

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.

Due to the impact of Senate Bill 1 and consistent with an adjustment to medical severity trend that was a part of the compromise reached with the Insurance Department for the 2009 Filing, medical severity trend is separated between pre-Senate Bill 1 and Post Senate Bill 1 trends. The difference between the two trend rates is a reduction of 1.8 points in medical trend attributed in the resolution of the 2009 filing to effects of the implementation of a medical fee schedule which was substantially operational beginning 9/1/2008.

## INDICATED CHANGE IN RATE LEVEL

	<u>Indemnity</u>	<u>Medical</u>	<u>Total</u>
<b>(1a)</b> Policy Year 2007 Loss and Loss Adjustment Expense Ratio	0.3270	0.5855	0.9125
<b>(1b)</b> Policy Year 2008 Loss and Loss Adjustment Expense Ratio	0.2920	0.5521	0.8441
<b>(1c)</b> Policy Year 2009 Loss and Loss Adjustment Expense Ratio	0.3079	0.6189	0.9268
<b>(1d)</b> Policy Year 2010 Loss and Loss Adjustment Expense Ratio	0.3198	0.8068	1.1266
<b>(1e)</b> Average (Midpoint = 7/1/2009)	0.3117	0.6408	0.9525
<b>(2a)</b> Policy Year 2007 Loss and LAE Ratio Trended to 12/1/2013	0.2734	0.7256	
<b>(2b)</b> Policy Year 2008 Loss and LAE Ratio Trended to 12/1/2013	0.2516	0.6504	
<b>(2c)</b> Policy Year 2009 Loss and LAE Ratio Trended to 12/1/2013	0.2735	0.6933	
<b>(2d)</b> Policy Year 2010 Loss and LAE Ratio Trended to 12/1/2013	0.2928	0.8591	
<b>(2e)</b> Average at 12/1/2013	0.2728	0.7321	1.0049
<b>(3a)</b> Senate Bill 1 Adjustment	1.0000	0.8260	
<b>(3b)</b> Average Trended Loss and LAE Ratio Post-SB1 (2e)*(3a)	0.2728	0.6047	0.8775
<b>(4a)</b> Excess Loss Factor at \$2,229,397 (Post-SB1 Basis) *			0.0990
<b>(4b)</b> Provision for Excess Loss (5a)-(3b)			0.0964
<b>(5a)</b> Total Trended Loss and LAE Ratio (3b)/(1.0-(4a))	0.2780	0.6959	0.9739
<b>(5b)</b> Percentage of Total	28.55%	71.45%	
<b>(6)</b> Permissible Loss and Loss Adjustment Ratio			0.6827
<b>(7)</b> Indicated Change in Rates (5a) / (6)			1.4265
<b>(8)</b> Estimated Effect of the 7/1/13 Benefit Change			1.0062
<b>(9)</b> Indicated Change in Residual Market Rate Level (7) * (8)			1.4353
<b>(9a)</b> Factor to Adjust for Compromise With Insurance Department			0.8290
<b>(9b)</b> Change in Residual Market Rate Level to Reflect Compromise (9) * (9a)			1.190
<b>(10)</b> Indicated Change in Voluntary Market Loss Costs (9) * [0.7074 / 0.7343]			1.3827
<b>(10a)</b> Factor to Adjust for Compromise With Insurance Department			0.8290
<b>(10b)</b> Change in Voluntary Market Loss Cost Level to Reflect Compromise (10) * (10a)			1.146

## CHANGES IN MANUAL PREMIUM LEVEL BY INDUSTRY GROUP

	<b>Mfg.</b>	<b>Cont.</b>	<b>Other</b>	<b>Total</b>
<b>(11)</b> Current Collectible Premium Ratio	0.8690	0.9585	0.8402	
<b>(12)</b> Proposed Collectible Premium Ratio	0.8705	0.9489	0.8331	
<b>(13)</b> Change in Collectible Premium Ratio (12) / (11)	1.0017	0.9900	0.9915	0.9922
<b>(14)</b> Change in Residual Market Manual Rate Level (9b) * (13)	1.1920	1.1781	1.1799	1.1807
<b>(15)</b> Change in Voluntary Market Manual Loss Cost Level (10b) * (13)	1.1479	1.1345	1.1363	1.1371
<b>(16)</b> Current Offset for Residual Market Surcharge				0.9955
<b>(17)</b> Proposed Offset for Residual Market Surcharge				0.9910
<b>(18)</b> Adjusted Change in Voluntary Market Manual Loss Cost Level (15) * (17)/(16)	1.1427	1.1294	1.1312	1.1320

\* \$2,630,000 on a pre-Senate Bill 1 basis.

**DETERMINATION OF TREND**

**INDEMNITY**

Policy Year	2004	2005	2006	2007	2008	2009	2010
Actual Loss Ratio	0.3687	0.3564	0.3351	0.3270	0.2920	0.3079	0.3198
Normalized Frequency	0.6629	0.5940	0.5587	0.5195	0.4609	0.4631	0.4441
Severity Loss Ratio	0.5562	0.6000	0.5998	0.6295	0.6335	0.6649	0.7201
<b>x</b>	1	2	3	4	5	6	7
<b>y</b>	0.5562	0.6000	0.5998	0.6295	0.6335	0.6649	0.7201

**7 Point Exponential Regression:  $y = 0.541082 * 1.037651 ^ x$**

**Selected Annual Trend Factor** **3.8%**

Policy Year	Fitted Value @ Midpoint of PY (1)	Fitted Value @ 12/1/11 (2)	Severity Trend Factor (3) = (2)/(1)	Frequency Trend Factor (4) #
2007	0.6273	0.7806	1.2444	0.6719
2008	0.6509	0.7806	1.1993	0.7186
2009	0.6754	0.7806	1.1558	0.7686
2010	0.7008	0.7806	1.1138	0.8220

**Trended Loss Ratio**

Policy Year	Actual Loss Ratio (5)	Combined Trend Factor (6) = (3)*(4)	Trended Loss Ratio (7) = (5)*(6)
2007	0.3270	0.8361	0.2734
2008	0.2920	0.8618	0.2516
2009	0.3079	0.8883	0.2735
2010	0.3198	0.9156	0.2928
Average			0.2728

# See Page 12.4 for column (4).

**DETERMINATION OF TREND**

**MEDICAL**

Policy Year	2004	2005	2006	2007	2008	2009	2010
Actual Loss Ratio	0.5661	0.5437	0.5131	0.5855	0.5521	0.6189	0.8068
Normalized Frequency	0.6629	0.5940	0.5587	0.5195	0.4609	0.4631	0.4441
Severity Loss Ratio	0.8540	0.9153	0.9184	1.1270	1.1979	1.3364	1.8167
<b>x</b>	1	2	3	4	5	6	7
<b>y</b>	0.8540	0.9153	0.9184	1.1270	1.1979	1.3364	1.8167

**7 Point Exponential Regression:  $y = 0.706551 * 1.012457 ^ x$**

**Selected Annual Trend Factor to 9/1/08 = 12.5%**

**Annual Senate Bill I Adjustment to Severity Trend = -1.8%  
Based on Compromise from 2009 Filing**

**Selected Annual Trend Factor 9/1/08 to 12/1/13 = 10.7%  
12.5% - 1.8% = 10.7%**

Policy Year	Trend Factor to 9/1/08 (1)	Trend Factor 9/1/08-12/1/13 (2)	Severity Trend Factor (3) = (1)*(2)	Frequency Trend Factor (4) #
2007	1.0817	1.7052	1.8445	0.6719
2008	0.9615	1.7052	1.6395	0.7186
2009	0.8547	1.7052	1.4574	0.7686
2010	0.7597	1.7052	1.2954	0.8220

**Trended Loss Ratio**

Policy Year	Actual Loss Ratio (5)	Combined Trend Factor (6) = (3)*(4)	Trended Loss Ratio (7) = (5)*(6)
2007	0.5855	1.2393	0.7256
2008	0.5521	1.1781	0.6504
2009	0.6189	1.1202	0.6933
2010	0.8068	1.0648	0.8591
Average			0.7321

## DETERMINATION OF TREND

### Claim Frequency

Policy Year Frequency per \$1 million of Expected Losses  
{1 = PY 1998, 13 = PY 2010}

Policy Year	Claim Frequency	Normalized Frequency
1998	23.22	1.0000
1999	22.88	0.9854
2000	20.72	0.8924
2001	18.05	0.7774
2002	18.28	0.7873
2003	17.49	0.7533
2004	15.39	0.6629
2005	13.79	0.5940
2006	12.97	0.5587
2007	12.06	0.5195
2008	10.70	0.4609
2009	10.75	0.4631
2010	10.31	0.4441

Policy Year	2004	2005	2006	2007	2008	2009	2010
<b>x</b>	1	2	3	4	5	6	7
<b>y</b>	0.7533	0.6629	0.5940	0.5587	0.5195	0.4609	0.4631

7 Point (2003 - 2009) Exponential Regression:  $y = 0.686494 * 0.934660 ^ x$

### Selected Frequency Trend Factor

**-6.5%**

Policy Year	Frequency Trend Factor (1)	# of Years to 12/1/13 (2)	Frequency Trend to 12/1/13 (3) = (1) ^ (2)
2007	0.9350	5.9167	0.6719
2008	0.9350	4.9167	0.7186
2009	0.9350	3.9167	0.7686
2010	0.9350	2.9167	0.8220