

DELAWARE COMPENSATION RATING BUREAU, INC.

Excess Loss Pure Premium Factors
Adjusted to Include Allocated Loss Adjustment Expenses

Average excess loss pure premium ratios by hazard group and loss limitation are derived in Exhibit 17b. Those same excess ratios are presented herein and adjusted to include a provision for allocated loss adjustment expenses.

Pages 1 and 2 show the calculation of excess ratios for hazard groups A-G.

These factors are applicable to voluntary market loss costs.

DELAWARE

Excess Loss Factor Study

Excess Loss (Pure Premium) Factors with Adjustment for ALAE

Loss Limitation	DE Hazard Group Excess Loss Factors							ELF adjusted for LBA's							ELF adjusted for LBA's & Risk Load						
								0.9220													
	HG A (1) Pg2	HG B (2) Pg3	HG C (3) Pg4	HG D (4) Pg5	HG E (5) Pg6	HG F (6) Pg7	HG G (7) Pg8	TCR (1)*TCR	HG B (9) (1)*TCR	HG C (10) (2)*TCR	HG D (11) (3)*TCR	HG E (12) (4)*TCR	HG F (13) (5)*TCR	HG G (14) (6)*TCR	HG A (15)	HG B (16)	HG C (17)	HG D (18)	HG E (19)	HG F (20)	HG G (21)
\$10,000	0.862	0.898	0.898	0.918	0.933	0.948	0.951	0.795	0.828	0.828	0.846	0.860	0.874	0.877	0.800	0.833	0.833	0.851	0.865	0.879	0.882
\$15,000	0.829	0.870	0.870	0.895	0.912	0.931	0.935	0.764	0.802	0.802	0.825	0.841	0.858	0.862	0.769	0.807	0.807	0.830	0.846	0.863	0.867
\$20,000	0.799	0.845	0.846	0.875	0.894	0.917	0.921	0.737	0.779	0.780	0.807	0.824	0.845	0.849	0.742	0.784	0.785	0.812	0.829	0.850	0.854
\$25,000	0.774	0.824	0.827	0.856	0.879	0.903	0.909	0.714	0.760	0.762	0.789	0.810	0.833	0.838	0.719	0.765	0.767	0.794	0.815	0.838	0.843
\$30,000	0.751	0.805	0.808	0.840	0.862	0.891	0.898	0.692	0.742	0.745	0.774	0.795	0.822	0.828	0.697	0.747	0.750	0.779	0.800	0.827	0.833
\$35,000	0.730	0.787	0.790	0.826	0.850	0.878	0.886	0.673	0.726	0.728	0.762	0.784	0.810	0.817	0.678	0.731	0.733	0.767	0.789	0.815	0.822
\$40,000	0.711	0.771	0.774	0.811	0.837	0.868	0.876	0.656	0.711	0.714	0.748	0.772	0.800	0.808	0.661	0.716	0.719	0.753	0.777	0.805	0.813
\$50,000	0.678	0.742	0.745	0.786	0.813	0.848	0.857	0.625	0.684	0.687	0.725	0.750	0.782	0.790	0.630	0.689	0.692	0.730	0.755	0.787	0.795
\$75,000	0.613	0.683	0.687	0.732	0.764	0.803	0.816	0.565	0.630	0.633	0.675	0.704	0.740	0.752	0.570	0.635	0.638	0.680	0.709	0.745	0.757
\$100,000	0.562	0.636	0.642	0.691	0.723	0.767	0.780	0.518	0.586	0.592	0.637	0.667	0.707	0.719	0.523	0.591	0.597	0.642	0.672	0.712	0.724
\$125,000	0.519	0.597	0.604	0.654	0.689	0.735	0.750	0.479	0.550	0.557	0.603	0.635	0.678	0.692	0.484	0.555	0.562	0.608	0.640	0.683	0.697
\$150,000	0.483	0.563	0.570	0.622	0.658	0.708	0.723	0.445	0.519	0.526	0.573	0.607	0.653	0.667	0.450	0.524	0.531	0.578	0.612	0.658	0.672
\$175,000	0.453	0.533	0.541	0.595	0.632	0.682	0.698	0.418	0.491	0.499	0.549	0.583	0.629	0.644	0.423	0.496	0.504	0.554	0.588	0.634	0.649
\$200,000	0.423	0.508	0.515	0.571	0.608	0.660	0.677	0.390	0.468	0.475	0.526	0.561	0.609	0.624	0.395	0.473	0.480	0.531	0.566	0.614	0.629
\$225,000	0.395	0.481	0.492	0.547	0.587	0.638	0.656	0.364	0.443	0.454	0.504	0.541	0.588	0.605	0.369	0.448	0.459	0.509	0.546	0.593	0.610
\$250,000	0.371	0.457	0.468	0.526	0.565	0.620	0.638	0.342	0.421	0.431	0.485	0.521	0.572	0.588	0.347	0.426	0.436	0.490	0.526	0.577	0.593
\$275,000	0.347	0.436	0.448	0.507	0.547	0.600	0.621	0.320	0.402	0.413	0.467	0.504	0.553	0.573	0.325	0.407	0.418	0.472	0.509	0.558	0.578
\$300,000	0.322	0.413	0.427	0.487	0.528	0.583	0.604	0.297	0.381	0.394	0.449	0.487	0.538	0.557	0.302	0.386	0.399	0.454	0.492	0.543	0.562
\$325,000	0.300	0.390	0.407	0.469	0.510	0.567	0.587	0.277	0.360	0.375	0.432	0.470	0.523	0.541	0.282	0.365	0.380	0.437	0.475	0.528	0.546
\$350,000	0.281	0.372	0.388	0.452	0.495	0.552	0.573	0.259	0.343	0.358	0.417	0.456	0.509	0.528	0.264	0.348	0.363	0.422	0.461	0.514	0.533
\$375,000	0.262	0.353	0.369	0.433	0.478	0.537	0.558	0.242	0.325	0.340	0.399	0.441	0.495	0.514	0.247	0.330	0.345	0.404	0.446	0.500	0.519
\$400,000	0.245	0.336	0.352	0.417	0.463	0.523	0.545	0.226	0.310	0.325	0.384	0.427	0.482	0.502	0.231	0.315	0.330	0.389	0.432	0.487	0.507
\$425,000	0.229	0.320	0.335	0.401	0.447	0.509	0.532	0.211	0.295	0.309	0.370	0.412	0.469	0.491	0.216	0.300	0.314	0.375	0.417	0.474	0.496
\$450,000	0.213	0.303	0.320	0.385	0.432	0.495	0.520	0.196	0.279	0.295	0.355	0.398	0.456	0.479	0.201	0.284	0.300	0.360	0.403	0.461	0.484
\$475,000	0.199	0.288	0.304	0.371	0.417	0.481	0.507	0.183	0.266	0.280	0.342	0.384	0.443	0.467	0.188	0.271	0.285	0.347	0.389	0.448	0.472
\$500,000	0.186	0.275	0.290	0.357	0.404	0.469	0.495	0.171	0.254	0.267	0.329	0.372	0.432	0.456	0.176	0.259	0.272	0.334	0.377	0.437	0.461
\$600,000	0.143	0.226	0.242	0.306	0.354	0.420	0.448	0.132	0.208	0.223	0.282	0.326	0.387	0.413	0.137	0.213	0.228	0.287	0.331	0.392	0.418
\$700,000	0.110	0.191	0.201	0.263	0.311	0.377	0.407	0.101	0.176	0.185	0.242	0.287	0.348	0.375	0.106	0.181	0.190	0.247	0.292	0.353	0.380
\$800,000	0.081	0.161	0.170	0.230	0.274	0.339	0.369	0.075	0.148	0.157	0.212	0.253	0.313	0.340	0.080	0.153	0.162	0.217	0.258	0.318	0.345
\$900,000	0.062	0.138	0.145	0.201	0.244	0.307	0.336	0.057	0.127	0.134	0.185	0.225	0.283	0.310	0.062	0.132	0.139	0.190	0.230	0.288	0.315
\$1,000,000	0.0502	0.1202	0.1245	0.1766	0.2166	0.2782	0.3069	0.0463	0.1108	0.1148	0.1628	0.1997	0.2565	0.2830	0.0513	0.1158	0.1198	0.1678	0.2047	0.2615	0.2880
\$2,000,000	0.0290	0.0704	0.0738	0.1074	0.1332	0.1800	0.2053	0.0267	0.0649	0.0680	0.0990	0.1228	0.1660	0.1893	0.0317	0.0699	0.0730	0.1040	0.1278	0.1710	0.1943
\$3,000,000	0.0210	0.0512	0.0539	0.0796	0.0996	0.1383	0.1614	0.0194	0.0472	0.0497	0.0734	0.0918	0.1275	0.1488	0.0244	0.0522	0.0547	0.0784	0.0968	0.1325	0.1538
\$4,000,000	0.0166	0.0407	0.0432	0.0638	0.0804	0.1135	0.1347	0.0153	0.0375	0.0398	0.0588	0.0741	0.1046	0.1242	0.0203	0.0425	0.0448	0.0638	0.0791	0.1096	0.1292
\$5,000,000	0.0139	0.0341	0.0361	0.0540	0.0680	0.0971	0.1166	0.0128	0.0314	0.0333	0.0498	0.0627	0.0895	0.1075	0.0178	0.0364	0.0383	0.0548	0.0677	0.0945	0.1125
\$6,000,000	0.0119	0.0292	0.0312	0.0466	0.0591	0.0851	0.1028	0.0110	0.0269	0.0288	0.0430	0.0545	0.0785	0.0948	0.0160	0.0319	0.0338	0.0480	0.0595	0.0835	0.0998
\$7,000,000	0.0104	0.0257	0.0276	0.0413	0.0524	0.0759	0.0924	0.0096	0.0237	0.0254	0.0381	0.0483	0.0700	0.0852	0.0144	0.0287	0.0304	0.0431	0.0533	0.0750	0.0902
\$8,000,000	0.0092	0.0227	0.0247	0.0369	0.0472	0.0687	0.0838	0.0085	0.0209	0.0228	0.0340	0.0435	0.0633	0.0773	0.0128	0.0259	0.0278	0.0390	0.0485	0.0683	0.0823
\$9,000,000	0.0081	0.0203	0.0222	0.0336	0.0429	0.0626	0.0767	0.0075	0.0187	0.0205	0.0310	0.0396	0.0577	0.0707	0.0113	0.0237	0.0255	0.0360	0.0446	0.0627	0.0757
\$10,000,000	0.0071	0.0184	0.0199	0.0306	0.0392	0.0576	0.0709	0.0065	0.0170	0.0183	0.0282	0.0361	0.0531	0.0654	0.0098	0.0220	0.0233	0.0332	0.0411	0.0581	0.0704

* Excess ratios for loss limits above \$1,000,000 are calculated by applying the relativities from Exhibit III to the excess ratios at \$1,000,000.

DELAWARE

EXCESS LOSS FACTOR STUDY

PROPOSED EFFECTIVE DATE: 12/1/16

Excess Loss (Pure Premium) Factors with Adjustment for ALAE

Per Accident Limit	2016 Excess Loss Factors*							2015 Excess Loss Factors							Percentage Change						
	A	B	C	D	E	F	G	A	B	C	D	E	F	G	A	B	C	D	E	F	G
\$10,000	0.800	0.833	0.833	0.851	0.865	0.879	0.882	0.793	0.823	0.824	0.842	0.861	0.878	0.886	0.9%	1.2%	1.1%	1.1%	0.5%	0.1%	-0.5%
\$15,000	0.769	0.807	0.807	0.830	0.846	0.863	0.867	0.761	0.797	0.799	0.819	0.844	0.863	0.875	1.1%	1.3%	1.0%	1.3%	0.2%	0.0%	-0.9%
\$20,000	0.742	0.784	0.785	0.812	0.829	0.850	0.854	0.734	0.774	0.778	0.802	0.828	0.851	0.864	1.1%	1.3%	0.9%	1.2%	0.1%	-0.1%	-1.2%
\$25,000	0.719	0.765	0.767	0.794	0.815	0.838	0.843	0.710	0.755	0.759	0.785	0.814	0.840	0.855	1.3%	1.3%	1.1%	1.1%	0.1%	-0.2%	-1.4%
\$30,000	0.697	0.747	0.750	0.779	0.800	0.827	0.833	0.689	0.737	0.741	0.770	0.800	0.829	0.846	1.2%	1.4%	1.2%	1.2%	0.0%	-0.2%	-1.5%
\$35,000	0.678	0.731	0.733	0.766	0.789	0.815	0.822	0.670	0.719	0.726	0.756	0.788	0.818	0.837	1.2%	1.7%	1.0%	1.3%	0.1%	-0.4%	-1.8%
\$40,000	0.661	0.716	0.719	0.753	0.777	0.805	0.813	0.652	0.704	0.711	0.743	0.776	0.808	0.829	1.4%	1.7%	1.1%	1.3%	0.1%	-0.4%	-1.9%
\$50,000	0.630	0.689	0.692	0.730	0.755	0.787	0.795	0.624	0.678	0.685	0.718	0.754	0.789	0.813	1.0%	1.6%	1.0%	1.7%	0.1%	-0.3%	-2.2%
\$75,000	0.570	0.635	0.638	0.680	0.709	0.745	0.757	0.565	0.624	0.632	0.670	0.711	0.750	0.778	0.9%	1.8%	0.9%	1.5%	-0.3%	-0.7%	-2.7%
\$100,000	0.523	0.591	0.597	0.642	0.672	0.712	0.724	0.518	0.582	0.592	0.630	0.674	0.717	0.748	1.0%	1.5%	0.8%	1.9%	-0.3%	-0.7%	-3.2%
\$125,000	0.484	0.555	0.562	0.608	0.640	0.683	0.697	0.479	0.544	0.556	0.597	0.645	0.686	0.721	1.0%	2.0%	1.1%	1.8%	-0.8%	-0.4%	-3.3%
\$150,000	0.450	0.524	0.531	0.578	0.612	0.658	0.672	0.448	0.514	0.526	0.569	0.616	0.662	0.698	0.4%	1.9%	1.0%	1.6%	-0.6%	-0.6%	-3.7%
\$175,000	0.423	0.496	0.504	0.554	0.588	0.634	0.649	0.416	0.485	0.500	0.543	0.592	0.639	0.675	1.7%	2.3%	0.8%	2.0%	-0.7%	-0.8%	-3.9%
\$200,000	0.395	0.472	0.480	0.531	0.566	0.614	0.629	0.388	0.460	0.475	0.520	0.570	0.618	0.657	1.8%	2.6%	1.1%	2.1%	-0.7%	-0.6%	-4.3%
\$225,000	0.369	0.448	0.458	0.509	0.546	0.593	0.610	0.361	0.437	0.451	0.497	0.550	0.600	0.639	2.2%	2.5%	1.6%	2.4%	-0.7%	-1.2%	-4.5%
\$250,000	0.347	0.427	0.436	0.490	0.526	0.576	0.593	0.336	0.413	0.430	0.478	0.530	0.582	0.623	3.3%	3.4%	1.4%	2.5%	-0.8%	-1.0%	-4.8%
\$275,000	0.325	0.406	0.418	0.472	0.509	0.558	0.578	0.314	0.391	0.408	0.459	0.513	0.564	0.606	3.5%	3.8%	2.5%	2.8%	-0.8%	-1.1%	-4.6%
\$300,000	0.303	0.386	0.399	0.454	0.492	0.543	0.562	0.291	0.370	0.389	0.441	0.495	0.549	0.592	4.1%	4.3%	2.6%	2.9%	-0.6%	-1.1%	-5.1%
\$325,000	0.282	0.365	0.381	0.437	0.475	0.528	0.548	0.271	0.350	0.369	0.422	0.479	0.534	0.577	4.1%	4.3%	3.3%	3.6%	-0.8%	-1.1%	-5.0%
\$350,000	0.264	0.348	0.363	0.421	0.461	0.514	0.533	0.252	0.331	0.350	0.404	0.462	0.519	0.564	4.8%	5.1%	3.7%	4.2%	-0.2%	-1.0%	-5.5%
\$375,000	0.247	0.330	0.345	0.404	0.446	0.500	0.519	0.234	0.312	0.333	0.387	0.447	0.505	0.551	5.6%	5.8%	3.6%	4.4%	-0.2%	-1.0%	-5.8%
\$400,000	0.231	0.315	0.330	0.389	0.432	0.487	0.507	0.217	0.295	0.317	0.370	0.432	0.491	0.538	6.5%	6.8%	4.1%	5.1%	0.0%	-0.8%	-5.8%
\$425,000	0.216	0.300	0.314	0.375	0.417	0.474	0.496	0.201	0.279	0.301	0.356	0.417	0.478	0.526	7.5%	7.5%	4.3%	5.3%	0.0%	-0.8%	-5.7%
\$450,000	0.201	0.286	0.300	0.360	0.403	0.461	0.484	0.186	0.264	0.285	0.342	0.403	0.464	0.513	8.1%	8.3%	5.3%	5.3%	0.0%	-0.6%	-5.7%
\$475,000	0.188	0.271	0.285	0.347	0.389	0.449	0.473	0.173	0.249	0.271	0.328	0.390	0.451	0.502	8.7%	8.8%	5.2%	5.8%	-0.3%	-0.4%	-5.8%
\$500,000	0.176	0.259	0.272	0.334	0.377	0.437	0.461	0.161	0.237	0.258	0.314	0.376	0.438	0.490	9.3%	9.3%	5.4%	6.4%	0.3%	-0.2%	-5.9%
\$600,000	0.137	0.213	0.228	0.287	0.331	0.392	0.418	0.122	0.192	0.211	0.265	0.328	0.392	0.447	12.3%	10.9%	8.1%	8.3%	0.9%	0.0%	-6.5%
\$700,000	0.106	0.181	0.190	0.247	0.292	0.353	0.380	0.092	0.157	0.174	0.225	0.287	0.350	0.406	15.2%	15.3%	9.2%	9.8%	1.7%	0.9%	-6.4%
\$800,000	0.080	0.153	0.162	0.217	0.258	0.318	0.345	0.071	0.134	0.145	0.193	0.253	0.315	0.370	12.7%	14.2%	11.7%	12.4%	2.0%	1.0%	-6.8%
\$900,000	0.062	0.132	0.139	0.190	0.230	0.288	0.315	0.056	0.114	0.122	0.168	0.223	0.284	0.338	10.7%	15.8%	13.9%	13.1%	3.1%	1.4%	-6.8%
\$1,000,000	0.0513	0.1158	0.1198	0.1678	0.2047	0.2615	0.2880	0.0453	0.0991	0.1044	0.1448	0.1989	0.2568	0.3101	13.2%	16.9%	14.8%	15.9%	2.9%	1.8%	-7.1%
\$2,000,000	0.0317	0.0699	0.0730	0.1040	0.1278	0.1710	0.1943	0.0278	0.0588	0.0629	0.0887	0.1229	0.1656	0.2064	14.0%	18.9%	16.1%	17.2%	4.0%	3.3%	-5.9%
\$3,000,000	0.0244	0.0522	0.0547	0.0784	0.0968	0.1325	0.1538	0.0211	0.0430	0.0462	0.0655	0.0917	0.1268	0.1618	15.6%	21.4%	18.4%	19.7%	5.6%	4.5%	-4.9%
\$4,000,000	0.0203	0.0425	0.0448	0.0638	0.0791	0.1096	0.1292	0.0173	0.0343	0.0370	0.0527	0.0735	0.1032	0.1341	17.3%	23.9%	21.1%	21.1%	7.6%	6.2%	-3.7%
\$5,000,000	0.0178	0.0364	0.0383	0.0548	0.0677	0.0945	0.1125	0.0150	0.0289	0.0313	0.0441	0.0617	0.0874	0.1145	18.7%	26.0%	22.4%	24.3%	9.7%	8.1%	-1.7%
\$6,000,000	0.0160	0.0319	0.0338	0.0480	0.0595	0.0835	0.0998	0.0126	0.0250	0.0273	0.0380	0.0535	0.0755	0.0999	27.0%	27.6%	23.8%	26.3%	11.2%	10.6%	-0.1%
\$7,000,000	0.0144	0.0287	0.0304	0.0431	0.0533	0.0750	0.0902	0.0108	0.0222	0.0241	0.0336	0.0471	0.0670	0.0886	33.3%	29.3%	26.1%	28.3%	13.2%	11.9%	1.8%
\$8,000,000	0.0128	0.0259	0.0278	0.0390	0.0485	0.0683	0.0823	0.0093	0.0201	0.0217	0.0303	0.0420	0.0599	0.0797	37.6%	28.9%	28.1%	28.7%	15.5%	14.0%	3.3%
\$9,000,000	0.0113	0.0237	0.0255	0.0360	0.0446	0.0627	0.0757	0.0080	0.0185	0.0199	0.0274	0.0381	0.0541	0.0721	41.3%	28.1%	28.1%	31.4%	17.1%	15.9%	5.0%
\$10,000,000	0.0098	0.0220	0.0233	0.0332	0.0411	0.0581	0.0704	0.0071	0.0168	0.0183	0.0251	0.0348	0.0493	0.0663	38.0%	31.0%	27.3%	32.3%	18.1%	17.8%	6.2%

* Adjusted