

DELAWARE COMPENSATION RATING BUREAU, INC.

Loss Development Triangles – Limited Losses

Pages 1 through 3 of this exhibit display indemnity triangles for incurred and paid to twenty-ninth loss development factors and the ratios of incurred to paid losses. Reported indemnity losses are not adjusted to a post-House Bill 175, pre-House Bill 373 basis.

Pages 4 through 6 of this exhibit display medical triangles on a post-House Bill 175, pre-House Bill 373 basis for incurred and paid to twenty-ninth loss development factors and the ratios of incurred to paid losses.

The number of diagonals shown in this exhibit are limited due to the change from a pre-Senate Bill 1 basis to a post-House Bill 175, pre-House Bill 373 basis in the rate and loss cost filing effective December 1, 2017.







Policy Year	MEDICAL INCURRED (POST-HB175, PRE-HB373)																													
	1/2	2/3	3/4	4/5	5/6	6/7	7/8	8/9	9/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29		
1986																										1.0013	0.9757	1.0056	1.0013	
1987																									1.0090	1.0281	1.0041	1.0083	1.0054	
1988																							1.0022	0.9995	0.9967	1.0040	1.0015	1.0022		
1989																						1.0001	1.0027	1.0077	1.0121	1.0050	1.0069	0.9953		
1990																					1.0065	0.9917	1.0027	1.0115	1.0072	0.9988	1.0095			
1991																				0.9995	0.9944	0.9838	1.0039	0.9998	1.0028	1.0037				
1992																				1.0126	1.0014	1.0034	1.0153	1.0072	1.0009	0.9936				
1993																		0.9957	0.9801	1.0122	1.0070	0.9999	1.0065	1.0056						
1994																	1.0088	1.0116	0.9761	1.0058	0.9883	1.0035	1.0115							
1995																1.0239	0.9968	0.9932	1.0025	1.0045	0.9826	1.0025								
1996															1.0191	1.0210	0.9846	1.0199	0.9996	0.9947	0.9957									
1997														1.0129	1.0111	1.0017	1.0035	0.9941	1.0178	1.0193										
1998												0.9965	0.9959	1.0145	0.9990	1.0029	1.0207	1.0027	1.0004											
1999												0.9926	0.9764	1.0185	0.9935	1.0192	0.9936													
2000												1.0292	1.0208	0.9887	0.9915	1.0120	1.0216	0.9602												
2001										1.0146	0.9936	0.9987	1.0236	1.0314	1.0150	1.0010														
2002										1.0331	0.9769	1.0135	1.0212	1.0239	1.0079	0.9794														
2003									1.0505	1.0220	1.0119	1.0120	1.0234	1.0211	1.0078															
2004										1.0083	0.9937	1.0161	1.0345	1.0380	1.0504	1.0203														
2005										1.0376	1.0117	1.0329	1.0266	1.0264	0.9691	1.0063														
2006										1.0451	1.0396	1.0615	1.0079	1.0274	0.9983	0.9986														
2007										1.0144	1.0358	1.0224	1.0285	1.0398	1.0106	1.0084														
2008										1.0790	1.0527	1.0812	1.0442	1.0635	1.0221	0.9990														
2009										1.1415	1.0672	1.1216	1.0573	1.0317	1.0488	1.0257														
2010										1.1965	1.1308	1.0692	1.0654	1.0576	1.0595	1.0033														
2011										1.1849	1.0855	1.0454	1.0314	1.0384	0.9973															
2012										1.2377	1.1434	1.0563	1.0259	1.0274																
2013										1.2919	1.1484	1.0887	0.9946																	
2014										1.2026	1.0880	1.0302																		
2015										1.1434	1.0041																			
2016										1.1529																				
AVERAGES																														
3 yr	1.1663	1.0802	1.0584	1.0173	1.0411	1.0295	1.0385	1.0292	1.0123	1.0110	1.0019	1.0267	1.0218	1.0157	1.0021	1.0054	1.0000	0.9968	1.0059	1.0062	0.9889	1.0020	1.0084	1.0021	1.0012	1.0025	1.0060	1.0010		Tail Factor
4 yr	1.1977	1.0960	1.0552	1.0293	1.0452	1.0332	1.0360	1.0239	1.0159	1.0169	1.0044	1.0253	1.0222	1.0097	1.0062	1.0048	1.0009	1.0026	1.0051	1.0061	0.9934	1.0053	1.0073	1.0045	1.0039	1.0029	1.0066	1.0011		
5 yr	1.2057	1.0939	1.0580	1.0478	1.0524	1.0310	1.0411	1.0257	1.0159	1.0159	1.0062	1.0200	1.0155	1.0030	1.0048	1.0041	0.9976	1.0007	0.9993	1.0073	0.9954	1.0010	1.0064	1.0051	1.0025	1.0031	1.0064	1.0011		
ALL	1.2014	1.1060	1.0623	1.0437	1.0490	1.0332	1.0322	1.0247	1.0193	1.0101	1.0077	1.0168	1.0094	1.0061	1.0077	1.0094	0.9991	1.0015	0.9984	1.0053	0.9968	0.9995	1.0052	1.0049	1.0060	0.9986	1.0064	1.0011		
Selected*	1.1979	1.0916	1.0600	1.0449	1.0358	1.0298	1.0253	1.0219	1.0192	1.0169	1.0150	1.0134	1.0120	1.0107	1.0096	1.0086	1.0077	1.0069	1.0061	1.0054	1.0047	1.0041	1.0036	1.0030	1.0025	1.0020	1.0016	1.0012		1.0038
Cumulative	1.8941	1.5812	1.4485	1.3665	1.3078	1.2626	1.2260	1.1958	1.1702	1.1481	1.1290	1.1123	1.0976	1.0846	1.0731	1.0629	1.0539	1.0458	1.0387	1.0324	1.0268	1.0220	1.0178	1.0142	1.0111	1.0086	1.0066	1.0050		1.0038

\* Y = a+b/x^5+c\*ln(x)/x  
a = -0.027650 b = 0.225571 c = -0.116147



MEDICAL PAID-INCURRED (POST-HB175, PRE-HB373)

Policy Year	1/2	2/3	3/4	4/5	5/6	6/7	7/8	8/9	9/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29			
1986																										1.0756	1.0466	1.0371	1.0327		
1987																															
1988																								1.0245	1.1111	1.1157	1.0771	1.0729	1.0697		
1989																							1.0497	1.0480	1.0437	1.0384	1.0235	1.0275	1.0125		
1990																						1.1146	1.0954	1.0617	1.0864	1.0838	1.0781	1.0791			
1991																					1.0704	1.0579	1.0347	1.0297	1.0163	1.0166	1.0160				
1992																						1.0218	1.0180	1.0213	1.0213	1.0193	1.0112				
1993																		1.1276	1.0892	1.0873	1.0864	1.0726	1.0688	1.0662							
1994																						1.0582	1.0513	1.0578							
1995																1.1376	1.1255	1.0956	1.0780	1.0760	1.0519	1.0513									
1996															1.2306	1.2162	1.1604	1.1756	1.1500	1.1284	1.1144										
1997														1.1594	1.1556	1.1221	1.1134	1.0960	1.0971	1.1113											
1998												1.0977	1.0963	1.0843	1.0832	1.0959	1.0834	1.0623													
1999												1.1406	1.1142	1.0824	1.0981	1.0730	1.0870	1.0769													
2000												1.2447	1.2116	1.1656	1.1342	1.1264	1.1409	1.0887													
2001												1.2392	1.2017	1.1524	1.1892	1.2101	1.1928	1.1774													
2002												1.1709	1.1552	1.1398	1.1121	1.1055	1.0704														
2003									1.2897	1.2662	1.2294	1.2134	1.2155	1.2159	1.1903																
2004												1.1714	1.1667	1.1698	1.1773	1.2126	1.1866														
2005												1.3044	1.2561	1.2227	1.2450	1.2532	1.1689	1.1537													
2006												1.2860	1.3014	1.2568	1.2366	1.1862	1.1578														
2007												1.2856	1.2611	1.2196	1.2246	1.2320	1.2066	1.1716													
2008												1.2804	1.2700	1.2601	1.2753	1.2510	1.2213														
2009												1.2938	1.3148	1.3166	1.2517	1.2347	1.2193														
2010												1.8031	1.4523	1.3064	1.2721	1.2550	1.2716	1.2267													
2011												1.7023	1.3566	1.2786	1.2217	1.2469	1.1810														
2012												1.6971	1.4285	1.2849	1.2152	1.1706															
2013												1.7802	1.4048	1.2872	1.1932																
2014												1.7857	1.3836	1.2514																	
2015												1.7064	1.2747																		
2016												1.8588																			
AVERAGES																															
3 yr	1.7836	1.3544	1.2745	1.2100	1.2242	1.2348	1.2456	1.2341	1.2215	1.2037	1.1680	1.1939	1.1715	1.1686	1.1299	1.1304	1.0905	1.0854	1.1031	1.1052	1.0748	1.0584	1.0493	1.0339	1.0372	1.0392	1.0385	1.0307			
4 yr	1.7828	1.3729	1.2755	1.2256	1.2473	1.2411	1.2403	1.2398	1.2274	1.1952	1.1794	1.1804	1.1760	1.1600	1.1219	1.1186	1.0963	1.1080	1.0969	1.0981	1.0777	1.0491	1.0444	1.0471	1.0375	1.0318	1.0471	1.0312			
5 yr	1.7656	1.3696	1.2817	1.2434	1.2518	1.2368	1.2525	1.2364	1.2152	1.2020	1.1745	1.1748	1.1739	1.1445	1.1144	1.1193	1.1091	1.1055	1.0982	1.0959	1.0658	1.0462	1.0479	1.0464	1.0314	1.0409	1.0451	1.0312			
ALL	1.7619	1.3901	1.2890	1.2547	1.2605	1.2535	1.2461	1.2347	1.2243	1.2029	1.1884	1.1752	1.1545	1.1397	1.1369	1.1358	1.1143	1.1122	1.0875	1.0817	1.0716	1.0538	1.0445	1.0519	1.0497	1.0418	1.0451	1.0312			
Selected	1.7828	1.3729	1.2755	1.2256	1.2473	1.2411	1.2403	1.2398	1.2274	1.1952	1.1794	1.1804	1.1760	1.1600	1.1219	1.1186	1.0963	1.1080	1.0969	1.0981	1.0777	1.0491	1.0444	1.0471	1.0375	1.0318	1.0471	1.0312			