

DELAWARE COMPENSATION RATING BUREAU, INC.

Loss Development Triangles – Unlimited Losses

Pages 1 through 3 of this exhibit display indemnity triangles for incurred and paid loss development factors and the ratios of incurred to paid losses. Reported indemnity losses are not adjusted as there are no reforms impacting these losses.

Pages 4 through 8 of this exhibit display medical triangles on a reported basis and a post-House Bill 373 basis for incurred and paid loss development factors and the ratios of incurred to paid losses.



Policy Year	INDEMNITY PAID																																					
	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	29/30									
1986																					1.0049	1.0113	1.0165	1.0024	1.0027	1.0013	1.0024	1.0027	1.0025									
1987																					1.0006	1.0112	1.0041	1.0096	1.0016	0.9864	1.0026	1.0022	1.0012	1.0087								
1988																					1.0032	1.0032	1.0064	1.0032	1.0024	1.0080	1.0022	1.0070	1.0013	1.0009	1.0013							
1989																					1.0043	1.0052	1.0071	1.0127	1.0045	1.0083	1.0053	1.0064	1.0023	1.0116	1.0021	1.0035						
1990																					1.0198	1.0587	1.0036	1.0025	1.0034	1.0067	1.0033	1.0038	1.0033	1.0034	1.0059	1.0022	1.0029					
1991																					1.0065	1.0126	1.0050	1.0016	1.0058	1.0034	1.0239	1.0061	1.0013	1.0027	1.0032	1.0030	1.0022	1.0024				
1992																					1.0032	1.0105	1.0099	1.0006	1.0087	1.0010	1.0006	1.0006	1.0014	1.0006	1.0004	1.0004	1.0007	1.0008	1.0006			
1993																					1.0174	1.0153	1.0067	1.0068	1.0076	1.0032	1.0097	1.0055	1.0020	1.0035	1.0024	1.0024	1.0044	1.0022	1.0022	1.0027		
1994																					1.0158	1.0084	1.0063	1.0080	1.0055	1.0030	1.0473	1.0033	1.0154	1.0023	1.0023	1.0022	1.0021	1.0024	1.0022	1.0013	1.0009	
1995																					1.0025	1.0077	1.0117	1.0071	1.0030	1.0042	1.0013	1.0024	1.0022	1.0023	1.0023	1.0022	1.0021	1.0016	1.0016	1.0007	1.0007	
1996																					1.0066	1.0107	1.0232	1.0162	1.0113	1.0128	1.0035	1.0035	1.0030	1.0027	1.0024	1.0025	1.0014	1.0046	1.0013	1.0007	1.0007	
1997																					1.0221	1.0092	1.0100	1.0140	1.0136	1.0089	1.0037	1.0028	1.0055	1.0025	1.0043	1.0242	1.0014	1.0014	1.0012	1.0012		
1998																					1.0147	1.0066	1.0107	1.0232	1.0162	1.0113	1.0128	1.0035	1.0035	1.0030	1.0027	1.0024	1.0025	1.0014	1.0046	1.0013	1.0007	1.0007
1999																					1.0221	1.0092	1.0100	1.0140	1.0136	1.0089	1.0037	1.0028	1.0055	1.0025	1.0043	1.0242	1.0014	1.0014	1.0012	1.0012		
2000																					1.0437	1.0262	1.0263	1.0130	1.0108	1.0121	1.0086	1.0103	1.0023	1.0118	1.0019	1.0057	1.0011	1.0104	1.0050	1.0005	1.0005	
2001																					1.0281	1.0273	1.0525	1.0285	1.0114	1.0126	1.0112	1.0092	1.0057	1.0023	1.0017	0.9980	1.0021	1.0016	1.0010	1.0009	1.0000	1.0000
2002																					1.0602	1.0279	1.0420	1.0146	1.0184	1.0375	1.0110	1.0035	1.0024	1.0028	1.0018	1.0020	1.0018	1.0099	1.0000	1.0000	1.0000	
2003																					1.0898	1.0513	1.0515	1.0380	1.0202	1.0193	1.0340	1.0075	1.0073	1.0091	1.0030	1.0024	1.0068	1.0024	1.0026	1.0041	1.0000	1.0000
2004																					1.1601	1.1120	1.0708	1.0513	1.0295	1.0350	1.0174	1.0091	1.0062	1.0067	1.0095	1.0067	1.0033	1.0022	1.0074	1.0009	1.0000	1.0000
2005																					1.4781	1.1956	1.0975	1.0919	1.0336	1.0347	1.0279	1.0181	1.0289	1.0067	1.0023	1.0025	1.0093	1.0022	1.0038	1.0014	1.0014	1.0014
2006																					1.8847	1.4826	1.1983	1.1223	1.0765	1.0528	1.0547	1.0410	1.0226	1.0147	1.0050	1.0118	1.0069	1.0031	1.0022	1.0016	1.0016	1.0016
2007																					2.0614	1.4295	1.1749	1.1236	1.0797	1.0310	1.0198	1.0377	1.0111	1.0225	1.0115	1.0150	1.0091	1.0056	1.0025	1.0025	1.0025	1.0025
2008																					2.1875	1.4406	1.2038	1.1179	1.0540	1.0401	1.0189	1.0209	1.0362	1.0138	1.0176	1.0092	1.0008	1.0034	1.0016	1.0016	1.0016	1.0016
2009																					2.1017	1.5144	1.1856	1.1210	1.0897	1.0598	1.0735	1.0386	1.0088	1.0208	1.0071	1.0059	1.0142	1.0016	1.0016	1.0016	1.0016	1.0016
2010																					1.9083	1.5790	1.2023	1.0895	1.0531	1.0540	1.0346	1.0223	1.0056	1.0151	1.0072	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	
2011																					2.0197	1.3949	1.1642	1.0542	1.0540	1.0498	1.0203	1.0089	1.0101	1.0019	1.0026	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	
2012																					2.0411	1.4470	1.2339	1.0971	1.0440	1.0396	1.0370	1.0177	1.0112	1.0011	1.0011	1.0011	1.0011	1.0011	1.0011	1.0011	1.0011	1.0011
2013																					1.8383	1.3806	1.2102	1.0914	1.0416	1.0253	1.0138	1.0122	1.0075	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016
2014																					1.9444	1.4071	1.1604	1.0603	1.0767	1.0198	1.0238	0.9909	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016
2015																					2.0932	1.2811	1.1417	1.0685	1.0438	1.0184	1.0071	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016
2016																					2.0047	1.4328	1.1989	1.0877	1.0299	1.0168	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016
2017																					1.8234	1.4053	1.1537	1.0631	1.0310	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016
2018																					1.9789	1.4207	1.1812	1.0529	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016
2019																					1.9325	1.4091	1.2642	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016
2020																					1.9093	1.3649	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016
2021																					2.0353	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	

AVERAGES	3 year	4 year	5 year	8 year	All Available	Last Year Selected	Last Year Cumulative	Selected*	Cumulative	20th-Tail																										
3 year	1.9590	1.3982	1.1997	1.0679	1.0349	1.0183	1.0149	1.0069	1.0096	1.0060	1.0056	1.0050	1.0080	1.0040	1.0023	1.0025	1.0037	1.0018	1.0052	1.0038	1.0005	1.0004	1.0008	1.0023	1.0014	1.0015	1.0014	1.0013	1.0019	1.0019	1.0019	1.0019	1.0019	1.0019		
4 year	1.9640	1.4000	1.1995	1.0681	1.0454	1.0201	1.0204	1.0074	1.0086	1.0097	1.0086	1.0075	1.0078	1.0054	1.0026	1.0036	1.0033	1.0019	1.0042	1.0029	1.0010	1.0064	1.0009	1.0023	1.0016	1.0022	1.0012	1.0015	1.0015	1.0015	1.0015	1.0015	1.0015	1.0015	1.0015	
5 year	1.9359	1.4066	1.1879	1.0665	1.0446	1.0240	1.0204	1.0104	1.0086	1.0105	1.0092	1.0083	1.0067	1.0056	1.0025	1.0032	1.0022	1.0026	1.0033	1.0026	1.0017	1.0056	1.0012	1.0022	1.0018	1.0019	1.0016	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017	
8 year	1.9652	1.3877	1.1930	1.0719	1.0468	1.0354	1.0286	1.0187	1.0141	1.0149	1.0080	1.0073	1.0070	1.0049	1.0025	1.0050	1.0025	1.0029	1.0033	1.0026	1.0036	1.0043	1.0021	1.0019	1.0019	1.0019	1.0023	1.0033	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016	1.0016
All Available	1.9853	1.4292	1.1893	1.0905	1.0591	1.0395	1.0315	1.0265	1.0177	1.0152	1.0115	1.0088	1.0104	1.0080	1.0056	1.0070	1.0054	1.0067	1.0063	1.0034	1.0048	1.0059	1.0045	1.0028	1.0011	1.0026	1.0031	1.0016	1.0031	1.0016	1.0031	1.0016	1.0031	1.0016	1.0031	

INDEMNITY INCURRED - PAID RATIO

Policy Year	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	21st	22nd	23rd	24th	25th	26th	27th	28th	29th	30th						
1986																					1.0291	1.0283	1.0311	1.0258	1.0290	1.0339	1.0302	1.0312	1.0310	1.0317						
1987																					1.0248	1.0263	1.0244	1.0151	1.0143	1.0126	1.0137	1.0093	1.0068	1.0072	1.0060					
1988																					1.0583	1.0564	1.0479	1.0437	1.0512	1.0577	1.0507	1.0451	1.0308	1.0277	1.0256					
1989																			1.0699	1.0460	1.0424	1.0417	1.0371	1.0336	1.0322	1.0467	1.0429	1.0426	1.0347	1.0327	1.0275					
1990																				1.0533	1.0433	1.0588	1.0591	1.0510	1.0471	1.0385	1.0312	1.0258	1.0220	1.0216	1.0202	1.0189				
1991																				1.0225	1.0165	1.0117	1.0173	1.0079	1.0066	1.0067	1.0081	1.0076	1.0067	1.0063	1.0063	1.0050	1.0044	1.0054		
1992																				1.0585	1.0492	1.0461	1.0404	1.0461	1.0325	1.0284	1.0266	1.0249	1.0221	1.0181	1.0252	1.0232	1.0216	1.0202	1.0193	
1993																				1.0575	1.0702	1.0722	1.0917	1.0652	1.0888	1.0428	1.0494	1.0302	1.0331	1.0349	1.0353	1.0334	1.0283	1.0266	1.0296	
1994																				1.0625	1.0631	1.0443	1.0413	1.0385	1.0351	1.0540	1.0482	1.0457	1.0440	1.0425	1.0397	1.0193	1.0189	1.0171	1.0068	
1995																				1.0734	1.0749	1.0708	1.0597	1.0541	1.0423	1.0315	1.0337	1.0316	1.0290	1.0245	1.0208	1.0194	1.0156	1.0132	1.0134	
1996																				1.1709	1.1342	1.1268	1.1172	1.1064	1.0914	1.0847	1.0550	1.0534	1.0493	1.0476	1.0461	1.0205	1.0209	1.0194	1.0188	
1997																				1.0785	1.0655	1.0556	1.0463	1.0413	1.0368	1.0316	1.0205	1.0201	1.0137	1.0158	1.0143	1.0117	1.0122	1.0119	1.0124	
1998																				1.0698	1.0590	1.0536	1.0400	1.0555	1.0265	1.0126	1.0157	1.0071	1.0059	1.0005	1.0005	1.0005	1.0005	1.0000		
1999																				1.1346	1.1506	1.1091	1.0855	1.0718	1.0815	1.0679	1.0493	1.0440	1.0312	1.0290	1.0231	1.0225	1.0133	1.0118	1.0135	
2000																				1.1286	1.1259	1.0904	1.0773	1.0652	1.0560	1.0370	1.0424	1.0385	1.0301	1.0288	1.0321	1.0297	1.0272	1.0261	1.0237	
2001																				1.2060	1.1565	1.1342	1.1041	1.1008	1.0889	1.0590	1.0425	1.0392	1.0367	1.0351	1.0325	1.0307	1.0275	1.0118	1.0065	
2002																				1.1961	1.1451	1.1222	1.1025	1.0925	1.0807	1.0705	1.0601	1.0543	1.0438	1.0392	1.0312	1.0292	1.0272	1.0271	1.0225	
2003																				1.3114	1.2148	1.1510	1.1028	1.0944	1.0605	1.0530	1.0444	1.0439	1.0294	1.0269	1.0222	1.0195	1.0169	1.0121	1.0128	
2004																				1.4492	1.3216	1.2495	1.1628	1.1308	1.0993	1.0699	1.0553	1.0241	1.0225	1.0214	1.0247	1.0156	1.0127	1.0114	1.0119	
2005																				1.8294	1.4538	1.2965	1.2363	1.1676	1.1454	1.1042	1.0767	1.0626	1.0447	1.0360	1.0287	1.0231	1.0199	1.0174	1.0159	
2006																				2.7403	1.8662	1.5491	1.3126	1.1892	1.1331	1.1390	1.1310	1.0972	1.0812	1.0591	1.0523	1.0348	1.0273	1.0249	1.0227	
2007																				2.6674	1.7081	1.4122	1.2176	1.1458	1.1147	1.0901	1.0768	1.0626	1.0534	1.0426	1.0374	1.0284	1.0259	1.0231		
2008																				2.9395	1.8807	1.5638	1.4003	1.3108	1.2073	1.1553	1.0951	1.0786	1.0837	1.0708	1.0655	1.0582	1.0532			
2009																				2.7021	1.8815	1.4950	1.2696	1.1478	1.1124	1.0896	1.0574	1.0574	1.0476	1.0288	1.0272	1.0290				
2010																				2.5938	1.6538	1.3009	1.1647	1.1305	1.0832	1.0513	1.0299	1.0242	1.0135	1.0087	1.0075					
2011																				2.7996	1.8102	1.3904	1.2219	1.1462	1.1090	1.0912	1.0743	1.0600	1.0514	1.0488						
2012																				2.3937	1.6775	1.4042	1.1958	1.1217	1.0923	1.0810	1.0708	1.0563	1.0474							
2013																				2.5380	1.6530	1.2756	1.1649	1.1309	1.0578	1.0457	1.0364	1.0309								
2014																				2.1802	1.4965	1.2552	1.1352	1.1010	1.0629	1.0406	1.0283									
2015																				2.5547	1.8107	1.4296	1.2490	1.1526	1.1132	1.0831										
2016																				2.1447	1.5599	1.2904	1.1639	1.1151	1.1040											
2017																				2.5048	1.6494	1.3166	1.1939	1.1388												
2018																				2.3928	1.8616	1.4335	1.1720													
2019																				2.3038	1.6405	1.3368														
2020																				2.0310	1.3780															
2021																				2.1021																

AVERAGES	3 year	4 year	5 year	8 year	All Available																								
2.1456	1.6267	1.3623	1.1766	1.1355	1.0934	1.0565	1.0452	1.0491	1.0374	1.0288	1.0334	1.0385	1.0355	1.0226	1.0176	1.0147	1.0171	1.0225	1.0205	1.0153	1.0120	1.0087	1.0109	1.0158	1.0170	1.0196	1.0183	1.0181	1.0145
2.2074	1.6324	1.3443	1.1947	1.1269	1.0845	1.0626	1.0525	1.0429	1.0400	1.0393	1.0344	1.0376	1.0324	1.0209	1.0181	1.0184	1.0205	1.0243	1.0210	1.0116	1.0119	1.0117	1.0131	1.0167	1.0211	1.0205	1.0150	1.0186	1.0178
2.2669	1.6179	1.3614	1.1828	1.1277	1.0860	1.0683	1.0479	1.0458	1.0487	1.0399	1.0380	1.0358	1.0308	1.0211	1.0207	1.0212	1.0228	1.0240	1.0169	1.0121	1.0188	1.0135	1.0184	1.0204	1.0219	1.0177	1.0162	1.0214	1.0193
2.2768	1.6312	1.3427	1.1871	1.1296	1.0919	1.0797	1.0586	1.0584	1.0551	1.0410	1.0365	1.0355	1.0330	1.0273	1.0266	1.0216	1.0211	1.0235	1.0227	1.0229	1.0241	1.0210	1.0196	1.0191	1.0226	1.0247	1.0192	1.0216	1.0192
2.4743	1.7098	1.3973	1.2369	1.1704	1.1264	1.1033	1.0872	1.0739	1.0659	1.0607	1.0527	1.0507	1.0469	1.0410	1.0369	1.0354	1.0326	1.0362	1.0311	1.0295	1.0274	1.0241	1.0239	1.0249	1.0254	1.0237	1.0205	1.0216	1.0192





MEDICAL PAID (REPORTED)

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	29/30				
1986																					1.0041	1.0036	1.0167	1.0035	1.0024	1.0086	1.0033	1.0034	1.0015				
1987																				1.0130	1.0112	1.0166	1.0186	1.0218	1.0283	1.0092	1.0084	1.0124	1.0085				
1988																			1.0132	1.0080	1.0372	1.0073	1.0067	1.0075	1.0139	1.0048	1.0025	1.0010	1.0020				
1989																			1.0207	1.0343	1.0278	1.0214	1.0167	1.0151	1.0209	1.0222	1.0045	1.0201	1.0037	1.0066			
1990																		1.0135	1.0179	1.0162	1.0137	1.0079	1.0176	1.0082	1.0075	1.0039	1.0060	1.0079	1.0077	1.0171			
1991																		1.0102	1.0126	1.0045	1.0085	1.0052	1.0061	1.0072	1.0088	1.0018	1.0029	1.0060	1.0058	1.0050	1.0057		
1992																		1.0193	1.0173	1.0216	1.0210	1.0198	1.0250	1.0165	1.0176	1.0143	1.0069	1.0068	1.0101	1.0051	1.0032	1.0029	
1993																															1.0012	1.0012	
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AVERAGES

3 year	1.3892	1.1048	1.0573	1.0266	1.0328	1.0136	1.0107	1.0021	1.0077	1.0073	1.0056	1.0047	1.0051	1.0055	1.0054	1.0039	1.0042	1.0058	1.0027	1.0028	1.0015	1.0010	1.0022	1.0037	1.0018	1.0054	1.0053	1.0018	1.0033	
4 year	1.3721	1.1058	1.0567	1.0254	1.0300	1.0131	1.0092	1.0026	1.0090	1.0103	1.0058	1.0074	1.0062	1.0069	1.0056	1.0040	1.0061	1.0054	1.0054	1.0028	1.0036	1.0017	1.0020	1.0023	1.0031	1.0015	1.0055	1.0053	1.0026	1.0067
5 year	1.3649	1.1066	1.0520	1.0267	1.0280	1.0146	1.0089	1.0051	1.0098	1.0114	1.0075	1.0067	1.0070	1.0077	1.0065	1.0050	1.0062	1.0055	1.0024	1.0034	1.0030	1.0028	1.0026	1.0028	1.0025	1.0064	1.0054	1.0036	1.0067	
8 year	1.3659	1.1116	1.0526	1.0296	1.0298	1.0206	1.0163	1.0108	1.0150	1.0130	1.0092	1.0079	1.0099	1.0097	1.0072	1.0046	1.0054	1.0073	1.0032	1.0038	1.0041	1.0037	1.0046	1.0041	1.0033	1.0061	1.0072	1.0044	1.0057	
All Available	1.3748	1.1306	1.0683	1.0459	1.0399	1.0266	1.0255	1.0206	1.0202	1.0195	1.0173	1.0143	1.0124	1.0118	1.0114	1.0097	1.0094	1.0104	1.0094	1.0088	1.0093	1.0074	1.0063	1.0062	1.0062	1.0059	1.0072	1.0032	1.0059	

Policy Year	MEDICAL PAID (POST-HB 373)																																		
	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	29/30						
1986																					1.0056	1.0056	1.0259	1.0054	1.0037	1.0134	1.0053	1.0067	1.0032						
1987																				1.0176	1.0172	1.0253	1.0282	1.0327	1.0426	1.0141	1.0158	1.0249	1.0191						
1988																				1.0176	1.0121	1.0561	1.0108	1.0099	1.0112	1.0213	1.0090	1.0050	1.0022	1.0045					
1989																				1.0272	1.0511	1.0407	1.0310	1.0239	1.0218	1.0309	1.0401	1.0085	1.0432	1.0079	1.0140				
1990																				1.0175	1.0264	1.0237	1.0199	1.0114	1.0257	1.0123	1.0138	1.0076	1.0131	1.0176	1.0169	1.0372			
1991																1.0131	1.0184	1.0065	1.0123	1.0075	1.0089	1.0108	1.0162	1.0035	1.0065	1.0133	1.0128	1.0110	1.0125						
1992																1.0244	1.0248	1.0308	1.0297	1.0277	1.0352	1.0237	1.0310	1.0267	1.0143	1.0143	1.0210	1.0105	1.0066	1.0058					
1993																1.0266	1.0160	1.0247	1.0111	1.0161	1.0157	1.0247	1.0145	1.0121	1.0095	1.0219	1.0132	1.0119	1.0019	1.0019	1.0026				
1994																1.0308	1.0184	1.0271	1.0251	1.0157	1.0136	1.0260	1.0077	1.0181	1.0130	1.0098	1.0027	1.0017	1.0174	1.0015	1.0024				
1995																1.0263	1.0139	1.0179	1.0115	1.0296	1.0145	1.0069	1.0099	1.0057	1.0054	1.0077	1.0028	1.0032	1.0092	1.0296					
1996																1.0181	1.0263	1.0139	1.0179	1.0115	1.0296	1.0145	1.0069	1.0099	1.0057	1.0054	1.0077	1.0028	1.0032	1.0092	1.0296				
1997																1.0207	1.0270	1.0157	1.0200	1.0158	1.0179	1.0223	1.0100	1.0250	1.0067	1.0055	1.0168	1.0094	1.0076	1.0037	1.0026				
1998																1.0386	1.0124	1.0158	1.0172	1.0103	1.0104	1.0047	1.0133	1.0143	1.0206	1.0044	1.0049	1.0042	1.0008	1.0041	1.0033				
1999																1.0268	1.0313	1.0268	1.0164	1.0164	1.0142	1.0100	1.0155	1.0059	1.0031	1.0133	1.0014	1.0119	1.0009	1.0002	1.0014				
2000																1.0471	1.0698	1.0412	1.0398	1.0398	1.0352	1.0213	1.0254	1.0064	1.0065	1.0061	1.0115	1.0064	1.0059	1.0027	1.0049				
2001																1.0479	1.0312	1.0230	1.0245	1.0233	1.0212	1.0136	1.0312	1.0148	1.0097	1.0125	1.0076	1.0032	1.0031	1.0050					
2002																1.0626	1.0489	1.0634	1.0418	1.0296	1.0447	1.0683	1.0553	1.0216	1.0205	1.0225	1.0166	1.0206	1.0106	1.0040	1.0064				
2003																1.0897	1.0666	1.0553	1.0460	1.0280	1.0268	1.0292	1.0338	1.0235	1.0186	1.0242	1.0198	1.0107	1.0088	1.0115	1.0168				
2004																1.1689	1.0984	1.0886	1.0548	1.0122	1.0375	1.0280	1.0191	1.0430	1.0184	1.0108	1.0180	1.0195	1.0088	1.0079	1.0055				
2005																1.3597	1.1597	1.0741	1.0729	1.0691	1.0463	1.0456	1.0441	1.0419	1.0216	1.0190	1.0067	1.0162	1.0197	1.0123	1.0035				
2006																1.4473	1.1659	1.0767	1.0553	1.0466	1.0356	1.0335	1.0319	1.0396	1.0120	1.0236	1.0255	1.0099	1.0045	1.0062					
2007																1.4478	1.1514	1.0812	1.0888	1.0520	1.0513	1.0412	1.0231	1.0305	1.0242	1.0096	1.0111	1.0079	1.0028						
2008																1.4420	1.1790	1.1025	1.0575	1.0847	1.0631	1.0474	1.0367	1.0199	1.0283	1.0067	1.0100	1.0059							
2009																1.3999	1.1799	1.1357	1.0732	1.0471	1.0434	1.0376	1.0220	1.0188	1.0257	1.0164	0.9997								
2010																1.3549	1.1187	1.0814	1.0186	1.0599	1.0255	1.0112	1.0064	1.0089	1.0030	1.0013									
2011																1.3635	1.1743	1.0851	1.0659	1.0343	1.0295	1.0066	1.0083	1.0111	1.0033										
2012																1.4552	1.1890	1.0735	1.0598	1.0268	1.0150	1.0123	1.0086	1.0122											
2013																1.4064	1.1406	1.0519	1.0382	1.0260	1.0243	1.0225	0.9927												
2014																1.4244	1.1048	1.0368	1.0239	1.0122	1.0099	1.0043													
2015																1.3854	1.1129	1.0563	1.0426	1.0223	1.0117														
2016																1.3359	1.1090	1.0453	1.0165	1.0656															
2017																1.3210	1.0842	1.0699	1.0219																
2018																1.5355	1.1344	1.0567																	
2019																1.2580	1.0957																		
2020																1.3740																			
2021																																			

AVERAGES																														20th-Tail				
3 year	1.3892	1.1048	1.0573	1.0270	1.0334	1.0153	1.0130	1.0032	1.0107	1.0107	1.0081	1.0069	1.0079	1.0090	1.0091	1.0067	1.0075	1.0103	1.0048	1.0051	1.0029	1.0020	1.0044	1.0074	1.0036	1.0111	1.0110	1.0036	1.0070					
4 year	1.3721	1.1058	1.0571	1.0262	1.0315	1.0152	1.0114	1.0040	1.0128	1.0151	1.0085	1.0116	1.0100	1.0116	1.0095	1.0070	1.0108	1.0096	1.0052	1.0068	1.0032	1.0038	1.0047	1.0063	1.0031	1.0113	1.0109	1.0055	1.0145					
5 year	1.3649	1.1072	1.0530	1.0286	1.0306	1.0181	1.0114	1.0076	1.0142	1.0169	1.0115	1.0106	1.0116	1.0133	1.0113	1.0089	1.0111	1.0100	1.0044	1.0064	1.0059	1.0056	1.0053	1.0055	1.0051	1.0132	1.0113	1.0078	1.0144					
8 year	1.3801	1.1213	1.0594	1.0359	1.0368	1.0278	1.0229	1.0162	1.0229	1.0201	1.0148	1.0130	1.0170	1.0169	1.0128	1.0083	1.0099	1.0136	1.0059	1.0073	1.0081	1.0073	1.0091	1.0084	1.0068	1.0126	1.0153	1.0092	1.0124					
All Available	1.3944	1.1418	1.0760	1.0534	1.0477	1.0335	1.0327	1.0274	1.0275	1.0269	1.0239	1.0205	1.0185	1.0180	1.0171	1.0144	1.0144	1.0165	1.0143	1.0140	1.0146	1.0128	1.0133	1.0124	1.0135	1.0125	1.0143	1.0089	1.0124					
Last Year Selected	1.3909	1.1223	1.0693	1.0488	1.0382	1.0317	1.0273	1.0241	1.0217	1.0197	1.0182	1.0168	1.0157	1.0148	1.0139	1.0132	1.0125	1.0119	1.0114															1.1748
Last Year Cumulative	2.7428	1.9720	1.7571	1.6432	1.5668	1.5091	1.4627	1.4239	1.3904	1.3608	1.3345	1.3107	1.2890	1.2691	1.2506	1.2335	1.2174	1.2024	1.1882															1.1748
Selected*	1.3801	1.1215	1.0580	1.0400	1.0321	1.0275	1.0242	1.0217	1.0197	1.0180	1.0165	1.0152	1.0141	1.0131	1.0122	1.0114	1.0107	1.0101	1.0095															1.1668
Cumulative	2.5606	1.8554	1.6544	1.5637	1.5035	1.4568	1.4178	1.3843	1.3549	1.3287	1.3052	1.2840	1.2648	1.2472	1.2311	1.2163	1.2025	1.1898	1.1779															1.1668

\*Y = a+b/x+c/x^2+d/x^3 e = -1.67537280631454  
a = -0.00380126498736788 b = 0.303556126400048 c = -1.13014517758362 d = 2.88586059638322 e = -1.67537280631454  
\*\* Selected Paid Tail Factor \* Selected Paid Bridge Factor (1.1668 = 1.0932 \* 1.0674)



