DELAWARE COMPENSATION RATING BUREAU, INC.

Indicated Residual Market Rate Change

Page 1 presents the overall indicated changes in rates and loss costs.

Derivation of the indemnity and medical trend factors and trended loss ratios shown on page 1 is presented on pages 2 and 3.

Page 4 shows the derivation of overall frequency trend factors for each of the latest four policy years.

Staff is taking into account the impact of direct savings attributable to House Bill 373.

INDICATED CHANGE IN RATE LEVEL

(1a) (1b) (1c) (1d) (1e)	Policy Year 2012 Loss and Loss Adjustment Expense Ratio Policy Year 2013 Loss and Loss Adjustment Expense Ratio Policy Year 2014 Loss and Loss Adjustment Expense Ratio Policy Year 2015 Loss and Loss Adjustment Expense Ratio Average (Midpoint = 7/1/2014)	Indemnity 0.2614 0.2925 0.2546 0.2384 0.2617	Medical 0.4256 0.4933 0.4461 0.5472 0.4781	Total 0.6870 0.7858 0.7007 0.7856 0.7398
(2a) (2b) (2c) (2d) (2e)	Policy Year 2012 Loss and Loss Adjustment Expense Ratio Policy Year 2013 Loss and Loss Adjustment Expense Ratio Policy Year 2014 Loss and Loss Adjustment Expense Ratio Policy Year 2015 Loss and Loss Adjustment Expense Ratio Average at 12/1/2018	0.2435 0.2758 0.2429 0.2302 0.2481	0.5040 0.5677 0.4989 0.5947 0.5413	0.7894
(3a)	House Bill 373 Adjustment	1.0000	0.6859	
(3b)	Average Trended Loss and LAE Ratio Post-Legislation (2e) * (3a)	0.2481	0.3713	0.6194
(4a) (4b)	Excess Loss Factor at \$1,930,710 (Post-Legislative Basis) * Provision for Excess Loss (5a) - (3b)			0.0817 0.0551
(5a) (5b)	Total Trended Loss and LAE Ratio (3b) / (1.0 - (4a)) Percentage of Total	0.2614 38.75%	0.4131 61.25%	0.6745
(6)	Permissible Loss and Loss Adjustment Ratio			0.7056
(7)	Indicated Change in Rates (5a) / (6)			0.9559
(8)	Estimated Effect of the 7/1/18 Benefit Change			0.9948
(9) (9a) (9b)	Indicated Change in Residual Market Rate Level (7) * (8) Factor to Adjust for Compromise With Insurance Department Change in Residual Market Rate Level to Reflect Compromise (9) * (9a)			0.9509 0.99135 0.9427 -5.73%
(10) (10a) (10b)	Indicated Change in Voluntary Market Loss Costs (9) * [0.7308 / 0.7102] Factor to Adjust for Compromise With Insurance Department Change in Voluntary Market Loss Cost Level to Reflect Compromise (10) * (10a)			0.9785 0.99135 0.9700 -3.00%

CHANGES IN MANUAL PREMIUM LEVEL BY INDUSTRY GROUP

		Mfg.	Cont.	Other	Total
(11) (12) (13)	Current Collectible Premium Ratio Proposed Collectible Premium Ratio Change in Collectible Premium Ratio (12) / (11)	1.0282 1.0910 1.0611	1.0294 1.0442 1.0144	0.9197 0.9299 1.0111	1.0182
(14)	Change in Residual Market Manual Rate Level (9b) * (13)	1.0003	0.9563	0.9532	0.9599
(15)	Change in Voluntary Market Manual Loss Cost Level (10b) * (13)	1.0293	0.9840	0.9808	0.9877
(16) (17)	Current Offset for Residual Market Surcharge Proposed Offset for Residual Market Surcharge				0.9905 0.9927
(18)	Adjusted Change in Voluntary Market Manual Loss Cost Level (15) * (17) / (16)	1.0316	0.9862	0.9830	0.9899

^{* \$2,744,000} on a Post-HB175, Pre-HB373 basis.

DETERMINATION OF TREND

INDEMNITY

Policy Year		2009	2010	2011	2012	2013	2014	2015
Actual Loss Ratio		0.2609	0.2568	0.2546	0.2614	0.2925	0.2546	0.2384
Normalized Frequency		0.6100	0.6100	0.5718	0.5123	0.5353	0.4630	0.4928
Severity Loss Ratio		0.4277	0.4210	0.4453	0.5102	0.5465	0.5498	0.4838
_	x	1	2	3	4	5	6	7
_	У	0.4277	0.4210	0.4453	0.5102	0.5465	0.5498	0.4838

	Selected Annual Trend =	4.0%		
		Trend Period		
Policy	Annual	# Years	Severity	Frequency
Year	Trend Factor	to 12/1/18	Trend Factor	Trend Factor
	(1)	(2)	$(3) = (1)^{(2)}$	(4) #
2012	1.0404	5.9167	1.2639	0.7372
2013	1.0404	4.9167	1.2149	0.7762
2014	1.0404	3.9167	1.1677	0.8172
2015	1.0404	2.9167	1.1224	0.8604
Trended Loss Ratio				
Policy	Actual	Combined	Trended	
Year	Loss Ratio	Trend Factor	Loss Ratio	
	(5)	(6) = (3)*(4)	(7) = (5)*(6)	
2012	0.2614	0.9317	0.2435	
2013	0.2925	0.9430	0.2758	
2014	0.2546	0.9542	0.2429	
2015	0.2384	0.9657	0.2302	
Average			0.2481	

[#] See Page 12.4 for column (4).

DETERMINATION OF TREND

MEDICAL

Policy Year		2009	2010	2011	2012	2013	2014	2015
Actual Loss Ratio		0.3934	0.4761	0.4352	0.4256	0.4933	0.4461	0.5472
Normalized Frequency		0.6100	0.6100	0.5718	0.5123	0.5353	0.4630	0.4928
Severity Loss Ratio		0.6449	0.7805	0.7611	0.8307	0.9216	0.9634	1.1104
_	x	1	2	3	4	5	6	7
_	У	0.6449	0.7805	0.7611	0.8307	0.9216	0.9634	1.1104

7 Point Exponential Regression: y = 0.615106 * 1.083386 ^ x

Selected Annual Trend =

		Trend Period		
Policy	Annual	# Years	Severity	Frequency
Year	Trend Factor	to 12/1/18	Trend Factor	Trend Facto
	(1)	(2)	$(3) = (1)^{\wedge}(2)$	(4) #
2012	1.0834	5.9167	1.6062	0.7372
2013	1.0834	4.9167	1.4826	0.7762
2014	1.0834	3.9167	1.3685	0.8172
2015	1.0834	2.9167	1.2631	0.8604

8.3%

Trended Loss Ratio

Policy Year	Actual Loss Ratio (5)	Combined Trend Factor (6) = (3)*(4)	Trended Loss Ratio (7) = (5)*(6)
2012	0.4256	1.1841	0.5040
2013	0.4933	1.1508	0.5677
2014	0.4461	1.1183	0.4989
2015	0.5472	1.0868	0.5947
Average			0.5413

[#] See Page 12.4 for column (4).

DETERMINATION OF TREND

CLAIM FREQUENCY

Policy Year Frequency per \$1 million of Expected Losses

	Policy Year		Claim Frequency		Normalized Frequency		
	2003		11.77		1.0000		
	2004		10.38		0.8819		
	2005		9.28		0.7884		
	2006		8.73		0.7417		
	2007		8.12		0.6899		
	2008		7.19		0.6109		
	2009		7.18		0.6100		
	2010		7.18		0.6100		
	2011		6.73		0.5718		
	2012		6.03		0.5123		
	2013		6.30		0.5353		
	2014		5.45		0.4630		
	2015		5.80		0.4928		
Policy Year	2009	2010	2011	2012	2013	2014	2015
x	1	2	3	4	5	6	7
у	0.6100	0.6100	0.5718	0.5123	0.5353	0.4630	0.4928

7 Point (2009 - 2015) Exponential Regression: y = 0.645767 * 0.956075 ^ x

Annual Trend = -4.4%

Policy Year	2007	2008	2011	2012	2013	2014	2015
X	1	2	3	4	5	6	7
у	0.6899	0.6109	0.5718	0.5123	0.5353	0.4630	0.4928

7 Point (2007 - 2008, 2011 - 2015) Exponential Regression: y = 0.693214 * 0.943461 ^ x

-5.0%

Annual Trend = -5.7%

Selected Annual Trend (Average of -4.4% and -5.7%) =

Policy	Annual	# of Years	Frequency
Year	Trend Factor	to 12/1/18	Trend Factor
	(1)	(2)	$(3) = (1)^{(2)}$
2012	0.9498	5.9167	0.7372
2013	0.9498	4.9167	0.7762
2014	0.9498	3.9167	0.8172
2015	0.9498	2.9167	0.8604