b>	<b>(1,577)</b>	<b>627</b>

	Change in Selected Ultimates from Prior Quarter End				
	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19
	-	-	-	-	-
	-	-	-	-	-
	-	(4)	-	-	-
	-	(34)	-	-	-
	(250)	(60)	-	-	-
	(176)	7	-	-	-
	(10)	215	-	-	-
	(52)	(17)	-	-	-
	(292)	96	-	-	-
	(64)	55	-	-	-
	-	867	-	-	-
<b>Total</b>	<b>(845)</b>	<b>1,125</b>	<b>-</b>	<b>-</b>	<b>-</b>

	Change in Selected Ultimates as % Beginning Unpaid						
	Sep-12	Sep-13	Sep-14	Sep-15	Sep-16	Sep-17	Sep-18
AY2008 & Prior	2.2%	(4.4%)	113.7%	(7.9%)	90.4%	(62.0%)	(8.9%)
AY2009	(20.9%)	10.2%	(8.4%)	(30.2%)	7.6%	(10.5%)	(38.6%)
AY2010	(13.9%)	(8.7%)	(4.5%)	(8.1%)	(36.1%)	0.4%	(75.1%)
AY2011	(5.2%)	10.1%	19.3%	23.4%	18.0%	(8.4%)	(9.9%)
AY2012		24.9%	18.3%	5.4%	23.3%	5.2%	(10.8%)
AY2013			(0.4%)	8.9%	3.3%	0.7%	8.8%
AY2014				(4.2%)	(0.8%)	(1.5%)	(13.6%)
AY2015					(6.6%)	(10.8%)	5.9%
AY2016						(6.3%)	8.9%
AY2017							2.6%
AY2018							
<b>Total</b>	<b>(11.5%)</b>	<b>8.2%</b>	<b>9.7%</b>	<b>4.4%</b>	<b>4.7%</b>	<b>(4.5%)</b>	<b>1.6%</b>

	Change from Prior Quarter End				
	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19
	-	-	-	-	-
	-	-	-	-	-
	-	(100.0%)	-	-	-
	-	(3.6%)	-	-	-
	(12.8%)	(5.3%)	-	-	-
	(6.1%)	0.3%	-	-	-
	(0.6%)	13.2%	-	-	-
	(1.0%)	(0.4%)	-	-	-
	(4.2%)	1.5%	-	-	-
	(0.6%)	0.6%	-	-	-
	-	5.0%	-	-	-
<b>Total</b>	<b>(2.8%)</b>	<b>2.5%</b>	<b>-</b>	<b>-</b>	<b>-</b>

Note:

- "Change in Selected Ultimates from prior Sept 30th" is calculated as the fiscal year change in nominal selected ultimate losses from the prior September 30th valuation (for the last accident year, this fiscal year change is estimated as the change in the accident year selected nominal loss ratio against the accident year earned premium as at the current valuation date)
- "Change in Selected Ultimates as % of Beginning Unpaid" is calculated as the Change in Selected Ultimates from Prior valuation date (for September 30th valuations for the last accident year, this change is estimated as 75% of the full year change in selected ultimates) over the selected nominal Unpaid at the prior valuation date

## Nova Scotia RSP

### Exhibit B

#### Exhibit B.1 (total government lines)

- B.1.1 Summary of Nominal Results
  - B.1.2 Loss Ratios over Time
  - B.1.3.1 Comparison of Government Line Ultimates
  - B.1.3.2 Selected Losses by Method
  - B.1.3.3 Comparison of IBNR by Method
  - B.1.4.1 a priori LRs
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## Nova Scotia RSP

### Exhibit B

#### Exhibit B.2 (TPL govt line)

- B.2.1 Summary of Nominal Results
- B.2.2 Loss Ratios over Time
- B.2.3 a priori LRs
- B.2.4.1 Selected Losses by Method
- B.2.4.2 Comparison of IBNR by Method
- B.2.4.4-1 Selected Losses by Method at Coverage Level
- B.2.4.4-2 Comparison of IBNR by Method at Coverage Level

#### Exhibit B.3 (Accident Benefits govt line – same as above)

#### Exhibit B.4 (Other govt line – same as above)

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Facility Association      **Valuation Results**  
 Amounts in: \$1,000s      as at March 31, 2019  
**Coverage: Total**  
**RSP: Nova Scotia**

Life to Date															
Accident Year	Earned Premium \$000s [2] <i>database</i>	Paid Indemnity & Allowed Claims Expense			Case Reserves			Recorded Indemnity & Allowed Claims Expense		Selected IBNR		Ultimate Indemnity & Allowed Claims Expense		Unpaid Indemnity & Allowed Claims Expense	
		\$000s [3] <i>database</i>	% EP [4] = [3]/[2]	\$000s [5] = [7]-[3]	% EP [6] = [5]/[2]	\$000s [7] <i>database</i>	% EP [8] = [7]/[2]	\$000s [9] <i>database</i>	% EP [10] = [9]/[2]	\$000s [11] = [7]+[9]	% EP [12] = [11]/[2]	\$000s [13] = [5]+[9]	% EP [14] = [13]/[2]		
2014 & prior	93,664	70,878	75.7%	5,386	5.8%	76,264	81.4%	2	-	76,266	81.4%	5,388	5.8%		
2015	14,026	7,919	56.5%	3,568	25.4%	11,487	81.9%	222	1.6%	11,709	83.5%	3,790	27.0%		
2016	14,845	8,025	54.1%	4,504	30.3%	12,529	84.4%	1,009	6.8%	13,538	91.2%	5,513	37.1%		
2017	19,014	7,951	41.8%	6,146	32.3%	14,097	74.1%	3,582	18.8%	17,679	93.0%	9,728	51.2%		
2018	27,753	10,737	38.7%	7,018	25.3%	17,755	64.0%	8,961	32.3%	26,716	96.3%	15,979	57.6%		
2019	7,306	1,846	25.3%	2,474	33.9%	4,320	59.1%	2,442	33.4%	6,762	92.6%	4,916	67.3%		
<b>TOTAL</b>	<b>176,608</b>	<b>107,356</b>	<b>60.8%</b>	<b>29,096</b>	<b>16.5%</b>	<b>136,452</b>	<b>77.3%</b>	<b>16,218</b>	<b>9.2%</b>	<b>152,670</b>	<b>86.4%</b>	<b>45,314</b>	<b>25.7%</b>		

2018 & prior	169,302	105,510	62.3%	26,622	15.7%	132,132	78.0%	13,776	8.1%	145,908	86.2%	40,398	23.9%
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Activity During Quarter vs EP															
Accident Year	Earned Premium (LTD) \$000s [16] <i>database</i>	Change in Paid Indemnity & Allowed Claims Expense			Change in Case Reserves			Change in Recorded Indemnity & Allowed Claims Expense		Change in Selected IBNR		Change in Ultimate Indemnity & Allowed Claims Expense		Change in Unpaid Indemnity & Allowed Claims Expense	
		\$000s [17] <i>database</i>	% EP [18] = [17]/[16]	\$000s [19] <i>database</i>	% EP [20] = [19]/[16]	\$000s [21] <i>database</i>	% EP [22] = [21]/[16]	\$000s [23] <i>database</i>	% EP [24] = [23]/[16]	\$000s [25] <i>database</i>	% EP [26] = [25]/[16]	\$000s [27] <i>database</i>	% EP [28] = [27]/[16]		
2014 & prior	93,664	971	1.0%	(846)	(0.9%)	125	0.1%	(1)	-	124	0.1%	(847)	(0.9%)		
2015	14,026	780	5.6%	(687)	(4.9%)	93	0.7%	(110)	(0.8%)	(17)	(0.1%)	(797)	(5.7%)		
2016	14,845	794	5.3%	(400)	(2.7%)	394	2.7%	(298)	(2.0%)	96	0.6%	(698)	(4.7%)		
2017	19,014	285	1.5%	153	0.8%	438	2.3%	(383)	(2.0%)	55	0.3%	(230)	(1.2%)		
2018	27,753	2,067	7.4%	(1,163)	(4.2%)	904	3.3%	(37)	(0.1%)	867	3.1%	(1,200)	(4.3%)		
<b>TOTAL</b>	<b>169,302</b>	<b>4,897</b>	<b>2.9%</b>	<b>(2,943)</b>	<b>(1.7%)</b>	<b>1,954</b>	<b>1.2%</b>	<b>(829)</b>	<b>(0.5%)</b>	<b>1,125</b>	<b>0.7%</b>	<b>(3,772)</b>	<b>(2.2%)</b>		

Emergence During Quarter											
Accident Year	Beginning IBNR \$000s [30] <i>database</i>	Beginning Unpaid \$000s [31] <i>database</i>	Change in Paid Indemnity & Allowed Claims Expense			Change in Recorded Indemnity & Allowed Claims Expense			Change in Ultimate Indemnity & Allowed Claims Expense		
			\$000s [32] <i>database</i>	% Beg Unpaid [33] = [32]/[31]	\$000s [34] <i>database</i>	% Beg IBNR [35] = [34]/[30]	\$000s [36] <i>database</i>	% Beg Unpaid [37] = [36]/[31]			
2014 & prior	3	6,235	971	15.6%	125	4,166.7%	124	2.0%			
2015	332	4,587	780	17.0%	93	28.0%	(17)	(0.4%)			
2016	1,307	6,211	794	12.8%	394	30.1%	96	1.5%			
2017	3,965	9,958	285	2.9%	438	11.0%	55	0.6%			
2018	8,998	17,179	2,067	12.0%	904	10.0%	867	5.0%			
<b>TOTAL</b>	<b>14,605</b>	<b>44,170</b>	<b>4,897</b>	<b>11.1%</b>	<b>1,954</b>	<b>13.4%</b>	<b>1,125</b>	<b>2.5%</b>			

Facility Association  
Amounts in: \$1,000s  
**Coverage: Total**  
**RSP: Nova Scotia**

**Loss Ratios Over Time**  
as at March 31, 2019

Accident Year [1]	Earned Premium @ Mar 2019 [2] <i>database</i>	Paid Claims Amt* @ Mar 2019 [3] <i>database</i>	Case Reserve @ Mar 2019 [4] = [5]-[3]	Recorded Claims Amt* @ Mar 2019 [5] <i>database</i>	Selected IBNR @ Mar 2019 [6] <i>database</i>	Ultimate Claims Amt* @ Mar 2019 [7] = [5]+[6]	Selected Ultimate LR @ Mar 2019 [8] = [7]/[2]	Selected Ultimate LR @ Dec 2018 [9] <i>database</i>	Selected Ultimate LR @ Sep 2018 [10] <i>database</i>	Selected Ultimate LR @ Jun 2018 [11] <i>database</i>	Selected Ultimate LR @ Mar 2018 [12] <i>database</i>	Sel Ult LR @ Mar 2019 compared with prior Sel Ult LR @ Dec 2018		Sel Ult LR @ Mar 2019 compared with prior Sel Ult LR @ Mar 2018	
												Ultimate LR [13] = [8]-[9]	Claims Amt* [14] [14]	Ultimate LR [15] = [8]-[12]	Claims Amt* @ curr EP [16] = [2]*[15]
2007	2,057	1,109	-	1,109	-	1,109	53.9%	53.9%	53.9%	53.9%	53.9%	-	-	-	-
2008	10,620	7,252	-	7,252	-	7,252	68.3%	68.3%	68.3%	68.3%	68.3%	-	-	-	-
2009	14,065	8,900	69	8,969	-	8,969	63.8%	63.8%	63.8%	63.8%	63.8%	-	-	-	-
2010	14,454	10,605	-	10,605	-	10,605	73.4%	73.4%	73.4%	74.0%	74.0%	-	(4)	(0.6%)	(87)
2011	12,312	10,908	163	11,071	-	11,071	89.9%	90.2%	90.2%	89.5%	89.5%	(0.3%)	(34)	0.4%	49
2012	13,197	12,698	874	13,572	-	13,572	102.8%	103.3%	105.2%	107.6%	107.6%	(0.5%)	(60)	(4.8%)	(633)
2013	13,787	10,043	2,453	12,496	-	12,496	90.6%	90.6%	91.9%	90.7%	90.5%	-	7	0.1%	14
2014	13,172	9,363	1,827	11,190	2	11,192	85.0%	83.3%	83.4%	84.7%	85.2%	1.7%	215	(0.2%)	(26)
2015	14,026	7,919	3,568	11,487	222	11,709	83.5%	83.6%	84.0%	81.7%	81.4%	(0.1%)	(17)	2.1%	295
2016	14,845	8,025	4,504	12,529	1,009	13,538	91.2%	90.5%	92.5%	91.6%	93.3%	0.7%	96	(2.1%)	(312)
2017	19,014	7,951	6,146	14,097	3,582	17,679	93.0%	92.7%	93.0%	94.9%	92.8%	0.3%	55	0.2%	38
2018	27,753	10,737	7,018	17,755	8,961	26,716	96.3%	93.0%	90.1%	85.6%	87.7%	3.3%	867	-	-
2019	7,306	1,846	2,474	4,320	2,442	6,762	92.6%	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>176,608</b>	<b>107,356</b>	<b>29,096</b>	<b>136,452</b>	<b>16,218</b>	<b>152,670</b>	<b>86.4%</b>	<b>85.5%</b>	<b>85.3%</b>	<b>84.8%</b>	<b>84.8%</b>		<b>1,125</b>		<b>(662)</b>
<b>2018 &amp; prior</b>	<b>169,302</b>	<b>105,510</b>	<b>26,622</b>	<b>132,132</b>	<b>13,776</b>	<b>145,908</b>	<b>86.2%</b>	<b>85.5%</b>	<b>85.3%</b>	<b>84.8%</b>	<b>84.8%</b>		<b>1,125</b>		<b>(662)</b>

\* Claims Amt = indemnity & allowed claims expense (where latter is allowed expense over and above the claims expense included in the expense allowance for member companies)

\*\* Accident year loss ratios are as at the valuation date, for the current accident year, these loss ratios are based on partial year exposure, as such, larger variances may be expected

Facility Association

**Comparison of Selected Ultimate Incurred Claims Amounts by Coverage**

as at March 31, 2019

Amounts in: \$1,000s

**RSP: Nova Scotia**

Accident Year	Prior Analysis (Dec 2018)				Current Analysis (Mar 2019)				Change from Prior Analysis			
	Third Party Liability	Accident Benefits	Other Coverages	Total	Third Party Liability	Accident Benefits	Other Coverages	Total	Third Party Liability	Accident Benefits	Other Coverages	Total
2007	589	51	469	1,109	589	51	469	1,109	-	-	-	-
2008	4,290	545	2,416	7,252	4,290	545	2,416	7,252	-	-	-	-
2009	5,514	558	2,897	8,969	5,514	558	2,897	8,969	-	-	-	-
2010	7,296	692	2,621	10,609	7,292	692	2,621	10,605	(4)	-	-	(4)
2011	8,012	604	2,489	11,105	7,978	604	2,489	11,071	(34)	-	-	(34)
2012	10,065	1,147	2,421	13,632	10,003	1,147	2,421	13,572	(62)	-	-	(60)
2013	8,888	1,025	2,576	12,489	8,887	1,033	2,576	12,496	(1)	8	-	7
2014	7,930	695	2,352	10,977	8,146	694	2,352	11,192	216	(1)	-	215
2015	7,898	1,364	2,464	11,726	7,890	1,355	2,464	11,709	(8)	(9)	-	(17)
2016	10,012	1,016	2,414	13,442	10,212	911	2,415	13,538	200	(105)	1	96
2017	12,319	1,767	3,538	17,624	12,438	1,717	3,525	17,679	119	(50)	(13)	55
2018	18,178	2,093	5,578	25,849	18,507	2,077	6,133	26,716	329	(16)	555	867
2019	-	-	-	-	4,524	640	1,598	6,762	4,524	640	1,598	6,762
<b>Total</b>	<b>100,991</b>	<b>11,557</b>	<b>32,235</b>	<b>144,783</b>	<b>106,270</b>	<b>12,024</b>	<b>34,376</b>	<b>152,670</b>	<b>5,279</b>	<b>467</b>	<b>2,141</b>	<b>7,887</b>
<b>2018 &amp; Prior</b>	<b>100,991</b>	<b>11,557</b>	<b>32,235</b>	<b>144,783</b>	<b>101,746</b>	<b>11,384</b>	<b>32,778</b>	<b>145,908</b>	<b>755</b>	<b>(173)</b>	<b>543</b>	<b>1,125</b>

Facility Association

**Estimated and Selected Ultimate Losses by Method**  
 as at March 31, 2019

Coverage: **Total**  
 RSP: Nova Scotia  
 Amounts in: \$1,000s

Accident Year	Actual Experience				Ultimate Loss Estimates																					
	Earned Premium	Paid Claims to Date	Case Reserves	Reported to Date	ELR Method*	Link Ratio Method	Implied BF ELR Method weight*	Implied BF Link Ratio Method weight*	BF Method*	ELR Method weight	Link Ratio Method weight	ELR & LR Wtd Method	Incurred (Zero IBNR)	User Defined 1	User Defined 2	ELR Method Ult LR*	Link Ratio Method Ult LR	BF Method Ult LR*	ELR & LR Wtd Method Ult LR	Incurred (Zero IBNR) Ult LR	User Defined 1 Ult LR	User Defined 2 Ult LR	Selected Ultimate Claims Amount	Selected Ultimate Loss Ratio		
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]		
2007	2,057	1,109	-	1,109		1,109						1,109	1,109				53.9%		53.9%	53.9%				1,109	53.9%	
2008	10,620	7,252	-	7,252		7,252						7,252	7,252				68.3%		68.3%	68.3%				7,252	68.3%	
2009	14,065	8,900	68	8,969		8,968						8,968	8,969				63.8%		63.8%	63.8%				8,969	63.8%	
2010	14,454	10,605	-	10,605	8,649	10,605	-	100.0%	10,605			10,605	10,605				59.8%	73.4%	73.4%	73.4%	73.4%				10,605	73.4%
2011	12,312	10,908	163	11,071	7,892	11,071	-	100.0%	11,071			11,071	11,071				64.1%	89.9%	89.9%	89.9%	89.9%				11,071	89.9%
2012	13,197	12,698	874	13,572	9,346	13,572	-	100.0%	13,572			13,572	13,572				70.8%	102.8%	102.8%	102.8%	102.8%				13,572	102.8%
2013	13,787	10,043	2,453	12,496	10,310	12,499	-	100.0%	12,498			12,499	12,496				74.8%	90.7%	90.7%	90.7%	90.6%				12,496	90.6%
2014	13,172	9,363	1,827	11,190	10,629	11,192	(0.4%)	100.4%	11,194			11,192	11,190				80.7%	85.0%	85.0%	85.0%	85.0%				11,192	85.0%
2015	14,026	7,919	3,567	11,487	11,948	11,728	(8.9%)	108.9%	11,708			11,698	11,487				85.2%	83.6%	83.5%	83.4%	81.9%				11,709	83.5%
2016	14,845	8,025	4,504	12,529	13,065	13,615	32.2%	67.8%	13,438			13,271	12,529				88.0%	91.7%	90.5%	89.4%	84.4%				13,538	91.2%
2017	19,014	7,951	6,146	14,097	17,591	16,454	29.3%	70.7%	16,787			17,365	14,097				92.5%	86.5%	88.3%	91.3%	74.1%				17,679	93.0%
2018	27,753	10,737	7,019	17,755	25,924	21,491	42.0%	58.0%	23,350			25,720	17,755				93.4%	77.4%	84.1%	92.7%	64.0%				26,716	96.3%
2019	7,306	1,846	2,474	4,320	13,270	9,149	77.8%	22.2%	12,353			-	4,320				181.6%	125.2%	169.1%		59.1%				6,762	92.5%
<b>Total</b>	<b>176,607</b>	<b>107,355</b>	<b>29,097</b>	<b>136,452</b>	<b>128,622</b>	<b>148,704</b>			<b>136,576</b>			<b>144,321</b>	<b>136,452</b>												<b>152,670</b>	

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*For 'off-half' valuation quarters (Mar and Sep), the current accident year (CAY) by method Ultimate Loss estimates ([5] to [22]) are aggregated from a coverage level



Facility Association

**Comparison of Estimated Ultimate Losses by Method**  
 as at March 31, 2019

Coverage: Total

RSP: Nova Scotia

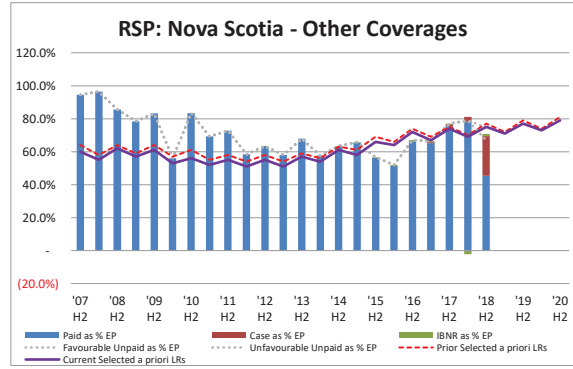
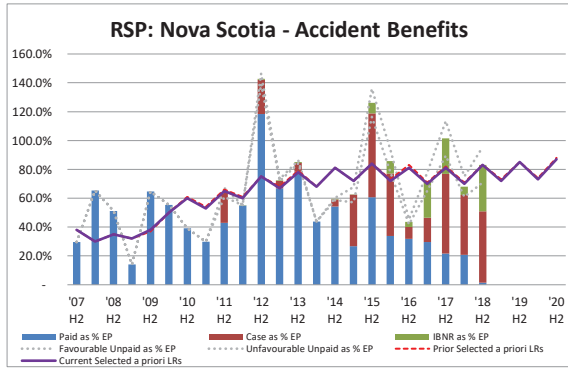
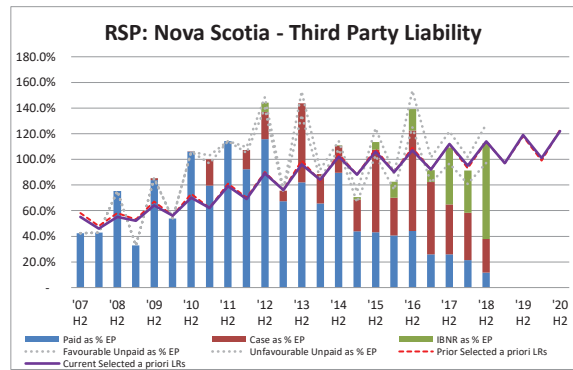
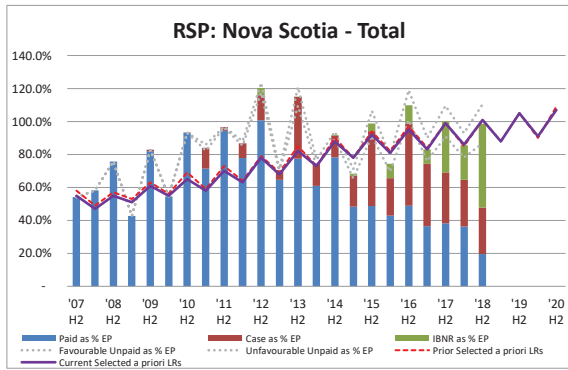
Amounts in: \$1,000s

Accident Year	Current Valuation Results (as at Mar 2019)											Prior Valuation Results (as at Dec 2018)							Change from Prior Valuation			
	ELR Method*	Link Ratio Method	BF Method*	ELR & LR Wtd Method	Incurred (Zero IBNR)	User Defined 1	User Defined 2	Selected IBNR Method**	Selected IBNR	Selected Ultimate	Selected Ultimate LR	ELR Method*	LR Ratio Method	BF Method*	Selected IBNR Method**	Selected IBNR	Selected Ultimate	Selected Ultimate LR	Incurred to Date	Selected IBNR	Selected Ultimate	Selected Ultimate LR
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
2007		1,109		1,109	1,109		N/A	-	1,109	53.9%		1,109		N/A	-	1,109	53.9%	-	-	-	-	
2008		7,252		7,252	7,252		N/A	-	7,252	68.3%		7,252		N/A	-	7,252	68.3%	-	-	-	-	
2009		8,968		8,968	8,969		N/A	-	8,969	63.8%		8,967		N/A	-	8,969	63.8%	-	-	-	-	
2010	8,649	10,605	10,605	10,605	10,605		N/A	-	10,605	73.4%	8,649	10,609	10,609	N/A	-	10,609	73.4%	(4)	-	(4)	-	
2011	7,892	11,071	11,071	11,071	11,071		N/A	-	11,071	89.9%	7,892	11,104	11,104	N/A	-	11,105	90.2%	(34)	-	(34)	(0.3%)	
2012	9,346	13,572	13,572	13,572	13,572		N/A	-	13,572	102.8%	9,346	13,632	13,632	N/A	-	13,632	103.3%	(60)	-	(60)	(0.5%)	
2013	10,310	12,499	12,498	12,499	12,496		N/A	-	12,496	90.6%	10,310	12,494	12,494	N/A	-	12,489	90.6%	7	-	7	-	
2014	10,629	11,192	11,194	11,192	11,190		N/A	2	11,192	85.0%	10,629	10,976	10,980	N/A	3	10,977	83.3%	216	(1)	215	1.7%	
2015	11,948	11,728	11,708	11,698	11,487		N/A	222	11,709	83.5%	11,948	11,745	11,725	N/A	332	11,726	83.6%	93	(110)	(17)	(0.1%)	
2016	13,065	13,615	13,438	13,271	12,529		N/A	1,009	13,538	91.2%	13,065	13,480	13,278	N/A	1,307	13,442	90.5%	394	(298)	96	0.7%	
2017	17,591	16,454	16,787	17,365	14,097		N/A	3,582	17,679	93.0%	17,594	16,320	16,723	N/A	3,965	17,624	92.7%	438	(383)	55	0.3%	
2018	25,924	21,491	23,350	25,720	17,755		N/A	8,961	26,716	96.3%	25,963	20,836	22,901	N/A	8,998	25,849	93.0%	904	(37)	867	3.3%	
2019	13,270	9,149	12,353	-	4,320		N/A	2,442	6,762	92.5%	-	-	-	N/A	-	-	-	4,320	2,442	6,762	92.5%	
<b>Total</b>	<b>128,622</b>	<b>148,704</b>	<b>136,576</b>	<b>144,321</b>	<b>136,452</b>			<b>16,218</b>	<b>152,670</b>		<b>115,396</b>	<b>138,524</b>	<b>123,444</b>		<b>14,605</b>	<b>144,783</b>		<b>6,274</b>	<b>1,613</b>	<b>7,887</b>		
<b>2018 &amp; Prior</b>	<b>115,353</b>	<b>139,555</b>	<b>124,223</b>	<b>144,321</b>	<b>132,132</b>			<b>13,776</b>	<b>145,908</b>		<b>115,396</b>	<b>138,524</b>	<b>123,444</b>		<b>14,605</b>	<b>144,783</b>		<b>1,954</b>	<b>(829)</b>	<b>1,125</b>		

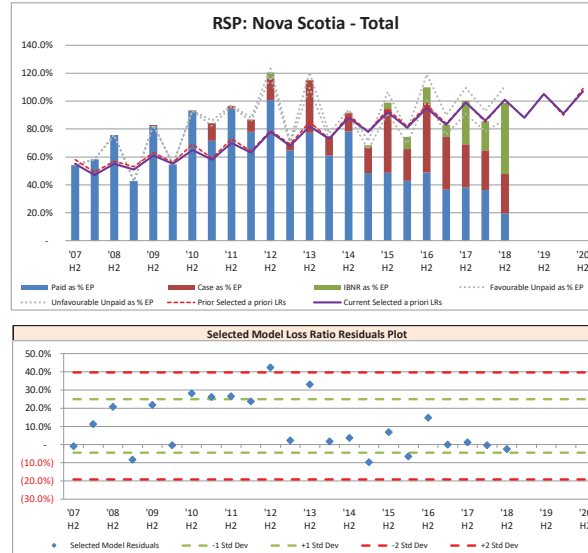
\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*IBNR selected on a coverage level and aggregated to a Government Line (or Total) level

Accident Period	CURRENT				PRIOR				CHANGE			
	Third Party Liability	Accident Benefits	Other Coverages	Total	Third Party Liability	Accident Benefits	Other Coverages	Total	Third Party Liability	Accident Benefits	Other Coverages	Total
2013 / 2	96.0%	78.0%	57.0%	82.0%	99.0%	79.0%	59.0%	85.0%	(3.0%)	(1.0%)	(2.0%)	(3.0%)
2014 / 1	84.0%	68.0%	54.0%	73.0%	83.0%	68.0%	56.0%	73.0%	1.0%	-	(2.0%)	-
2014 / 2	102.0%	81.0%	61.0%	88.0%	104.0%	81.0%	63.0%	90.0%	(2.0%)	-	(2.0%)	(2.0%)
2015 / 1	88.0%	72.0%	58.0%	78.0%	88.0%	72.0%	61.0%	78.0%	-	-	(3.0%)	-
2015 / 2	106.0%	84.0%	66.0%	92.0%	108.0%	84.0%	69.0%	94.0%	(2.0%)	-	(3.0%)	(2.0%)
2016 / 1	90.0%	72.0%	64.0%	81.0%	90.0%	73.0%	66.0%	82.0%	-	(1.0%)	(2.0%)	(1.0%)
2016 / 2	107.0%	81.0%	72.0%	95.0%	109.0%	83.0%	74.0%	97.0%	(2.0%)	(2.0%)	(2.0%)	(2.0%)
2017 / 1	92.0%	70.0%	67.0%	83.0%	92.0%	71.0%	69.0%	84.0%	-	(1.0%)	(2.0%)	(1.0%)
2017 / 2	112.0%	81.0%	74.0%	99.0%	112.0%	82.0%	75.0%	99.0%	-	(1.0%)	(1.0%)	-
2018 / 1	95.0%	70.0%	69.0%	86.0%	93.0%	71.0%	70.0%	85.0%	2.0%	(1.0%)	(1.0%)	1.0%
2018 / 2	114.0%	83.0%	75.0%	101.0%	114.0%	83.0%	77.0%	101.0%	-	-	(2.0%)	-
2019 / 1	97.0%	72.0%	71.0%	88.0%	97.0%	73.0%	72.0%	88.0%	-	(1.0%)	(1.0%)	-
2019 / 2	119.0%	85.0%	77.0%	105.0%	118.0%	85.0%	79.0%	105.0%	1.0%	-	(2.0%)	-
2020 / 1	101.0%	73.0%	73.0%	91.0%	99.0%	74.0%	74.0%	90.0%	2.0%	(1.0%)	(1.0%)	1.0%
2020 / 2	122.0%	87.0%	79.0%	107.0%	123.0%	88.0%	81.0%	109.0%	(1.0%)	(1.0%)	(2.0%)	(2.0%)



Accident Period	Current Selected	Prior Selected	Change
2007 / 2	55.0%	58.0%	(3.0%)
2008 / 1	47.0%	49.0%	(2.0%)
2008 / 2	55.0%	57.0%	(2.0%)
2009 / 1	51.0%	53.0%	(2.0%)
2009 / 2	61.0%	63.0%	(2.0%)
2010 / 1	55.0%	56.0%	(1.0%)
2010 / 2	65.0%	69.0%	(4.0%)
2011 / 1	58.0%	59.0%	(1.0%)
2011 / 2	70.0%	73.0%	(3.0%)
2012 / 1	63.0%	64.0%	(1.0%)
2012 / 2	78.0%	79.0%	(1.0%)
2013 / 1	68.0%	69.0%	(1.0%)
2013 / 2	82.0%	85.0%	(3.0%)
2014 / 1	73.0%	73.0%	-
2014 / 2	88.0%	90.0%	(2.0%)
2015 / 1	78.0%	78.0%	-
2015 / 2	92.0%	94.0%	(2.0%)
2016 / 1	81.0%	82.0%	(1.0%)
2016 / 2	95.0%	97.0%	(2.0%)
2017 / 1	83.0%	84.0%	(1.0%)
2017 / 2	99.0%	99.0%	-
2018 / 1	86.0%	85.0%	1.0%
2018 / 2	101.0%	101.0%	-
2019 / 1	88.0%	88.0%	-
2019 / 2	105.0%	105.0%	-
2020 / 1	91.0%	90.0%	1.0%
2020 / 2	107.0%	109.0%	(2.0%)



Current AHY: 2018 / 2

Accident Period	Sep 30, 2018 valuation result				
	Actual Earned Premium	Paid Claims Amount	Case Reserves	Selected Ultimate Claims Amount*	Selected Ultimate Loss Ratio
	[1]	[2]	[3]	[4]	[5]
	val data	val data	val data	val data	=[4]/[1]
2007 / 2	3,259	1,059	-	1,059	32.5%
2008 / 1	7,492	2,628	-	2,628	35.1%
2008 / 2	10,112	4,624	-	4,624	45.7%
2009 / 1	11,011	2,849	-	2,849	25.9%
2009 / 2	7,391	6,051	68	6,120	82.8%
2010 / 1	7,413	4,049	-	4,049	54.6%
2010 / 2	7,041	6,556	4	6,560	93.2%
2011 / 1	6,345	4,537	799	5,336	84.1%
2011 / 2	5,968	5,636	132	5,769	96.7%
2012 / 1	5,957	4,643	526	5,170	86.8%
2012 / 2	7,239	7,287	1,102	8,713	120.4%
2013 / 1	7,110	4,580	390	4,984	70.1%
2013 / 2	6,677	5,170	2,507	7,682	115.0%
2014 / 1	6,415	3,910	883	4,794	74.7%
2014 / 2	6,756	5,282	886	6,193	91.7%
2015 / 1	6,804	3,296	1,265	4,647	68.3%
2015 / 2	7,223	3,509	3,292	7,131	98.7%
2016 / 1	7,234	3,104	1,639	5,377	74.3%
2016 / 2	7,611	3,717	3,790	8,357	109.8%
2017 / 1	7,940	2,895	3,009	6,588	83.0%
2017 / 2	11,077	4,232	3,419	11,100	100.2%
2018 / 1	13,391	4,853	3,806	11,465	85.6%
<b>Total</b>	<b>167,466</b>	<b>94,476</b>	<b>27,517</b>	<b>131,193</b>	<b>78.3%</b>

\*Indemnity & allowed claims expense from FA Valuation Summary

Adjust EP to 2018 / 2 rate level			
Rate Change	Drift (RG, class, etc.)	Other	EP @ 2018 / 2 rate level
[6]	[7]	[8]	[9]
industry avg EP relativity	assumption	assumption	=[1]*[6]*[7]*[8]
1.0353	1.0000	1.0000	3,375
1.0465	1.0000	1.0000	7,840
1.0670	1.0000	1.0000	10,791
1.0744	1.0000	1.0000	11,830
1.0693	1.0000	1.0000	7,903
1.0621	1.0000	1.0000	7,874
1.0719	1.0000	1.0000	7,547
1.0795	1.0000	1.0000	6,851
1.0896	1.0000	1.0000	6,502
1.1039	1.0000	1.0000	6,576
1.1343	1.0000	1.0000	8,210
1.1434	1.0000	1.0000	8,130
1.1420	1.0000	1.0000	7,624
1.1343	1.0000	1.0000	7,276
1.1383	1.0000	1.0000	7,690
1.1365	1.0000	1.0000	7,734
1.1266	1.0000	1.0000	8,137
1.1099	1.0000	1.0000	8,029
1.0830	1.0000	1.0000	8,243
1.0657	1.0000	1.0000	8,462
1.0458	1.0000	1.0000	11,584
1.0175	1.0000	1.0000	13,625
<b>1.0858</b>	<b>1.0000</b>	<b>1.0000</b>	<b>181,833</b>

2017-2 AIX

Adjust Ultimate Claims Amount to 2018 / 2 cims level			
Loss Cost Trend Factor	Reform Adj Factor	Other Factor	Ult. Clms Amt @ 2018 / 2 cims level
[10]	[11]	[12]	[13]
trend analysis	assumption	assumption	=[4]*[10]*[11]*[12]
1.7262	1.0000	1.0000	1,827
1.9974	1.0000	1.0000	5,249
1.9199	1.0000	1.0000	8,878
1.8072	1.0000	1.0000	5,148
1.7934	1.0000	1.0000	10,973
1.8895	1.0000	1.0000	7,650
1.6659	1.0000	1.0000	10,928
1.9008	1.0000	1.0000	10,143
1.5706	1.0000	1.0000	9,059
1.8081	1.0000	1.0000	9,347
1.4964	1.0000	1.0000	13,038
1.6830	1.0000	1.0000	8,387
1.4052	1.0000	1.0000	10,794
1.5762	1.0000	1.0000	7,556
1.3166	1.0000	1.0000	8,155
1.4511	1.0000	1.0000	6,743
1.2264	1.0000	1.0000	8,746
1.3790	1.0000	1.0000	7,414
1.1525	1.0000	1.0000	9,632
1.2954	1.0000	1.0000	8,535
1.0708	1.0000	1.0000	11,886
1.1975	1.0000	1.0000	13,730
<b>1.4774</b>	<b>1.0000</b>	<b>1.0000</b>	<b>193,818</b>

on industry 2018-1 AIX data derived from 2018 / 2 on-levels

On-Level to 2018 / 2 Loss Ratios	Weights
[14]	[15]
54.1%	-
67.0%	-
82.3%	-
43.5%	-
138.8%	-
97.2%	-
144.8%	-
148.1%	-
139.3%	0.1%
142.1%	0.1%
158.8%	0.1%
103.2%	0.1%
141.6%	1.9%
103.8%	1.9%
106.0%	1.9%
87.2%	6.2%
107.5%	14.6%
92.3%	14.6%
116.9%	14.6%
100.9%	14.6%
102.6%	14.7%
100.8%	14.8%
<b>106.6%</b>	<b>100.2%</b>

weighted average: 103.5%  
selected: 101.0%  
current: 101.0%  
prior

Premium adjustment factors [6]-[8], Claims adjustment factors [10]-[12], and selected experience period weights [15] are selected at the coverage level, implied aggregate factors are presented above

Facility Association      **Valuation Results**  
 Amounts in: \$1,000s      as at March 31, 2019  
**Coverage: Third Party Liability**  
**RSP: Nova Scotia**

Life to Date													
Accident Year	Earned Premium	Paid Indemnity & Allowed Claims Expense		Case Reserves		Recorded Indemnity & Allowed Claims Expense		Selected IBNR		Ultimate Indemnity & Allowed Claims Expense		Unpaid Indemnity & Allowed Claims Expense	
	\$000s	\$000s	% EP	\$000s	% EP	\$000s	% EP	\$000s	% EP	\$000s	% EP	\$000s	% EP
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]
	database	database	= [3]/[2]	= [7]-[3]	= [5]/[2]	database	= [7]/[2]	database	= [9]/[2]	= [7]+[9]	= [11]/[2]	= [5]+[9]	= [13]/[2]
2014 & prior	58,384	47,466	81.3%	5,233	9.0%	52,699	90.3%	-	-	52,699	90.3%	5,233	9.0%
2015	8,534	4,779	56.0%	2,926	34.3%	7,705	90.3%	185	2.2%	7,890	92.5%	3,111	36.5%
2016	9,234	4,892	53.0%	4,399	47.6%	9,291	100.6%	921	10.0%	10,212	110.6%	5,320	57.6%
2017	12,169	3,881	31.9%	5,446	44.8%	9,327	76.6%	3,111	25.6%	12,438	102.2%	8,557	70.3%
2018	17,688	4,132	23.4%	6,223	35.2%	10,355	58.5%	8,152	46.1%	18,507	104.6%	14,375	81.3%
2019	4,647	593	12.8%	1,198	25.8%	1,791	38.5%	2,733	58.8%	4,524	97.4%	3,931	84.6%
<b>TOTAL</b>	<b>110,656</b>	<b>65,743</b>	<b>59.4%</b>	<b>25,425</b>	<b>23.0%</b>	<b>91,168</b>	<b>82.4%</b>	<b>15,102</b>	<b>13.6%</b>	<b>106,270</b>	<b>96.0%</b>	<b>40,527</b>	<b>36.6%</b>

2018 & prior	106,009	65,150	61.5%	24,227	22.9%	89,377	84.3%	12,369	11.7%	101,746	96.0%	36,596	34.5%
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Activity During Quarter vs EP													
Accident Year	Earned Premium (LTD)	Change in Paid Indemnity & Allowed Claims Expense		Change in Case Reserves		Change in Recorded Indemnity & Allowed Claims Expense		Change in Selected IBNR		Change in Ultimate Indemnity & Allowed Claims Expense		Change in Unpaid Indemnity & Allowed Claims Expense	
	\$000s	\$000s	% EP	\$000s	% EP	\$000s	% EP	\$000s	% EP	\$000s	% EP	\$000s	% EP
[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
	database	database	= [17]/[16]	database	= [19]/[16]	database	= [21]/[16]	database	= [23]/[16]	database	= [25]/[16]	database	= [27]/[16]
2014 & prior	58,384	940	1.6%	(825)	(1.4%)	115	0.2%	-	-	115	0.2%	(825)	(1.4%)
2015	8,534	766	9.0%	(673)	(7.9%)	93	1.1%	(101)	(1.2%)	(8)	(0.1%)	(774)	(9.1%)
2016	9,234	589	6.4%	(112)	(1.2%)	477	5.2%	(277)	(3.0%)	200	2.2%	(389)	(4.2%)
2017	12,169	264	2.2%	208	1.7%	472	3.9%	(353)	(2.9%)	119	1.0%	(145)	(1.2%)
2018	17,688	842	4.8%	(94)	(0.5%)	748	4.2%	(419)	(2.4%)	329	1.9%	(513)	(2.9%)
<b>TOTAL</b>	<b>106,009</b>	<b>3,401</b>	<b>3.2%</b>	<b>(1,496)</b>	<b>(1.4%)</b>	<b>1,905</b>	<b>1.8%</b>	<b>(1,150)</b>	<b>(1.1%)</b>	<b>755</b>	<b>0.7%</b>	<b>(2,646)</b>	<b>(2.5%)</b>

Emergence During Quarter									
Accident Year	Beginning IBNR	Beginning Unpaid	Change in Paid Indemnity & Allowed Claims Expense		Change in Recorded Indemnity & Allowed Claims Expense		Change in Ultimate Indemnity & Allowed Claims Expense		
	\$000s	\$000s	\$000s	% Beg Unpaid	\$000s	% Beg IBNR	\$000s	% Beg Unpaid	
[29]	[30]	[31]	[32]	[33]	[34]	[35]	[36]	[37]	
	database	database	[17]	= [32]/[31]	[21]	= [34]/[30]	[25]	= [36]/[31]	
2014 & prior	-	6,058	940	15.5%	115	100.0%	115	1.9%	
2015	286	3,885	766	19.7%	93	32.5%	(8)	(0.2%)	
2016	1,198	5,709	589	10.3%	477	39.8%	200	3.5%	
2017	3,464	8,702	264	3.0%	472	13.6%	119	1.4%	
2018	8,571	14,888	842	5.7%	748	8.7%	329	2.2%	
<b>TOTAL</b>	<b>13,519</b>	<b>39,242</b>	<b>3,401</b>	<b>8.7%</b>	<b>1,905</b>	<b>14.1%</b>	<b>755</b>	<b>1.9%</b>	

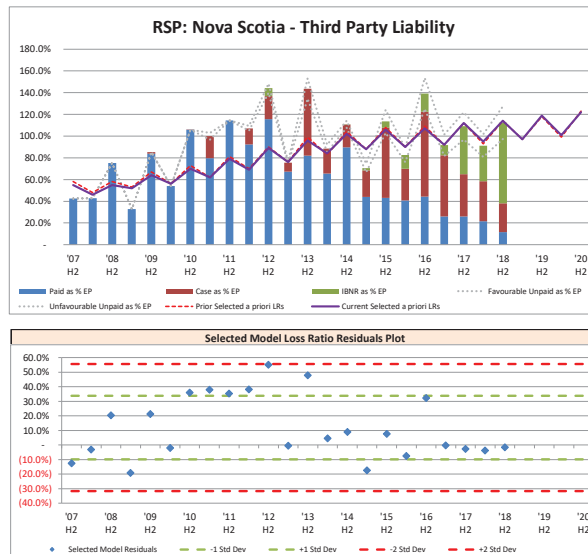
Facility Association      **Loss Ratios Over Time**  
 Amounts in: \$1,000s      as at March 31, 2019  
**Coverage: Third Party Liability**  
**RSP: Nova Scotia**

Accident Year [1]	Earned Premium @ Mar 2019 [2]	Paid Claims Amt* @ Mar 2019 [3]	Case Reserve @ Mar 2019 [4]	Recorded Claims Amt* @ Mar 2019 [5]	Selected IBNR @ Mar 2019 [6]	Ultimate Claims Amt* @ Mar 2019 [7]	Selected Ultimate LR @ Mar 2019 [8]	Selected Ultimate LR @ Dec 2018 [9]	Selected Ultimate LR @ Sep 2018 [10]	Selected Ultimate LR @ Jun 2018 [11]	Selected Ultimate LR @ Mar 2018 [12]	Sel Ult LR @ Mar 2019 compared with prior Sel Ult LR @ Dec 2018		Sel Ult LR @ Mar 2019 compared with prior Sel Ult LR @ Mar 2018		
	database	database	= [5]-[3]	database	database	= [5]+[6]	= [7]/[2]	database	database	database	database	database	Ultimate LR [13]	Claims Amt* [14]	Ultimate LR [15]	Claims Amt* @ curr EP [16]
													= [8]-[9]		= [8]-[12]	= [2]*[15]
2007	1,374	589	-	589	-	589	42.9%	42.9%	42.9%	42.9%	42.9%	-	-	-	-	-
2008	6,983	4,290	-	4,290	-	4,290	61.4%	61.4%	61.4%	61.4%	61.4%	-	-	-	-	-
2009	9,131	5,445	69	5,514	-	5,514	60.4%	60.4%	60.4%	60.4%	60.4%	-	-	-	-	-
2010	9,222	7,292	-	7,292	-	7,292	79.1%	79.1%	79.1%	80.1%	80.1%	-	(4)	(1.0%)	(92)	
2011	7,506	7,943	35	7,978	-	7,978	106.3%	106.7%	106.7%	105.5%	105.5%	(0.4%)	(34)	0.8%	60	
2012	7,943	9,129	874	10,003	-	10,003	125.9%	126.7%	127.7%	131.7%	131.7%	(0.8%)	(62)	(5.8%)	(461)	
2013	8,323	6,450	2,437	8,887	-	8,887	106.8%	106.8%	108.3%	106.2%	105.8%	-	(1)	1.0%	83	
2014	7,902	6,328	1,818	8,146	-	8,146	103.1%	100.4%	100.2%	102.1%	102.9%	2.7%	216	0.2%	16	
2015	8,534	4,779	2,926	7,705	185	7,890	92.5%	92.5%	92.9%	87.4%	88.8%	-	(8)	3.7%	316	
2016	9,234	4,892	4,399	9,291	921	10,212	110.6%	108.4%	111.8%	107.1%	108.7%	2.2%	200	1.9%	175	
2017	12,169	3,881	5,446	9,327	3,111	12,438	102.2%	101.2%	101.9%	102.8%	102.5%	1.0%	119	(0.3%)	(37)	
2018	17,688	4,132	6,223	10,355	8,152	18,507	104.6%	102.6%	98.6%	92.4%	93.5%	2.0%	329	-	-	
2019	4,647	593	1,198	1,791	2,733	4,524	97.4%	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>110,656</b>	<b>65,743</b>	<b>25,425</b>	<b>91,168</b>	<b>15,102</b>	<b>106,270</b>	<b>96.0%</b>	<b>95.2%</b>	<b>95.0%</b>	<b>93.8%</b>	<b>94.2%</b>		<b>755</b>		<b>60</b>	
<b>2018 &amp; prior</b>	<b>106,009</b>	<b>65,150</b>	<b>24,227</b>	<b>89,377</b>	<b>12,369</b>	<b>101,746</b>	<b>96.0%</b>	<b>95.2%</b>	<b>95.0%</b>	<b>93.8%</b>	<b>94.2%</b>		<b>755</b>		<b>60</b>	

\* Claims Amt = indemnity & allowed claims expense (where latter is allowed expense over and above the claims expense included in the expense allowance for member companies)

\*\* Accident year loss ratios are as at the valuation date, for the current accident year, these loss ratios are based on partial year exposure, as such, larger variances may be expected

Accident Period	Current Selected	Prior Selected	Change
2007 / 2	55.0%	58.0%	(3.0%)
2008 / 1	46.0%	48.0%	(2.0%)
2008 / 2	55.0%	58.0%	(3.0%)
2009 / 1	52.0%	53.0%	(1.0%)
2009 / 2	64.0%	67.0%	(3.0%)
2010 / 1	56.0%	56.0%	-
2010 / 2	70.0%	73.0%	(3.0%)
2011 / 1	62.0%	62.0%	-
2011 / 2	79.0%	81.0%	(2.0%)
2012 / 1	69.0%	70.0%	(1.0%)
2012 / 2	89.0%	90.0%	(1.0%)
2013 / 1	76.0%	76.0%	-
2013 / 2	96.0%	99.0%	(3.0%)
2014 / 1	84.0%	83.0%	1.0%
2014 / 2	102.0%	104.0%	(2.0%)
2015 / 1	88.0%	88.0%	-
2015 / 2	106.0%	108.0%	(2.0%)
2016 / 1	90.0%	90.0%	-
2016 / 2	107.0%	109.0%	(2.0%)
2017 / 1	92.0%	92.0%	-
2017 / 2	112.0%	112.0%	-
2018 / 1	95.0%	93.0%	2.0%
2018 / 2	114.0%	114.0%	-
2019 / 1	97.0%	97.0%	-
2019 / 2	119.0%	118.0%	1.0%
2020 / 1	101.0%	99.0%	2.0%
2020 / 2	122.0%	123.0%	(1.0%)



Current AHY: 2018 / 2

Accident Period	Sep 30, 2018 valuation result				
	Actual Earned Premium	Paid Claims Amount	Case Reserves	Selected Ultimate Claims Amount*	Selected Ultimate Loss Ratio
	[1]	[2]	[3]	[4]	[5]
	val data	val data	val data	val data	=[4]/[1]
2007 / 2	2,604	552	-	552	21.2%
2008 / 1	5,968	1,280	-	1,280	21.4%
2008 / 2	8,000	3,010	-	3,010	37.6%
2009 / 1	8,676	1,422	-	1,422	16.4%
2009 / 2	4,793	4,023	68	4,092	85.4%
2010 / 1	4,759	2,566	-	2,566	53.9%
2010 / 2	4,463	4,726	4	4,730	106.0%
2011 / 1	3,941	3,139	799	3,937	99.9%
2011 / 2	3,566	4,075	0	4,075	114.3%
2012 / 1	3,514	3,240	526	3,765	107.2%
2012 / 2	4,429	5,124	938	6,381	144.1%
2013 / 1	4,328	2,915	357	3,271	75.6%
2013 / 2	3,995	3,278	2,466	5,743	143.8%
2014 / 1	3,835	2,518	883	3,401	88.7%
2014 / 2	4,067	3,643	852	4,516	111.0%
2015 / 1	4,108	1,804	1,014	2,900	70.6%
2015 / 2	4,426	1,904	2,860	5,031	113.7%
2016 / 1	4,468	1,814	1,316	3,689	82.6%
2016 / 2	4,766	2,104	3,725	6,636	139.2%
2017 / 1	5,056	1,308	2,857	4,630	91.6%
2017 / 2	7,115	1,852	2,758	7,769	109.2%
2018 / 1	8,546	1,841	3,150	7,793	91.2%
<b>Total</b>	<b>109,423</b>	<b>58,135</b>	<b>24,572</b>	<b>91,190</b>	<b>83.3%</b>

\*Indemnity & allowed claims expense from FA Valuation Summary

Adjust EP to 2018 / 2 rate level

Rate Change	Drift (RG, class, etc.)	Other	EP @ 2018 / 2 rate level
[6]	[7]	[8]	[9]
industry avg EP relativity	assumption	assumption	=[1]*[6]*[7]*[8]
1.0309	1.0000	1.0000	2,684
1.0449	1.0000	1.0000	6,236
1.0699	1.0000	1.0000	8,560
1.0805	1.0000	1.0000	9,374
1.0855	1.0000	1.0000	5,203
1.0868	1.0000	1.0000	5,172
1.1085	1.0000	1.0000	4,947
1.1301	1.0000	1.0000	4,454
1.1604	1.0000	1.0000	4,138
1.1860	1.0000	1.0000	4,168
1.2195	1.0000	1.0000	5,401
1.2331	1.0000	1.0000	5,337
1.2280	1.0000	1.0000	4,906
1.2090	1.0000	1.0000	4,637
1.2003	1.0000	1.0000	4,882
1.1883	1.0000	1.0000	4,882
1.1628	1.0000	1.0000	5,147
1.1329	1.0000	1.0000	5,062
1.0942	1.0000	1.0000	5,215
1.0729	1.0000	1.0000	5,425
1.0517	1.0000	1.0000	7,483
1.0191	1.0000	1.0000	8,709
<b>1.1151</b>	<b>1.0000</b>	<b>1.0000</b>	<b>122,022</b>

2017-2 AIX

Adjust Ultimate Claims Amount to 2018 / 2 clms level

Loss Cost Trend Factor	Reform Adj Factor	Other Factor	Ult. Clms Amt @ 2018 / 2 clms level
[10]	[11]	[12]	[13]
trend analysis	assumption	assumption	=[4]*[10]*[11]*[12]
2.0304	1.0000	1.0000	1,120
2.3338	1.0000	1.0000	2,987
2.1366	1.0000	1.0000	6,432
2.1011	1.0000	1.0000	2,987
1.9134	1.0000	1.0000	7,828
2.1061	1.0000	1.0000	5,405
1.7858	1.0000	1.0000	8,446
2.0606	1.0000	1.0000	8,114
1.6717	1.0000	1.0000	6,811
1.9445	1.0000	1.0000	7,322
1.5646	1.0000	1.0000	9,985
1.8301	1.0000	1.0000	5,987
1.4499	1.0000	1.0000	8,327
1.6547	1.0000	1.0000	5,628
1.3435	1.0000	1.0000	6,067
1.5124	1.0000	1.0000	4,386
1.2480	1.0000	1.0000	6,279
1.4233	1.0000	1.0000	5,250
1.1605	1.0000	1.0000	7,701
1.3370	1.0000	1.0000	6,191
1.0766	1.0000	1.0000	8,364
1.2324	1.0000	1.0000	9,604
<b>1.5487</b>	<b>1.0000</b>	<b>1.0000</b>	<b>141,221</b>

on industry 2018-1 AIX data derived from 2018 / 2 on-levels

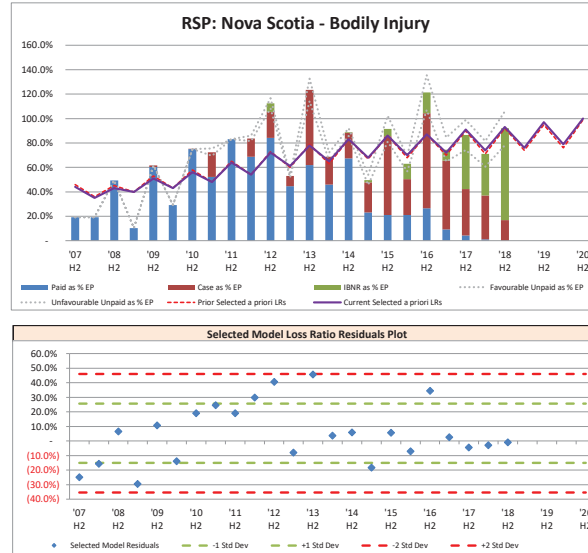
On-Level to 2018 / 2 Loss Ratios

On-Level to 2018 / 2 Loss Ratios	Weights
[14]	[15]
=[13]/[9]	selected
41.7%	-
47.9%	-
75.1%	-
31.9%	-
150.5%	-
104.5%	-
170.7%	-
182.2%	-
164.6%	-
175.7%	-
184.9%	-
112.2%	-
169.7%	-
121.4%	-
124.3%	-
89.8%	7.1%
122.0%	15.5%
103.7%	15.5%
147.7%	15.5%
114.1%	15.5%
111.8%	15.5%
110.3%	15.5%
<b>115.7%</b>	<b>100.0%</b>

weighted average: 116.3%  
selected: 114.0%  
current: 114.0%  
prior: 114.0%

Premium adjustment factors [6]-[8], Claims adjustment factors [10]-[12], and selected experience period weights [15] are selected at the coverage level, implied aggregate factors are presented above

Accident Period	Current Selected	Prior Selected	Change
2007 / 2	44.0%	46.0%	(2.0%)
2008 / 1	35.0%	36.0%	(1.0%)
2008 / 2	43.0%	45.0%	(2.0%)
2009 / 1	40.0%	40.0%	-
2009 / 2	51.0%	53.0%	(2.0%)
2010 / 1	43.0%	43.0%	-
2010 / 2	56.0%	58.0%	(2.0%)
2011 / 1	48.0%	48.0%	-
2011 / 2	64.0%	65.0%	(1.0%)
2012 / 1	54.0%	54.0%	-
2012 / 2	72.0%	73.0%	(1.0%)
2013 / 1	61.0%	60.0%	1.0%
2013 / 2	78.0%	79.0%	(1.0%)
2014 / 1	65.0%	63.0%	2.0%
2014 / 2	83.0%	83.0%	-
2015 / 1	68.0%	67.0%	1.0%
2015 / 2	86.0%	86.0%	-
2016 / 1	70.0%	68.0%	2.0%
2016 / 2	87.0%	87.0%	-
2017 / 1	72.0%	70.0%	2.0%
2017 / 2	91.0%	90.0%	1.0%
2018 / 1	74.0%	71.0%	3.0%
2018 / 2	93.0%	92.0%	1.0%
2019 / 1	76.0%	74.0%	2.0%
2019 / 2	97.0%	95.0%	2.0%
2020 / 1	79.0%	76.0%	3.0%
2020 / 2	100.0%	99.0%	1.0%



Current AHY: 2018 / 2

Accident Period	Sep 30, 2018 valuation result				
	Actual Earned Premium	Paid Claims Amount	Case Reserves	Selected Ultimate Claims Amount*	Selected Ultimate Loss Ratio
	[1]	[2]	[3]	[4]	[5]
	val data	val data	val data	val data	=[4]/[1]
2007 / 2	1,302	248	-	248	19.1%
2008 / 1	2,984	577	-	577	19.3%
2008 / 2	4,000	1,976	-	1,976	49.4%
2009 / 1	4,338	449	-	449	10.4%
2009 / 2	4,793	2,888	68	2,957	61.7%
2010 / 1	4,759	1,384	-	1,384	29.1%
2010 / 2	4,463	3,343	4	3,347	75.0%
2011 / 1	3,941	2,059	799	2,858	72.5%
2011 / 2	3,566	2,961	0	2,961	83.0%
2012 / 1	3,514	2,415	526	2,940	83.7%
2012 / 2	4,429	3,723	938	4,981	112.5%
2013 / 1	4,328	1,934	357	2,291	52.9%
2013 / 2	3,995	2,468	2,466	4,934	123.5%
2014 / 1	3,835	1,756	878	2,634	68.7%
2014 / 2	4,067	2,745	851	3,617	88.9%
2015 / 1	4,108	944	1,014	2,040	49.7%
2015 / 2	4,426	929	2,860	4,055	91.6%
2016 / 1	4,468	937	1,312	2,807	62.8%
2016 / 2	4,766	1,256	3,715	5,777	121.2%
2017 / 1	5,056	463	2,847	3,772	74.6%
2017 / 2	7,115	299	2,701	6,157	86.5%
2018 / 1	8,546	94	3,079	6,068	71.0%
<b>Total</b>	<b>96,799</b>	<b>35,846</b>	<b>24,415</b>	<b>68,827</b>	<b>71.1%</b>

\*Indemnity & allowed claims expense from FA Valuation Summary

Adjust EP to 2018 / 2 rate level

Rate Change	Drift (RG, class, etc.)	Other	EP @ 2018 / 2 rate level
[6]	[7]	[8]	[9]
industry avg EP relativity	assumption	assumption	=[1]*[6]*[7]*[8]
1.0309	1.0000	1.0000	1,342
1.0449	1.0000	1.0000	3,118
1.0699	1.0000	1.0000	4,280
1.0855	1.0000	1.0000	4,687
1.0855	1.0000	1.0000	5,203
1.0868	1.0000	1.0000	5,172
1.1085	1.0000	1.0000	4,947
1.1301	1.0000	1.0000	4,454
1.1604	1.0000	1.0000	4,138
1.1860	1.0000	1.0000	4,168
1.2195	1.0000	1.0000	5,401
1.2331	1.0000	1.0000	5,337
1.2280	1.0000	1.0000	4,906
1.2090	1.0000	1.0000	4,637
1.2003	1.0000	1.0000	4,882
1.1883	1.0000	1.0000	4,882
1.1628	1.0000	1.0000	5,147
1.1329	1.0000	1.0000	5,062
1.0942	1.0000	1.0000	5,215
1.0729	1.0000	1.0000	5,425
1.0517	1.0000	1.0000	7,483
1.0191	1.0000	1.0000	8,709
<b>1.1218</b>	<b>1.0000</b>	<b>1.0000</b>	<b>108,595</b>

2017-2 AIX

Adjust Ultimate Claims Amount to 2018 / 2 clms level

Loss Cost Trend Factor	Reform Adj Factor	Other Factor	Ult. Clms Amt @ 2018 / 2 clms level
[10]	[11]	[12]	[13]
trend analysis	assumption	assumption	=[4]*[10]*[11]*[12]
2.1567	1.0000	1.0000	535
2.7565	1.0000	1.0000	1,589
2.2912	1.0000	1.0000	4,527
2.5398	1.0000	1.0000	1,140
1.9723	1.0000	1.0000	5,831
2.3552	1.0000	1.0000	3,259
1.8290	1.0000	1.0000	6,121
2.1841	1.0000	1.0000	6,242
1.6961	1.0000	1.0000	5,021
2.0252	1.0000	1.0000	5,955
1.5728	1.0000	1.0000	7,834
1.8780	1.0000	1.0000	4,303
1.4584	1.0000	1.0000	7,196
1.7415	1.0000	1.0000	4,587
1.3524	1.0000	1.0000	4,891
1.6150	1.0000	1.0000	3,295
1.2541	1.0000	1.0000	5,086
1.4976	1.0000	1.0000	4,203
1.1630	1.0000	1.0000	6,718
1.3887	1.0000	1.0000	5,238
1.0784	1.0000	1.0000	6,640
1.2878	1.0000	1.0000	7,814
<b>1.5695</b>	<b>1.0000</b>	<b>1.0000</b>	<b>108,025</b>

on industry 2018-1 AIX data derived from 2018 / 2 on-levels

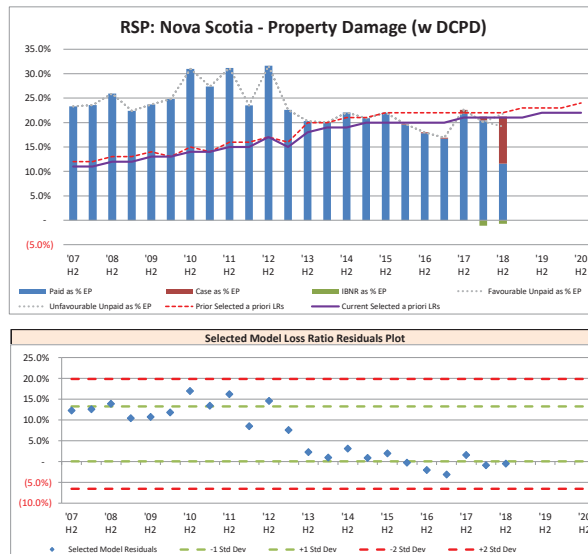
On-Level to 2018 / 2 Loss Ratios

[14]	[15]
= [13] / [9]	selected
39.9%	-
51.0%	-
105.8%	-
24.3%	-
112.1%	-
63.0%	-
123.7%	-
140.1%	-
121.3%	-
142.9%	-
145.0%	-
80.6%	-
146.7%	-
98.9%	-
100.2%	-
67.5%	14.3%
98.8%	14.3%
83.0%	14.3%
128.8%	14.3%
96.6%	14.3%
88.7%	14.3%
89.7%	14.3%
<b>99.5%</b>	<b>100.0%</b>
<b>93.3%</b>	<b>93.0%</b>
<b>93.0%</b>	<b>92.0%</b>
current	prior

[6] Rate Change factors are current AHY on-level factors estimated using industry projected earned premium data, details are presented in the a priori LR model Rate Change Factors exhibit  
[7],[8] Additional premium adjustment factors not included in Rate Change factors [6], as necessary. If applicable, details are presented in the a priori LR model additional Premium Adjustment Factors exhibit  
[10] Loss Cost Trend factors are current AHY on-level modeled loss cost adjustment factors selected as part of the associated FA industry trend analysis using industry indemnity only claims data. These loss cost adjustment factors are not confined to claims trend and include any applicable adjustments for product reform, details are presented in the a priori LR model Claims Trend Factors exhibit  
[11] Reform Adj factors are additional explicit product reform adjustment factors not included in Loss Cost Trend factors [10], as necessary. If applicable, details are presented in the a priori LR model additional Claims Adjustment Factors exhibit  
[12] Additional claims adjustment factors not included in Loss Cost Trend factors [10], as necessary. If applicable, details are presented in the a priori LR model additional Claims Adjustment Factors exhibit

Facility Association  
 a priori LR model  
 for valuation: Dec 31, 2018  
 RSP: Nova Scotia  
 Amounts in: \$1,000s  
 Coverage: PD (w DCPD)

Accident Period	Current Selected	Prior Selected	Change
2007 / 2	11.0%	12.0%	(1.0%)
2008 / 1	11.0%	12.0%	(1.0%)
2008 / 2	12.0%	13.0%	(1.0%)
2009 / 1	12.0%	13.0%	(1.0%)
2009 / 2	13.0%	14.0%	(1.0%)
2010 / 1	13.0%	13.0%	-
2010 / 2	14.0%	15.0%	(1.0%)
2011 / 1	14.0%	14.0%	-
2011 / 2	15.0%	16.0%	(1.0%)
2012 / 1	15.0%	16.0%	(1.0%)
2012 / 2	17.0%	17.0%	-
2013 / 1	15.0%	16.0%	(1.0%)
2013 / 2	18.0%	20.0%	(2.0%)
2014 / 1	19.0%	20.0%	(1.0%)
2014 / 2	19.0%	21.0%	(2.0%)
2015 / 1	20.0%	21.0%	(1.0%)
2015 / 2	20.0%	22.0%	(2.0%)
2016 / 1	20.0%	22.0%	(2.0%)
2016 / 2	20.0%	22.0%	(2.0%)
2017 / 1	20.0%	22.0%	(2.0%)
2017 / 2	21.0%	22.0%	(1.0%)
2018 / 1	21.0%	22.0%	(1.0%)
2018 / 2	21.0%	22.0%	(1.0%)
2019 / 1	21.0%	23.0%	(2.0%)
2019 / 2	22.0%	23.0%	(1.0%)
2020 / 1	22.0%	23.0%	(1.0%)
2020 / 2	22.0%	24.0%	(2.0%)



Current AHY: 2018 / 2

Accident Period	Sep 30, 2018 valuation result				
	Actual Earned Premium	Paid Claims Amount	Case Reserves	Selected Ultimate Claims Amount*	Selected Ultimate Loss Ratio
	[1]	[2]	[3]	[4]	[5]
	val data	val data	val data	val data	=[4]/[1]
2007 / 2	1,302	304	-	304	23.3%
2008 / 1	2,984	704	-	704	23.6%
2008 / 2	4,000	1,035	-	1,035	25.9%
2009 / 1	4,338	973	-	973	22.4%
2009 / 2	4,793	1,135	-	1,135	23.7%
2010 / 1	4,759	1,183	-	1,183	24.8%
2010 / 2	4,463	1,383	-	1,383	31.0%
2011 / 1	3,941	1,080	-	1,080	27.4%
2011 / 2	3,566	1,114	-	1,114	31.2%
2012 / 1	3,514	825	-	825	23.5%
2012 / 2	4,429	1,401	0	1,401	31.6%
2013 / 1	4,328	980	-	980	22.6%
2013 / 2	3,995	809	-	809	20.3%
2014 / 1	3,835	762	5	767	20.0%
2014 / 2	4,067	898	1	899	22.1%
2015 / 1	4,108	860	-	860	20.9%
2015 / 2	4,426	975	-	976	22.0%
2016 / 1	4,468	877	4	882	19.8%
2016 / 2	4,766	848	9	859	18.0%
2017 / 1	5,056	845	11	858	17.0%
2017 / 2	7,115	1,553	56	1,612	22.7%
2018 / 1	8,546	1,748	71	1,725	20.2%
<b>Total</b>	<b>96,799</b>	<b>22,289</b>	<b>157</b>	<b>22,363</b>	<b>23.1%</b>

\*Indemnity & allowed claims expense from FA Valuation Summary

Adjust EP to 2018 / 2 rate level

Rate Change	Drift (RG, class, etc.)	Other	EP @ 2018 / 2 rate level
[6]	[7]	[8]	[9]
industry avg EP relativity	assumption	assumption	=[1]*[6]*[7]*[8]
1.0309	1.0000	1.0000	1,342
1.0449	1.0000	1.0000	3,118
1.0699	1.0000	1.0000	4,280
1.0855	1.0000	1.0000	4,687
1.0855	1.0000	1.0000	5,203
1.0868	1.0000	1.0000	5,172
1.1085	1.0000	1.0000	4,947
1.1301	1.0000	1.0000	4,454
1.1604	1.0000	1.0000	4,138
1.1860	1.0000	1.0000	4,168
1.2195	1.0000	1.0000	5,401
1.2331	1.0000	1.0000	5,337
1.2280	1.0000	1.0000	4,906
1.2090	1.0000	1.0000	4,637
1.2003	1.0000	1.0000	4,882
1.1883	1.0000	1.0000	4,882
1.1628	1.0000	1.0000	5,147
1.1329	1.0000	1.0000	5,062
1.0942	1.0000	1.0000	5,215
1.0729	1.0000	1.0000	5,425
1.0517	1.0000	1.0000	7,483
1.0191	1.0000	1.0000	8,709
<b>1.1218</b>	<b>1.0000</b>	<b>1.0000</b>	<b>108,595</b>

2017-2 AIX

Adjust Ultimate Claims Amount to 2018 / 2 cims level

Loss Cost Trend Factor	Reform Adj Factor	Other Factor	Ult. Clms Amt @ 2018 / 2 cims level
[10]	[11]	[12]	[13]
trend analysis	assumption	assumption	=[4]*[10]*[11]*[12]
1.9273	1.0000	1.0000	585
1.9873	1.0000	1.0000	1,398
1.8415	1.0000	1.0000	1,905
1.8986	1.0000	1.0000	1,847
1.7600	1.0000	1.0000	1,997
1.8146	1.0000	1.0000	2,146
1.6814	1.0000	1.0000	2,325
1.7336	1.0000	1.0000	1,872
1.6069	1.0000	1.0000	1,790
1.6567	1.0000	1.0000	1,367
1.5353	1.0000	1.0000	2,151
1.7181	1.0000	1.0000	1,684
1.3979	1.0000	1.0000	1,131
1.3569	1.0000	1.0000	1,041
1.3075	1.0000	1.0000	1,176
1.2689	1.0000	1.0000	1,091
1.2227	1.0000	1.0000	1,193
1.1868	1.0000	1.0000	1,047
1.1437	1.0000	1.0000	983
1.1098	1.0000	1.0000	953
1.0697	1.0000	1.0000	1,724
1.0376	1.0000	1.0000	1,790
<b>1.4844</b>	<b>1.0000</b>	<b>1.0000</b>	<b>33,196</b>

on industry 2018-1 AIX data derived from 2018 / 2 on-levels

On-Level to 2018 / 2 Loss Ratios

On-Level to 2018 / 2 Loss Ratios	Weights
[14]	[15]
= [13] / [9]	selected
43.6%	-
44.8%	-
44.5%	-
39.4%	-
38.4%	-
41.5%	-
47.0%	-
42.0%	-
43.3%	-
32.8%	-
39.8%	-
31.6%	-
23.1%	-
22.4%	-
24.1%	-
22.3%	-
23.2%	16.7%
20.7%	16.7%
18.8%	16.7%
17.6%	16.7%
23.0%	16.7%
20.6%	16.7%
<b>30.6%</b>	<b>100.0%</b>

weighted average: 20.7%  
 selected: 21.0%  
 current: 22.0%  
 prior

[6] Rate Change factors are current AHY on-level factors estimated using industry projected earned premium data, details are presented in the a priori LR model Rate Change Factors exhibit  
 [7],[8] Additional premium adjustment factors not included in Rate Change factors [6], as necessary. If applicable, details are presented in the a priori LR model additional Premium Adjustment Factors exhibit  
 [10] Loss Cost Trend factors are current AHY on-level modeled loss cost adjustment factors selected as part of the associated FA industry trend analysis using industry indemnity only claims data. These loss cost adjustment factors are not confined to claims trend and include any applicable adjustments for product reform, details are presented in the a priori LR model Claims Trend Factors exhibit  
 [11] Reform Adj factors are additional explicit product reform adjustment factors not included in Loss Cost Trend factors [10], as necessary. If applicable, details are presented in the a priori LR model additional Claims Adjustment Factors exhibit  
 [12] Additional claims adjustment factors not included in Loss Cost Trend factors [10], as necessary. If applicable, details are presented in the a priori LR model additional Claims Adjustment Factors exhibit



Facility Association

**Estimated and Selected Ultimate Losses by Method**  
 as at March 31, 2019

Coverage: **Third Party Liability**

RSP: **Nova Scotia**

Amounts in: \$1,000s

Accident Year	Actual Experience				Ultimate Loss Estimates																					
	Earned Premium	Paid Claims to Date	Case Reserves	Reported to Date	ELR Method*	Link Ratio Method	Implied BF ELR Method weight*	Implied BF Link Ratio Method weight*	BF Method*	ELR Method weight	Link Ratio Method weight	ELR & LR Wtd Method	Incurred (Zero IBNR)	User Defined 1	User Defined 2	ELR Method Ult LR*	Link Ratio Method Ult LR	BF Method Ult LR*	ELR & LR Wtd Method Ult LR	Incurred (Zero IBNR) Ult LR	User Defined 1 Ult LR	User Defined 2 Ult LR	Selected Ultimate Claims Amount	Selected Ultimate Loss Ratio		
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]		
2007	1,374	589	-	589		589						589	589				42.9%		42.9%	42.9%				589	42.9%	
2008	6,983	4,290	-	4,290		4,290						4,290	4,290				61.4%		61.4%	61.4%				4,290	61.4%	
2009	9,131	5,445	68	5,514		5,514						5,514	5,514				60.4%		60.4%	60.4%				5,514	60.4%	
2010	9,222	7,292	-	7,292	5,789	7,292	-	100.0%	7,292			7,292	7,292				62.8%	79.1%	79.1%	79.1%	79.1%				7,292	79.1%
2011	7,506	7,943	35	7,978	5,260	7,978	-	100.0%	7,978			7,978	7,978				70.1%	106.3%	106.3%	106.3%	106.3%				7,978	106.3%
2012	7,943	9,129	874	10,003	6,367	10,003	-	100.0%	10,003			10,003	10,003				80.2%	125.9%	125.9%	125.9%	125.9%				10,003	125.9%
2013	8,323	6,450	2,438	8,887	7,124	8,887	-	100.0%	8,887			8,887	8,887				85.6%	106.8%	106.8%	106.8%	106.8%				8,887	106.8%
2014	7,902	6,328	1,818	8,146	7,370	8,146	-	100.0%	8,146			8,146	8,146				93.3%	103.1%	103.1%	103.1%	103.1%				8,146	103.1%
2015	8,534	4,779	2,926	7,705	8,307	7,892	(0.3%)	100.3%	7,890			7,901	7,705				97.3%	92.5%	92.5%	92.6%	90.3%				7,890	92.5%
2016	9,234	4,892	4,400	9,291	9,120	10,324	16.5%	83.5%	10,126			9,684	9,291				98.8%	111.8%	109.7%	104.9%	100.6%				10,212	110.6%
2017	12,169	3,881	5,446	9,327	12,619	11,347	31.1%	68.9%	11,742			12,391	9,327				103.7%	93.2%	96.5%	101.8%	76.6%				12,438	102.2%
2018	17,688	4,132	6,223	10,355	18,542	14,130	40.2%	59.8%	15,904			18,324	10,355				104.8%	79.9%	89.9%	103.6%	58.5%				18,507	104.6%
2019	4,647	593	1,199	1,791	9,341	4,476	74.2%	25.8%	8,085			-	1,791				201.0%	96.3%	174.0%		38.6%				4,524	97.4%
<b>Total</b>	<b>110,656</b>	<b>65,742</b>	<b>25,427</b>	<b>91,169</b>	<b>89,838</b>	<b>100,869</b>			<b>96,054</b>			<b>101,000</b>	<b>91,169</b>											<b>106,271</b>		

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*For 'off-half' valuation quarters (Mar and Sep), the current accident year (CAY) by method Ultimate Loss estimates ([5] to [22]) are aggregated from a coverage level

Facility Association

**Comparison of Estimated Ultimate Losses by Method**  
 as at March 31, 2019

Coverage: **Third Party Liability**

RSP: Nova Scotia

Amounts in: \$1,000s

Accident Year	Current Valuation Results (as at Mar 2019)											Prior Valuation Results (as at Dec 2018)							Change from Prior Valuation			
	ELR Method*	Link Ratio Method	BF Method*	ELR & LR Wtd Method	Incurred (Zero IBNR)	User Defined 1	User Defined 2	Selected IBNR Method**	Selected IBNR	Selected Ultimate	Selected Ultimate LR	ELR Method*	LR Ratio Method	BF Method*	Selected IBNR Method**	Selected IBNR	Selected Ultimate	Selected Ultimate LR	Incurred to Date	Selected IBNR	Selected Ultimate	Selected Ultimate LR
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
2007			589		589			N/A	-	589	42.9%			589			589	42.9%	-	-	-	-
2008			4,290		4,290			N/A	-	4,290	61.4%			4,290			4,290	61.4%	-	-	-	-
2009			5,514		5,514			N/A	-	5,514	60.4%			5,514			5,514	60.4%	-	-	-	-
2010	5,789	7,292	7,292	7,292	7,292			N/A	-	7,292	79.1%	5,789	7,296	7,296	N/A	-	7,296	79.1%	(4)	-	(4)	-
2011	5,260	7,978	7,978	7,978	7,978			N/A	-	7,978	106.3%	5,260	8,012	8,012	N/A	-	8,012	106.7%	(34)	-	(34)	(0.4%)
2012	6,367	10,003	10,003	10,003	10,003			N/A	-	10,003	125.9%	6,367	10,065	10,065	N/A	-	10,065	126.7%	(61)	-	(61)	(0.8%)
2013	7,124	8,887	8,887	8,887	8,887			N/A	-	8,887	106.8%	7,124	8,888	8,888	N/A	-	8,888	106.8%	(1)	-	(1)	-
2014	7,370	8,146	8,146	8,146	8,146			N/A	-	8,146	103.1%	7,370	7,930	7,930	N/A	-	7,930	100.3%	216	-	216	2.8%
2015	8,307	7,892	7,890	7,901	7,705			N/A	185	7,890	92.5%	8,307	7,895	7,897	N/A	286	7,898	92.5%	93	(101)	(8)	-
2016	9,120	10,324	10,126	9,684	9,291			N/A	921	10,212	110.6%	9,121	10,076	9,860	N/A	1,198	10,012	108.4%	477	(277)	200	2.2%
2017	12,619	11,347	11,742	12,391	9,327			N/A	3,111	12,438	102.2%	12,620	11,100	11,596	N/A	3,464	12,319	101.2%	472	(353)	119	1.0%
2018	18,542	14,130	15,904	18,324	10,355			N/A	8,152	18,507	104.6%	18,569	13,717	15,745	N/A	8,571	18,178	102.6%	747	(419)	328	2.0%
2019	9,341	4,476	8,085	-	1,791			N/A	2,733	4,524	97.4%	-	-	-	N/A	-	-	-	1,791	2,733	4,524	97.4%
<b>Total</b>	<b>89,838</b>	<b>100,869</b>	<b>96,054</b>	<b>101,000</b>	<b>91,169</b>				<b>15,102</b>	<b>106,271</b>		<b>80,527</b>	<b>95,372</b>	<b>87,288</b>		<b>13,519</b>	<b>100,991</b>		<b>3,696</b>	<b>1,583</b>	<b>5,279</b>	
<b>2018 &amp; Prior</b>	<b>80,498</b>	<b>96,393</b>	<b>87,969</b>	<b>101,000</b>	<b>89,378</b>				<b>12,369</b>	<b>101,747</b>		<b>80,527</b>	<b>95,372</b>	<b>87,288</b>		<b>13,519</b>	<b>100,991</b>		<b>1,905</b>	<b>(1,150)</b>	<b>755</b>	

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*IBNR selected on a coverage level and aggregated to a Government Line (or Total) level

Facility Association

**Estimated and Selected Ultimate Losses by Method**  
 as at March 31, 2019

Coverage: Bodily Injury

RSP: Nova Scotia

Amounts in: \$1,000s

Accident Year	Actual Experience				Ultimate Loss Estimates																			
	Earned Premium	Paid Claims to Date	Case Reserves	Reported to Date	ELR Method*	Link Ratio Method	Implied BF ELR Method weight*	Implied BF Link Ratio Method weight*	BF Method*	ELR Method weight	Link Ratio Method weight	ELR & LR Wtd Method	Incurred (Zero IBNR)	User Defined 1	Data Correction	ELR Method Ult LR*	Link Ratio Method Ult LR	BF Method Ult LR*	ELR & LR Wtd Method Ult LR*	Incurred (Zero IBNR) Ult LR	User Defined 1 Ult LR	Data Correction Ult LR	Selected Ultimate Claims Amount	Selected Ultimate Loss Ratio*
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]
2007 / 1	71	5	-	5		5				-	100.0%	5	5										5	
2007 / 2	1,302	248	-	248		248				-	100.0%	248	248										248	
2008 / 1	2,984	577	-	577		577				-	100.0%	577	577										577	
2008 / 2	4,000	1,976	-	1,976		1,976				-	100.0%	1,976	1,976										1,976	
2009 / 1	4,338	449	-	449		449				-	100.0%	449	449										449	
2009 / 2	4,793	2,888	68	2,957	2,444	2,957	-	100.0%	2,957	-	100.0%	2,957	2,957			51.0%	61.7%	61.7%	61.7%	61.7%			2,957	61.7%
2010 / 1	4,759	1,384	-	1,384	2,047	1,384	-	100.0%	1,384	-	100.0%	1,384	1,384			43.0%	29.1%	29.1%	29.1%	29.1%			1,384	29.1%
2010 / 2	4,463	3,343	-	3,343	2,499	3,343	-	100.0%	3,343	-	100.0%	3,343	3,343			56.0%	74.9%	74.9%	74.9%	74.9%			3,343	74.9%
2011 / 1	3,941	2,789	35	2,824	1,891	2,824	-	100.0%	2,824	-	100.0%	2,824	2,824			48.0%	71.7%	71.7%	71.7%	71.7%			2,824	71.7%
2011 / 2	3,566	2,961	-	2,961	2,282	2,961	-	100.0%	2,961	-	100.0%	2,961	2,961			64.0%	83.0%	83.0%	83.0%	83.0%			2,961	83.0%
2012 / 1	3,514	2,776	4	2,781	1,898	2,781	-	100.0%	2,781	-	100.0%	2,781	2,781			54.0%	79.1%	79.1%	79.1%	79.1%			2,781	79.1%
2012 / 2	4,429	4,127	870	4,996	3,189	4,996	-	100.0%	4,996	-	100.0%	4,996	4,996			72.0%	112.8%	112.8%	112.8%	112.8%			4,996	112.8%
2013 / 1	4,328	2,068	90	2,158	2,640	2,158	-	100.0%	2,158	-	100.0%	2,158	2,158			61.0%	49.9%	49.9%	49.9%	49.9%			2,158	49.9%
2013 / 2	3,995	2,592	2,348	4,940	3,116	4,940	-	100.0%	4,940	-	100.0%	4,940	4,940			78.0%	123.7%	123.7%	123.7%	123.7%			4,940	123.7%
2014 / 1	3,835	1,770	1,024	2,794	2,493	2,794	-	100.0%	2,794	-	100.0%	2,794	2,794			65.0%	72.9%	72.9%	72.9%	72.9%			2,794	72.9%
2014 / 2	4,067	2,898	789	3,687	3,376	3,687	-	100.0%	3,687	-	100.0%	3,687	3,687			63.0%	90.6%	90.6%	90.6%	90.6%			3,687	90.6%
2015 / 1	4,108	1,079	896	1,975	2,794	1,998	1.1%	98.9%	2,007	12.5%	87.5%	2,097	1,975			68.0%	48.6%	48.8%	51.0%	48.1%			2,006	48.8%
2015 / 2	4,426	1,865	2,030	3,895	3,806	4,059	4.0%	96.0%	4,049	25.0%	75.0%	3,996	3,895			86.0%	91.7%	91.5%	90.3%	88.0%			4,049	91.5%
2016 / 1	4,468	1,373	1,226	2,599	3,127	2,832	8.2%	91.8%	2,857	37.5%	62.5%	2,943	2,599			70.0%	63.4%	63.9%	65.9%	58.2%			2,943	65.9%
2016 / 2	4,766	1,793	3,166	4,959	4,146	5,755	13.8%	86.2%	5,533	50.0%	50.0%	4,951	4,959			87.0%	120.8%	116.1%	103.9%	104.0%			5,533	116.1%
2017 / 1	5,056	810	2,814	3,624	3,640	4,517	19.8%	80.2%	4,344	62.5%	37.5%	3,969	3,624			72.0%	89.3%	85.9%	78.5%	71.7%			3,969	78.5%
2017 / 2	7,114	583	2,589	3,171	6,473	4,285	26.0%	74.0%	4,854	75.0%	25.0%	5,926	3,171			91.0%	60.2%	68.2%	83.3%	44.6%			5,926	83.3%
2018 / 1	8,538	263	2,797	3,060	6,318	4,559	32.9%	67.1%	5,138	87.5%	12.5%	6,098	3,060			74.0%	53.4%	60.2%	71.4%	35.8%			6,098	71.4%
2018 / 2	9,150	75	3,223	3,297	8,509	5,680	41.9%	58.1%	6,867	100.0%	-	8,509	3,297			93.0%	62.1%	75.1%	93.0%	36.0%			8,509	93.0%
2019 / 1	4,647	3	623	626	7,318	2,390	73.8%	26.2%	6,027	100.0%	-	626	626			76.0%	24.8%	62.6%	-	-			3,531	76.0%
<b>Total</b>	<b>110,656</b>	<b>40,693</b>	<b>24,591</b>	<b>65,284</b>	<b>74,008</b>	<b>74,155</b>			<b>76,499</b>			<b>76,567</b>	<b>65,284</b>										<b>80,642</b>	

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*For 'off-half' valuation quarters (Mar and Sep), the current accident half-year (CAHY) by method Ultimate Loss estimates ([5] to [22]) are based on projected full AHY Earned Premium estimates

Facility Association

Comparison of Estimated IBNR by Method  
 as at March 31, 2019

Coverage: Bodily Injury  
 RSP: Nova Scotia

Amounts in: \$1,000s

Accident Year	Current Valuation Results (as at Mar 2019)							Prior Valuation Results (as at Dec 2018)							Change from Prior Valuation								
	ELR Method IBNR*	Link Ratio Method IBNR	BF Method IBNR*	ELR & LR Wtd Method IBNR	Incurred (Zero IBNR)	User Defined 1 IBNR	Data Correction IBNR	Selected IBNR Method	Selected IBNR	Selected Ultimate	Selected Ultimate LR*	ELR Method IBNR*	Link Ratio Method IBNR	BF Method IBNR*	Selected IBNR Method	Selected IBNR	Selected Ultimate	Selected Ultimate LR*	Incurred to Date	Selected IBNR	Selected Ultimate	Selected Ultimate LR*	
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	
2007 / 1		-		-	-			Link Ratio Method	-	5				Link Ratio Method	-	5		-	-	-	-		
2007 / 2		-		-	-			Link Ratio Method	-	248				Link Ratio Method	-	248		-	-	-	-		
2008 / 1		-		-	-			Link Ratio Method	-	577				Link Ratio Method	-	577		-	-	-	-		
2008 / 2		-		-	-			Link Ratio Method	-	1,976				Link Ratio Method	-	1,976		-	-	-	-		
2009 / 1		-		-	-			Link Ratio Method	-	449				Link Ratio Method	-	449		-	-	-	-		
2009 / 2	(512)	-	-	-	-			Link Ratio Method	-	2,957	61.7%	(512)	-	Link Ratio Method	-	2,957	61.7%	-	-	-	-		
2010 / 1	663	-	-	-	-			Link Ratio Method	-	1,384	29.1%	663	-	Link Ratio Method	-	1,384	29.1%	-	-	-	-		
2010 / 2	(844)	-	-	-	-			Link Ratio Method	-	3,343	74.9%	(848)	-	Link Ratio Method	-	3,347	75.0%	(4)	-	-	(4)	(0.1%)	
2011 / 1	(932)	-	-	-	-			Link Ratio Method	-	2,824	71.7%	(966)	-	Link Ratio Method	-	2,858	72.5%	(34)	-	-	(34)	(0.8%)	
2011 / 2	(678)	-	-	-	-			Link Ratio Method	-	2,961	83.0%	(678)	-	Link Ratio Method	-	2,961	83.0%	-	-	-	-		
2012 / 1	(883)	-	-	-	-			Link Ratio Method	-	2,781	79.1%	(979)	-	Link Ratio Method	-	2,877	81.9%	(96)	-	-	(96)	(2.8%)	
2012 / 2	(1,807)	-	-	-	-			Link Ratio Method	-	4,996	112.8%	(1,773)	-	Link Ratio Method	-	4,962	112.0%	34	-	-	34	0.8%	
2013 / 1	482	-	-	-	-			Link Ratio Method	-	2,158	49.9%	477	-	Link Ratio Method	-	2,163	50.0%	(5)	-	-	(5)	(0.1%)	
2013 / 2	(1,824)	-	-	-	-			Link Ratio Method	-	4,940	123.7%	(1,820)	-	Link Ratio Method	-	4,936	123.6%	4	-	-	4	0.1%	
2014 / 1	(302)	-	-	-	-			Link Ratio Method	-	2,794	72.9%	(97)	-	Link Ratio Method	-	2,590	67.5%	204	-	-	204	5.4%	
2014 / 2	(311)	-	-	-	-			Link Ratio Method	-	3,687	90.6%	(298)	-	Link Ratio Method	-	3,674	90.3%	13	-	-	13	0.3%	
2015 / 1	819	23	31	122	-			BF Method	31	2,006	48.8%	864	44	63	BF Method	63	1,993	48.5%	45	(32)	-	13	0.3%
2015 / 2	(89)	164	154	101	-			BF Method	154	4,049	91.5%	(41)	239	223	BF Method	223	4,070	92.0%	48	(69)	(21)	(0.5%)	
2016 / 1	529	233	258	344	-			ELR & LR Wtd Method	344	2,943	65.9%	839	272	332	ELR & LR Wtd Method	485	2,774	62.1%	310	(141)	169	3.8%	
2016 / 2	(812)	797	574	(8)	-			BF Method	574	5,533	116.1%	(641)	984	707	BF Method	707	5,495	115.3%	171	(133)	38	0.8%	
2017 / 1	17	894	720	345	-			ELR & LR Wtd Method	345	3,969	78.5%	190	1,003	820	ELR & LR Wtd Method	495	3,946	78.0%	173	(150)	23	0.5%	
2017 / 2	3,302	1,114	1,683	2,755	-			ELR & LR Wtd Method	2,755	5,926	83.3%	3,533	1,230	1,909	ELR & LR Wtd Method	2,957	5,899	82.9%	230	(202)	28	0.4%	
2018 / 1	3,258	1,499	2,077	3,038	-			ELR & LR Wtd Method	3,038	6,098	71.4%	3,302	1,719	2,293	ELR & LR Wtd Method	3,104	6,122	71.7%	42	(66)	(24)	(0.3%)	
2018 / 2	5,212	2,383	3,570	5,212	-			ELR & LR Wtd Method	5,212	8,509	93.0%	5,684	2,586	4,061	ELR & LR Wtd Method	5,684	8,530	93.0%	451	(472)	(21)	-	
2019 / 1	-	-	-	-	-			Link Ratio Method	-	2,905	76.0%	-	-	-	-	-	-	-	626	2,905	3,531	76.0%	
<b>Total</b>	<b>5,285</b>	<b>7,106</b>	<b>9,067</b>	<b>11,909</b>	<b>-</b>				<b>15,358</b>	<b>80,642</b>		<b>6,896</b>	<b>8,077</b>	<b>10,407</b>		<b>13,718</b>	<b>76,789</b>		<b>2,212</b>	<b>1,640</b>	<b>3,852</b>		
<b>2018 / 2 &amp; Prior</b>	<b>5,285</b>	<b>7,106</b>	<b>9,067</b>	<b>11,909</b>	<b>-</b>				<b>12,453</b>	<b>77,111</b>		<b>6,896</b>	<b>8,077</b>	<b>10,407</b>		<b>13,718</b>	<b>76,789</b>		<b>1,586</b>	<b>(1,265)</b>	<b>321</b>		

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*Current accident half-year IBNR and Ultimate Loss estimates derived from the CAHY Selections exhibit

Facility Association

**Estimated and Selected Ultimate Losses by Method**  
 as at March 31, 2019

Coverage: Property Damage (w DCPD)

RSP: Nova Scotia

Amounts in: \$1,000s

Accident Year	Actual Experience				Ultimate Loss Estimates																			
	Earned Premium	Paid Claims to Date	Case Reserves	Reported to Date	ELR Method*	Link Ratio Method	Implied BF ELR Method weight*	Implied BF Link Ratio Method weight*	BF Method*	ELR Method weight	Link Ratio Method weight	ELR & LR Wtd Method	Incurred (Zero IBNR)	User Defined 1	Data Correction	ELR Method Ult LR*	Link Ratio Method Ult LR	BF Method Ult LR*	ELR & LR Wtd Method Ult LR*	Incurred (Zero IBNR) Ult LR	User Defined 1 Ult LR	Data Correction Ult LR	Selected Ultimate Claims Amount	Selected Ultimate Loss Ratio*
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]
																=([5]/[1])	=([6]/[1])	=([9]/[1])	=([12]/[1])	=([13]/[1])	=([14]/[1])	=([15]/[1])		
2007 / 1	71	33	-	33		33				-	100.0%	33	33										33	
2007 / 2	1,302	304	-	304		304				-	100.0%	304	304										304	
2008 / 1	2,984	704	-	704		704				-	100.0%	704	704										704	
2008 / 2	4,000	1,035	-	1,035		1,035				-	100.0%	1,035	1,035										1,035	
2009 / 1	4,338	973	-	973		973				-	100.0%	973	973										973	
2009 / 2	4,793	1,135	-	1,135	623	1,135	-	100.0%	1,135	-	100.0%	1,135	1,135			13.0%	23.7%	23.7%	23.7%	23.7%			1,135	23.7%
2010 / 1	4,759	1,183	-	1,183	619	1,183	-	100.0%	1,183	-	100.0%	1,183	1,183			13.0%	24.8%	24.8%	24.8%	24.8%			1,183	24.8%
2010 / 2	4,463	1,383	-	1,383	625	1,383	-	100.0%	1,383	-	100.0%	1,383	1,383			14.0%	31.0%	31.0%	31.0%	31.0%			1,383	31.0%
2011 / 1	3,941	1,080	-	1,080	552	1,080	-	100.0%	1,080	-	100.0%	1,080	1,080			14.0%	27.4%	27.4%	27.4%	27.4%			1,080	27.4%
2011 / 2	3,566	1,114	-	1,114	535	1,114	-	100.0%	1,114	-	100.0%	1,114	1,114			15.0%	31.2%	31.2%	31.2%	31.2%			1,114	31.2%
2012 / 1	3,514	825	-	825	527	825	-	100.0%	825	-	100.0%	825	825			15.0%	23.5%	23.5%	23.5%	23.5%			825	23.5%
2012 / 2	4,429	1,401	0	1,401	753	1,401	-	100.0%	1,401	-	100.0%	1,401	1,401			17.0%	31.6%	31.6%	31.6%	31.6%			1,401	31.6%
2013 / 1	4,328	980	-	980	649	980	-	100.0%	980	-	100.0%	980	980			15.0%	22.6%	22.6%	22.6%	22.6%			980	22.6%
2013 / 2	3,995	809	-	809	719	809	-	100.0%	809	-	100.0%	809	809			18.0%	20.3%	20.3%	20.3%	20.3%			809	20.3%
2014 / 1	3,835	762	5	767	729	767	-	100.0%	767	-	100.0%	767	767			19.0%	20.0%	20.0%	20.0%	20.0%			767	20.0%
2014 / 2	4,067	898	0	898	773	898	-	100.0%	898	-	100.0%	898	898			19.0%	22.1%	22.1%	22.1%	22.1%			898	22.1%
2015 / 1	4,108	860	-	860	822	860	-	100.0%	860	12.5%	87.5%	855	860			20.0%	20.9%	20.9%	20.8%	20.9%			860	20.9%
2015 / 2	4,426	975	-	975	885	975	-	100.0%	975	25.0%	75.0%	952	975			20.0%	22.0%	22.0%	21.5%	22.0%			975	22.0%
2016 / 1	4,468	877	4	881	894	881	-	100.0%	881	37.5%	62.5%	886	881			20.0%	19.7%	19.7%	19.8%	19.7%			881	19.7%
2016 / 2	4,766	848	5	853	953	856	0.3%	99.7%	856	50.0%	50.0%	904	853			20.0%	18.0%	18.0%	19.0%	17.9%			856	18.0%
2017 / 1	5,056	846	11	856	1,011	861	0.5%	99.5%	861	62.5%	37.5%	955	856			20.0%	17.0%	17.0%	18.9%	16.9%			860	17.0%
2017 / 2	7,114	1,642	33	1,675	1,494	1,684	0.5%	99.5%	1,683	75.0%	25.0%	1,541	1,675			21.0%	23.7%	23.7%	21.7%	23.6%			1,682	23.7%
2018 / 1	8,538	1,780	22	1,802	1,793	1,812	0.5%	99.5%	1,812	87.5%	12.5%	1,795	1,802			21.0%	21.2%	21.2%	21.0%	21.1%			1,812	21.2%
2018 / 2	9,150	2,014	181	2,195	1,921	2,078	(5.6%)	105.6%	2,087	100.0%	-	1,921	2,195			21.0%	22.7%	22.8%	21.0%	24.0%			2,087	22.8%
2019 / 1	4,647	590	576	1,165	2,022	2,086			2,058	100.0%	-	1,165				21.0%	21.7%	21.4%	-	-			993	21.4%
<b>Total</b>	<b>110,656</b>	<b>25,049</b>	<b>836</b>	<b>25,885</b>	<b>18,898</b>	<b>26,714</b>			<b>23,647</b>			<b>24,433</b>	<b>25,885</b>										<b>25,629</b>	

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*For 'off-half' valuation quarters (Mar and Sep), the current accident half-year (CAHY) by method Ultimate Loss estimates ([5] to [22]) are based on projected full AHY Earned Premium estimates

Facility Association

Comparison of Estimated IBNR by Method  
 as at March 31, 2019  
 Coverage: Property Damage (w DCPD)  
 RSP: Nova Scotia  
 Amounts in: \$1,000s

Accident Year	Current Valuation Results (as at Mar 2019)											Prior Valuation Results (as at Dec 2018)				Change from Prior Valuation						
	ELR Method IBNR*	Link Ratio Method IBNR	BF Method IBNR*	ELR & LR Wtd Method IBNR	Incurred (Zero IBNR) IBNR	User Defined 1 IBNR	User Defined 2 IBNR	Selected IBNR Method	Selected IBNR	Selected Ultimate	Selected Ultimate LR*	ELR Method IBNR*	Link Ratio Method IBNR	BF Method IBNR*	Selected IBNR Method	Selected IBNR	Selected Ultimate	Selected Ultimate LR*	Incurred to Date	Selected IBNR	Selected Ultimate	Selected Ultimate LR*
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
2007 / 1	-	-	-	-	-	-	Link Ratio Method	-	33	-	-	-	-	Link Ratio Method	-	33	-	-	-	-	-	-
2007 / 2	-	-	-	-	-	-	Link Ratio Method	-	304	-	-	-	-	Link Ratio Method	-	304	-	-	-	-	-	-
2008 / 1	-	-	-	-	-	-	Link Ratio Method	-	704	-	-	-	-	Link Ratio Method	-	704	-	-	-	-	-	-
2008 / 2	-	-	-	-	-	-	Link Ratio Method	-	1,035	-	-	-	-	Link Ratio Method	-	1,035	-	-	-	-	-	-
2009 / 1	-	-	-	-	-	-	Link Ratio Method	-	973	-	-	-	-	Link Ratio Method	-	973	-	-	-	-	-	-
2009 / 2	(512)	-	-	-	-	-	Link Ratio Method	-	1,135	23.7%	(512)	-	-	Link Ratio Method	-	1,135	23.7%	-	-	-	-	-
2010 / 1	(564)	-	-	-	-	-	Link Ratio Method	-	1,183	24.8%	(564)	-	-	Link Ratio Method	-	1,183	24.8%	-	-	-	-	-
2010 / 2	(758)	-	-	-	-	-	Link Ratio Method	-	1,383	31.0%	(758)	-	-	Link Ratio Method	-	1,383	31.0%	-	-	-	-	-
2011 / 1	(528)	-	-	-	-	-	Link Ratio Method	-	1,080	27.4%	(528)	-	-	Link Ratio Method	-	1,080	27.4%	-	-	-	-	-
2011 / 2	(579)	-	-	-	-	-	Link Ratio Method	-	1,114	31.2%	(579)	-	-	Link Ratio Method	-	1,114	31.2%	-	-	-	-	-
2012 / 1	(298)	-	-	-	-	-	Link Ratio Method	-	825	23.5%	(298)	-	-	Link Ratio Method	-	825	23.5%	-	-	-	-	-
2012 / 2	(649)	-	-	-	-	-	Link Ratio Method	-	1,401	31.6%	(648)	-	-	Link Ratio Method	-	1,401	31.6%	-	-	-	-	-
2013 / 1	(331)	-	-	-	-	-	Link Ratio Method	-	980	22.6%	(331)	-	-	Link Ratio Method	-	980	22.6%	-	-	-	-	-
2013 / 2	(90)	-	-	-	-	-	Link Ratio Method	-	809	20.3%	(90)	-	-	Link Ratio Method	-	809	20.3%	-	-	-	-	-
2014 / 1	(38)	-	-	-	-	-	Link Ratio Method	-	767	20.0%	(38)	-	-	Link Ratio Method	-	767	20.0%	-	-	-	-	-
2014 / 2	(125)	-	-	-	-	-	Link Ratio Method	-	898	22.1%	(126)	-	-	Link Ratio Method	-	899	22.1%	(1)	-	-	(1)	-
2015 / 1	(38)	-	-	(5)	-	-	Link Ratio Method	-	860	20.9%	(38)	-	-	Link Ratio Method	-	860	20.9%	-	-	-	-	-
2015 / 2	(90)	-	-	(22)	-	-	Link Ratio Method	-	975	22.0%	(90)	-	-	Link Ratio Method	-	975	22.0%	-	-	-	-	-
2016 / 1	13	0	0	5	-	-	Link Ratio Method	-	881	19.7%	13	1	1	Link Ratio Method	1	881	19.7%	-	(1)	-	(1)	-
2016 / 2	100	3	3	52	-	-	Link Ratio Method	3	856	18.0%	96	5	5	Link Ratio Method	5	862	18.1%	(4)	(2)	-	(6)	(0.1%)
2017 / 1	155	4	5	98	-	-	Link Ratio Method	4	860	17.0%	155	3	4	Link Ratio Method	3	859	17.0%	-	1	-	1	-
2017 / 2	(182)	8	7	(134)	-	-	BF Method	7	1,682	23.7%	(112)	9	9	BF Method	9	1,615	22.7%	69	(2)	-	67	1.0%
2018 / 1	(9)	10	10	(7)	-	-	BF Method	10	1,812	21.2%	1	9	9	BF Method	9	1,801	21.1%	10	1	-	11	0.1%
2018 / 2	(273)	(117)	(108)	(273)	-	-	BF Method	(108)	2,087	22.8%	(24)	(205)	(226)	BF Method	(226)	1,725	18.8%	244	118	-	362	4.0%
2019 / 1	-	-	-	-	-	-	BF Method	(172)	993	21.4%	-	-	-	BF Method	-	-	-	1,165	(172)	-	993	21.4%
<b>Total</b>	<b>(4,796)</b>	<b>(91)</b>	<b>(83)</b>	<b>(287)</b>	-	-		<b>(256)</b>	<b>25,629</b>		<b>(4,472)</b>	<b>(177)</b>	<b>(186)</b>		<b>(199)</b>	<b>24,202</b>		<b>1,483</b>	<b>(57)</b>	-	<b>1,426</b>	
<b>2018 / 2 &amp; Prior</b>	<b>(4,796)</b>	<b>(91)</b>	<b>(83)</b>	<b>(287)</b>	-	-		<b>(84)</b>	<b>24,636</b>		<b>(4,472)</b>	<b>(177)</b>	<b>(186)</b>		<b>(199)</b>	<b>24,202</b>		<b>318</b>	<b>115</b>	-	<b>433</b>	

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*Current accident half-year IBNR and Ultimate Loss estimates derived from the CAHY Selections exhibit

Facility Association      **Valuation Results**  
 Amounts in: \$1,000s      as at March 31, 2019  
**Coverage: Accident Benefits**  
**RSP: Nova Scotia**

Life to Date													
Accident Year	Earned Premium \$000s [2] <i>database</i>	Paid Indemnity & Allowed Claims Expense		Case Reserves		Recorded Indemnity & Allowed Claims Expense		Selected IBNR		Ultimate Indemnity & Allowed Claims Expense		Unpaid Indemnity & Allowed Claims Expense	
		\$000s [3] <i>database</i>	% EP [4] = [3]/[2]	\$000s [5] = [7]-[3]	% EP [6] = [5]/[2]	\$000s [7] <i>database</i>	% EP [8] = [7]/[2]	\$000s [9] <i>database</i>	% EP [10] = [9]/[2]	\$000s [11] = [7]+[9]	% EP [12] = [11]/[2]	\$000s [13] = [5]+[9]	% EP [14] = [13]/[2]
2014 & prior	9,291	5,170	55.6%	153	1.6%	5,323	57.3%	1	-	5,324	57.3%	154	1.7%
2015	1,445	682	47.2%	641	44.4%	1,323	91.6%	32	2.2%	1,355	93.8%	673	46.6%
2016	1,549	738	47.6%	104	6.7%	842	54.4%	69	4.5%	911	58.8%	173	11.2%
2017	1,959	608	31.0%	663	33.8%	1,271	64.9%	446	22.8%	1,717	87.6%	1,109	56.6%
2018	2,756	595	21.6%	602	21.8%	1,197	43.4%	880	31.9%	2,077	75.4%	1,482	53.8%
2019	708	21	3.0%	565	79.8%	586	82.8%	54	7.6%	640	90.4%	619	87.4%
<b>TOTAL</b>	<b>17,708</b>	<b>7,814</b>	<b>44.1%</b>	<b>2,728</b>	<b>15.4%</b>	<b>10,542</b>	<b>59.5%</b>	<b>1,482</b>	<b>8.4%</b>	<b>12,024</b>	<b>67.9%</b>	<b>4,210</b>	<b>23.8%</b>

2018 & prior	17,000	7,793	45.8%	2,163	12.7%	9,956	58.6%	1,428	8.4%	11,384	67.0%	3,591	21.1%
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Activity During Quarter vs EP													
Accident Year	Earned Premium (LTD) \$000s [16] <i>database</i>	Change in Paid Indemnity & Allowed Claims Expense		Change in Case Reserves		Change in Recorded Indemnity & Allowed Claims Expense		Change in Selected IBNR		Change in Ultimate Indemnity & Allowed Claims Expense		Change in Unpaid Indemnity & Allowed Claims Expense	
		\$000s [17] <i>database</i>	% EP [18] = [17]/[16]	\$000s [19] <i>database</i>	% EP [20] = [19]/[16]	\$000s [21] <i>database</i>	% EP [22] = [21]/[16]	\$000s [23] <i>database</i>	% EP [24] = [23]/[16]	\$000s [25] <i>database</i>	% EP [26] = [25]/[16]	\$000s [27] <i>database</i>	% EP [28] = [27]/[16]
2014 & prior	9,291	28	0.3%	(20)	(0.2%)	8	0.1%	(1)	-	7	0.1%	(21)	(0.2%)
2015	1,445	15	1.0%	(15)	(1.0%)	-	-	(9)	(0.6%)	(9)	(0.6%)	(24)	(1.7%)
2016	1,549	206	13.3%	(289)	(18.7%)	(83)	(5.4%)	(22)	(1.4%)	(105)	(6.8%)	(311)	(20.1%)
2017	1,959	32	1.6%	(49)	(2.5%)	(17)	(0.9%)	(33)	(1.7%)	(50)	(2.6%)	(82)	(4.2%)
2018	2,756	143	5.2%	(467)	(16.9%)	(324)	(11.8%)	308	11.2%	(16)	(0.6%)	(159)	(5.8%)
<b>TOTAL</b>	<b>17,000</b>	<b>424</b>	<b>2.5%</b>	<b>(840)</b>	<b>(4.9%)</b>	<b>(416)</b>	<b>(2.4%)</b>	<b>243</b>	<b>1.4%</b>	<b>(173)</b>	<b>(1.0%)</b>	<b>(597)</b>	<b>(3.5%)</b>

Emergence During Quarter									
Accident Year	Beginning IBNR \$000s [30] <i>database</i>	Beginning Unpaid \$000s [31] <i>database</i>	Change in Paid Indemnity & Allowed Claims Expense		Change in Recorded Indemnity & Allowed Claims Expense		Change in Ultimate Indemnity & Allowed Claims Expense		
			\$000s [32] <i>database</i>	% Beg Unpaid [33] = [32]/[31]	\$000s [34] <i>database</i>	% Beg IBNR [35] = [34]/[30]	\$000s [36] <i>database</i>	% Beg Unpaid [37] = [36]/[31]	
2014 & prior	2	175	28	16.0%	8	400.0%	7	4.0%	
2015	41	697	15	2.2%	-	-	(9)	(1.3%)	
2016	91	484	206	42.6%	(83)	(91.2%)	(105)	(21.7%)	
2017	479	1,191	32	2.7%	(17)	(3.5%)	(50)	(4.2%)	
2018	572	1,641	143	8.7%	(324)	(56.6%)	(16)	(1.0%)	
<b>TOTAL</b>	<b>1,185</b>	<b>4,188</b>	<b>424</b>	<b>10.1%</b>	<b>(416)</b>	<b>(35.1%)</b>	<b>(173)</b>	<b>(4.1%)</b>	

Facility Association      **Loss Ratios Over Time**  
 Amounts in: \$1,000s      as at March 31, 2019  
**Coverage: Accident Benefits**  
**RSP: Nova Scotia**

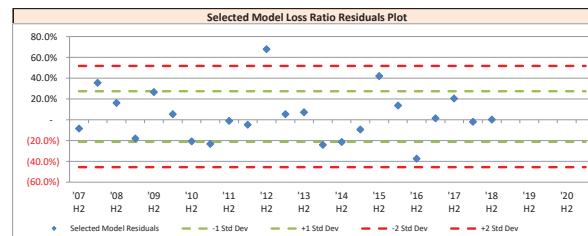
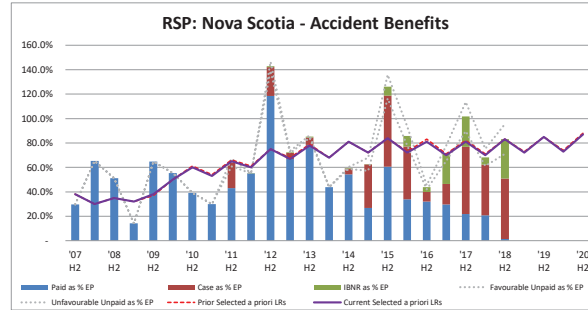
Accident Year [1]	Earned Premium	Paid Claims Amt*	Case Reserve	Recorded Claims Amt*	Selected IBNR	Ultimate Claims Amt*	Selected Ultimate LR	Selected Ultimate LR	Selected Ultimate LR	Selected Ultimate LR	Selected Ultimate LR	Sel Ult LR @ Mar 2019 compared with prior Sel Ult LR @ Dec 2018		Sel Ult LR @ Mar 2019 compared with prior Sel Ult LR @ Mar 2018	
	@ Mar 2019 [2] <i>database</i>	@ Mar 2019 [3] <i>database</i>	@ Mar 2019 [4] <i>= [5]-[3]</i>	@ Mar 2019 [5] <i>database</i>	@ Mar 2019 [6] <i>database</i>	@ Mar 2019 [7] <i>= [5]+[6]</i>	@ Mar 2019 [8] <i>= [7]/[2]</i>	@ Dec 2018 [9] <i>database</i>	@ Sep 2018 [10] <i>database</i>	@ Jun 2018 [11] <i>database</i>	@ Mar 2018 [12] <i>database</i>	Ultimate LR [13] <i>= [8]-[9]</i>	Claims Amt* [14]	Ultimate LR [15] <i>= [8]-[12]</i>	Claims Amt* [16] <i>= [2]*[15]</i>
2007	177	51	-	51	-	51	28.8%	28.8%	28.8%	28.8%	28.8%	-	-	-	-
2008	959	545	-	545	-	545	56.8%	56.8%	56.8%	56.8%	56.8%	-	-	-	-
2009	1,353	558	-	558	-	558	41.2%	41.2%	41.2%	41.3%	41.3%	-	-	(0.1%)	(1)
2010	1,464	692	-	692	-	692	47.3%	47.3%	47.3%	47.3%	47.3%	-	-	-	-
2011	1,301	476	128	604	-	604	46.4%	46.4%	46.4%	46.5%	46.5%	-	-	(0.1%)	(1)
2012	1,290	1,147	-	1,147	-	1,147	88.9%	88.9%	101.9%	102.2%	102.4%	-	-	(13.5%)	(174)
2013	1,364	1,017	16	1,033	-	1,033	75.7%	75.1%	78.8%	79.4%	80.6%	0.6%	8	(4.9%)	(67)
2014	1,383	684	9	693	1	694	50.2%	50.3%	51.8%	52.4%	52.5%	(0.1%)	(1)	(2.3%)	(32)
2015	1,445	682	641	1,323	32	1,355	93.8%	94.4%	95.2%	99.5%	87.7%	(0.6%)	(9)	6.1%	88
2016	1,549	738	104	842	69	911	58.8%	65.5%	63.8%	73.8%	80.6%	(6.7%)	(105)	(21.8%)	(338)
2017	1,959	608	663	1,271	446	1,717	87.6%	90.2%	88.9%	92.1%	73.4%	(2.6%)	(50)	14.2%	278
2018	2,756	595	602	1,197	880	2,077	75.4%	75.8%	73.2%	78.0%	98.9%	(0.4%)	(16)	-	-
2019	708	21	565	586	54	640	90.4%	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>17,708</b>	<b>7,814</b>	<b>2,728</b>	<b>10,542</b>	<b>1,482</b>	<b>12,024</b>	<b>67.9%</b>	<b>68.0%</b>	<b>68.5%</b>	<b>70.6%</b>	<b>68.5%</b>		<b>(173)</b>		<b>(247)</b>
<b>2018 &amp; prior</b>	<b>17,000</b>	<b>7,793</b>	<b>2,163</b>	<b>9,956</b>	<b>1,428</b>	<b>11,384</b>	<b>67.0%</b>	<b>68.0%</b>	<b>68.5%</b>	<b>70.6%</b>	<b>68.5%</b>		<b>(173)</b>		<b>(247)</b>

\* Claims Amt = indemnity & allowed claims expense (where latter is allowed expense over and above the claims expense included in the expense allowance for member companies)

\*\* Accident year loss ratios are as at the valuation date, for the current accident year, these loss ratios are based on partial year exposure, as such, larger variances may be expected



Accident Period	Current Selected	Prior Selected	Change
2007 / 2	38.0%	38.0%	-
2008 / 1	30.0%	30.0%	-
2008 / 2	35.0%	35.0%	-
2009 / 1	32.0%	32.0%	-
2009 / 2	38.0%	37.0%	1.0%
2010 / 1	50.0%	50.0%	-
2010 / 2	60.0%	61.0%	(1.0%)
2011 / 1	53.0%	54.0%	(1.0%)
2011 / 2	65.0%	66.0%	(1.0%)
2012 / 1	60.0%	61.0%	(1.0%)
2012 / 2	75.0%	75.0%	-
2013 / 1	67.0%	68.0%	(1.0%)
2013 / 2	78.0%	79.0%	(1.0%)
2014 / 1	68.0%	68.0%	-
2014 / 2	81.0%	81.0%	-
2015 / 1	72.0%	72.0%	-
2015 / 2	84.0%	84.0%	-
2016 / 1	72.0%	73.0%	(1.0%)
2016 / 2	81.0%	83.0%	(2.0%)
2017 / 1	70.0%	71.0%	(1.0%)
2017 / 2	81.0%	82.0%	(1.0%)
2018 / 1	70.0%	71.0%	(1.0%)
2018 / 2	83.0%	83.0%	-
2019 / 1	72.0%	73.0%	(1.0%)
2019 / 2	85.0%	85.0%	-
2020 / 1	73.0%	74.0%	(1.0%)
2020 / 2	87.0%	88.0%	(1.0%)



Current AHY: 2018 / 2

Accident Period	Sep 30, 2018 valuation result				
	Actual Earned Premium	Paid Claims Amount	Case Reserves	Selected Ultimate Claims Amount*	Selected Ultimate Loss Ratio
	[1]	[2]	[3]	[4]	[5]
	val data	val data	val data	val data	=[4]/[1]
2007 / 2	171	51	-	51	29.6%
2008 / 1	395	258	-	258	65.4%
2008 / 2	562	287	-	287	51.1%
2009 / 1	628	88	-	88	14.1%
2009 / 2	725	469	-	469	64.7%
2010 / 1	738	408	-	408	55.3%
2010 / 2	726	284	-	284	39.1%
2011 / 1	672	200	-	200	29.8%
2011 / 2	630	271	132	403	64.0%
2012 / 1	601	330	-	331	55.1%
2012 / 2	689	816	164	984	142.8%
2013 / 1	679	455	33	492	72.5%
2013 / 2	684	537	41	583	85.2%
2014 / 1	676	296	-	296	43.8%
2014 / 2	707	384	34	421	59.5%
2015 / 1	703	187	251	440	62.5%
2015 / 2	743	451	431	936	126.0%
2016 / 1	745	252	323	638	85.6%
2016 / 2	804	256	65	351	43.6%
2017 / 1	829	246	140	593	71.5%
2017 / 2	1,132	246	624	1,150	101.6%
2018 / 1	1,345	280	556	915	68.0%
<b>Total</b>	<b>15,584</b>	<b>7,053</b>	<b>2,795</b>	<b>10,580</b>	<b>67.9%</b>

\*Indemnity & allowed claims expense from FA Valuation Summary

Adjust EP to 2018 / 2 rate level

Rate Change	Drift (RG, class, etc.)	Other	EP @ 2018 / 2 rate level
[6]	[7]	[8]	[9]
industry avg EP relativity	assumption	assumption	=[1]*[6]*[7]*[8]
0.9156	1.0000	1.0000	157
0.9310	1.0000	1.0000	367
0.9440	1.0000	1.0000	530
0.9496	1.0000	1.0000	597
0.9622	1.0000	1.0000	698
0.9785	1.0000	1.0000	723
1.0039	1.0000	1.0000	729
1.0213	1.0000	1.0000	687
1.0515	1.0000	1.0000	662
1.1043	1.0000	1.0000	663
1.1709	1.0000	1.0000	806
1.1935	1.0000	1.0000	811
1.1775	1.0000	1.0000	805
1.1610	1.0000	1.0000	784
1.1663	1.0000	1.0000	825
1.1717	1.0000	1.0000	824
1.1566	1.0000	1.0000	859
1.1248	1.0000	1.0000	838
1.0805	1.0000	1.0000	869
1.0585	1.0000	1.0000	878
1.0323	1.0000	1.0000	1,168
1.0125	1.0000	1.0000	1,362
<b>1.0679</b>	<b>1.0000</b>	<b>1.0000</b>	<b>16,642</b>

2017-2 AIX

Adjust Ultimate Claims Amount to 2018 / 2 clms level

Loss Cost Trend Factor	Reform Adj Factor	Other Factor	Ult. Clms Amt @ 2018 / 2 clms level
[10]	[11]	[12]	[13]
trend analysis	assumption	assumption	=[4]*[10]*[11]*[12]
1.9461	1.0000	1.0000	98
2.5888	1.0000	1.0000	669
2.2412	1.0000	1.0000	643
2.6248	1.0000	1.0000	232
2.2584	1.0000	1.0000	1,059
1.6202	1.0000	1.0000	661
1.3744	1.0000	1.0000	390
1.5734	1.0000	1.0000	315
1.3400	1.0000	1.0000	540
1.5166	1.0000	1.0000	502
1.3131	1.0000	1.0000	1,292
1.4701	1.0000	1.0000	723
1.2371	1.0000	1.0000	721
1.4112	1.0000	1.0000	417
1.1936	1.0000	1.0000	503
1.3723	1.0000	1.0000	603
1.1430	1.0000	1.0000	1,071
1.3001	1.0000	1.0000	829
1.0961	1.0000	1.0000	385
1.2437	1.0000	1.0000	737
1.0476	1.0000	1.0000	1,205
1.1888	1.0000	1.0000	1,088
<b>1.3882</b>	<b>1.0000</b>	<b>1.0000</b>	<b>14,683</b>

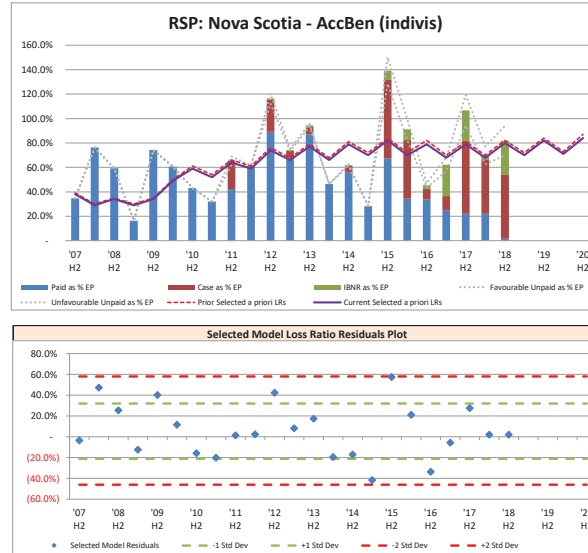
on industry 2018-1 AIX data derived from 2018 / 2 on-levels

On-Level to 2018 / 2 Loss Ratios	Weights
[14]	[15]
= [13] / [9]	selected
62.4%	-
182.3%	-
121.3%	-
38.9%	-
151.7%	-
91.4%	-
53.5%	-
45.9%	-
81.6%	0.7%
75.7%	0.7%
160.3%	0.8%
89.1%	0.8%
89.6%	9.7%
53.2%	9.7%
61.0%	9.7%
73.2%	9.7%
124.7%	9.7%
98.9%	9.7%
44.3%	9.7%
83.9%	9.8%
103.2%	9.8%
79.9%	9.8%
<b>88.2%</b>	<b>100.3%</b>

weighted average: 82.0%  
selected: 83.0%  
current: 83.0%  
prior: 83.0%

Premium adjustment factors [6]-[8], Claims adjustment factors [10]-[12], and selected experience period weights [15] are selected at the coverage level, implied aggregate factors are presented above

Accident Period	Current Selected	Prior Selected	Change
2007 / 2	38.0%	39.0%	(1.0%)
2008 / 1	29.0%	30.0%	(1.0%)
2008 / 2	34.0%	35.0%	(1.0%)
2009 / 1	29.0%	30.0%	(1.0%)
2009 / 2	34.0%	35.0%	(1.0%)
2010 / 1	49.0%	50.0%	(1.0%)
2010 / 2	59.0%	61.0%	(2.0%)
2011 / 1	52.0%	54.0%	(2.0%)
2011 / 2	64.0%	66.0%	(2.0%)
2012 / 1	59.0%	61.0%	(2.0%)
2012 / 2	74.0%	76.0%	(2.0%)
2013 / 1	66.0%	68.0%	(2.0%)
2013 / 2	77.0%	79.0%	(2.0%)
2014 / 1	66.0%	68.0%	(2.0%)
2014 / 2	79.0%	81.0%	(2.0%)
2015 / 1	70.0%	72.0%	(2.0%)
2015 / 2	82.0%	84.0%	(2.0%)
2016 / 1	70.0%	72.0%	(2.0%)
2016 / 2	79.0%	82.0%	(3.0%)
2017 / 1	68.0%	70.0%	(2.0%)
2017 / 2	79.0%	81.0%	(2.0%)
2018 / 1	68.0%	70.0%	(2.0%)
2018 / 2	80.0%	82.0%	(2.0%)
2019 / 1	70.0%	72.0%	(2.0%)
2019 / 2	82.0%	84.0%	(2.0%)
2020 / 1	71.0%	73.0%	(2.0%)
2020 / 2	84.0%	87.0%	(3.0%)



Current AHY: 2018 / 2

Accident Period	Sep 30, 2018 valuation result					Adjust EP to 2018 / 2 rate level				Adjust Ultimate Claims Amount to 2018 / 2 clms level				On-Level to 2018 / 2 Loss Ratios		Weights
	Actual Earned Premium	Paid Claims	Case Reserves	Selected Ultimate Claims Amount*	Selected Ultimate Loss Ratio	Rate Change	Drift (RG, class, etc.)	Other	EP @ 2018 / 2 rate level	Loss Cost Trend Factor	Reform Adj Factor	Other Factor	Ult. Clms Amt @ 2018 / 2 clms level	[14]	[15]	
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	
2007 / 2	146	51	-	51	34.6%	0.9313	1.0000	1.0000	136	1.9461	1.0000	1.0000	98	72.1%	-	
2008 / 1	339	258	-	258	76.2%	0.9448	1.0000	1.0000	320	2.5888	1.0000	1.0000	669	209.1%	-	
2008 / 2	482	286	-	286	59.4%	0.9574	1.0000	1.0000	461	2.2406	1.0000	1.0000	641	139.0%	-	
2009 / 1	539	88	-	88	16.4%	0.9626	1.0000	1.0000	519	2.6248	1.0000	1.0000	232	44.7%	-	
2009 / 2	624	463	-	463	74.2%	0.9738	1.0000	1.0000	608	2.2667	1.0000	1.0000	1,049	172.5%	-	
2010 / 1	669	406	-	406	0.9859	1.0000	1.0000	660	1.6190	1.0000	1.0000	657	99.5%	-		
2010 / 2	658	284	-	284	43.1%	1.0110	1.0000	1.0000	665	1.3744	1.0000	1.0000	390	58.6%	-	
2011 / 1	609	194	-	194	31.9%	1.0275	1.0000	1.0000	626	1.5687	1.0000	1.0000	305	48.7%	-	
2011 / 2	570	241	132	373	65.3%	1.0586	1.0000	1.0000	603	1.3294	1.0000	1.0000	496	82.3%	-	
2012 / 1	541	330	-	331	61.2%	1.1152	1.0000	1.0000	603	1.5166	1.0000	1.0000	502	83.3%	-	
2012 / 2	617	549	164	718	116.3%	1.1868	1.0000	1.0000	732	1.2839	1.0000	1.0000	921	125.8%	-	
2013 / 1	608	415	33	452	74.3%	1.2102	1.0000	1.0000	736	1.4635	1.0000	1.0000	661	89.8%	-	
2013 / 2	617	537	41	583	94.5%	1.1902	1.0000	1.0000	734	1.2371	1.0000	1.0000	721	98.2%	10.0%	
2014 / 1	612	285	-	285	46.5%	1.1706	1.0000	1.0000	716	1.4092	1.0000	1.0000	401	56.0%	10.0%	
2014 / 2	639	359	34	395	61.9%	1.1764	1.0000	1.0000	752	1.1901	1.0000	1.0000	471	62.6%	10.0%	
2015 / 1	634	178	3	180	28.5%	1.1831	1.0000	1.0000	750	1.3546	1.0000	1.0000	244	32.5%	10.0%	
2015 / 2	670	451	431	933	139.3%	1.1672	1.0000	1.0000	782	1.1429	1.0000	1.0000	1,067	136.4%	10.0%	
2016 / 1	674	233	323	615	91.2%	1.1329	1.0000	1.0000	764	1.2998	1.0000	1.0000	799	104.6%	10.0%	
2016 / 2	731	246	63	332	45.3%	1.0847	1.0000	1.0000	793	1.0949	1.0000	1.0000	363	45.8%	10.0%	
2017 / 1	756	188	87	470	62.2%	1.0605	1.0000	1.0000	802	1.2448	1.0000	1.0000	585	72.9%	10.0%	
2017 / 2	1,041	229	624	1,111	106.8%	1.0328	1.0000	1.0000	1,075	1.0473	1.0000	1.0000	1,164	108.3%	10.0%	
2018 / 1	1,242	274	553	869	70.0%	1.0120	1.0000	1.0000	1,257	1.1896	1.0000	1.0000	1,034	82.3%	10.0%	
<b>Total</b>	<b>14,018</b>	<b>6,546</b>	<b>2,488</b>	<b>9,679</b>	<b>69.0%</b>	<b>1.0768</b>	<b>1.0000</b>	<b>1.0000</b>	<b>15,094</b>	<b>1.3920</b>	<b>1.0000</b>	<b>1.0000</b>	<b>13,470</b>	<b>89.2%</b>	<b>100.0%</b>	

\*Indemnity & allowed claims expense from FA Valuation Summary

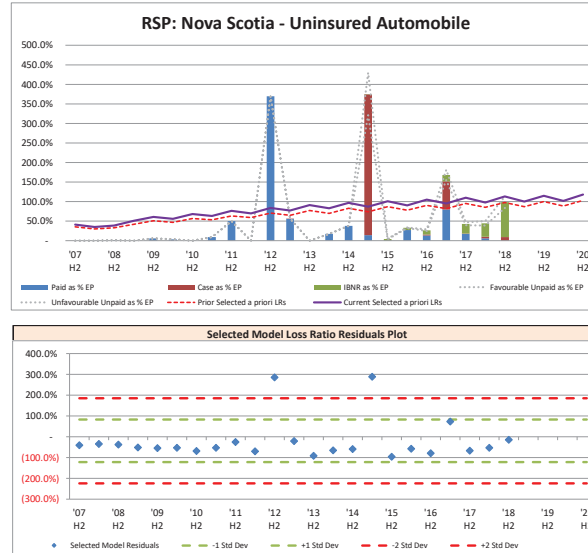
2017-2 AIX

on industry 2018-1 AIX data derived from 2018 / 2 on-levels

weighted average: 80.0%  
selected: 80.0%  
current: 82.0%  
prior: 82.0%

[6] Rate Change factors are current AHY on-level factors estimated using industry projected earned premium data, details are presented in the a priori LR model Rate Change Factors exhibit  
[7],[8] Additional premium adjustment factors not included in Rate Change factors [6], as necessary. If applicable, details are presented in the a priori LR model additional Premium Adjustment Factors exhibit  
[10] Loss Cost Trend factors are current AHY on-level modeled loss cost adjustment factors selected as part of the associated FA industry trend analysis using industry indemnity only claims data. These loss cost adjustment factors are not confined to claims trend and include any applicable adjustments for product reform, details are presented in the a priori LR model Claims Trend Factors exhibit  
[11] Reform Adj factors are additional explicit product reform adjustment factors not included in Loss Cost Trend factors [10], as necessary. If applicable, details are presented in the a priori LR model additional Claims Adjustment Factors exhibit  
[12] Additional claims adjustment factors not included in Loss Cost Trend factors [10], as necessary. If applicable, details are presented in the a priori LR model additional Claims Adjustment Factors exhibit

Accident Period	Current Selected	Prior Selected	Change
2007 / 2	41.0%	35.0%	6.0%
2008 / 1	35.0%	30.0%	5.0%
2008 / 2	39.0%	33.0%	6.0%
2009 / 1	51.0%	42.0%	9.0%
2009 / 2	61.0%	51.0%	10.0%
2010 / 1	56.0%	47.0%	9.0%
2010 / 2	68.0%	57.0%	11.0%
2011 / 1	63.0%	53.0%	10.0%
2011 / 2	76.0%	63.0%	13.0%
2012 / 1	70.0%	59.0%	11.0%
2012 / 2	84.0%	71.0%	13.0%
2013 / 1	77.0%	65.0%	12.0%
2013 / 2	91.0%	77.0%	14.0%
2014 / 1	83.0%	70.0%	13.0%
2014 / 2	97.0%	83.0%	14.0%
2015 / 1	87.0%	74.0%	13.0%
2015 / 2	101.0%	87.0%	14.0%
2016 / 1	90.0%	78.0%	12.0%
2016 / 2	105.0%	90.0%	15.0%
2017 / 1	95.0%	82.0%	13.0%
2017 / 2	110.0%	95.0%	15.0%
2018 / 1	98.0%	85.0%	13.0%
2018 / 2	113.0%	98.0%	15.0%
2019 / 1	100.0%	87.0%	13.0%
2019 / 2	115.0%	100.0%	15.0%
2020 / 1	102.0%	89.0%	13.0%
2020 / 2	118.0%	103.0%	15.0%



Current AHY: 2018 / 2

Accident Period	Sep 30, 2018 valuation result				
	Actual Earned Premium	Paid Claims Amount	Case Reserves	Selected Ultimate Claims Amount*	Selected Ultimate Loss Ratio
	[1]	[2]	[3]	[4]	[5]
	val data	val data	val data	val data	=[4]/[1]
2007 / 2	25	-	-	-	-
2008 / 1	56	-	-	-	-
2008 / 2	80	1	-	1	0.8%
2009 / 1	89	-	-	-	-
2009 / 2	101	6	-	6	6.2%
2010 / 1	69	2	-	2	3.3%
2010 / 2	68	-	-	-	-
2011 / 1	63	6	-	6	9.5%
2011 / 2	60	30	-	30	50.1%
2012 / 1	60	-	-	-	-
2012 / 2	72	266	0	266	369.8%
2013 / 1	71	40	0	40	56.8%
2013 / 2	67	-	-	-	-
2014 / 1	64	11	-	11	17.5%
2014 / 2	68	26	-	26	37.5%
2015 / 1	69	10	248	259	375.5%
2015 / 2	73	0	-	3	4.3%
2016 / 1	71	19	0	23	32.7%
2016 / 2	73	10	2	19	26.5%
2017 / 1	73	58	53	123	167.9%
2017 / 2	91	16	0	39	43.1%
2018 / 1	103	6	4	46	44.6%
<b>Total</b>	<b>1,566</b>	<b>507</b>	<b>307</b>	<b>901</b>	<b>57.5%</b>

\*Indemnity & allowed claims expense from FA Valuation Summary

Adjust EP to 2018 / 2 rate level			
Rate Change	Drift (RG, class, etc.)	Other	EP @ 2018 / 2 rate level
[6]	[7]	[8]	[9]
industry avg EP relativity	assumption	assumption	=[1]*[6]*[7]*[8]
0.8237	1.0000	1.0000	21
0.8476	1.0000	1.0000	47
0.8630	1.0000	1.0000	69
0.8709	1.0000	1.0000	78
0.8906	1.0000	1.0000	90
0.9069	1.0000	1.0000	63
0.9352	1.0000	1.0000	64
0.9612	1.0000	1.0000	61
0.9845	1.0000	1.0000	59
1.0062	1.0000	1.0000	60
1.0345	1.0000	1.0000	74
1.0507	1.0000	1.0000	75
1.0605	1.0000	1.0000	71
1.0694	1.0000	1.0000	68
1.0714	1.0000	1.0000	73
1.0674	1.0000	1.0000	74
1.0595	1.0000	1.0000	77
1.0478	1.0000	1.0000	74
1.0383	1.0000	1.0000	76
1.0373	1.0000	1.0000	76
1.0270	1.0000	1.0000	93
1.0179	1.0000	1.0000	105
<b>0.9881</b>	<b>1.0000</b>	<b>1.0000</b>	<b>1,548</b>

2017-2 AIX

Adjust Ultimate Claims Amount to 2018 / 2 cims level			
Loss Cost Trend Factor	Reform Adj Factor	Other Factor	Ult. Clms Amt @ 2018 / 2 cims level
[10]	[11]	[12]	[13]
trend analysis	assumption	assumption	=[4]*[10]*[11]*[12]
2.2824	1.0000	1.0000	-
2.7216	1.0000	1.0000	-
2.4828	1.0000	1.0000	2
1.9270	1.0000	1.0000	-
1.6432	1.0000	1.0000	10
1.8249	1.0000	1.0000	4
1.5560	1.0000	1.0000	-
1.7255	1.0000	1.0000	10
1.4721	1.0000	1.0000	44
1.6330	1.0000	1.0000	-
1.3919	1.0000	1.0000	371
1.5439	1.0000	1.0000	62
1.3178	1.0000	1.0000	-
1.4613	1.0000	1.0000	16
1.2472	1.0000	1.0000	32
1.3846	1.0000	1.0000	359
1.1803	1.0000	1.0000	4
1.3091	1.0000	1.0000	30
1.1171	1.0000	1.0000	22
1.2394	1.0000	1.0000	152
1.0560	1.0000	1.0000	41
1.1733	1.0000	1.0000	54
<b>1.3467</b>	<b>1.0000</b>	<b>1.0000</b>	<b>1,213</b>

on industry 2018-1 AIX data derived from 2018 / 2 on-levels

On-Level to 2018 / 2 Loss Ratios	Weights
[14]	[15]
= [13]/[9]	selected
-	-
-	-
2.9%	-
-	-
11.1%	-
6.3%	-
-	-
16.4%	-
74.6%	7.1%
-	7.1%
501.4%	7.1%
82.7%	7.1%
-	7.1%
23.5%	7.1%
43.8%	7.1%
485.1%	7.1%
5.2%	7.1%
40.5%	7.1%
28.9%	7.1%
200.0%	7.1%
44.1%	7.1%
51.4%	7.1%
<b>78.4%</b>	<b>100.0%</b>

weighted average: 112.9%  
selected: 113.0%  
current: 98.0%  
prior

[6] Rate Change factors are current AHY on-level factors estimated using industry projected earned premium data, details are presented in the a priori LR model Rate Change Factors exhibit  
[7],[8] Additional premium adjustment factors not included in Rate Change factors [6], as necessary. If applicable, details are presented in the a priori LR model additional Premium Adjustment Factors exhibit  
[10] Loss Cost Trend factors are current AHY on-level modeled loss cost adjustment factors selected as part of the associated FA industry trend analysis using industry indemnity only claims data. These loss cost adjustment factors are not confined to claims trend and include any applicable adjustments for product reform, details are presented in the a priori LR model Claims Trend Factors exhibit  
[11] Reform Adj factors are additional explicit product reform adjustment factors not included in Loss Cost Trend factors [10], as necessary. If applicable, details are presented in the a priori LR model additional Claims Adjustment Factors exhibit  
[12] Additional claims adjustment factors not included in Loss Cost Trend factors [10], as necessary. If applicable, details are presented in the a priori LR model additional Claims Adjustment Factors exhibit

Facility Association

**Estimated and Selected Ultimate Losses by Method**  
 as at March 31, 2019

Coverage: Accident Benefits

RSP: Nova Scotia

Amounts in: \$1,000s

Accident Year	Actual Experience				Ultimate Loss Estimates																					
	Earned Premium	Paid Claims to Date	Case Reserves	Reported to Date	ELR Method*	Link Ratio Method	Implied BF ELR Method weight*	Implied BF Link Ratio Method weight*	BF Method*	ELR Method weight	Link Ratio Method weight	ELR & LR Wtd Method	Incurred (Zero IBNR)	User Defined 1	User Defined 2	ELR Method Ult LR*	Link Ratio Method Ult LR	BF Method Ult LR*	ELR & LR Wtd Method Ult LR	Incurred (Zero IBNR) Ult LR	User Defined 1 Ult LR	User Defined 2 Ult LR	Selected Ultimate Claims Amount	Selected Ultimate Loss Ratio		
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]		
2007	177	51	-	51		51						51	51				28.9%		28.9%	28.9%				51	28.9%	
2008	959	545	-	545		545						545	545				56.9%		56.9%	56.9%				545	56.9%	
2009	1,353	558	-	558		557						557	558				41.2%		41.2%	41.2%				558	41.2%	
2010	1,464	692	-	692	801	692	-	100.0%	692			692	692				54.7%	47.3%	47.3%	47.3%	47.3%				692	47.3%
2011	1,301	476	128	604	766	604	-	100.0%	604			604	604				58.9%	46.4%	46.4%	46.4%	46.4%				604	46.4%
2012	1,290	1,147	0	1,147	878	1,147	-	100.0%	1,147			1,147	1,147				68.1%	89.0%	89.0%	89.0%	89.0%				1,147	89.0%
2013	1,364	1,017	16	1,033	993	1,035	0.7%	99.3%	1,035			1,035	1,033				72.8%	75.9%	75.9%	75.9%	75.7%				1,033	75.7%
2014	1,383	684	9	693	1,028	695	0.2%	99.8%	695			695	693				74.3%	50.2%	50.3%	50.2%	50.1%				694	50.2%
2015	1,445	682	641	1,323	1,126	1,377	9.1%	90.9%	1,354			1,306	1,323				77.9%	95.3%	93.7%	90.4%	91.5%				1,355	93.8%
2016	1,549	738	104	842	1,190	897	4.3%	95.7%	910			1,045	842				76.8%	57.9%	58.7%	67.4%	54.3%				911	58.8%
2017	1,959	608	663	1,271	1,505	1,619	71.5%	28.5%	1,537			1,506	1,271				76.8%	82.6%	78.4%	76.9%	64.8%				1,717	87.6%
2018	2,756	595	602	1,197	2,110	1,288	4.6%	95.4%	1,326			2,077	1,197				76.6%	46.8%	48.1%	75.4%	43.4%				2,077	75.4%
2019	708	21	565	586	1,060	1,021	(78.9%)	178.9%	990			-	586				149.8%	144.3%	139.9%		82.8%				640	90.4%
<b>Total</b>	<b>17,708</b>	<b>7,814</b>	<b>2,728</b>	<b>10,541</b>	<b>11,456</b>	<b>11,530</b>			<b>10,291</b>			<b>11,261</b>	<b>10,541</b>											<b>12,023</b>		

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*For 'off-half' valuation quarters (Mar and Sep), the current accident year (CAY) by method Ultimate Loss estimates ([5] to [22]) are aggregated from a coverage level

Facility Association

**Comparison of Estimated Ultimate Losses by Method**  
 as at March 31, 2019

Coverage: Accident Benefits

RSP: Nova Scotia

Amounts in: \$1,000s

Accident Year	Current Valuation Results (as at Mar 2019)											Prior Valuation Results (as at Dec 2018)							Change from Prior Valuation						
	ELR Method*	Link Ratio Method	BF Method*	ELR & LR Wtd Method	Incurred (Zero IBNR)	User Defined 1	User Defined 2	Selected IBNR Method**	Selected IBNR	Selected Ultimate	Selected Ultimate LR	ELR Method*	LR Ratio Method	BF Method*	Selected IBNR Method**	Selected IBNR	Selected Ultimate	Selected Ultimate LR	Incurred to Date	Selected IBNR	Selected Ultimate	Selected Ultimate LR			
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]			
2007			51		51			N/A	-	51	28.9%			51			N/A	-	51	28.9%	-	-	-	-	
2008			545		545	545		N/A	-	545	56.9%			545			N/A	-	545	56.9%	-	-	-	-	
2009			557		557	558		N/A	-	558	41.2%			557			N/A	-	558	41.2%	-	-	-	-	
2010		801	692	692	692	692		N/A	-	692	47.3%		801	692	692			N/A	-	692	47.3%	-	-	-	-
2011		766	604	604	604	604		N/A	-	604	46.4%		766	603	603			N/A	-	604	46.4%	-	-	-	-
2012		878	1,147	1,147	1,147	1,147		N/A	-	1,147	89.0%		878	1,147	1,147			N/A	-	1,147	88.9%	1	-	1	0.1%
2013		993	1,035	1,035	1,035	1,033		N/A	-	1,033	75.7%		993	1,030	1,030			N/A	-	1,025	75.2%	8	-	8	0.5%
2014		1,028	695	695	695	693		N/A	1	694	50.2%		1,028	695	696			N/A	2	695	50.3%	-	(1)	(1)	(0.1%)
2015		1,126	1,377	1,354	1,306	1,323		N/A	32	1,355	93.8%		1,126	1,390	1,363			N/A	41	1,364	94.4%	(1)	(9)	(10)	(0.6%)
2016		1,190	897	910	1,045	842		N/A	69	911	58.8%		1,190	1,012	1,017			N/A	91	1,016	65.5%	(83)	(22)	(105)	(6.7%)
2017		1,505	1,619	1,537	1,506	1,271		N/A	446	1,717	87.6%		1,505	1,720	1,604			N/A	479	1,767	90.2%	(17)	(33)	(50)	(2.6%)
2018		2,110	1,288	1,326	2,077	1,197		N/A	880	2,077	75.4%		2,113	1,567	1,582			N/A	572	2,093	75.9%	(324)	308	(16)	(0.5%)
2019		1,060	1,021	990	-	586		N/A	54	640	90.4%		-	-	-			N/A	-	-	-	586	54	640	90.4%
<b>Total</b>	<b>11,456</b>	<b>11,530</b>	<b>10,291</b>	<b>11,261</b>	<b>10,541</b>				<b>1,482</b>	<b>12,023</b>		<b>10,400</b>	<b>11,009</b>	<b>9,733</b>				<b>1,185</b>	<b>11,558</b>		<b>170</b>	<b>297</b>	<b>467</b>		
<b>2018 &amp; Prior</b>	<b>10,396</b>	<b>10,510</b>	<b>9,301</b>	<b>11,261</b>	<b>9,956</b>				<b>1,428</b>	<b>11,384</b>		<b>10,400</b>	<b>11,009</b>	<b>9,733</b>				<b>1,185</b>	<b>11,558</b>		<b>(416)</b>	<b>243</b>	<b>(173)</b>		

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*IBNR selected on a coverage level and aggregated to a Government Line (or Total) level

Facility Association

**Estimated and Selected Ultimate Losses by Method**  
 as at March 31, 2019

Coverage: AccBen (Indivis)

RSP: Nova Scotia

Amounts in: \$1,000s

Accident Year	Actual Experience				Ultimate Loss Estimates																			
	Earned Premium	Paid Claims to Date	Case Reserves	Reported to Date	ELR Method*	Link Ratio Method	Implied BF ELR Method weight*	Implied BF Link Ratio Method weight*	BF Method*	ELR Method weight	Link Ratio Method weight	ELR & LR Wtd Method	Incurred (Zero IBNR)	User Defined 1	Data Correction	ELR Method Ult LR*	Link Ratio Method Ult LR	BF Method Ult LR*	ELR & LR Wtd Method Ult LR*	Incurred (Zero IBNR) Ult LR	User Defined 1 Ult LR	Data Correction Ult LR	Selected Ultimate Claims Amount	Selected Ultimate Loss Ratio*
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]
2007 / 1	6	1	-	1		1				-	100.0%	1	1										1	
2007 / 2	171	51	-	51		51				-	100.0%	51	51										51	
2008 / 1	396	258	-	258		258				-	100.0%	258	258										258	
2008 / 2	563	286	-	286		286				-	100.0%	286	286										286	
2009 / 1	611	88	-	88		88				-	100.0%	88	88										88	
2009 / 2	666	463	-	463	226	463	(0.1%)	100.1%	463	-	100.0%	463	463			34.0%	69.5%	69.5%	69.5%	69.6%			463	69.6%
2010 / 1	669	406	-	406	328	406	-	100.0%	406	-	100.0%	406	406			49.0%	60.7%	60.7%	60.7%	60.7%			406	60.7%
2010 / 2	658	284	-	284	388	284	-	100.0%	284	-	100.0%	284	284			59.0%	43.1%	43.1%	43.1%	43.1%			284	43.1%
2011 / 1	609	194	-	194	316	195	-	100.0%	195	-	100.0%	195	194			52.0%	32.0%	32.0%	32.0%	32.0%			194	32.0%
2011 / 2	570	246	128	373	365	373	-	100.0%	373	-	100.0%	373	373			64.0%	65.5%	65.5%	65.5%	65.5%			373	65.5%
2012 / 1	541	330	-	330	319	330	(0.1%)	100.1%	330	-	100.0%	330	330			59.0%	61.1%	61.1%	61.1%	61.1%			330	61.1%
2012 / 2	617	549	-	549	457	549	-	100.0%	549	-	100.0%	549	549			74.0%	89.0%	89.0%	89.0%	89.0%			549	89.0%
2013 / 1	608	440	15	455	402	456	0.1%	99.9%	456	-	100.0%	456	455			66.0%	75.0%	74.9%	75.0%	74.8%			455	74.8%
2013 / 2	617	537	-	537	475	539	0.4%	99.6%	539	-	100.0%	539	537			77.0%	87.3%	87.3%	87.3%	87.0%			537	87.0%
2014 / 1	612	285	-	285	404	285	0.1%	99.9%	285	-	100.0%	285	285			66.0%	46.6%	46.6%	46.6%	46.5%			285	46.5%
2014 / 2	639	363	9	372	505	373	0.3%	99.7%	374	-	100.0%	373	372			79.0%	58.4%	58.5%	58.4%	58.2%			373	58.4%
2015 / 1	634	178	3	180	444	180	(0.5%)	100.5%	178	12.5%	87.5%	213	180			70.0%	28.3%	28.1%	33.5%	28.5%			179	28.3%
2015 / 2	670	486	397	883	549	938	5.9%	94.1%	915	25.0%	75.0%	841	883			82.0%	140.1%	136.7%	125.6%	131.9%			915	136.6%
2016 / 1	674	445	38	483	472	522	7.6%	92.4%	518	37.5%	62.5%	503	483			70.0%	77.5%	76.9%	74.7%	71.6%			519	76.9%
2016 / 2	731	264	65	329	577	343	4.1%	95.9%	353	50.0%	50.0%	460	329			79.0%	46.9%	48.3%	63.0%	45.0%			353	48.3%
2017 / 1	756	204	22	225	514	237	4.9%	95.1%	250	62.5%	37.5%	410	225			68.0%	31.4%	33.1%	54.3%	29.8%			410	54.3%
2017 / 2	1,040	315	568	883	822	1,190	25.8%	74.2%	1,095	75.0%	25.0%	914	883			79.0%	114.4%	105.3%	87.8%	84.9%			1,095	105.2%
2018 / 1	1,241	372	208	580	844	652	11.0%	89.0%	673	87.5%	12.5%	820	580			68.0%	52.5%	54.2%	66.1%	46.7%			820	66.1%
2018 / 2	1,303	189	356	546	1,043	526	(3.7%)	103.7%	507	100.0%	-	1,043	546			80.0%	40.4%	38.9%	80.0%	41.9%			1,043	80.0%
2019 / 1	654	21	565	586	948	1,021	42.6%	57.4%	990	100.0%	-	586	586			70.0%	75.4%	73.1%	-	-			586	89.6%
<b>Total</b>	<b>16,256</b>	<b>7,253</b>	<b>2,375</b>	<b>9,628</b>	<b>10,397</b>	<b>10,547</b>			<b>9,734</b>			<b>10,141</b>	<b>9,628</b>										<b>10,854</b>	

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*For 'off-half' valuation quarters (Mar and Sep), the current accident half-year (CAHY) by method Ultimate Loss estimates ([5] to [22]) are based on projected full AHY Earned Premium estimates

Facility Association

Comparison of Estimated IBNR by Method

as at March 31, 2019

Coverage: AccBen (indivis)

RSP: Nova Scotia

Amounts in: \$1,000s

Accident Year	Current Valuation Results (as at Mar 2019)											Prior Valuation Results (as at Dec 2018)				Change from Prior Valuation						
	ELR Method IBNR*	Link Ratio Method IBNR	BF Method IBNR*	ELR & LR Wtd Method IBNR	Incurred (Zero IBNR) IBNR	User Defined 1 IBNR	User Defined 2 IBNR	Selected IBNR Method	Selected IBNR	Selected Ultimate	Selected Ultimate LR*	ELR Method IBNR*	Link Ratio Method IBNR	BF Method IBNR*	Selected IBNR Method	Selected IBNR	Selected Ultimate	Selected Ultimate LR*	Incurred to Date	Selected IBNR	Selected Ultimate	Selected Ultimate LR*
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
2007 / 1		-	-	-	-	-	-	Link Ratio Method	-	1		-	-		Link Ratio Method	-	1		-	-	-	-
2007 / 2		-	-	-	-	-	-	Link Ratio Method	-	51		-	-		Link Ratio Method	-	51		-	-	-	-
2008 / 1		-	-	-	-	-	-	Link Ratio Method	-	258		-	-		Link Ratio Method	-	258		-	-	-	-
2008 / 2		-	-	-	-	-	-	Link Ratio Method	-	286		-	-		Link Ratio Method	-	286		-	-	-	-
2009 / 1		-	-	-	-	-	-	Link Ratio Method	-	88		-	-		Link Ratio Method	-	88		-	-	-	-
2009 / 2	(237)	(0)	(0)	(0)	-	-	-	Incurred (Zero IBNR)	-	463	69.6%	(237)	(1)	(0)	Incurred (Zero IBNR)	-	463	69.6%	-	-	-	-
2010 / 1	(78)	(0)	(0)	(0)	-	-	-	Incurred (Zero IBNR)	-	406	60.7%	(78)	(0)	(0)	Incurred (Zero IBNR)	-	406	60.7%	-	-	-	-
2010 / 2	104	0	0	0	-	-	-	Incurred (Zero IBNR)	-	284	43.1%	104	(0)	(0)	Incurred (Zero IBNR)	-	284	43.1%	-	-	-	-
2011 / 1	122	0	0	0	-	-	-	Incurred (Zero IBNR)	-	194	32.0%	122	(0)	(0)	Incurred (Zero IBNR)	-	194	32.0%	-	-	-	-
2011 / 2	(9)	(0)	(0)	(0)	-	-	-	Incurred (Zero IBNR)	-	373	65.5%	(9)	(1)	(1)	Incurred (Zero IBNR)	-	373	65.5%	-	-	-	-
2012 / 1	(11)	(0)	(0)	(0)	-	-	-	Incurred (Zero IBNR)	-	330	61.1%	(11)	(0)	(0)	Incurred (Zero IBNR)	-	330	61.1%	-	-	-	-
2012 / 2	(93)	(0)	(0)	(0)	-	-	-	Incurred (Zero IBNR)	-	549	89.0%	(93)	(0)	(0)	Incurred (Zero IBNR)	-	549	89.0%	-	-	-	-
2013 / 1	(54)	1	1	1	-	-	-	Incurred (Zero IBNR)	-	455	74.8%	(46)	2	2	Incurred (Zero IBNR)	-	448	73.6%	8	-	8	1.2%
2013 / 2	(62)	2	2	2	-	-	-	Incurred (Zero IBNR)	-	537	87.0%	(62)	3	3	Incurred (Zero IBNR)	-	537	87.0%	-	-	-	-
2014 / 1	119	0	0	0	-	-	-	Link Ratio Method	-	285	46.5%	119	(0)	(0)	Link Ratio Method	-	285	46.5%	-	-	-	-
2014 / 2	133	1	2	1	-	-	-	Link Ratio Method	1	373	58.4%	133	2	3	Link Ratio Method	2	374	58.5%	-	(1)	(1)	(0.1%)
2015 / 1	263	(1)	(2)	32	-	-	-	Link Ratio Method	(1)	179	28.3%	263	(1)	(2)	Link Ratio Method	(1)	179	28.3%	-	-	-	-
2015 / 2	(334)	55	32	(42)	-	-	-	BF Method	32	915	136.6%	(335)	68	39	BF Method	39	923	137.9%	(1)	(7)	(8)	(1.3%)
2016 / 1	(11)	40	36	21	-	-	-	BF Method	36	519	76.9%	(86)	65	49	BF Method	49	607	90.0%	(75)	(13)	(88)	(13.1%)
2016 / 2	249	14	24	131	-	-	-	BF Method	24	353	48.3%	241	20	32	BF Method	32	368	50.4%	(8)	(8)	(16)	(2.1%)
2017 / 1	289	12	25	185	-	-	-	ELR & LR Wtd Method	185	410	54.3%	252	18	33	ELR & LR Wtd Method	165	427	56.4%	(36)	20	(16)	(2.1%)
2017 / 2	(61)	307	212	31	-	-	-	BF Method	212	1,095	105.2%	(63)	382	248	BF Method	248	1,133	108.9%	(2)	(36)	(38)	(3.7%)
2018 / 1	264	72	93	240	-	-	-	ELR & LR Wtd Method	240	820	66.1%	148	75	82	ELR & LR Wtd Method	139	835	67.3%	(116)	101	(15)	(1.2%)
2018 / 2	497	(20)	(39)	497	-	-	-	ELR & LR Wtd Method	497	1,043	80.0%	277	(72)	(108)	ELR & LR Wtd Method	277	1,046	80.0%	(223)	220	(3)	-
2019 / 1	-	-	-	-	-	-	-	Link Ratio Method	-	586	89.6%	-	-	-	Link Ratio Method	-	586	89.6%	586	-	586	89.6%
Total	1,091	483	386	1,099	-	-	-		1,226	10,854		640	559	379		950	10,446		133	276	409	
2018 / 2 & Prior	1,091	483	386	1,099	-	-	-		1,226	10,268		640	559	379		950	10,446		(453)	276	(177)	

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*Current accident half-year IBNR and Ultimate Loss estimates derived from the CAHY Selections exhibit

Facility Association  
**Estimated and Selected Ultimate Losses by Method**  
 as at December 31, 2018  
**Coverage: Uninsured Automobile**  
**RSP: Nova Scotia**  
 Amounts in: \$1,000s

Accident Year	Actual Experience				Ultimate Loss Estimates																				
	Earned Premium	Paid Claims to Date	Case Reserves	Reported to Date	ELR Method*	Link Ratio Method	Implied BF ELR Method weight*	Implied BF Link Ratio Method weight*	BF Method*	ELR Method weight	Link Ratio Method weight	ELR & LR Wtd Method	Incurred (Zero IBNR)	User Defined 1	Data Correction	ELR Method Ult LR*	Link Ratio Method Ult LR	BF Method Ult LR*	ELR & LR Wtd Method Ult LR*	Incurred (Zero IBNR) Ult LR	User Defined 1 Ult LR	Data Correction Ult LR	Selected Ultimate Claims Amount	Selected Ultimate Loss Ratio*	
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	
2007 / 1	-	-	-	-	-	-	-	-	-	-	100.0%	-	-	-	-	=(9)/(1)	=(6)/(1)	=(9)/(1)	=(12)/(1)	=(13)/(1)	=(14)/(1)	=(15)/(1)	-	-	
2007 / 2	(0)	-	-	-	-	-	-	-	-	-	100.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	
2008 / 1	(1)	-	-	-	-	-	-	-	-	-	100.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	
2008 / 2	(1)	1	-	1	-	1	-	-	-	-	100.0%	1	1	-	-	-	-	-	-	-	-	-	1	-	
2009 / 1	17	-	-	-	-	-	-	-	-	-	100.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	
2009 / 2	59	6	-	6	36	6	-	100.0%	6	-	100.0%	6	6	-	-	61.0%	10.5%	10.5%	10.5%	10.5%	-	-	6	10.5%	
2010 / 1	69	2	-	2	39	2	-	100.0%	2	-	100.0%	2	2	-	-	56.0%	3.3%	3.3%	3.3%	3.3%	-	-	2	3.3%	
2010 / 2	68	-	-	-	46	-	-	100.0%	-	-	100.0%	-	-	-	-	68.0%	-	-	-	-	-	-	-	-	
2011 / 1	63	6	-	6	39	6	-	100.0%	6	-	100.0%	6	6	-	-	63.0%	9.6%	9.6%	9.6%	9.6%	-	-	6	9.6%	
2011 / 2	60	30	-	30	46	30	-	100.0%	30	-	100.0%	30	30	-	-	76.0%	50.1%	50.1%	50.1%	50.1%	-	-	30	50.1%	
2012 / 1	60	-	-	-	42	-	-	100.0%	-	-	100.0%	-	-	-	-	70.0%	-	-	-	-	-	-	-	-	
2012 / 2	72	267	0	267	60	267	-	100.0%	267	-	100.0%	267	267	-	-	84.0%	372.0%	372.0%	372.0%	372.0%	-	-	267	372.0%	
2013 / 1	71	40	0	40	55	40	-	100.0%	40	-	100.0%	40	40	-	-	77.0%	56.8%	56.8%	56.8%	56.8%	-	-	40	56.8%	
2013 / 2	67	-	-	-	61	-	-	100.0%	-	-	100.0%	-	-	-	-	91.0%	-	-	-	-	-	-	-	-	
2014 / 1	64	11	-	11	53	11	-	100.0%	11	-	100.0%	11	11	-	-	83.0%	17.4%	17.4%	17.4%	17.4%	-	-	11	17.4%	
2014 / 2	68	26	-	26	66	26	-	100.0%	26	-	100.0%	26	26	-	-	97.0%	37.4%	37.4%	37.4%	37.4%	-	-	26	37.4%	
2015 / 1	69	18	241	259	60	259	-	100.0%	259	12.5%	87.5%	234	259	-	-	87.0%	376.6%	376.6%	340.4%	376.6%	-	-	259	376.6%	
2015 / 2	73	0	-	0	73	0	3.6%	96.4%	3	25.0%	75.0%	18	0	-	-	101.0%	0.2%	3.8%	25.4%	0.2%	-	-	3	4.3%	
2016 / 1	71	19	0	19	64	20	5.2%	94.8%	23	37.5%	62.5%	37	19	-	-	90.0%	28.4%	31.6%	51.5%	26.9%	-	-	22	31.1%	
2016 / 2	73	10	2	11	77	12	9.2%	90.8%	18	50.0%	50.0%	45	11	-	-	105.0%	17.0%	25.1%	61.0%	15.4%	-	-	18	24.9%	
2017 / 1	73	58	53	111	69	133	17.0%	83.0%	122	62.5%	37.5%	93	111	-	-	95.0%	183.3%	168.3%	128.1%	152.2%	-	-	123	168.7%	
2017 / 2	91	31	0	31	100	41	23.9%	76.1%	55	75.0%	25.0%	85	31	-	-	110.0%	45.2%	60.6%	93.8%	34.4%	-	-	85	94.0%	
2018 / 1	103	6	3	10	101	14	31.5%	68.5%	42	87.5%	12.5%	90	10	-	-	98.0%	13.9%	40.4%	87.5%	9.5%	-	-	90	87.3%	
2018 / 2	109	21	25	47	123	85	45.1%	54.9%	102	100.0%	-	47	47	-	-	113.0%	78.2%	93.9%	-	-	-	-	123	112.9%	
<b>Total</b>	<b>1,398</b>	<b>552</b>	<b>324</b>	<b>876</b>	<b>1,210</b>	<b>954</b>			<b>1,011</b>			<b>991</b>	<b>876</b>											<b>1,111</b>	

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level  
 \*\*For "off-half" valuation quarters (Mar and Sep), the current accident half-year (CAHY) by method Ultimate Loss estimates ([5] to [22]) are based on projected full AHY Earned Premium estimates



Facility Association  
Comparison of Estimated IBNR by Method  
as at December 31, 2018  
Coverage: Uninsured Automobile  
RSP: Nova Scotia  
Amounts in: \$1,000s

Accident Year	Current Valuation Results (as at Dec 2018)											Prior Valuation Results (as at Sep 2018)				Change from Prior Valuation						
	ELR Method IBNR*	Link Ratio Method IBNR	BF Method IBNR*	ELR & LR Wtd Method IBNR	Incurred (Zero IBNR) IBNR	User Defined 1 IBNR	User Defined 2 IBNR	Selected IBNR Method	Selected IBNR	Selected Ultimate	Selected Ultimate LR*	ELR Method IBNR*	Link Ratio Method IBNR	BF Method IBNR*	Selected IBNR Method	Selected IBNR	Selected Ultimate	Selected Ultimate LR*	Incurred to Date	Selected IBNR	Selected Ultimate	Selected Ultimate LR*
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
2007 / 1		-		-	-		Link Ratio Method	-	-			-		Link Ratio Method	-	-		-	-	-	-	
2007 / 2		-		-	-		Link Ratio Method	-	-			-		Link Ratio Method	-	-		-	-	-	-	
2008 / 1		-		-	-		Link Ratio Method	-	-			-		Link Ratio Method	-	-		-	-	-	-	
2008 / 2		-		-	-		Link Ratio Method	-	1			-		Link Ratio Method	-	1		-	-	-	-	
2009 / 1		-		-	-		Link Ratio Method	-	-			-		Link Ratio Method	-	-		-	-	-	-	
2009 / 2	30	-	-	-	-		Link Ratio Method	-	6	10.5%	24	-	-	Link Ratio Method	-	6	10.5%	-	-	-	-	
2010 / 1	37	-	-	-	-		Link Ratio Method	-	2	3.3%	30	-	-	Link Ratio Method	-	2	3.3%	-	-	-	-	
2010 / 2	46	-	-	-	-		Link Ratio Method	-	-	-	39	-	-	Link Ratio Method	-	-	-	-	-	-	-	
2011 / 1	33	-	-	-	-		Link Ratio Method	-	6	9.6%	27	-	-	Link Ratio Method	-	6	9.6%	-	-	-	-	
2011 / 2	16	-	-	-	-		Link Ratio Method	-	30	50.1%	8	-	-	Link Ratio Method	-	30	50.1%	-	-	-	-	
2012 / 1	42	-	-	-	-		Link Ratio Method	-	-	-	35	-	-	Link Ratio Method	-	-	-	-	-	-	-	
2012 / 2	(206)	-	-	-	-		Link Ratio Method	-	267	372.0%	(215)	-	-	Link Ratio Method	-	266	371.3%	-	-	-	0.7%	
2013 / 1	14	-	-	-	-		Link Ratio Method	-	40	56.8%	6	-	-	Link Ratio Method	-	40	56.8%	-	-	-	-	
2013 / 2	61	-	-	-	-		Link Ratio Method	-	-	-	52	-	-	Link Ratio Method	-	-	-	-	-	-	-	
2014 / 1	42	-	-	-	-		Link Ratio Method	-	11	17.4%	34	-	-	Link Ratio Method	-	11	17.4%	-	-	-	-	
2014 / 2	41	-	-	-	-		Link Ratio Method	-	26	37.4%	31	-	-	Link Ratio Method	-	26	37.4%	-	-	-	-	
2015 / 1	(199)	-	-	(25)	-		Link Ratio Method	-	259	376.6%	(207)	5	1	BF Method	1	259	377.2%	1	(1)	-	(0.6%)	
2015 / 2	73	0	3	18	-		BF Method	3	3	4.3%	63	0	3	BF Method	3	3	4.3%	-	-	-	-	
2016 / 1	45	1	3	18	-		BF Method	3	22	31.1%	36	1	4	BF Method	4	23	32.6%	-	(1)	(1)	(1.5%)	
2016 / 2	66	1	7	33	-		BF Method	7	18	24.9%	55	2	8	BF Method	8	19	26.3%	-	(1)	(1)	(1.4%)	
2017 / 1	(42)	23	12	(18)	-		BF Method	12	123	168.7%	(51)	27	12	BF Method	12	123	168.7%	-	-	-	-	
2017 / 2	68	10	24	54	-		ELR & LR Wtd Method	54	85	94.0%	70	6	23	BF Method	23	39	43.3%	15	31	46	50.7%	
2018 / 1	91	5	32	80	-		ELR & LR Wtd Method	80	90	87.3%	78	7	36	BF Method	36	46	44.6%	-	44	44	42.7%	
2018 / 2	-	-	-	-	-			76	123	112.9%	101	16	81		48	53	98.0%	42	28	70	14.9%	
Total	259	39	80	161	-			235	1,111		215	64	167		135	954		58	100	158		
2018 / 1 & Prio	259	39	80	161	-			159	989		114	48	87		87	901		16	72	88		

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level  
\*\*Current accident half-year IBNR and Ultimate Loss estimates derived from the CAHY Selections exhibit

Facility Association      **Valuation Results**  
 Amounts in: \$1,000s      as at March 31, 2019  
**Coverage: Other Coverages**  
**RSP: Nova Scotia**

Life to Date													
Accident Year	Earned Premium \$000s [2] <i>database</i>	Paid Indemnity & Allowed Claims Expense		Case Reserves		Recorded Indemnity & Allowed Claims Expense		Selected IBNR		Ultimate Indemnity & Allowed Claims Expense		Unpaid Indemnity & Allowed Claims Expense	
		\$000s [3] <i>database</i>	% EP [4] = [3]/[2]	\$000s [5] = [7]-[3]	% EP [6] = [5]/[2]	\$000s [7] <i>database</i>	% EP [8] = [7]/[2]	\$000s [9] <i>database</i>	% EP [10] = [9]/[2]	\$000s [11] = [7]+[9]	% EP [12] = [11]/[2]	\$000s [13] = [5]+[9]	% EP [14] = [13]/[2]
2014 & prior	25,989	18,240	70.2%	-	-	18,240	70.2%	1	-	18,241	70.2%	1	-
2015	4,047	2,459	60.8%	-	-	2,459	60.8%	5	0.1%	2,464	60.9%	5	0.1%
2016	4,062	2,396	59.0%	-	-	2,396	59.0%	19	0.5%	2,415	59.5%	19	0.5%
2017	4,885	3,462	70.9%	38	0.8%	3,500	71.6%	25	0.5%	3,525	72.2%	63	1.3%
2018	7,309	6,010	82.2%	194	2.7%	6,204	84.9%	(71)	(1.0%)	6,133	83.9%	123	1.7%
2019	1,952	1,232	63.1%	711	36.4%	1,943	99.5%	(345)	(17.7%)	1,598	81.9%	366	18.8%
<b>TOTAL</b>	<b>48,244</b>	<b>33,799</b>	<b>70.1%</b>	<b>943</b>	<b>2.0%</b>	<b>34,742</b>	<b>72.0%</b>	<b>(366)</b>	<b>(0.8%)</b>	<b>34,376</b>	<b>71.3%</b>	<b>577</b>	<b>1.2%</b>

2018 & prior	46,292	32,567	70.4%	232	0.5%	32,799	70.9%	(21)	-	32,778	70.8%	211	0.5%
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Activity During Quarter vs EP													
Accident Year	Earned Premium (LTD) \$000s [16] <i>database</i>	Change in Paid Indemnity & Allowed Claims Expense		Change in Case Reserves		Change in Recorded Indemnity & Allowed Claims Expense		Change in Selected IBNR		Change in Ultimate Indemnity & Allowed Claims Expense		Change in Unpaid Indemnity & Allowed Claims Expense	
		\$000s [17] <i>database</i>	% EP [18] = [17]/[16]	\$000s [19] <i>database</i>	% EP [20] = [19]/[16]	\$000s [21] <i>database</i>	% EP [22] = [21]/[16]	\$000s [23] <i>database</i>	% EP [24] = [23]/[16]	\$000s [25] <i>database</i>	% EP [26] = [25]/[16]	\$000s [27] <i>database</i>	% EP [28] = [27]/[16]
2014 & prior	25,989	-	-	-	-	-	-	-	-	-	-	-	-
2015	4,047	-	-	-	-	-	-	-	-	-	-	-	-
2016	4,062	-	-	-	-	-	-	1	-	1	-	1	-
2017	4,885	(11)	(0.2%)	(5)	(0.1%)	(16)	(0.3%)	3	0.1%	(13)	(0.3%)	(2)	-
2018	7,309	1,082	14.8%	(601)	(8.2%)	481	6.6%	74	1.0%	555	7.6%	(527)	(7.2%)
<b>TOTAL</b>	<b>46,292</b>	<b>1,071</b>	<b>2.3%</b>	<b>(606)</b>	<b>(1.3%)</b>	<b>465</b>	<b>1.0%</b>	<b>78</b>	<b>0.2%</b>	<b>543</b>	<b>1.2%</b>	<b>(528)</b>	<b>(1.1%)</b>

Emergence During Quarter									
Accident Year	Beginning IBNR \$000s [30] <i>database</i>	Beginning Unpaid \$000s [31] <i>database</i>	Change in Paid Indemnity & Allowed Claims Expense		Change in Recorded Indemnity & Allowed Claims Expense		Change in Ultimate Indemnity & Allowed Claims Expense		
			\$000s [32] <i>database</i>	% Beg Unpaid [33] = [32]/[31]	\$000s [34] <i>database</i>	% Beg IBNR [35] = [34]/[30]	\$000s [36] <i>database</i>	% Beg Unpaid [37] = [36]/[31]	
2014 & prior	1	1	-	-	-	-	-	-	
2015	5	5	-	-	-	-	-	-	
2016	18	18	-	-	-	-	1	5.6%	
2017	22	65	(11)	(16.9%)	(16)	(72.7%)	(13)	(20.0%)	
2018	(145)	650	1,082	166.5%	481	(331.7%)	555	85.4%	
<b>TOTAL</b>	<b>(99)</b>	<b>739</b>	<b>1,071</b>	<b>144.9%</b>	<b>465</b>	<b>(469.7%)</b>	<b>543</b>	<b>73.5%</b>	

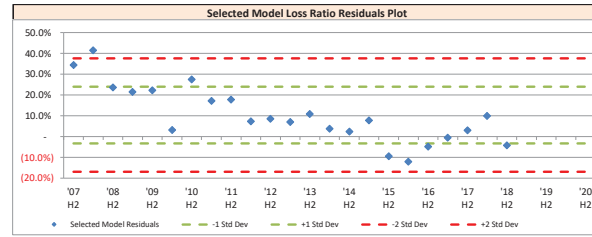
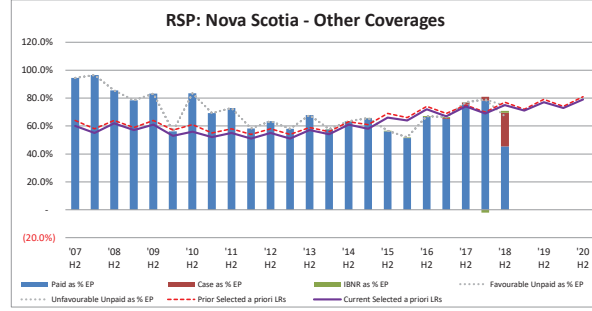
Facility Association      **Loss Ratios Over Time**  
 Amounts in: \$1,000s      as at March 31, 2019  
**Coverage: Other Coverages**  
**RSP: Nova Scotia**

Accident Year [1]	Earned Premium	Paid Claims Amt*	Case Reserve	Recorded Claims Amt*	Selected IBNR	Ultimate Claims Amt*	Selected Ultimate LR	Selected Ultimate LR	Selected Ultimate LR	Selected Ultimate LR	Selected Ultimate LR	Ultimate LR	Sel Ult LR @ Mar 2019 compared with prior Sel Ult LR @ Dec 2018		Sel Ult LR @ Mar 2019 compared with prior Sel Ult LR @ Mar 2018	
	@ Mar 2019 [2] <i>database</i>	@ Mar 2019 [3] <i>database</i>	@ Mar 2019 [4] <i>= [5]-[3]</i>	@ Mar 2019 [5] <i>database</i>	@ Mar 2019 [6] <i>database</i>	@ Mar 2019 [7] <i>= [5]+[6]</i>	@ Mar 2019 [8] <i>= [7]/[2]</i>	@ Dec 2018 [9] <i>database</i>	@ Sep 2018 [10] <i>database</i>	@ Jun 2018 [11] <i>database</i>	@ Mar 2018 [12] <i>database</i>	Ultimate LR [13] <i>= [8]-[9]</i>	Claims Amt* [14]	Ultimate LR [15] <i>= [8]-[12]</i>	Claims Amt* [16] <i>= [2]*[15]</i>	
2007	506	469	-	469	-	469	92.7%	92.7%	92.7%	92.7%	92.7%	-	-	-	-	
2008	2,679	2,416	-	2,416	-	2,416	90.2%	90.2%	90.2%	90.2%	90.2%	-	-	-	-	
2009	3,581	2,897	-	2,897	-	2,897	80.9%	80.9%	80.9%	80.9%	80.9%	-	-	-	-	
2010	3,768	2,621	-	2,621	-	2,621	69.6%	69.6%	69.6%	69.6%	69.6%	-	-	-	-	
2011	3,505	2,489	-	2,489	-	2,489	71.0%	71.0%	71.0%	71.0%	71.0%	-	-	-	-	
2012	3,963	2,421	-	2,421	-	2,421	61.1%	61.1%	61.1%	61.1%	61.1%	-	-	-	-	
2013	4,101	2,576	-	2,576	-	2,576	62.8%	62.8%	62.8%	62.8%	62.8%	-	-	-	-	
2014	3,886	2,351	-	2,351	1	2,352	60.5%	60.5%	60.6%	61.0%	61.0%	-	-	(0.5%)	(19)	
2015	4,047	2,459	-	2,459	5	2,464	60.9%	60.9%	61.1%	63.4%	63.6%	-	-	(2.7%)	(109)	
2016	4,062	2,396	-	2,396	19	2,415	59.5%	59.4%	59.6%	62.9%	63.1%	0.1%	1	(3.6%)	(146)	
2017	4,885	3,462	38	3,500	25	3,525	72.2%	72.4%	72.5%	76.1%	76.4%	(0.2%)	(13)	(4.2%)	(205)	
2018	7,309	6,010	194	6,204	(71)	6,133	83.9%	76.2%	76.0%	71.8%	69.0%	7.7%	555	-	-	
2019	1,952	1,232	711	1,943	(345)	1,598	81.9%	-	-	-	-	-	-	-	-	
<b>TOTAL</b>	<b>48,244</b>	<b>33,799</b>	<b>943</b>	<b>34,742</b>	<b>(366)</b>	<b>34,376</b>	<b>71.3%</b>	<b>69.6%</b>	<b>69.3%</b>	<b>69.7%</b>	<b>69.6%</b>		<b>543</b>		<b>(479)</b>	
<b>2018 &amp; prior</b>	<b>46,292</b>	<b>32,567</b>	<b>232</b>	<b>32,799</b>	<b>(21)</b>	<b>32,778</b>	<b>70.8%</b>	<b>69.6%</b>	<b>69.3%</b>	<b>69.7%</b>	<b>69.6%</b>		<b>543</b>		<b>(479)</b>	

\* Claims Amt = indemnity & allowed claims expense (where latter is allowed expense over and above the claims expense included in the expense allowance for member companies)

\*\* Accident year loss ratios are as at the valuation date, for the current accident year, these loss ratios are based on partial year exposure, as such, larger variances may be expected

Accident Period	Current Selected	Prior Selected	Change
2007 / 2	60.0%	64.0%	(4.0%)
2008 / 1	55.0%	58.0%	(3.0%)
2008 / 2	62.0%	64.0%	(2.0%)
2009 / 1	57.0%	59.0%	(2.0%)
2009 / 2	61.0%	64.0%	(3.0%)
2010 / 1	53.0%	57.0%	(4.0%)
2010 / 2	56.0%	61.0%	(5.0%)
2011 / 1	52.0%	55.0%	(3.0%)
2011 / 2	55.0%	58.0%	(3.0%)
2012 / 1	51.0%	54.0%	(3.0%)
2012 / 2	55.0%	58.0%	(3.0%)
2013 / 1	51.0%	54.0%	(3.0%)
2013 / 2	57.0%	59.0%	(2.0%)
2014 / 1	54.0%	56.0%	(2.0%)
2014 / 2	61.0%	63.0%	(2.0%)
2015 / 1	58.0%	61.0%	(3.0%)
2015 / 2	66.0%	69.0%	(3.0%)
2016 / 1	64.0%	66.0%	(2.0%)
2016 / 2	72.0%	74.0%	(2.0%)
2017 / 1	67.0%	69.0%	(2.0%)
2017 / 2	74.0%	75.0%	(1.0%)
2018 / 1	69.0%	70.0%	(1.0%)
2018 / 2	75.0%	77.0%	(2.0%)
2019 / 1	71.0%	72.0%	(1.0%)
2019 / 2	77.0%	79.0%	(2.0%)
2020 / 1	73.0%	74.0%	(1.0%)
2020 / 2	79.0%	81.0%	(2.0%)



Current AHY: 2018 / 2

Accident Period	Sep 30, 2018 valuation result				
	Actual Earned Premium	Paid Claims Amount	Case Reserves	Selected Ultimate Claims Amount*	Selected Ultimate Loss Ratio
	[1]	[2]	[3]	[4]	[5]
	val data	val data	val data	val data	=[4]/[1]
2007 / 2	484	457	-	457	94.4%
2008 / 1	1,129	1,089	-	1,089	96.5%
2008 / 2	1,550	1,327	-	1,327	85.6%
2009 / 1	1,707	1,339	-	1,339	78.4%
2009 / 2	1,873	1,559	-	1,559	83.2%
2010 / 1	1,916	1,075	-	1,075	56.1%
2010 / 2	1,852	1,546	-	1,546	83.5%
2011 / 1	1,732	1,198	-	1,198	69.2%
2011 / 2	1,772	1,291	-	1,291	72.8%
2012 / 1	1,842	1,073	-	1,073	58.3%
2012 / 2	2,121	1,347	-	1,347	63.5%
2013 / 1	2,103	1,220	-	1,220	58.0%
2013 / 2	1,998	1,356	0	1,356	67.8%
2014 / 1	1,904	1,096	-	1,097	57.6%
2014 / 2	1,982	1,255	0	1,257	63.4%
2015 / 1	1,993	1,304	-	1,307	65.6%
2015 / 2	2,054	1,154	0	1,164	56.7%
2016 / 1	2,021	1,039	-	1,050	51.9%
2016 / 2	2,041	1,356	0	1,370	67.1%
2017 / 1	2,055	1,341	12	1,365	66.4%
2017 / 2	2,830	2,134	38	2,180	77.0%
2018 / 1	3,500	2,732	100	2,757	78.8%
<b>Total</b>	<b>42,459</b>	<b>29,288</b>	<b>150</b>	<b>29,424</b>	<b>69.3%</b>

\*Indemnity & allowed claims expense from FA Valuation Summary

Adjust EP to 2018 / 2 rate level

Rate Change	Drift (RG, class, etc.)	Other	EP @ 2018 / 2 rate level
[6]	[7]	[8]	[9]
industry avg EP relativity	assumption	assumption	=[1]*[6]*[7]*[8]
1.1012	1.0000	1.0000	534
1.0955	1.0000	1.0000	1,237
1.0966	1.0000	1.0000	1,701
1.0892	1.0000	1.0000	1,859
1.0692	1.0000	1.0000	2,002
1.0331	1.0000	1.0000	1,979
1.0104	1.0000	1.0000	1,871
0.9871	1.0000	1.0000	1,710
0.9606	1.0000	1.0000	1,702
0.9473	1.0000	1.0000	1,745
0.9444	1.0000	1.0000	2,003
0.9426	1.0000	1.0000	1,982
0.9579	1.0000	1.0000	1,913
0.9742	1.0000	1.0000	1,855
1.0010	1.0000	1.0000	1,983
1.0174	1.0000	1.0000	2,028
1.0377	1.0000	1.0000	2,131
1.0535	1.0000	1.0000	2,129
1.0580	1.0000	1.0000	2,159
1.0509	1.0000	1.0000	2,159
1.0364	1.0000	1.0000	2,933
1.0155	1.0000	1.0000	3,554
<b>1.0168</b>	<b>1.0000</b>	<b>1.0000</b>	<b>43,169</b>

2017-2 AIX

Adjust Ultimate Claims Amount to 2018 / 2 cims level

Loss Cost Trend Factor	Reform Adj Factor	Other Factor	Ult. Clms Amt @ 2018 / 2 cims level
[10]	[11]	[12]	[13]
trend analysis	assumption	assumption	=[4]*[10]*[11]*[12]
1.3345	1.0000	1.0000	609
1.4618	1.0000	1.0000	1,593
1.3588	1.0000	1.0000	1,803
1.4410	1.0000	1.0000	1,929
1.3386	1.0000	1.0000	2,086
1.4745	1.0000	1.0000	1,584
1.3526	1.0000	1.0000	2,092
1.4306	1.0000	1.0000	1,714
1.3236	1.0000	1.0000	1,708
1.4197	1.0000	1.0000	1,523
1.3070	1.0000	1.0000	1,761
1.3746	1.0000	1.0000	1,677
1.2882	1.0000	1.0000	1,746
1.3776	1.0000	1.0000	1,511
1.2612	1.0000	1.0000	1,585
1.3416	1.0000	1.0000	1,754
1.1999	1.0000	1.0000	1,396
1.2714	1.0000	1.0000	1,335
1.1283	1.0000	1.0000	1,546
1.1770	1.0000	1.0000	1,607
1.0626	1.0000	1.0000	2,317
1.1019	1.0000	1.0000	3,038
<b>1.2886</b>	<b>1.0000</b>	<b>1.0000</b>	<b>37,914</b>

on industry 2018-1 AIX data derived from 2018 / 2 on-levels

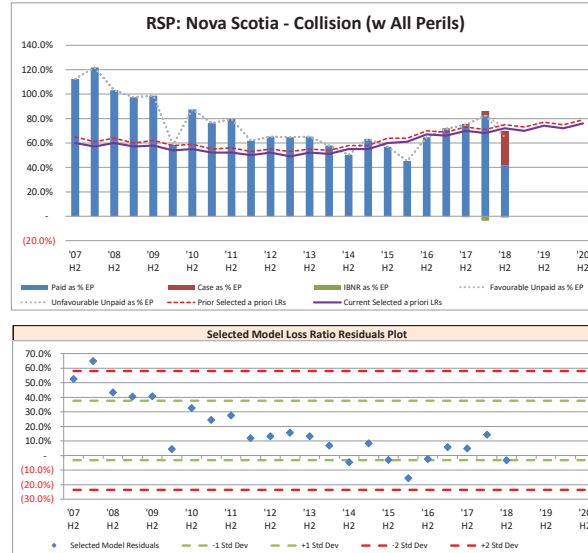
On-Level to 2018 / 2 Loss Ratios	Weights
[14]	[15]
selected	selected
114.0%	-
128.8%	-
106.0%	-
103.8%	-
104.2%	-
80.0%	-
111.8%	-
100.2%	-
100.4%	-
87.3%	-
87.9%	-
84.6%	-
91.3%	2.9%
81.5%	2.9%
79.9%	3.0%
86.5%	3.0%
65.5%	14.6%
62.7%	14.6%
71.6%	14.5%
74.4%	14.6%
79.0%	14.8%
85.5%	15.0%
<b>87.8%</b>	<b>99.9%</b>

weighted average: 74.5%  
selected: 75.0%  
current: 77.0%  
prior

Premium adjustment factors [6]-[8], Claims adjustment factors [10]-[12], and selected experience period weights [15] are selected at the coverage level, implied aggregate factors are presented above



Accident Period	Current Selected	Prior Selected	Change
2007 / 2	60.0%	65.0%	(5.0%)
2008 / 1	57.0%	61.0%	(4.0%)
2008 / 2	60.0%	64.0%	(4.0%)
2009 / 1	57.0%	60.0%	(3.0%)
2009 / 2	58.0%	62.0%	(4.0%)
2010 / 1	54.0%	58.0%	(4.0%)
2010 / 2	55.0%	59.0%	(4.0%)
2011 / 1	52.0%	55.0%	(3.0%)
2011 / 2	52.0%	56.0%	(4.0%)
2012 / 1	50.0%	53.0%	(3.0%)
2012 / 2	52.0%	55.0%	(3.0%)
2013 / 1	49.0%	53.0%	(4.0%)
2013 / 2	52.0%	55.0%	(3.0%)
2014 / 1	51.0%	54.0%	(3.0%)
2014 / 2	55.0%	58.0%	(3.0%)
2015 / 1	55.0%	58.0%	(3.0%)
2015 / 2	60.0%	64.0%	(4.0%)
2016 / 1	61.0%	64.0%	(3.0%)
2016 / 2	67.0%	70.0%	(3.0%)
2017 / 1	66.0%	69.0%	(3.0%)
2017 / 2	70.0%	73.0%	(3.0%)
2018 / 1	68.0%	71.0%	(3.0%)
2018 / 2	72.0%	75.0%	(3.0%)
2019 / 1	70.0%	73.0%	(3.0%)
2019 / 2	74.0%	77.0%	(3.0%)
2020 / 1	72.0%	75.0%	(3.0%)
2020 / 2	76.0%	79.0%	(3.0%)



Current AHY: 2018 / 2

Accident Period	Sep 30, 2018 valuation result					Adjust EP to 2018 / 2 rate level				Adjust Ultimate Claims Amount to 2018 / 2 clms level				On-Level to 2018 / 2 Loss Ratios		Weights
	Actual Earned Premium	Paid Claims	Case Reserves	Selected Ultimate Claims Amount*	Selected Ultimate Loss Ratio	Rate Change	Drift (RG, class, etc.)	Other	EP @ 2018 / 2 rate level	Loss Cost Trend Factor	Reform Adj Factor	Other Factor	Ult. Clms Amt @ 2018 / 2 clms level	[14]	[15]	
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	
2007 / 2	300	338	-	338	112.5%	1.0725	1.0000	1.0000	322	1.2802	1.0000	1.0000	432	134.2%	-	
2008 / 1	703	856	-	856	121.8%	1.0608	1.0000	1.0000	746	1.3285	1.0000	1.0000	1,138	152.5%	-	
2008 / 2	971	1,003	-	1,003	103.3%	1.0573	1.0000	1.0000	1,027	1.2788	1.0000	1.0000	1,282	124.8%	-	
2009 / 1	1,074	1,047	-	1,047	97.5%	1.0445	1.0000	1.0000	1,122	1.3265	1.0000	1.0000	1,389	123.8%	-	
2009 / 2	1,185	1,170	-	1,170	98.7%	1.0214	1.0000	1.0000	1,210	1.2765	1.0000	1.0000	1,493	123.4%	-	
2010 / 1	1,379	805	-	805	58.3%	0.9960	1.0000	1.0000	1,373	1.3242	1.0000	1.0000	1,065	77.6%	-	
2010 / 2	1,309	1,147	-	1,147	87.6%	0.9722	1.0000	1.0000	1,273	1.2741	1.0000	1.0000	1,462	114.8%	-	
2011 / 1	1,213	925	-	925	76.3%	0.9491	1.0000	1.0000	1,151	1.3207	1.0000	1.0000	1,222	106.2%	-	
2011 / 2	1,240	985	-	985	79.5%	0.9236	1.0000	1.0000	1,145	1.2718	1.0000	1.0000	1,253	109.4%	-	
2012 / 1	1,296	801	-	801	61.8%	0.9111	1.0000	1.0000	1,181	1.3197	1.0000	1.0000	1,057	89.5%	-	
2012 / 2	1,499	978	-	978	65.3%	0.9100	1.0000	1.0000	1,364	1.2706	1.0000	1.0000	1,243	91.1%	-	
2013 / 1	1,490	964	-	964	64.7%	0.9062	1.0000	1.0000	1,350	1.3184	1.0000	1.0000	1,271	94.1%	-	
2013 / 2	1,415	925	0	925	65.3%	0.9176	1.0000	1.0000	1,298	1.2690	1.0000	1.0000	1,173	90.4%	-	
2014 / 1	1,348	779	-	779	57.8%	0.9323	1.0000	1.0000	1,257	1.3160	1.0000	1.0000	1,025	81.5%	-	
2014 / 2	1,391	700	-	700	50.3%	0.9615	1.0000	1.0000	1,337	1.2663	1.0000	1.0000	887	66.3%	-	
2015 / 1	1,394	884	-	884	63.4%	0.9816	1.0000	1.0000	1,368	1.2935	1.0000	1.0000	1,143	83.6%	-	
2015 / 2	1,423	809	0	810	56.9%	1.0101	1.0000	1.0000	1,437	1.2081	1.0000	1.0000	978	68.1%	16.7%	
2016 / 1	1,386	629	-	628	45.3%	1.0335	1.0000	1.0000	1,432	1.2159	1.0000	1.0000	764	53.4%	16.7%	
2016 / 2	1,383	897	0	895	64.7%	1.0489	1.0000	1.0000	1,451	1.1347	1.0000	1.0000	1,015	70.0%	16.7%	
2017 / 1	1,402	998	11	1,005	71.7%	1.0481	1.0000	1.0000	1,469	1.1420	1.0000	1.0000	1,148	78.1%	16.7%	
2017 / 2	2,042	1,513	30	1,529	74.9%	1.0391	1.0000	1.0000	2,122	1.0657	1.0000	1.0000	1,630	76.8%	16.7%	
2018 / 1	2,606	2,158	89	2,148	82.4%	1.0169	1.0000	1.0000	2,650	1.0726	1.0000	1.0000	2,304	86.9%	16.7%	
<b>Total</b>	<b>29,449</b>	<b>21,309</b>	<b>130</b>	<b>21,321</b>	<b>72.4%</b>	<b>0.9877</b>	<b>1.0000</b>	<b>1.0000</b>	<b>29,085</b>	<b>1.2370</b>	<b>1.0000</b>	<b>1.0000</b>	<b>26,374</b>	<b>90.7%</b>	<b>100.0%</b>	

\*Indemnity & allowed claims expense from FA Valuation Summary

2017-2 AIX

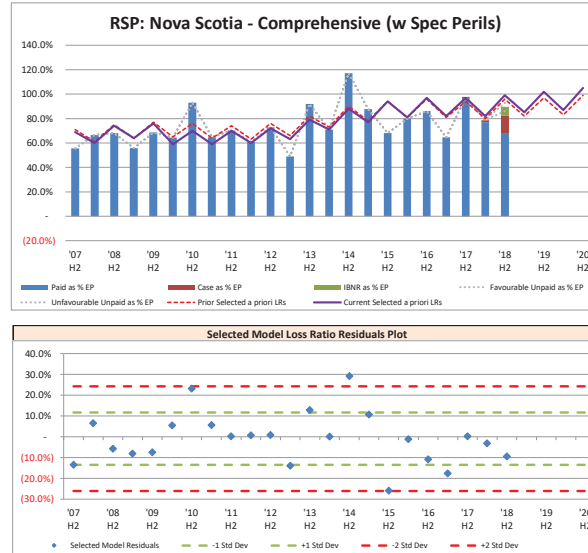
on industry 2018-1 AIX data derived from 2018 / 2 on-levels

weighted average: 72.2%  
selected: 72.0%  
current: 75.0%

selected: 72.0%  
prior: 75.0%

[6] Rate Change factors are current AHY on-level factors estimated using industry projected earned premium data, details are presented in the a priori LR model Rate Change Factors exhibit  
[7],[8] Additional premium adjustment factors not included in Rate Change Factors [6], as necessary. If applicable, details are presented in the a priori LR model additional Premium Adjustment Factors exhibit  
[10] Loss Cost Trend factors are current AHY on-level modeled loss cost adjustment factors selected as part of the associated FA industry trend analysis using industry indemnity only claims data. These loss cost adjustment factors are not confined to claims trend and include any applicable adjustments for product reform, details are presented in the a priori LR model Claims Trend Factors exhibit  
[11] Reform Adj factors are additional explicit product reform adjustment factors not included in Loss Cost Trend factors [10], as necessary. If applicable, details are presented in the a priori LR model additional Claims Adjustment Factors exhibit  
[12] Additional claims adjustment factors not included in Loss Cost Trend factors [10], as necessary. If applicable, details are presented in the a priori LR model additional Claims Adjustment Factors exhibit

Accident Period	Current Selected	Prior Selected	Change
2007 / 2	69.0%	71.0%	(2.0%)
2008 / 1	60.0%	61.0%	(1.0%)
2008 / 2	74.0%	75.0%	(1.0%)
2009 / 1	64.0%	64.0%	-
2009 / 2	76.0%	77.0%	(1.0%)
2010 / 1	59.0%	65.0%	(6.0%)
2010 / 2	70.0%	76.0%	(6.0%)
2011 / 1	59.0%	64.0%	(5.0%)
2011 / 2	70.0%	74.0%	(4.0%)
2012 / 1	60.0%	63.0%	(3.0%)
2012 / 2	72.0%	76.0%	(4.0%)
2013 / 1	63.0%	66.0%	(3.0%)
2013 / 2	79.0%	82.0%	(3.0%)
2014 / 1	71.0%	73.0%	(2.0%)
2014 / 2	88.0%	90.0%	(2.0%)
2015 / 1	77.0%	78.0%	(1.0%)
2015 / 2	94.0%	94.0%	-
2016 / 1	81.0%	81.0%	-
2016 / 2	97.0%	96.0%	1.0%
2017 / 1	82.0%	81.0%	1.0%
2017 / 2	97.0%	94.0%	3.0%
2018 / 1	82.0%	80.0%	2.0%
2018 / 2	99.0%	96.0%	3.0%
2019 / 1	85.0%	82.0%	3.0%
2019 / 2	102.0%	97.0%	5.0%
2020 / 1	87.0%	83.0%	4.0%
2020 / 2	105.0%	99.0%	6.0%



Current AHY: 2018 / 2

Accident Period	Sep 30, 2018 valuation result					Adjust EP to 2018 / 2 rate level				Adjust Ultimate Claims Amount to 2018 / 2 clms level				On-Level to 2018 / 2 Loss Ratios		Weights
	Actual Earned Premium	Paid Claims Amount	Case Reserves	Selected Ultimate Claims Amount*	Selected Ultimate Loss Ratio	Rate Change	Drift (RG, class, etc.)	Other	EP @ 2018 / 2 rate level	Loss Cost Trend Factor	Reform Adj Factor	Other Factor	Ult. Clms Amt @ 2018 / 2 clms level	[14]	[15]	
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	
2007 / 2	151	84	-	84	55.5%	1.1758	1.0000	1.0000	178	1.6939	1.0000	1.0000	142	79.8%	-	
2008 / 1	350	233	-	233	66.6%	1.1807	1.0000	1.0000	413	1.9517	1.0000	1.0000	455	110.2%	-	
2008 / 2	475	324	-	324	68.2%	1.1927	1.0000	1.0000	567	1.6065	1.0000	1.0000	521	91.9%	-	
2009 / 1	521	291	-	291	55.9%	1.1939	1.0000	1.0000	622	1.8524	1.0000	1.0000	540	86.8%	-	
2009 / 2	567	389	-	389	68.6%	1.1770	1.0000	1.0000	667	1.5253	1.0000	1.0000	593	88.9%	-	
2010 / 1	419	270	-	270	64.5%	1.1548	1.0000	1.0000	484	1.9224	1.0000	1.0000	519	107.2%	-	
2010 / 2	429	399	-	399	93.1%	1.1197	1.0000	1.0000	480	1.5781	1.0000	1.0000	630	131.3%	-	
2011 / 1	416	269	-	269	64.6%	1.0856	1.0000	1.0000	452	1.8154	1.0000	1.0000	488	108.0%	-	
2011 / 2	435	306	-	306	70.2%	1.0490	1.0000	1.0000	456	1.4908	1.0000	1.0000	455	99.8%	-	
2012 / 1	448	272	-	272	60.7%	1.0320	1.0000	1.0000	462	1.7146	1.0000	1.0000	466	100.9%	-	
2012 / 2	501	365	-	365	72.9%	1.0273	1.0000	1.0000	515	1.4079	1.0000	1.0000	514	99.8%	-	
2013 / 1	493	242	-	242	49.1%	1.0346	1.0000	1.0000	510	1.6204	1.0000	1.0000	392	76.9%	-	
2013 / 2	469	431	-	431	91.9%	1.0671	1.0000	1.0000	500	1.3294	1.0000	1.0000	573	114.6%	10.0%	
2014 / 1	446	317	-	317	71.1%	1.0919	1.0000	1.0000	487	1.5302	1.0000	1.0000	485	99.6%	10.0%	
2014 / 2	473	554	0	554	117.2%	1.1130	1.0000	1.0000	526	1.2556	1.0000	1.0000	696	132.3%	10.0%	
2015 / 1	480	421	-	421	87.7%	1.1223	1.0000	1.0000	539	1.4451	1.0000	1.0000	608	112.8%	10.0%	
2015 / 2	507	345	-	345	68.1%	1.1213	1.0000	1.0000	568	1.1860	1.0000	1.0000	409	72.0%	10.0%	
2016 / 1	513	410	-	410	79.9%	1.1169	1.0000	1.0000	573	1.3644	1.0000	1.0000	559	97.6%	10.0%	
2016 / 2	533	460	-	460	86.2%	1.0926	1.0000	1.0000	582	1.1203	1.0000	1.0000	515	88.5%	10.0%	
2017 / 1	532	342	1	342	64.3%	1.0678	1.0000	1.0000	568	1.2890	1.0000	1.0000	441	77.6%	10.0%	
2017 / 2	643	622	7	626	97.3%	1.0347	1.0000	1.0000	665	1.0577	1.0000	1.0000	662	99.5%	10.0%	
2018 / 1	732	563	12	576	78.7%	1.0141	1.0000	1.0000	742	1.2170	1.0000	1.0000	701	94.5%	10.0%	
<b>Total</b>	<b>10,533</b>	<b>7,909</b>	<b>20</b>	<b>7,927</b>	<b>75.3%</b>	<b>1.0973</b>	<b>1.0000</b>	<b>1.0000</b>	<b>11,556</b>	<b>1.4340</b>	<b>1.0000</b>	<b>1.0000</b>	<b>11,364</b>	<b>98.3%</b>	<b>100.0%</b>	

\*Indemnity & allowed claims expense from FA Valuation Summary

2017-2 AIX

on industry 2018-1 AIX data derived from 2018 / 2 on-levels

weighted average: 98.9%  
selected: 99.0%  
current: 96.0%  
prior

[6] Rate Change factors are current AHY on-level factors estimated using industry projected earned premium data, details are presented in the a priori LR model Rate Change Factors exhibit  
[7],[8] Additional premium adjustment factors not included in Rate Change factors [6], as necessary. If applicable, details are presented in the a priori LR model additional Premium Adjustment Factors exhibit  
[10] Loss Cost Trend factors are current AHY on-level modeled loss cost adjustment factors selected as part of the associated FA industry trend analysis using industry indemnity only claims data. These loss cost adjustment factors are not confined to claims trend and include any applicable adjustments for product reform, details are presented in the a priori LR model Claims Trend Factors exhibit  
[11] Reform Adj factors are additional explicit product reform adjustment factors not included in Loss Cost Trend factors [10], as necessary. If applicable, details are presented in the a priori LR model additional Claims Adjustment Factors exhibit  
[12] Additional claims adjustment factors not included in Loss Cost Trend factors [10], as necessary. If applicable, details are presented in the a priori LR model additional Claims Adjustment Factors exhibit

Facility Association  
**Estimated and Selected Ultimate Losses by Method**  
 as at March 31, 2019  
 Coverage: **Other Coverages**  
 RSP: Nova Scotia  
 Amounts in: \$1,000s

Accident Year	Actual Experience				Ultimate Loss Estimates																				
	Earned Premium	Paid Claims to Date	Case Reserves	Reported to Date	ELR Method*	Link Ratio Method	Implied BF ELR Method weight*	Implied BF Link Ratio Method weight*	BF Method*	ELR Method weight	Link Ratio Method weight	ELR & LR Wtd Method	Incurred (Zero IBNR)	User Defined 1	User Defined 2	ELR Method Ult LR*	Link Ratio Method Ult LR	BF Method Ult LR*	ELR & LR Wtd Method Ult LR	Incurred (Zero IBNR) Ult LR	User Defined 1 Ult LR	User Defined 2 Ult LR	Selected Ultimate Claims Amount	Selected Ultimate Loss Ratio	
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	
2007	506	469	-	469		469						469	469				92.7%		92.7%	92.7%				469	92.7%
2008	2,679	2,416	-	2,416		2,416						2,416	2,416				90.2%		90.2%	90.2%				2,416	90.2%
2009	3,581	2,897	-	2,897		2,897						2,897	2,897				80.9%		80.9%	80.9%				2,897	80.9%
2010	3,768	2,621	-	2,621	2,059	2,621	-	100.0%	2,621			2,621	2,621				54.6%	69.6%	69.6%	69.6%	69.6%			2,621	69.6%
2011	3,505	2,489	-	2,489	1,866	2,489	-	100.0%	2,489			2,489	2,489				53.2%	71.0%	71.0%	71.0%	71.0%			2,489	71.0%
2012	3,963	2,421	-	2,421	2,101	2,421	-	100.0%	2,421			2,421	2,421				53.0%	61.1%	61.1%	61.1%	61.1%			2,421	61.1%
2013	4,101	2,576	0	2,576	2,193	2,576	-	100.0%	2,576			2,576	2,576				53.5%	62.8%	62.8%	62.8%	62.8%			2,576	62.8%
2014	3,886	2,351	0	2,351	2,231	2,351	(1.7%)	101.7%	2,353			2,351	2,351				57.4%	60.5%	60.6%	60.5%	60.5%			2,352	60.5%
2015	4,047	2,459	0	2,459	2,515	2,459	8.3%	91.7%	2,464			2,491	2,459				62.2%	60.8%	60.9%	61.6%	60.8%			2,464	60.9%
2016	4,062	2,396	0	2,396	2,754	2,393	2.3%	97.7%	2,401			2,543	2,396				67.8%	58.9%	59.1%	62.6%	59.0%			2,415	59.4%
2017	4,885	3,462	37	3,500	3,468	3,488	(98.6%)	198.6%	3,507			3,467	3,500				71.0%	71.4%	71.8%	71.0%	71.6%			3,525	72.2%
2018	7,309	6,010	193	6,204	5,272	6,072	(6.1%)	106.1%	6,121			5,318	6,204				72.1%	83.1%	83.7%	72.8%	84.9%			6,133	83.9%
2019	1,952	1,232	711	1,943	2,869	3,652	47.8%	52.2%	3,278			-	1,943				147.0%	187.1%	167.9%		99.5%			1,598	81.9%
<b>Total</b>	<b>48,244</b>	<b>33,799</b>	<b>942</b>	<b>34,741</b>	<b>27,328</b>	<b>36,305</b>			<b>30,231</b>			<b>32,059</b>	<b>34,741</b>											<b>34,375</b>	

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level  
 \*\*For 'off-half' valuation quarters (Mar and Sep), the current accident year (CAY) by method Ultimate Loss estimates ([5] to [22]) are aggregated from a coverage level



Facility Association

Comparison of Estimated Ultimate Losses by Method  
as at March 31, 2019

Coverage: Other Coverages

RSP: Nova Scotia

Amounts in: \$1,000s

Accident Year	Current Valuation Results (as at Mar 2019)											Prior Valuation Results (as at Dec 2018)							Change from Prior Valuation			
	ELR Method*	Link Ratio Method	BF Method*	ELR & LR Wtd Method	Incurred (Zero IBNR)	User Defined 1	User Defined 2	Selected IBNR Method**	Selected IBNR	Selected Ultimate	Selected Ultimate LR	ELR Method*	LR Ratio Method	BF Method*	Selected IBNR Method**	Selected IBNR	Selected Ultimate	Selected Ultimate LR	Incurred to Date	Selected IBNR	Selected Ultimate	Selected Ultimate LR
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
																			=([9]-[16])	=([10]-[17])	=([11]-[18])	
2007			469		469			N/A	-	469	92.7%			469	N/A	-	469	92.7%	-	-	-	-
2008			2,416		2,416			N/A	-	2,416	90.2%			2,416	N/A	-	2,416	90.2%	-	-	-	-
2009			2,897		2,897			N/A	-	2,897	80.9%			2,897	N/A	-	2,897	80.9%	-	-	-	-
2010		2,059	2,621	2,621	2,621			N/A	-	2,621	69.6%	2,059	2,621	2,621	N/A	-	2,621	69.6%	-	-	-	-
2011		1,866	2,489	2,489	2,489			N/A	-	2,489	71.0%	1,866	2,489	2,489	N/A	-	2,489	71.0%	-	-	-	-
2012		2,101	2,421	2,421	2,421			N/A	-	2,421	61.1%	2,101	2,421	2,421	N/A	-	2,421	61.1%	-	-	-	-
2013		2,193	2,576	2,576	2,576			N/A	-	2,576	62.8%	2,193	2,576	2,576	N/A	-	2,576	62.8%	-	-	-	-
2014		2,231	2,351	2,353	2,351	2,351		N/A	1	2,352	60.5%	2,231	2,351	2,354	N/A	1	2,352	60.5%	-	-	-	-
2015		2,515	2,459	2,464	2,491	2,459		N/A	5	2,464	60.9%	2,515	2,459	2,465	N/A	5	2,464	60.9%	-	-	-	-
2016		2,754	2,393	2,401	2,543	2,396		N/A	19	2,415	59.4%	2,754	2,392	2,401	N/A	18	2,414	59.4%	-	1	1	-
2017		3,468	3,488	3,507	3,467	3,500		N/A	25	3,525	72.2%	3,469	3,500	3,523	N/A	22	3,538	72.4%	(16)	3	(13)	(0.2%)
2018		5,272	6,072	6,121	5,318	6,204		N/A	(71)	6,133	83.9%	5,281	5,552	5,574	N/A	(145)	5,578	76.2%	481	74	555	7.7%
2019		2,869	3,652	3,278	-	1,943		N/A	(345)	1,598	81.9%	-	-	-	N/A	-	-	-	1,943	(345)	1,598	81.9%
<b>Total</b>	<b>27,328</b>	<b>36,305</b>	<b>30,231</b>	<b>32,059</b>	<b>34,741</b>				<b>(366)</b>	<b>34,375</b>		<b>24,468</b>	<b>32,143</b>	<b>26,422</b>		<b>(99)</b>	<b>32,234</b>		<b>2,408</b>	<b>(267)</b>	<b>2,141</b>	
<b>2018 &amp; Prior</b>	<b>24,459</b>	<b>32,652</b>	<b>26,953</b>	<b>32,059</b>	<b>32,798</b>				<b>(21)</b>	<b>32,777</b>		<b>24,468</b>	<b>32,143</b>	<b>26,422</b>		<b>(99)</b>	<b>32,234</b>		<b>465</b>	<b>78</b>	<b>543</b>	

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*IBNR selected on a coverage level and aggregated to a Government Line (or Total) level

Facility Association

**Estimated and Selected Ultimate Losses by Method**  
 as at March 31, 2019

Coverage: Underinsured Motorist

RSP: Nova Scotia

Amounts in: \$1,000s

Accident Year	Actual Experience				Ultimate Loss Estimates																			
	Earned Premium	Paid Claims to Date	Case Reserves	Reported to Date	ELR Method*	Link Ratio Method	Implied BF ELR Method weight*	Implied BF Link Ratio Method weight*	BF Method*	ELR Method weight	Link Ratio Method weight	ELR & LR Wtd Method	Incurred (Zero IBNR)	User Defined 1	User Defined 2	ELR Method Ult LR*	Link Ratio Method Ult LR*	BF Method Ult LR*	ELR & LR Wtd Method Ult LR*	Incurred (Zero IBNR) Ult LR*	ELR Method (no trend change) Ult LR*	User Defined 2 Ult LR*	Selected Ultimate Claims Amount	Selected Ultimate Loss Ratio*
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]
2007 / 1	-	-	-	-	-	-	-	-	-	-	100.0%	-	-	-	-	-	-	-	-	-	-	-	-	-
2007 / 2	(0)	35	-	35	-	35	-	-	-	-	100.0%	-	35	-	-	-	-	-	-	-	-	-	35	-
2008 / 1	(1)	-	-	-	-	-	-	-	-	-	100.0%	-	-	-	-	-	-	-	-	-	-	-	-	-
2008 / 2	(1)	-	-	-	-	-	-	-	-	-	100.0%	-	-	-	-	-	-	-	-	-	-	-	-	-
2009 / 1	30	-	-	-	-	-	-	-	-	-	100.0%	-	-	-	-	-	-	-	-	-	-	-	-	-
2009 / 2	102	-	-	-	20	-	-	100.0%	-	-	100.0%	-	-	-	-	20.0%	-	-	-	-	-	-	-	-
2010 / 1	118	-	-	-	24	-	-	100.0%	-	-	100.0%	-	-	-	-	20.0%	-	-	-	-	-	-	-	-
2010 / 2	114	-	-	-	23	-	-	100.0%	-	-	100.0%	-	-	-	-	20.0%	-	-	-	-	-	-	-	-
2011 / 1	103	4	-	4	21	4	-	100.0%	4	-	100.0%	4	4	-	-	20.0%	3.9%	3.9%	3.9%	3.9%	-	-	4	3.9%
2011 / 2	97	-	-	-	19	-	-	100.0%	-	-	100.0%	-	-	-	-	20.0%	-	-	-	-	-	-	-	-
2012 / 1	98	0	-	0	20	0	-	100.0%	0	-	100.0%	0	0	-	-	20.0%	0.3%	0.3%	0.3%	0.3%	-	-	0	0.3%
2012 / 2	121	4	-	4	24	4	-	100.0%	4	-	100.0%	4	4	-	-	20.0%	3.3%	3.3%	3.3%	3.3%	-	-	4	3.3%
2013 / 1	120	14	-	14	24	14	-	100.0%	14	-	100.0%	14	14	-	-	20.0%	12.0%	12.0%	12.0%	12.0%	-	-	14	12.0%
2013 / 2	114	-	-	-	23	-	-	100.0%	-	-	100.0%	-	-	-	-	20.0%	-	-	-	-	-	-	-	-
2014 / 1	110	-	-	-	22	-	3.0%	97.0%	1	-	100.0%	-	-	-	-	20.0%	-	0.6%	-	-	-	-	-	-
2014 / 2	118	-	-	-	24	-	5.6%	94.4%	1	-	100.0%	-	-	-	-	20.0%	-	1.1%	-	-	-	-	1	0.8%
2015 / 1	119	-	-	-	24	-	7.7%	92.3%	2	12.5%	87.5%	3	-	-	-	20.0%	-	1.5%	2.5%	-	-	-	2	1.7%
2015 / 2	124	-	-	-	25	-	11.2%	88.8%	3	25.0%	75.0%	6	-	-	-	20.0%	-	2.2%	5.0%	-	-	-	3	2.4%
2016 / 1	122	-	-	-	24	-	13.7%	86.3%	3	37.5%	62.5%	9	-	-	-	20.0%	-	2.7%	7.5%	-	-	-	9	7.4%
2016 / 2	125	-	-	-	25	-	20.3%	79.7%	5	50.0%	50.0%	13	-	-	-	20.0%	-	4.1%	10.0%	-	-	-	13	10.4%
2017 / 1	121	-	-	-	24	-	30.9%	69.1%	7	62.5%	37.5%	15	-	-	-	20.0%	-	6.2%	12.5%	-	-	-	15	12.4%
2017 / 2	145	-	-	-	29	-	40.8%	59.2%	12	75.0%	25.0%	22	-	-	-	20.0%	-	8.2%	15.0%	-	-	-	22	15.1%
2018 / 1	162	12	-	12	32	24	51.7%	48.3%	28	87.5%	12.5%	31	12	-	-	20.0%	14.8%	17.5%	19.3%	7.1%	-	-	32	19.5%
2018 / 2	170	3	-	3	34	8	67.1%	32.9%	25	100.0%	-	34	3	-	-	20.0%	4.7%	15.0%	20.0%	1.6%	-	-	34	19.8%
2019 / 1	84	-	-	-	35	-	-	100.0%	-	100.0%	-	-	-	-	-	20.0%	-	-	-	-	-	-	17	20.2%
<b>Total</b>	<b>2,415</b>	<b>72</b>	<b>-</b>	<b>72</b>	<b>496</b>	<b>90</b>	<b>-</b>	<b>-</b>	<b>111</b>	<b>-</b>	<b>-</b>	<b>191</b>	<b>72</b>	<b>-</b>	<b>-</b>	<b>20.0%</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>205</b>	<b>-</b>

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*For 'off-half' valuation quarters (Mar and Sep), the current accident half-year (CAHY) by method Ultimate Loss estimates ([5] to [22]) are based on projected full AHY Earned Premium estimates

Facility Association

Comparison of Estimated IBNR by Method  
 as at March 31, 2019  
 Coverage: Underinsured Motorist  
 RSP: Nova Scotia  
 Amounts in: \$1,000s

Accident Year	Current Valuation Results (as at Mar 2019)											Prior Valuation Results (as at Dec 2018)				Change from Prior Valuation						
	ELR Method IBNR*	Link Ratio Method IBNR	BF Method IBNR*	ELR & LR Wtd Method IBNR	Incurred (Zero IBNR) IBNR	User Defined 1 IBNR	User Defined 2 IBNR	Selected IBNR Method	Selected IBNR	Selected Ultimate	Selected Ultimate LR*	ELR Method IBNR*	Link Ratio Method IBNR	BF Method IBNR*	Selected IBNR Method	Selected IBNR	Selected Ultimate	Selected Ultimate LR*	Incurred to Date	Selected IBNR	Selected Ultimate	Selected Ultimate LR*
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
2007 / 1		-	-	-	-		Link Ratio Method	-	-			-	-	Link Ratio Method	-	-	-	-	-	-	-	-
2007 / 2		-	-	-	-		Link Ratio Method	-	35			-	-	Link Ratio Method	-	-	35	-	-	-	-	-
2008 / 1		-	-	-	-		Link Ratio Method	-	-			-	-	Link Ratio Method	-	-	-	-	-	-	-	-
2008 / 2		-	-	-	-		Link Ratio Method	-	-			-	-	Link Ratio Method	-	-	-	-	-	-	-	-
2009 / 1		-	-	-	-		Link Ratio Method	-	-			-	-	Link Ratio Method	-	-	-	-	-	-	-	-
2009 / 2	20	-	-	-	-		Link Ratio Method	-	-		20	-	-	Link Ratio Method	-	-	-	-	-	-	-	-
2010 / 1	24	-	-	-	-		Link Ratio Method	-	-		24	-	-	Link Ratio Method	-	-	-	-	-	-	-	-
2010 / 2	23	-	-	-	-		Link Ratio Method	-	-		23	-	-	Link Ratio Method	-	-	-	-	-	-	-	-
2011 / 1	17	-	-	-	-		Link Ratio Method	-	4	3.9%	17	-	-	Link Ratio Method	-	-	4	3.9%	-	-	-	-
2011 / 2	19	-	-	-	-		Link Ratio Method	-	-		19	-	-	Link Ratio Method	-	-	-	-	-	-	-	-
2012 / 1	19	-	-	-	-		Link Ratio Method	-	0	0.3%	19	-	-	Link Ratio Method	-	-	0	0.3%	-	-	-	-
2012 / 2	20	-	-	-	-		Link Ratio Method	-	4	3.3%	20	-	-	Link Ratio Method	-	-	4	3.3%	-	-	-	-
2013 / 1	10	-	-	-	-		Link Ratio Method	-	14	12.0%	10	-	-	Link Ratio Method	-	-	14	12.0%	-	-	-	-
2013 / 2	23	-	-	-	-		Link Ratio Method	-	-		23	-	-	Link Ratio Method	-	-	-	-	-	-	-	-
2014 / 1	22	-	1	-	-		Link Ratio Method	-	-		22	-	1	Link Ratio Method	-	-	-	-	-	-	-	-
2014 / 2	24	-	1	-	-		BF Method	1	1	0.8%	24	-	1	BF Method	1	1	0.8%	-	-	-	-	-
2015 / 1	24	-	2	3	-		BF Method	2	2	1.7%	24	-	2	BF Method	2	2	1.7%	-	-	-	-	-
2015 / 2	25	-	3	6	-		BF Method	3	3	2.4%	25	-	3	BF Method	3	3	2.4%	-	-	-	-	-
2016 / 1	24	-	3	9	-		ELR & LR Wtd Method	9	9	7.4%	24	-	4	ELR & LR Wtd Method	9	9	7.4%	-	-	-	-	-
2016 / 2	25	-	5	13	-		ELR & LR Wtd Method	13	13	10.4%	25	-	6	ELR & LR Wtd Method	13	13	10.4%	-	-	-	-	-
2017 / 1	24	-	7	15	-		ELR & LR Wtd Method	15	15	12.4%	24	-	9	ELR & LR Wtd Method	15	15	12.4%	-	-	-	-	-
2017 / 2	29	-	12	22	-		ELR & LR Wtd Method	22	22	15.1%	29	-	13	ELR & LR Wtd Method	22	22	15.1%	-	-	-	-	-
2018 / 1	21	12	17	20	-		ELR & LR Wtd Method	20	32	19.5%	17	21	19	ELR & LR Wtd Method	17	33	20.1%	(4)	3	(1)	(0.6%)	
2018 / 2	31	5	23	31	-		ELR & LR Wtd Method	31	34	19.8%	32	8	26	ELR & LR Wtd Method	32	35	20.3%	-	(1)	(1)	(0.5%)	
2019 / 1	-	-	-	-	-		ELR & LR Wtd Method	17	17	20.2%	-	-	-	ELR & LR Wtd Method	-	-	-	-	-	17	17	20.2%
Total	424	18	74	119	-			133	205		420	30	85		114	190		(4)	2	(2)		
2018 / 2 & Prior	424	18	74	119	-			116	188		420	30	85		114	190		(4)	2	(2)		

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*Current accident half-year IBNR and Ultimate Loss estimates derived from the CAHY Selections exhibit

Facility Association

**Estimated and Selected Ultimate Losses by Method**

as at March 31, 2019

Coverage: Collision (w All Perils)

RSP: Nova Scotia

Amounts in: \$1,000s

Accident Year	Actual Experience				Ultimate Loss Estimates																			
	Earned Premium	Paid Claims to Date	Case Reserves	Reported to Date	ELR Method*	Link Ratio Method	Implied BF ELR Method weight*	Implied BF Link Ratio Method weight*	BF Method*	ELR Method weight	Link Ratio Method weight	ELR & LR Wtd Method	Incurred (Zero IBNR)	User Defined 1	Data Correction	ELR Method Ult LR*	Link Ratio Method Ult LR	BF Method Ult LR*	ELR & LR Wtd Method Ult LR*	Incurred (Zero IBNR) Ult LR	User Defined 1 Ult LR	Data Correction Ult LR	Selected Ultimate Claims Amount	Selected Ultimate Loss Ratio*
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]
2007 / 1	22	8	-	8		8				-	100.0%	8	8										8	
2007 / 2	485	338	-	338		338				-	100.0%	338	338										338	
2008 / 1	1,134	856	-	856		856				-	100.0%	856	856										856	
2008 / 2	1,554	1,003	-	1,003		1,003				-	100.0%	1,003	1,003										1,003	
2009 / 1	1,569	1,047	-	1,047		1,047				-	100.0%	1,047	1,047										1,047	
2009 / 2	1,425	1,170	-	1,170	826	1,170	-	100.0%	1,170	-	100.0%	1,170	1,170			58.0%	82.1%	82.1%	82.1%	82.1%			1,170	82.1%
2010 / 1	1,379	805	-	805	745	805	-	100.0%	805	-	100.0%	805	805			54.0%	58.3%	58.3%	58.3%	58.3%			805	58.3%
2010 / 2	1,309	1,147	-	1,147	720	1,147	-	100.0%	1,147	-	100.0%	1,147	1,147			55.0%	87.6%	87.6%	87.6%	87.6%			1,147	87.6%
2011 / 1	1,213	925	-	925	631	925	-	100.0%	925	-	100.0%	925	925			52.0%	76.3%	76.3%	76.3%	76.3%			925	76.3%
2011 / 2	1,240	985	-	985	645	985	-	100.0%	985	-	100.0%	985	985			52.0%	79.5%	79.5%	79.5%	79.5%			985	79.5%
2012 / 1	1,296	801	-	801	648	801	-	100.0%	801	-	100.0%	801	801			50.0%	61.8%	61.8%	61.8%	61.8%			801	61.8%
2012 / 2	1,499	979	-	979	780	979	-	100.0%	979	-	100.0%	979	979			52.0%	65.3%	65.3%	65.3%	65.3%			979	65.3%
2013 / 1	1,490	964	-	964	730	964	-	100.0%	964	-	100.0%	964	964			49.0%	64.7%	64.7%	64.7%	64.7%			964	64.7%
2013 / 2	1,415	925	0	925	736	925	-	100.0%	925	-	100.0%	925	925			52.0%	65.3%	65.3%	65.3%	65.3%			925	65.3%
2014 / 1	1,348	779	-	779	687	779	-	100.0%	779	-	100.0%	779	779			51.0%	57.8%	57.8%	57.8%	57.8%			779	57.8%
2014 / 2	1,391	700	-	700	765	700	-	100.0%	700	-	100.0%	700	700			55.0%	50.3%	50.3%	50.3%	50.3%			700	50.3%
2015 / 1	1,394	884	-	884	766	884	-	100.0%	884	12.5%	87.5%	869	884			55.0%	63.4%	63.4%	62.4%	63.4%			884	63.4%
2015 / 2	1,423	809	0	810	854	810	-	100.0%	810	25.0%	75.0%	821	810			60.0%	56.9%	56.9%	57.7%	56.9%			810	56.9%
2016 / 1	1,386	629	-	629	845	628	(0.1%)	100.1%	628	37.5%	62.5%	710	629			61.0%	45.3%	45.3%	51.2%	45.4%			628	45.3%
2016 / 2	1,383	897	0	897	927	895	(0.2%)	100.2%	895	50.0%	50.0%	911	897			67.0%	64.7%	64.7%	65.8%	64.8%			895	64.7%
2017 / 1	1,402	998	4	1,003	926	1,000	(0.3%)	100.3%	1,000	62.5%	37.5%	953	1,003			66.0%	71.3%	71.3%	68.0%	71.5%			1,000	71.3%
2017 / 2	2,041	1,504	24	1,528	1,429	1,523	(0.4%)	100.4%	1,523	75.0%	25.0%	1,452	1,528			70.0%	74.6%	74.6%	71.1%	74.9%			1,523	74.6%
2018 / 1	2,603	2,181	18	2,199	1,770	2,177	(1.0%)	101.0%	2,181	87.5%	12.5%	1,821	2,199			68.0%	83.6%	83.8%	70.0%	84.5%			2,181	83.8%
2018 / 2	2,853	2,489	153	2,642	2,054	2,520	(4.9%)	104.9%	2,542	100.0%	-	2,054	2,642			72.0%	88.3%	89.1%	72.0%	92.6%			2,542	89.1%
2019 / 1	1,468	1,016	602	1,619	2,129	2,999			2,999	100.0%	-	1,619	1,619			70.0%	98.6%	85.4%	-	-			1,254	85.4%
<b>Total</b>	<b>35,723</b>	<b>24,838</b>	<b>802</b>	<b>25,641</b>	<b>19,614</b>	<b>26,865</b>			<b>23,240</b>			<b>23,022</b>	<b>25,641</b>										<b>25,147</b>	

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*For 'off-half' valuation quarters (Mar and Sep), the current accident half-year (CAHY) by method Ultimate Loss estimates ([5] to [22]) are based on projected full AHY Earned Premium estimates

Facility Association

Comparison of Estimated IBNR by Method  
as at March 31, 2019  
Coverage: Collision (w All Perils)  
RSP: Nova Scotia  
Amounts in: \$1,000s

Accident Year	Current Valuation Results (as at Mar 2019)											Prior Valuation Results (as at Dec 2018)				Change from Prior Valuation						
	ELR Method IBNR*	Link Ratio Method IBNR	BF Method IBNR*	ELR & LR Wtd Method IBNR	Incurred (Zero IBNR) IBNR	User Defined 1 IBNR	User Defined 2 IBNR	Selected IBNR Method	Selected IBNR	Selected Ultimate	Selected Ultimate LR*	ELR Method IBNR*	Link Ratio Method IBNR	BF Method IBNR*	Selected IBNR Method	Selected IBNR	Selected Ultimate	Selected Ultimate LR*	Incurred to Date	Selected IBNR	Selected Ultimate	Selected Ultimate LR*
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
2007 / 1		-		-	-		Link Ratio Method	-	8					Link Ratio Method	-	8		-	-	-	-	-
2007 / 2		-		-	-		Link Ratio Method	-	338					Link Ratio Method	-	338		-	-	-	-	-
2008 / 1		-		-	-		Link Ratio Method	-	856					Link Ratio Method	-	856		-	-	-	-	-
2008 / 2		-		-	-		Link Ratio Method	-	1,003					Link Ratio Method	-	1,003		-	-	-	-	-
2009 / 1		-		-	-		Link Ratio Method	-	1,047					Link Ratio Method	-	1,047		-	-	-	-	-
2009 / 2	(343)	-	-	-	-		Link Ratio Method	-	1,170	82.1%	(343)	-	-	Link Ratio Method	-	1,170	82.1%	-	-	-	-	-
2010 / 1	(60)	-	-	-	-		Link Ratio Method	-	805	58.3%	(60)	-	-	Link Ratio Method	-	805	58.3%	-	-	-	-	-
2010 / 2	(427)	-	-	-	-		Link Ratio Method	-	1,147	87.6%	(427)	-	-	Link Ratio Method	-	1,147	87.6%	-	-	-	-	-
2011 / 1	(295)	-	-	-	-		Link Ratio Method	-	925	76.3%	(295)	-	-	Link Ratio Method	-	925	76.3%	-	-	-	-	-
2011 / 2	(341)	-	-	-	-		Link Ratio Method	-	985	79.5%	(341)	-	-	Link Ratio Method	-	985	79.5%	-	-	-	-	-
2012 / 1	(153)	-	-	-	-		Link Ratio Method	-	801	61.8%	(153)	-	-	Link Ratio Method	-	801	61.8%	-	-	-	-	-
2012 / 2	(199)	-	-	-	-		Link Ratio Method	-	979	65.3%	(199)	-	-	Link Ratio Method	-	978	65.3%	-	-	-	-	-
2013 / 1	(234)	-	-	-	-		Link Ratio Method	-	964	64.7%	(234)	-	-	Link Ratio Method	-	964	64.7%	-	-	-	-	-
2013 / 2	(189)	-	-	-	-		Link Ratio Method	-	925	65.3%	(189)	-	-	Link Ratio Method	-	925	65.3%	-	-	-	-	-
2014 / 1	(92)	-	-	-	-		Link Ratio Method	-	779	57.8%	(92)	-	-	Link Ratio Method	-	779	57.8%	-	-	-	-	-
2014 / 2	65	-	-	-	-		Link Ratio Method	-	700	50.3%	65	-	-	Link Ratio Method	-	700	50.3%	-	-	-	-	-
2015 / 1	(117)	-	-	(15)	-		Link Ratio Method	-	884	63.4%	(117)	-	-	Link Ratio Method	-	884	63.4%	-	-	-	-	-
2015 / 2	44	-	-	11	-		Link Ratio Method	-	810	56.9%	44	-	-	Link Ratio Method	-	810	56.9%	-	-	-	-	-
2016 / 1	216	(1)	(1)	81	-		Link Ratio Method	(1)	628	45.3%	216	(1)	(1)	Link Ratio Method	(1)	628	45.3%	-	-	-	-	-
2016 / 2	30	(2)	(2)	14	-		Link Ratio Method	(2)	895	64.7%	30	(3)	(3)	Link Ratio Method	(3)	894	64.6%	-	1	1	0.1%	-
2017 / 1	(77)	(3)	(3)	(49)	-		Link Ratio Method	(3)	1,000	71.3%	(83)	(3)	(3)	Link Ratio Method	(3)	1,006	71.7%	(6)	-	(6)	(0.4%)	-
2017 / 2	(99)	(5)	(5)	(76)	-		BF Method	(5)	1,523	74.6%	(109)	(8)	(7)	BF Method	(7)	1,532	75.0%	(11)	2	(9)	(0.4%)	-
2018 / 1	(429)	(23)	(18)	(378)	-		BF Method	(18)	2,181	83.8%	(441)	(34)	(28)	BF Method	(28)	2,184	83.9%	(13)	10	(3)	(0.1%)	-
2018 / 2	(588)	(122)	(100)	(588)	-		BF Method	(100)	2,542	89.1%	(160)	(167)	(168)	BF Method	(168)	2,053	71.7%	422	68	490	17.4%	-
2019 / 1	-	-	-	-	-			(365)	1,254	85.4%	-	-	-		-	-	-	1,619	(365)	1,254	85.4%	-
Total	(3,286)	(156)	(129)	(1,000)	-			(494)	25,147		(2,887)	(216)	(210)		(210)	23,420		2,011	(284)	1,727		
2018 / 2 & Prior	(3,286)	(156)	(129)	(1,000)	-			(129)	23,893		(2,887)	(216)	(210)		(210)	23,420		392	81	473		

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*Current accident half-year IBNR and Ultimate Loss estimates derived from the CAHY Selections exhibit

Facility Association

**Estimated and Selected Ultimate Losses by Method**  
 as at March 31, 2019

Coverage: **Comprehensive (w Spec Perils)**

RSP: Nova Scotia

Amounts in: \$1,000s

Accident Year	Actual Experience				Ultimate Loss Estimates																			
	Earned Premium	Paid Claims to Date	Case Reserves	Reported to Date	ELR Method*	Link Ratio Method	Implied BF ELR Method weight*	Implied BF Link Ratio Method weight*	BF Method*	ELR Method weight	Link Ratio Method weight	ELR & LR Wtd Method	Incurred (Zero IBNR)	User Defined 1	Data Correction	ELR Method Ult LR*	Link Ratio Method Ult LR	BF Method Ult LR*	ELR & LR Wtd Method Ult LR*	Incurred (Zero IBNR) Ult LR	User Defined 1 Ult LR	Data Correction Ult LR	Selected Ultimate Claims Amount	Selected Ultimate Loss Ratio*
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]
2007 / 1	-	4	-	4		4				-	100.0%	4	4										4	
2007 / 2	(1)	84	-	84		84				-	100.0%	84	84										84	
2008 / 1	(4)	233	-	233		233				-	100.0%	233	233										233	
2008 / 2	(3)	324	-	324		324				-	100.0%	324	324										324	
2009 / 1	109	291	-	291		291				-	100.0%	291	291										291	
2009 / 2	346	389	-	389	263	389	-	100.0%	389	-	100.0%	389	389			76.0%	112.6%	112.6%	112.6%	112.6%			389	112.6%
2010 / 1	419	270	-	270	247	270	-	100.0%	270	-	100.0%	270	270			59.0%	64.5%	64.5%	64.5%	64.5%			270	64.5%
2010 / 2	429	399	-	399	300	399	-	100.0%	399	-	100.0%	399	399			70.0%	93.1%	93.1%	93.1%	93.1%			399	93.1%
2011 / 1	416	269	-	269	246	269	-	100.0%	269	-	100.0%	269	269			59.0%	64.6%	64.6%	64.6%	64.6%			269	64.6%
2011 / 2	435	306	-	306	305	306	-	100.0%	306	-	100.0%	306	306			70.0%	70.2%	70.2%	70.2%	70.2%			306	70.2%
2012 / 1	448	272	-	272	269	272	-	100.0%	272	-	100.0%	272	272			60.0%	60.7%	60.7%	60.7%	60.7%			272	60.7%
2012 / 2	501	365	-	365	361	365	-	100.0%	365	-	100.0%	365	365			72.0%	72.9%	72.9%	72.9%	72.9%			365	72.9%
2013 / 1	493	242	-	242	310	242	-	100.0%	242	-	100.0%	242	242			63.0%	49.2%	49.2%	49.2%	49.2%			242	49.2%
2013 / 2	469	431	-	431	370	431	-	100.0%	431	-	100.0%	431	431			79.0%	91.9%	91.9%	91.9%	91.9%			431	91.9%
2014 / 1	446	317	-	317	317	317	-	100.0%	317	-	100.0%	317	317			71.0%	71.1%	71.1%	71.1%	71.1%			317	71.1%
2014 / 2	473	554	0	554	416	554	-	100.0%	554	-	100.0%	554	554			88.0%	117.3%	117.3%	117.3%	117.3%			554	117.3%
2015 / 1	480	421	-	421	370	421	-	100.0%	421	12.5%	87.5%	414	421			77.0%	87.6%	87.6%	86.3%	87.6%			421	87.6%
2015 / 2	507	345	-	345	476	345	-	100.0%	345	25.0%	75.0%	378	345			94.0%	68.1%	68.1%	74.6%	68.1%			345	68.1%
2016 / 1	513	410	-	410	416	410	-	100.0%	410	37.5%	62.5%	412	410			81.0%	79.8%	79.8%	80.3%	79.8%			410	79.8%
2016 / 2	533	461	-	461	517	461	-	100.0%	461	50.0%	50.0%	489	461			97.0%	86.5%	86.5%	91.7%	86.5%			461	86.5%
2017 / 1	532	342	1	343	436	343	(0.1%)	100.1%	343	62.5%	37.5%	401	343			82.0%	64.4%	64.4%	75.4%	64.5%			342	64.3%
2017 / 2	643	618	8	626	624	623	(0.5%)	100.5%	623	75.0%	25.0%	623	626			97.0%	96.8%	96.8%	97.0%	97.3%			623	96.9%
2018 / 1	732	572	4	576	600	572	(0.7%)	100.7%	572	87.5%	12.5%	596	576			82.0%	78.2%	78.1%	81.5%	78.7%			572	78.2%
2018 / 2	789	754	18	772	781	772	-	100.0%	772	100.0%	-	781	772			99.0%	97.9%	97.9%	99.0%	97.9%			772	97.9%
2019 / 1	400	216	109	324	705	654	50.4%	49.6%	679	100.0%	-	324			85.0%	78.9%	82.0%	-	-			327	81.8%	
<b>Total</b>	<b>10,105</b>	<b>8,889</b>	<b>139</b>	<b>9,028</b>	<b>8,328</b>	<b>9,350</b>			<b>8,439</b>			<b>8,846</b>	<b>9,028</b>										<b>9,023</b>	

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*For 'off-half' valuation quarters (Mar and Sep), the current accident half-year (CAHY) by method Ultimate Loss estimates ([5] to [22]) are based on projected full AHY Earned Premium estimates

Facility Association

Comparison of Estimated IBNR by Method

as at March 31, 2019

Coverage: Comprehensive (w Spec Perils)

RSP: Nova Scotia

Amounts in: \$1,000s

Accident Year	Current Valuation Results (as at Mar 2019)											Prior Valuation Results (as at Dec 2018)				Change from Prior Valuation							
	ELR Method IBNR*	Link Ratio Method IBNR	BF Method IBNR*	ELR & LR Wtd Method IBNR	Incurred (Zero IBNR) IBNR	User Defined 1 IBNR	User Defined 2 IBNR	Selected IBNR Method	Selected IBNR	Selected Ultimate	Selected Ultimate LR*	ELR Method IBNR*	Link Ratio Method IBNR	BF Method IBNR*	Selected IBNR Method	Selected IBNR	Selected Ultimate	Selected Ultimate LR*	Incurred to Date	Selected IBNR	Selected Ultimate	Selected Ultimate LR*	
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	
2007 / 1	-	-	-	-	-	-	-	Link Ratio Method	-	4	-	-	-	-	Link Ratio Method	-	4	-	-	-	-	-	-
2007 / 2	-	-	-	-	-	-	-	Link Ratio Method	-	84	-	-	-	-	Link Ratio Method	-	84	-	-	-	-	-	-
2008 / 1	-	-	-	-	-	-	-	Link Ratio Method	-	233	-	-	-	-	Link Ratio Method	-	233	-	-	-	-	-	-
2008 / 2	-	-	-	-	-	-	-	Link Ratio Method	-	324	-	-	-	-	Link Ratio Method	-	324	-	-	-	-	-	-
2009 / 1	-	-	-	-	-	-	-	Link Ratio Method	-	291	-	-	-	-	Link Ratio Method	-	291	-	-	-	-	-	-
2009 / 2	(126)	-	-	-	-	-	-	Link Ratio Method	-	389	112.6%	(126)	-	-	Link Ratio Method	-	389	112.6%	-	-	-	-	-
2010 / 1	(23)	-	-	-	-	-	-	Link Ratio Method	-	270	64.5%	(23)	-	-	Link Ratio Method	-	270	64.5%	-	-	-	-	-
2010 / 2	(99)	-	-	-	-	-	-	Link Ratio Method	-	399	93.1%	(99)	-	-	Link Ratio Method	-	399	93.1%	-	-	-	-	-
2011 / 1	(23)	-	-	-	-	-	-	Link Ratio Method	-	269	64.6%	(23)	-	-	Link Ratio Method	-	269	64.6%	-	-	-	-	-
2011 / 2	(1)	-	-	-	-	-	-	Link Ratio Method	-	306	70.2%	(1)	-	-	Link Ratio Method	-	306	70.2%	-	-	-	-	-
2012 / 1	(3)	-	-	-	-	-	-	Link Ratio Method	-	272	60.7%	(3)	-	-	Link Ratio Method	-	272	60.7%	-	-	-	-	-
2012 / 2	(4)	-	-	-	-	-	-	Link Ratio Method	-	365	72.9%	(4)	-	-	Link Ratio Method	-	365	72.9%	-	-	-	-	-
2013 / 1	68	-	-	-	-	-	-	Link Ratio Method	-	242	49.2%	68	-	-	Link Ratio Method	-	242	49.2%	-	-	-	-	-
2013 / 2	(61)	-	-	-	-	-	-	Link Ratio Method	-	431	91.9%	(61)	-	-	Link Ratio Method	-	431	91.9%	-	-	-	-	-
2014 / 1	(0)	-	-	-	-	-	-	Link Ratio Method	-	317	71.1%	(0)	-	-	Link Ratio Method	-	317	71.1%	-	-	-	-	-
2014 / 2	(138)	-	-	-	-	-	-	Link Ratio Method	-	554	117.3%	(138)	-	-	Link Ratio Method	-	554	117.3%	-	-	-	-	-
2015 / 1	(51)	-	-	(6)	-	-	-	Link Ratio Method	-	421	87.6%	(51)	-	-	Link Ratio Method	-	421	87.6%	-	-	-	-	-
2015 / 2	131	-	-	33	-	-	-	Link Ratio Method	-	345	68.1%	131	-	-	Link Ratio Method	-	345	68.1%	-	-	-	-	-
2016 / 1	6	-	-	2	-	-	-	Link Ratio Method	-	410	79.8%	6	-	-	Link Ratio Method	-	410	79.8%	-	-	-	-	-
2016 / 2	56	-	-	28	-	-	-	Link Ratio Method	-	461	86.5%	56	-	-	Link Ratio Method	-	461	86.5%	-	-	-	-	-
2017 / 1	93	(0)	(1)	58	-	-	-	BF Method	(1)	342	64.3%	93	(1)	(1)	BF Method	(1)	342	64.3%	-	-	-	-	-
2017 / 2	(2)	(3)	(3)	(2)	-	-	-	BF Method	(3)	623	96.9%	(1)	(4)	(4)	BF Method	(4)	621	96.6%	1	1	2	0.3%	
2018 / 1	24	(4)	(4)	20	-	-	-	BF Method	(4)	572	78.2%	29	(4)	(4)	BF Method	(4)	567	77.5%	5	-	5	0.7%	
2018 / 2	9	0	0	9	-	-	-	BF Method	-	772	97.9%	82	5	6	BF Method	6	707	89.4%	71	(6)	65	8.5%	
2019 / 1	-	-	-	-	-	-	-	BF Method	-	3	327	81.8%	-	-	-	-	-	-	324	3	327	81.8%	
Total	(145)	(8)	(8)	142	-	-	-		(5)	9,023		(66)	(4)	(4)		(3)	8,624		401	(2)	399		
2018 / 2 & Prior	(145)	(8)	(8)	142	-	-	-		(8)	8,696		(66)	(4)	(4)		(3)	8,624		77	(5)	72		

\*Earned Premium prior to data modernization (2009 / 2) was not allocated on a coverage level

\*\*Current accident half-year IBNR and Ultimate Loss estimates derived from the CAHY Selections exhibit

## Nova Scotia RSP

### Exhibit C

#### Interest Rate Sensitivity

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Facility Association  
Summary of Interest Rate Sensitivity  
\$ Format: \$000s

Actuarial Present Value of Provisions at Various Discount Rates - Dec. 31, 2019 projected Unpaid								
AY	0.43%	0.93%	1.43%	1.93%	2.43%	2.93%	1.93%	2.28%
2007	-	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-
2009	53	52	52	51	51	51	51	51
2010	-	-	-	-	-	-	-	-
2011	144	143	141	139	137	136	139	138
2012	611	606	601	596	591	586	596	592
2013	1,359	1,348	1,337	1,327	1,317	1,307	1,327	1,320
2014	1,026	1,019	1,012	1,005	998	992	1,005	1,000
2015	3,194	3,170	3,146	3,123	3,100	3,078	3,123	3,107
2016	5,273	5,224	5,176	5,129	5,082	5,037	5,129	5,096
2017	9,213	9,107	9,002	8,900	8,800	8,703	8,900	8,830
2018	15,931	15,709	15,494	15,285	15,078	14,879	15,285	15,139
2019	22,132	21,782	21,443	21,113	20,790	20,478	21,113	20,885
Total	58,936	58,160	57,404	56,668	55,944	55,247	56,668	56,158
	curr - 100 bp	curr - 50 bp	curr val assumption	curr + 50bp	curr + 100bp	curr + 150bp	prior val assumption	prior fyr end assumption

Dollar Impact Relative to Valuation Assumption								
AY	0.43%	0.93%	1.43%	1.93%	2.43%	2.93%	1.93%	2.28%
Total	1,532	756	-	(736)	(1,460)	(2,157)	(736)	(1,246)
	curr - 100 bp	curr - 50 bp	curr val assumption	curr + 50bp	curr + 100bp	curr + 150bp	prior val assumption	prior fyr end assumption

Percentage Impact Relative to Valuation Assumption								
AY	0.43%	0.93%	1.43%	1.93%	2.43%	2.93%	1.93%	2.28%
2007	-	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-
2009	1.9%	-	-	(1.9%)	(1.9%)	(1.9%)	(1.9%)	(1.9%)
2010	-	-	-	-	-	-	-	-
2011	2.1%	1.4%	-	(1.4%)	(2.8%)	(3.5%)	(1.4%)	(2.1%)
2012	1.7%	0.8%	-	(0.8%)	(1.7%)	(2.5%)	(0.8%)	(1.5%)
2013	1.6%	0.8%	-	(0.7%)	(1.5%)	(2.2%)	(0.7%)	(1.3%)
2014	1.4%	0.7%	-	(0.7%)	(1.4%)	(2.0%)	(0.7%)	(1.2%)
2015	1.5%	0.8%	-	(0.7%)	(1.5%)	(2.2%)	(0.7%)	(1.2%)
2016	1.9%	0.9%	-	(0.9%)	(1.8%)	(2.7%)	(0.9%)	(1.5%)
2017	2.3%	1.2%	-	(1.1%)	(2.2%)	(3.3%)	(1.1%)	(1.9%)
2018	2.8%	1.4%	-	(1.3%)	(2.7%)	(4.0%)	(1.3%)	(2.3%)
2019	3.2%	1.6%	-	(1.5%)	(3.0%)	(4.5%)	(1.5%)	(2.6%)
Total	2.7%	1.3%	-	(1.3%)	(2.5%)	(3.8%)	(1.3%)	(2.2%)
	curr - 100 bp	curr - 50 bp	curr val assumption	curr + 50bp	curr + 100bp	curr + 150bp	prior val assumption	prior fyr end assumption

## Nova Scotia RSP

### Exhibit D

## Claims Development Margins

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Facility Association

Margins Table (by coverage)

\$ Format: \$000s

RSP Nova Scotia

as at: 2019m03

use margins as at 2019m12

Emerge: Paid to Ultimate

Current Valuation as at Mar. 31, 2019  
 Selected Margins for Adverse Development

Accident Half Year	Bodily Injury	Property Damage (w DCPD)	Direct Comp Property Damage	Third Party Liability	AccBen (indivis)	Uninsured Automobile	Accident Benefits	Underinsured Motorist	Collision (w All Perils)	Comprehensive (w Spec Perils)	Other Coverages	Total
2007 / 1	10.0%	10.0%	-	10.0%	10.0%	10.0%	10.0%	10.0%	5.0%	5.0%	10.0%	10.0%
2007 / 2	10.0%	10.0%	-	10.0%	10.0%	10.0%	10.0%	10.0%	5.0%	5.0%	10.0%	10.0%
2008 / 1	10.0%	10.0%	-	10.0%	10.0%	10.0%	10.0%	10.0%	5.0%	5.0%	10.0%	10.0%
2008 / 2	10.0%	10.0%	-	10.0%	10.0%	10.0%	10.0%	10.0%	5.0%	5.0%	10.0%	10.0%
2009 / 1	10.0%	10.0%	-	10.0%	10.0%	10.0%	10.0%	10.0%	5.0%	5.0%	10.0%	10.0%
2009 / 2	10.0%	10.0%	-	10.0%	10.0%	10.0%	10.0%	10.0%	5.0%	5.0%	10.0%	10.0%
2010 / 1	10.0%	10.0%	-	10.0%	10.0%	10.0%	10.0%	10.0%	5.0%	5.0%	10.0%	10.0%
2010 / 2	10.0%	10.0%	-	10.0%	10.0%	10.0%	10.0%	10.0%	5.0%	5.0%	10.0%	10.0%
2011 / 1	10.0%	10.0%	-	10.0%	10.0%	10.0%	10.0%	10.0%	5.0%	5.0%	10.0%	10.0%
2011 / 2	10.0%	10.0%	-	10.0%	10.0%	10.0%	10.0%	10.0%	5.0%	5.0%	10.0%	10.0%
2012 / 1	10.0%	10.0%	-	10.0%	10.0%	10.0%	10.0%	10.0%	5.0%	5.0%	10.0%	10.0%
2012 / 2	10.0%	10.0%	-	10.0%	10.0%	10.0%	10.0%	10.0%	5.0%	5.0%	10.0%	10.0%
2013 / 1	10.0%	10.0%	-	10.0%	10.0%	10.0%	10.0%	10.0%	5.0%	5.0%	10.0%	10.0%
2013 / 2	10.0%	10.0%	-	10.0%	10.0%	10.0%	10.0%	10.0%	5.0%	5.0%	10.0%	10.0%
2014 / 1	10.0%	10.0%	-	10.0%	10.0%	10.0%	10.0%	10.0%	5.0%	5.0%	10.0%	10.0%
2014 / 2	10.0%	10.0%	-	10.0%	10.0%	10.0%	10.0%	10.0%	5.0%	5.0%	10.0%	10.0%
2015 / 1	12.5%	10.0%	-	12.5%	10.0%	10.0%	10.0%	12.5%	5.0%	5.0%	12.5%	12.0%
2015 / 2	12.5%	10.0%	-	12.5%	10.0%	10.0%	10.0%	12.5%	5.0%	5.0%	11.7%	12.2%
2016 / 1	12.5%	10.0%	-	12.5%	10.0%	10.0%	10.0%	12.5%	5.0%	5.0%	12.5%	12.4%
2016 / 2	12.5%	10.0%	-	12.5%	10.0%	10.0%	10.0%	12.5%	5.0%	5.0%	12.5%	12.5%
2017 / 1	12.5%	10.0%	-	12.5%	10.0%	10.0%	10.0%	12.5%	5.0%	5.0%	11.9%	12.3%
2017 / 2	12.5%	10.0%	-	12.5%	10.0%	10.0%	10.0%	12.5%	5.0%	5.0%	8.5%	12.1%
2018 / 1	12.5%	10.0%	-	12.5%	10.0%	10.0%	10.0%	12.5%	5.0%	5.0%	12.5%	12.3%
2018 / 2	12.5%	10.0%	-	12.5%	10.0%	10.0%	10.0%	12.5%	5.0%	5.0%	8.9%	12.3%
2019 / 1	12.5%	10.0%	-	12.5%	10.0%	10.0%	10.0%	12.5%	5.0%	5.0%	7.9%	12.2%
2019 / 2	12.5%	10.0%	-	12.4%	10.0%	10.0%	10.0%	12.5%	5.0%	5.0%	5.4%	11.7%
2020 / 1	12.5%	10.0%	-	12.0%	10.0%	10.0%	10.0%	12.5%	5.0%	5.0%	5.1%	10.3%
2020 / 2	12.5%	10.0%	-	12.0%	10.0%	10.0%	10.0%	12.5%	5.0%	5.0%	5.1%	10.3%
prem liab	12.5%	10.0%	-	12.0%	10.0%	10.0%	10.0%	12.5%	5.0%	5.0%	5.1%	10.3%

discount rate: 1.43%  
 margin (basis points): 25