Appendix B. General liability (GL)

Table B1. Incurred-year age-to-age reported loss link ratios.

Incurred Year	12 - 24	24 - 36	36 - 48	48 - 60	60 - 72	72 - 84	84 - 96	96 - 108	108 - 120	TF
1987	1.841	1.196	1.063	1.241	1.046	1.035	1.024	1.001	1.016	1.110
1988	1.535	1.290	1.229	1.074	1.053	1.022	1.015	1.017	1.014	1.089
1989	1.535	1.354	1.175	1.073	1.052	1.034	1.026	1.017	1.006	1.078
1990	1.634	1.325	1.166	1.090	1.043	1.042	1.032	1.005	1.015	1.078
1991	1.771	1.298	1.139	1.085	1.059	1.041	1.008	1.017	1.007	1.078
1992	1.646	1.303	1.182	1.092	1.073	1.026	1.023	1.012	1.011	1.059
1993	1.567	1.288	1.183	1.078	1.020	1.029	1.020	1.019	1.018	1.047
1994	1.734	1.330	1.157	1.069	1.057	1.026	1.024	1.018	1.007	1.043
1995	1.590	1.325	1.133	1.070	1.058	1.046	1.031	1.022	1.011	1.054
1996	1.697	1.358	1.180	1.089	1.052	1.041	1.010	1.031	1.021	1.057
1997	1.772	1.378	1.175	1.118	1.056	1.025	1.027	1.021	1.020	1.061
1998	1.752	1.346	1.172	1.091	1.054	1.050	1.027	1.013	1.016	1.099
1999	1.846	1.359	1.187	1.087	1.050	1.054	1.021	1.013	1.026	1.097
2000	1.779	1.294	1.198	1.098	1.017	1.025	1.046	1.025	1.014	1.071
2001	1.796	1.287	1.185	1.076	1.032	1.050	1.025	1.036	1.006	1.085
2002	1.642	1.351	1.151	1.086	1.058	1.049	1.036	1.021	1.024	1.093
2003	1.654	1.247	1.144	1.076	1.079	1.033	1.028	1.016	1.020	1.076
2004	1.476	1.285	1.181	1.113	1.066	1.027	1.028	1.027	1.011	1.090
2005	1.580	1.266	1.185	1.102	1.042	1.041	1.038	1.027	1.023	1.085
2006	1.619	1.323	1.177	1.085	1.058	1.051	1.023	1.018	1.025	1.080
2007	1.691	1.316	1.173	1.109	1.083	1.036	1.025	1.024	1.019	1.074
2008	1.765	1.340	1.182	1.133	1.058	1.045	1.024	1.027	1.025	1.066
2009	1.717	1.299	1.204	1.106	1.062	1.037	1.037	1.030	1.017	1.057
2010	1.789	1.381	1.196	1.111	1.055	1.055	1.036	1.022	1.004	1.066
2011	1.814	1.376	1.215	1.116	1.075	1.052	1.033	1.011	1.014	1.068
2012	1.829	1.398	1.253	1.094	1.092	1.041	1.021	1.014	1.015	1.071
2013	1.871	1.435	1.234	1.139	1.074	1.043	1.014	1.011	1.018	1.062
2014	1.854	1.413	1.236	1.125	1.069	1.028	1.024	1.022	1.014	1.065
2015	1.878	1.454	1.249	1.132	1.053	1.036	1.033	1.018	1.017	1.078
2016	1.892	1.406	1.257	1.109	1.066	1.067	1.033	1.029		
2017	2.055	1.423	1.183	1.130	1.108	1.073	1.042			
2018	1.917	1.377	1.223	1.172	1.103	1.071				
2019	1.851	1.379	1.271	1.162	1.104					
2020	1.844	1.420	1.273	1.175						
2021	2.040	1.472	1.301							
2022	2.088	1.480								
2023	2.136									

Table B2. Calendar-year reported loss cumulative development factors.

	12 - 84	24 - 84	36 - 84	12 - Ult	24 - Ult	36 - Ult
1991						
1992						
1993	2.914	1.770	1.364			
1994	2.727	1.740	1.335			
1995	3.091	1.783	1.384			
1996	3.016	1.896	1.426	3.548	2.231	1.678
1997	3.134	1.847	1.394	3.634	2.142	1.616
1998	3.047	1.720	1.267	3.349	1.890	1.392
1999	3.314	1.892	1.373	3.777	2.156	1.565
2000	3.454	1.871	1.389	3.874	2.098	1.558
2001	3.487	1.961	1.443	3.893	2.189	1.611
2002	3.311	1.843	1.424	3.704	2.062	1.593
2003	2.976	1.813	1.408	3.226	1.965	1.526
2004	3.204	1.937	1.434	3.615	2.185	1.618
2005	2.443	1.655	1.327	2.766	1.873	1.503
2006	2.670	1.690	1.315	2.989	1.892	1.472
2007	2.895	1.788	1.412	3.428	2.117	1.672
2008	3.338	1.974	1.492	3.947	2.334	1.765
2009	3.317	1.879	1.428	3.866	2.190	1.665
2010	3.135	1.826	1.363	3.589	2.091	1.560
2011	3.355	1.876	1.444	3.917	2.190	1.686
2012	3.889	2.144	1.553	4.546	2.507	1.815
2013	3.649	1.995	1.450	4.228	2.311	1.680
2014	3.919	2.094	1.498	4.537	2.425	1.734
2015	4.072	2.196	1.530	4.724	2.547	1.775
2016	4.063	2.163	1.531	4.732	2.519	1.783
2017	4.443	2.348	1.616	5.177	2.737	1.883
2018	4.541	2.209	1.571	5.156	2.508	1.784
2019	4.327	2.258	1.587	4.778	2.493	1.752
2020	3.620	1.956	1.420	4.029	2.176	1.581
2021	3.881	2.105	1.526	4.364	2.367	1.717
2022	5.101	2.500	1.761	5.826	2.855	2.011
2023	5.379	2.576	1.750	6.105	2.924	1.986
2024	5.717	2.677	1.808	6.717	3.145	2.124

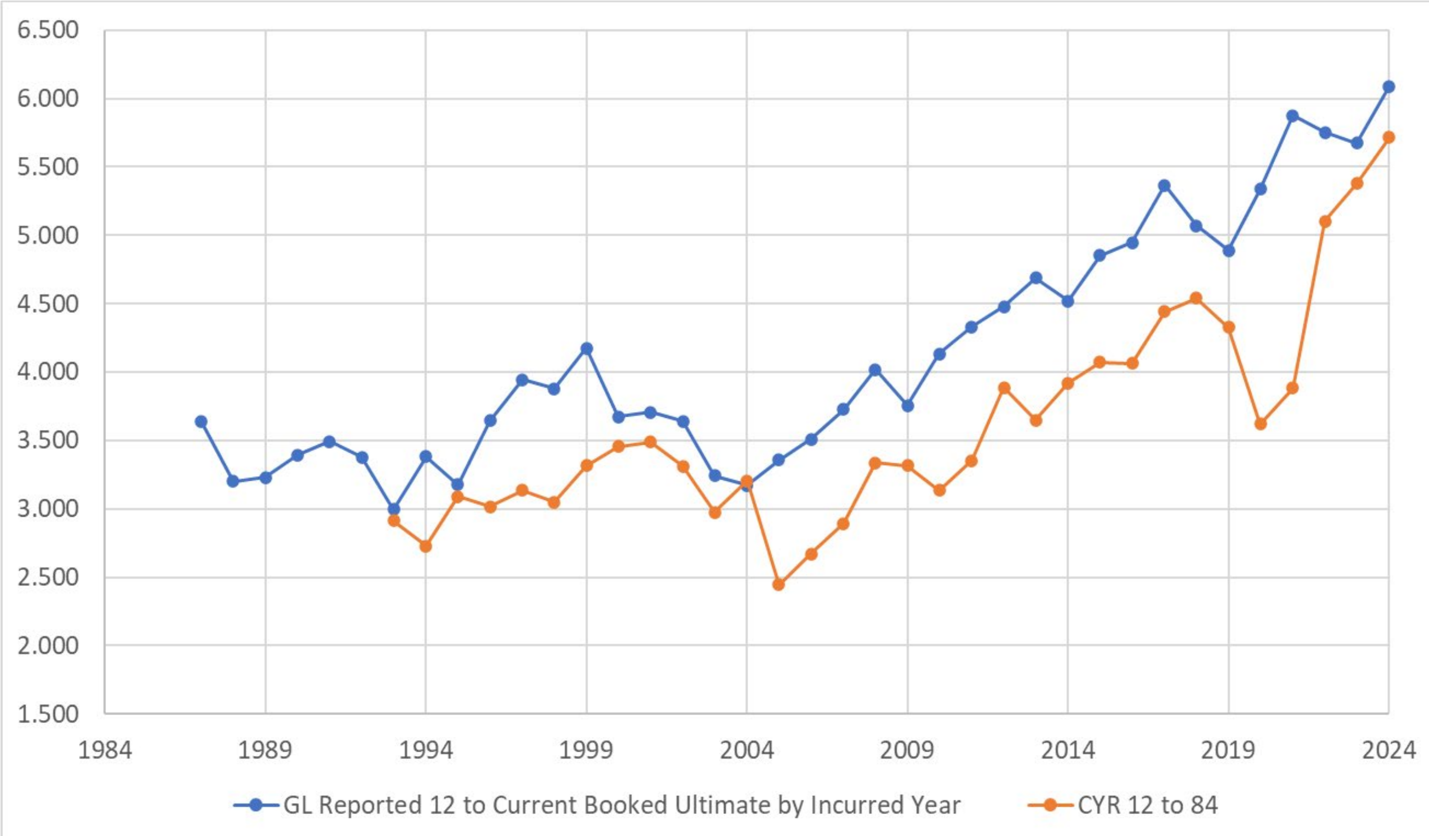

Chart B1. Industry GL loss development.

Table B3. RDFs at age 12.

RDFs at Age 12															
Incurred	Calendar Year														
Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
1997	1.259														
1998	1.273	1.273													
1999	1.259	1.259	1.259												
2000	1.063	1.063	1.063	1.063											
2001	1.063	1.063	1.063	1.063	1.063										
2002	1.091	1.100	1.100	1.100	1.100	1.100									
2003	1.098	1.094	1.089	1.089	1.089	1.089	1.089								
2004	1.003	0.996	0.989	0.990	0.990	0.990	0.990	0.990							
2005	1.395	1.375	1.365	1.362	1.374	1.374	1.374	1.374	1.374						
2006	1.399	1.360	1.345	1.322	1.315	1.314	1.314	1.314	1.314	1.314					
2007	1.380	1.345	1.337	1.309	1.293	1.287	1.287	1.287	1.287	1.287	1.287				
2008	1.310	1.260	1.249	1.235	1.219	1.207	1.204	1.205	1.205	1.205	1.205	1.205			
2009	1.267	1.230	1.186	1.170	1.147	1.138	1.145	1.132	1.133	1.133	1.133	1.133	1.133		
2010	1.380	1.376	1.370	1.349	1.340	1.329	1.330	1.316	1.315	1.318	1.318	1.318	1.318	1.318	
2011		1.284	1.284	1.290	1.283	1.287	1.291	1.280	1.280	1.287	1.291	1.291	1.291	1.291	1.291
2012			1.164	1.162	1.146	1.165	1.150	1.155	1.146	1.149	1.144	1.152	1.152	1.152	1.152
2013				1.276	1.255	1.268	1.291	1.279	1.283	1.289	1.281	1.280	1.285	1.285	1.285
2014					1.124	1.110	1.133	1.117	1.129	1.152	1.149	1.151	1.152	1.153	1.153
2015						1.077	1.105	1.088	1.107	1.144	1.167	1.166	1.168	1.174	1.191
2016							1.100	1.102	1.116	1.143	1.169	1.168	1.186	1.207	1.217
2017								1.035	1.064	1.090	1.101	1.106	1.139	1.178	1.208
2018									0.977	0.989	1.004	1.015	1.043	1.080	1.117
2019										1.020	1.021	1.037	1.067	1.102	1.130
2020											1.469	1.443	1.429	1.442	1.475
2021												1.423	1.422	1.434	1.514
2022													1.074	1.074	1.127
2023														1.026	1.055
2024															1.065

Table B4. RDFs at age 24.

RDFs at Age 24															
Incurred	Calendar Year														
Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1996	1.162														
1997	1.295	1.295													
1998	1.170	1.170	1.170												
1999	1.208	1.208	1.208	1.208											
2000	1.053	1.053	1.053	1.053	1.053										
2001	1.119	1.119	1.119	1.119	1.119	1.119									
2002	1.214	1.223	1.223	1.223	1.223	1.223	1.223								
2003	1.020	1.016	1.011	1.011	1.011	1.011	1.011	1.011							
2004	1.316	1.306	1.297	1.299	1.299	1.299	1.299	1.299	1.299						
2005	1.277	1.258	1.249	1.247	1.257	1.257	1.257	1.257	1.257	1.257					
2006	1.290	1.254	1.240	1.220	1.213	1.212	1.212	1.212	1.212	1.212	1.212				
2007	1.197	1.167	1.160	1.136	1.121	1.116	1.117	1.117	1.117	1.117	1.117	1.117			
2008	1.318	1.268	1.256	1.243	1.226	1.214	1.212	1.212	1.212	1.212	1.212	1.212	1.212		
2009	1.341	1.302	1.255	1.238	1.214	1.204	1.212	1.198	1.198	1.198	1.198	1.198	1.198	1.198	
2010		1.286	1.280	1.260	1.253	1.242	1.243	1.229	1.229	1.232	1.232	1.232	1.232	1.232	1.232
2011			1.107	1.113	1.107	1.110	1.114	1.104	1.104	1.110	1.113	1.113	1.113	1.113	1.113
2012				1.239	1.221	1.241	1.225	1.231	1.221	1.224	1.219	1.227	1.227	1.227	1.227
2013					1.169	1.181	1.202	1.191	1.195	1.200	1.193	1.192	1.197	1.197	1.197
2014						1.068	1.091	1.075	1.086	1.109	1.105	1.107	1.108	1.110	1.110
2015							1.107	1.091	1.109	1.147	1.170	1.169	1.171	1.177	1.194
2016								1.008	1.021	1.045	1.069	1.068	1.085	1.104	1.113
2017									1.041	1.067	1.077	1.082	1.114	1.152	1.182
2018										1.037	1.054	1.065	1.095	1.133	1.172
2019											1.221	1.240	1.275	1.317	1.350
2020												1.347	1.333	1.345	1.376
2021													1.081	1.091	1.152
2022														1.018	1.069
2023															0.992

Table B5. RDFs at age 36.

RDFs at Age 36															
Incurred	Calendar Year														
Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1995	1.081														
1996	1.249	1.249													
1997	1.177	1.177	1.177												
1998	1.184	1.184	1.184	1.184											
1999	1.153	1.153	1.153	1.153	1.153										
2000	1.120	1.120	1.120	1.120	1.120	1.120									
2001	1.138	1.138	1.138	1.138	1.138	1.138	1.138								
2002	1.137	1.145	1.145	1.145	1.145	1.145	1.145	1.145							
2003	1.194	1.189	1.184	1.184	1.184	1.184	1.184	1.184	1.184						
2004	1.289	1.279	1.271	1.272	1.272	1.272	1.272	1.272	1.272	1.272					
2005	1.207	1.189	1.181	1.178	1.188	1.188	1.188	1.188	1.188	1.188	1.188				
2006	1.169	1.136	1.123	1.105	1.098	1.098	1.098	1.098	1.098	1.098	1.098	1.098			
2007	1.257	1.226	1.218	1.193	1.178	1.173	1.173	1.173	1.173	1.173	1.173	1.173	1.173		
2008	1.357	1.305	1.293	1.279	1.262	1.249	1.247	1.247	1.247	1.247	1.247	1.247	1.247	1.247	
2009		1.267	1.222	1.205	1.182	1.172	1.179	1.166	1.167	1.167	1.167	1.167	1.167	1.167	1.167
2010			1.120	1.103	1.096	1.087	1.087	1.075	1.075	1.077	1.077	1.077	1.077	1.077	1.077
2011				1.196	1.189	1.193	1.197	1.186	1.187	1.194	1.197	1.197	1.197	1.197	1.197
2012					1.163	1.183	1.167	1.173	1.164	1.166	1.161	1.169	1.169	1.169	1.169
2013						1.126	1.146	1.136	1.139	1.144	1.138	1.137	1.141	1.141	1.141
2014							1.107	1.091	1.103	1.126	1.122	1.124	1.125	1.127	1.127
2015								1.005	1.022	1.057	1.078	1.077	1.078	1.084	1.100
2016									1.085	1.111	1.136	1.135	1.153	1.173	1.183
2017										1.044	1.054	1.058	1.090	1.127	1.157
2018											1.217	1.230	1.264	1.308	1.353
2019												1.152	1.185	1.224	1.255
2020													1.122	1.132	1.158
2021														1.059	1.118
2022															1.029

Table B6. IBNR-to-ultimate at age 12.

IBNR to Ultimate at Age 12															
Incurred	Calendar Year														
Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
1997	0.747														
1998	0.742	0.742													
1999	0.760	0.760	0.760												
2000	0.728	0.728	0.728	0.728											
2001	0.730	0.730	0.730	0.730	0.730										
2002	0.723	0.725	0.725	0.725	0.725	0.725									
2003	0.694	0.693	0.691	0.691	0.691	0.691	0.691								
2004	0.689	0.687	0.685	0.685	0.685	0.685	0.685	0.685							
2005	0.707	0.702	0.700	0.700	0.702	0.702	0.702	0.702	0.702						
2006	0.732	0.724	0.721	0.717	0.715	0.715	0.715	0.715	0.715	0.715					
2007	0.750	0.743	0.742	0.736	0.733	0.732	0.732	0.732	0.732	0.732	0.732				
2008	0.771	0.762	0.760	0.757	0.754	0.752	0.751	0.751	0.751	0.751	0.751	0.751			
2009	0.762	0.755	0.746	0.742	0.737	0.735	0.737	0.734	0.734	0.734	0.734	0.734	0.734		
2010	0.769	0.768	0.767	0.764	0.762	0.760	0.760	0.758	0.758	0.758	0.758	0.758	0.758	0.758	
2011		0.768	0.768	0.769	0.768	0.768	0.769	0.767	0.767	0.768	0.769	0.769	0.769	0.769	0.769
2012			0.779	0.779	0.776	0.779	0.776	0.777	0.776	0.776	0.775	0.777	0.777	0.777	0.777
2013				0.785	0.782	0.784	0.788	0.786	0.786	0.787	0.786	0.786	0.787	0.787	0.787
2014					0.773	0.770	0.775	0.772	0.774	0.779	0.778	0.778	0.778	0.779	0.779
2015						0.772	0.778	0.774	0.778	0.785	0.790	0.789	0.790	0.791	0.794
2016							0.776	0.777	0.779	0.785	0.789	0.789	0.793	0.796	0.798
2017								0.783	0.788	0.794	0.796	0.796	0.802	0.809	0.814
2018									0.775	0.777	0.781	0.783	0.789	0.796	0.803
2019										0.773	0.774	0.777	0.783	0.790	0.795
2020											0.812	0.809	0.807	0.808	0.813
2021												0.819	0.819	0.820	0.830
2022													0.818	0.817	0.826
2023														0.819	0.824
2024															0.836

Table B7. IBNR-to-ultimate at age 24.

IBNR to Ultimate at Age 24															
Incurred	Calendar Year														
Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1996	0.534														
1997	0.551	0.551													
1998	0.548	0.548	0.548												
1999	0.558	0.558	0.558	0.558											
2000	0.516	0.516	0.516	0.516	0.516										
2001	0.515	0.515	0.515	0.515	0.515	0.515									
2002	0.546	0.549	0.549	0.549	0.549	0.549	0.549								
2003	0.494	0.492	0.489	0.489	0.489	0.489	0.489	0.489							
2004	0.541	0.537	0.534	0.535	0.535	0.535	0.535	0.535	0.535						
2005	0.536	0.530	0.526	0.525	0.529	0.529	0.529	0.529	0.529	0.529					
2006	0.566	0.554	0.549	0.541	0.539	0.538	0.538	0.538	0.538	0.538	0.538				
2007	0.577	0.566	0.563	0.554	0.548	0.546	0.546	0.546	0.546	0.546	0.546	0.546			
2008	0.596	0.580	0.576	0.572	0.566	0.562	0.561	0.561	0.561	0.561	0.561	0.561	0.561		
2009	0.592	0.579	0.564	0.558	0.549	0.545	0.548	0.543	0.543	0.543	0.543	0.543	0.543	0.543	
2010		0.585	0.584	0.577	0.574	0.571	0.571	0.566	0.566	0.567	0.567	0.567	0.567	0.567	0.567
2011			0.579	0.581	0.579	0.580	0.581	0.578	0.578	0.580	0.581	0.581	0.581	0.581	0.581
2012				0.595	0.589	0.596	0.591	0.593	0.590	0.591	0.589	0.592	0.592	0.592	0.592
2013					0.591	0.596	0.603	0.599	0.600	0.602	0.600	0.599	0.601	0.601	0.601
2014						0.574	0.582	0.576	0.581	0.589	0.588	0.589	0.589	0.590	0.590
2015							0.583	0.576	0.583	0.597	0.605	0.605	0.605	0.607	0.613
2016								0.578	0.583	0.593	0.602	0.601	0.607	0.614	0.617
2017									0.565	0.576	0.580	0.581	0.594	0.607	0.617
2018										0.573	0.580	0.584	0.595	0.609	0.622
2019											0.581	0.588	0.599	0.612	0.621
2020												0.647	0.644	0.647	0.655
2021													0.630	0.633	0.653
2022														0.619	0.637
2023															0.623

Table B8. IBNR-to-ultimate at age 36.

IBNR to Ultimate at Age 36															
Incurred	Calendar Year														
Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1995	0.337														
1996	0.368	0.368													
1997	0.381	0.381	0.381												
1998	0.392	0.392	0.392	0.392											
1999	0.399	0.399	0.399	0.399	0.399										
2000	0.373	0.373	0.373	0.373	0.373	0.373									
2001	0.376	0.376	0.376	0.376	0.376	0.376	0.376								
2002	0.387	0.391	0.391	0.391	0.391	0.391	0.391	0.391							
2003	0.369	0.366	0.364	0.364	0.364	0.364	0.364	0.364	0.364						
2004	0.410	0.405	0.401	0.402	0.402	0.402	0.402	0.402	0.402	0.402					
2005	0.413	0.404	0.400	0.399	0.404	0.404	0.404	0.404	0.404	0.404	0.404				
2006	0.427	0.410	0.404	0.393	0.390	0.390	0.390	0.390	0.390	0.390	0.390	0.390			
2007	0.443	0.429	0.425	0.413	0.405	0.403	0.403	0.403	0.403	0.403	0.403	0.403	0.403		
2008	0.459	0.438	0.432	0.426	0.418	0.413	0.412	0.412	0.412	0.412	0.412	0.412	0.412	0.412	
2009		0.453	0.433	0.425	0.414	0.409	0.413	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406
2010			0.425	0.416	0.412	0.407	0.408	0.401	0.401	0.402	0.402	0.402	0.402	0.402	0.402
2011				0.423	0.420	0.422	0.424	0.419	0.419	0.422	0.424	0.424	0.424	0.424	0.424
2012					0.426	0.436	0.428	0.431	0.426	0.428	0.425	0.429	0.429	0.429	0.429
2013						0.420	0.430	0.425	0.426	0.429	0.426	0.425	0.427	0.427	0.427
2014							0.410	0.401	0.408	0.420	0.418	0.419	0.420	0.420	0.420
2015								0.384	0.394	0.414	0.426	0.425	0.426	0.429	0.437
2016									0.413	0.427	0.440	0.439	0.448	0.457	0.462
2017										0.396	0.402	0.405	0.422	0.441	0.455
2018											0.421	0.427	0.443	0.462	0.480
2019												0.431	0.447	0.465	0.478
2020													0.494	0.498	0.510
2021														0.460	0.489
2022															0.463

Table B9. IBNR-to-net earned premium at age 12.

IBNR to Net Earned Premium at Age 12															
Incurred	Calendar Year														
Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
1997	0.661														
1998	0.733	0.733													
1999	0.810	0.810	0.810												
2000	0.739	0.739	0.739	0.739											
2001	0.755	0.755	0.755	0.755	0.755										
2002	0.601	0.607	0.607	0.607	0.607	0.607									
2003	0.443	0.440	0.437	0.437	0.437	0.437	0.437								
2004	0.371	0.367	0.363	0.364	0.364	0.364	0.364	0.364							
2005	0.382	0.374	0.370	0.369	0.374	0.374	0.374	0.374	0.374						
2006	0.406	0.390	0.384	0.375	0.372	0.372	0.372	0.372	0.372	0.372					
2007	0.459	0.444	0.440	0.428	0.421	0.418	0.418	0.418	0.418	0.418	0.418				
2008	0.500	0.475	0.469	0.462	0.454	0.448	0.447	0.447	0.447	0.447	0.447	0.447			
2009	0.519	0.499	0.475	0.466	0.454	0.449	0.453	0.446	0.446	0.446	0.446	0.446	0.446		
2010	0.526	0.524	0.521	0.511	0.506	0.501	0.501	0.494	0.494	0.495	0.495	0.495	0.495	0.495	
2011		0.515	0.515	0.518	0.514	0.516	0.518	0.512	0.513	0.516	0.518	0.518	0.518	0.518	0.518
2012			0.505	0.505	0.496	0.506	0.498	0.501	0.496	0.497	0.494	0.499	0.499	0.499	0.499
2013				0.490	0.480	0.486	0.497	0.491	0.493	0.496	0.492	0.492	0.494	0.494	0.494
2014					0.481	0.473	0.486	0.477	0.484	0.497	0.495	0.496	0.496	0.497	0.497
2015						0.477	0.493	0.484	0.494	0.516	0.529	0.529	0.529	0.533	0.543
2016							0.498	0.499	0.507	0.522	0.538	0.537	0.548	0.560	0.566
2017								0.493	0.510	0.526	0.533	0.536	0.556	0.579	0.598
2018									0.502	0.510	0.521	0.528	0.546	0.570	0.595
2019										0.517	0.518	0.528	0.547	0.570	0.589
2020											0.545	0.534	0.527	0.533	0.548
2021												0.513	0.513	0.518	0.553
2022													0.510	0.510	0.541
2023														0.535	0.554
2024															0.580

Table B10. IBNR-to-net earned premium at age 24.

IBNR to Net Earned Premium at Age 24															
Incurred	Calendar Year														
Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1996	0.426														
1997	0.488	0.488													
1998	0.542	0.542	0.542												
1999	0.594	0.594	0.594	0.594											
2000	0.524	0.524	0.524	0.524	0.524										
2001	0.533	0.533	0.533	0.533	0.533	0.533									
2002	0.453	0.459	0.459	0.459	0.459	0.459	0.459								
2003	0.315	0.312	0.309	0.309	0.309	0.309	0.309	0.309							
2004	0.291	0.287	0.283	0.284	0.284	0.284	0.284	0.284	0.284						
2005	0.290	0.282	0.278	0.277	0.282	0.282	0.282	0.282	0.282	0.282					
2006	0.314	0.298	0.292	0.283	0.280	0.280	0.280	0.280	0.280	0.280	0.280				
2007	0.353	0.338	0.334	0.322	0.315	0.312	0.312	0.312	0.312	0.312	0.312	0.312			
2008	0.386	0.362	0.356	0.349	0.341	0.335	0.334	0.334	0.334	0.334	0.334	0.334	0.334		
2009	0.403	0.383	0.359	0.350	0.338	0.333	0.337	0.330	0.330	0.330	0.330	0.330	0.330	0.330	
2010		0.399	0.396	0.386	0.382	0.376	0.377	0.369	0.369	0.371	0.371	0.371	0.371	0.371	0.371
2011			0.388	0.391	0.387	0.390	0.392	0.386	0.386	0.390	0.392	0.392	0.392	0.392	0.392
2012				0.386	0.377	0.387	0.379	0.382	0.377	0.378	0.376	0.380	0.380	0.380	0.380
2013					0.363	0.369	0.380	0.375	0.377	0.379	0.376	0.375	0.377	0.377	0.377
2014						0.352	0.365	0.356	0.363	0.376	0.374	0.375	0.376	0.376	0.376
2015							0.369	0.360	0.370	0.392	0.405	0.405	0.406	0.409	0.419
2016								0.371	0.379	0.395	0.410	0.409	0.420	0.432	0.438
2017									0.366	0.382	0.388	0.391	0.411	0.435	0.453
2018										0.376	0.387	0.394	0.412	0.436	0.461
2019											0.389	0.399	0.419	0.441	0.460
2020												0.427	0.421	0.427	0.442
2021													0.395	0.400	0.435
2022														0.386	0.417
2023															0.419

Table B11. IBNR-to-net earned premium at age 36.

IBNR to Net Earned Premium at Age 36															
Incurred	Calendar Year														
Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1995	0.258														
1996	0.293	0.293													
1997	0.337	0.337	0.337												
1998	0.387	0.387	0.387	0.387											
1999	0.425	0.425	0.425	0.425	0.425										
2000	0.379	0.379	0.379	0.379	0.379	0.379									
2001	0.389	0.389	0.389	0.389	0.389	0.389	0.389								
2002	0.321	0.327	0.327	0.327	0.327	0.327	0.327	0.327							
2003	0.235	0.233	0.230	0.230	0.230	0.230	0.230	0.230	0.230						
2004	0.220	0.216	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213					
2005	0.223	0.215	0.212	0.210	0.215	0.215	0.215	0.215	0.215	0.215	0.215				
2006	0.236	0.221	0.215	0.206	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203			
2007	0.272	0.256	0.252	0.240	0.233	0.230	0.231	0.231	0.231	0.231	0.231	0.231	0.231		
2008	0.297	0.273	0.267	0.260	0.252	0.246	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	
2009		0.300	0.276	0.267	0.255	0.250	0.254	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247
2010			0.289	0.278	0.274	0.268	0.269	0.262	0.262	0.263	0.263	0.263	0.263	0.263	0.263
2011				0.285	0.281	0.283	0.286	0.280	0.280	0.284	0.286	0.286	0.286	0.286	0.286
2012					0.272	0.283	0.274	0.277	0.272	0.274	0.271	0.275	0.275	0.275	0.275
2013						0.260	0.271	0.266	0.267	0.270	0.267	0.266	0.268	0.268	0.268
2014							0.257	0.248	0.255	0.268	0.266	0.267	0.268	0.268	0.268
2015								0.240	0.250	0.272	0.285	0.285	0.285	0.289	0.299
2016									0.269	0.284	0.299	0.299	0.310	0.322	0.328
2017										0.263	0.270	0.272	0.292	0.316	0.335
2018											0.281	0.288	0.307	0.331	0.356
2019												0.293	0.312	0.335	0.354
2020													0.323	0.329	0.344
2021														0.291	0.326
2022															0.303

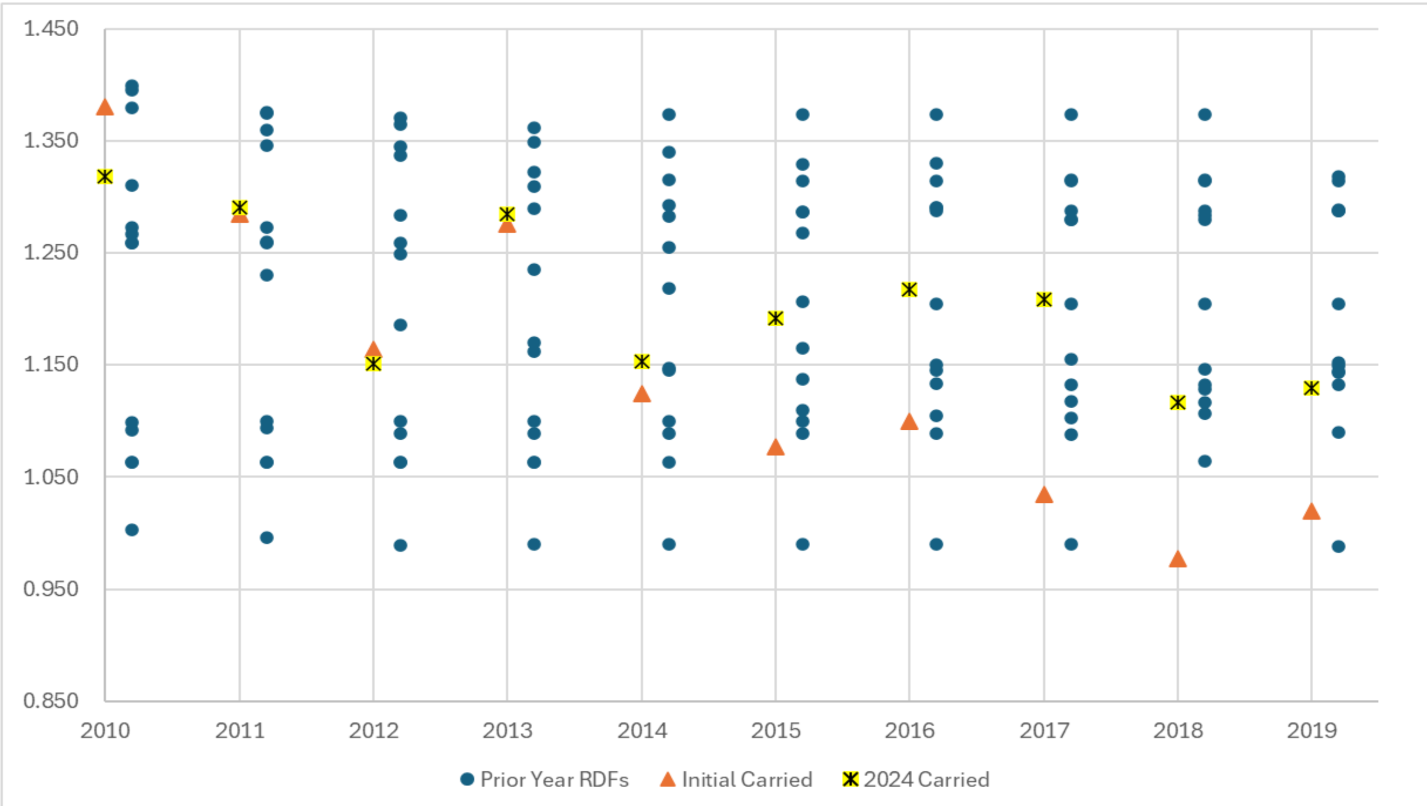

Chart B2. Industry general liability RDFs at 12 months.

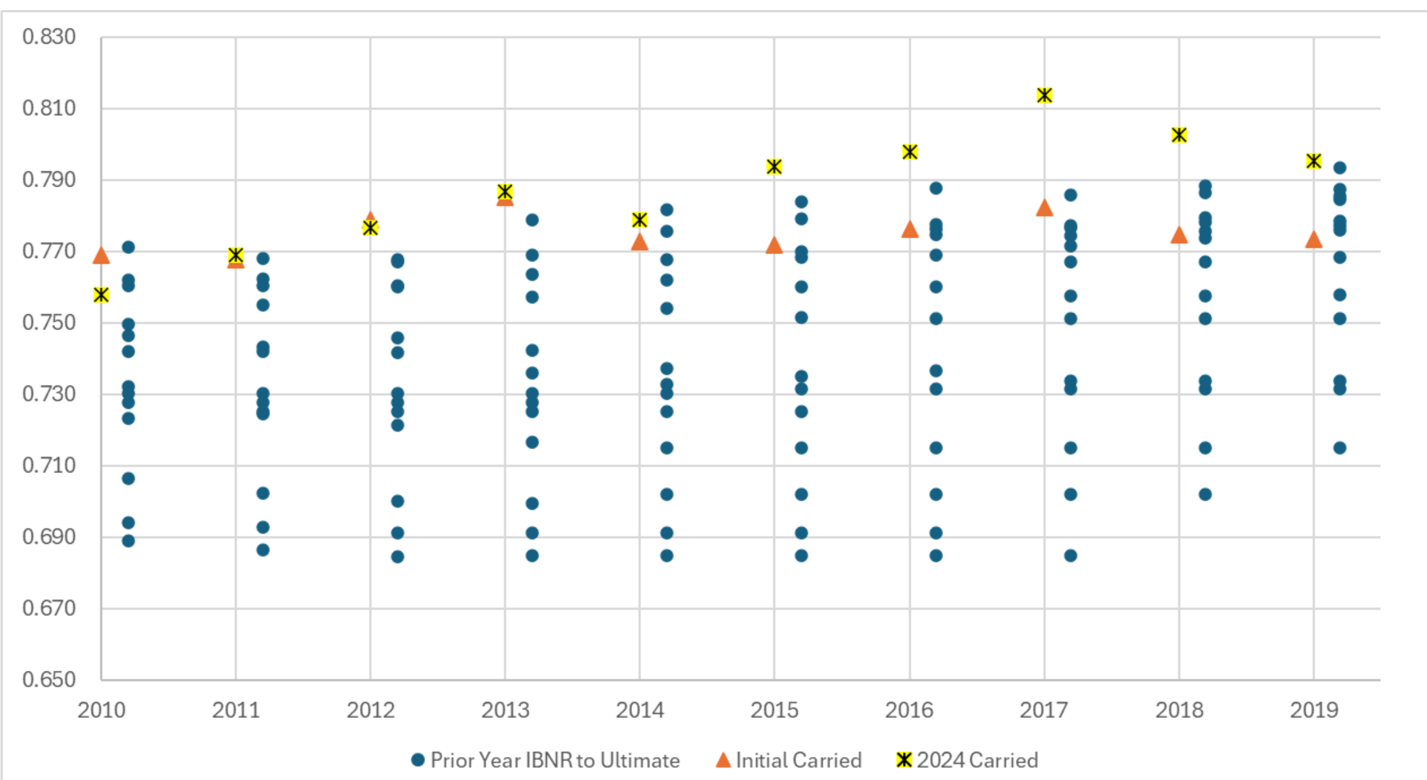

Chart B3. Industry GL IBNR-to-ultimate ratios at 12 months.

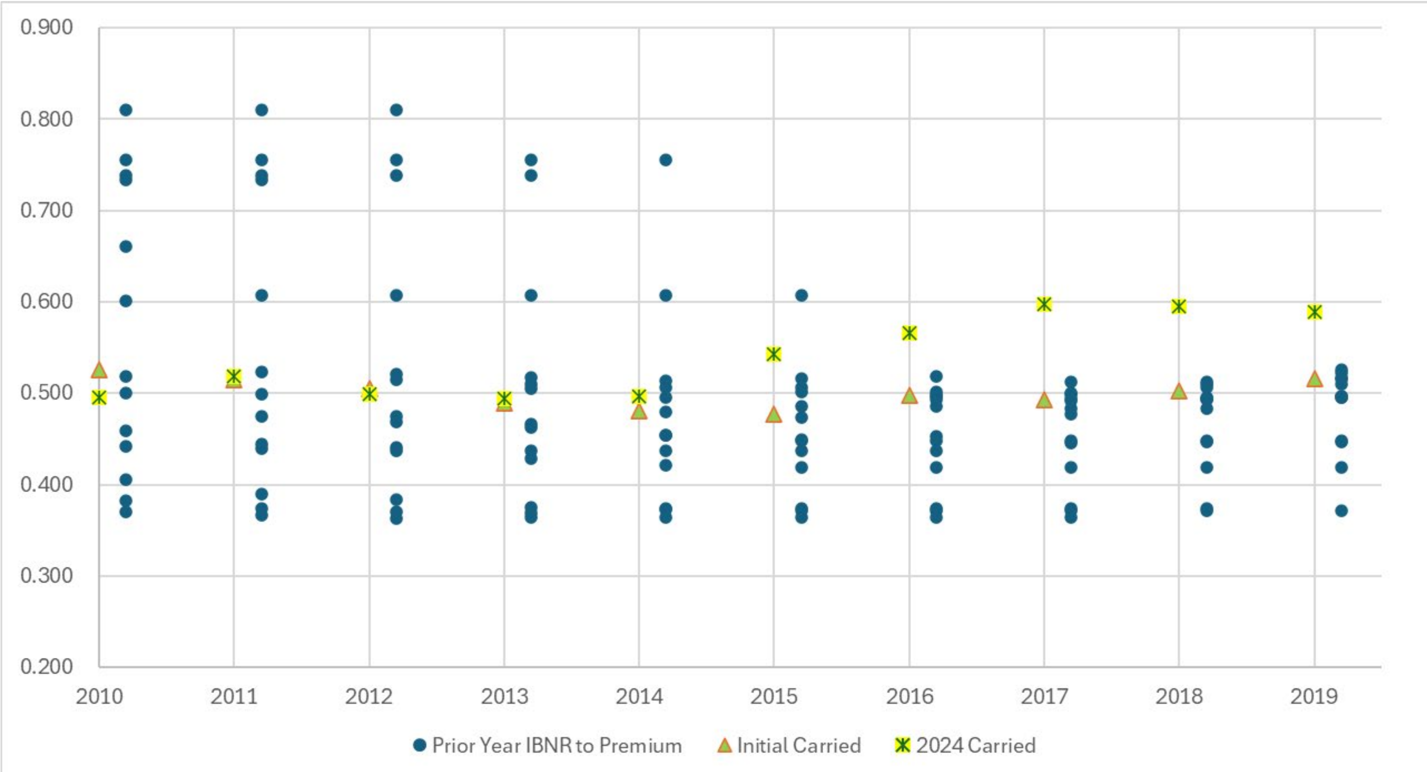

Chart B4. Industry general liability IBNR-to-premium ratios at 12 months.

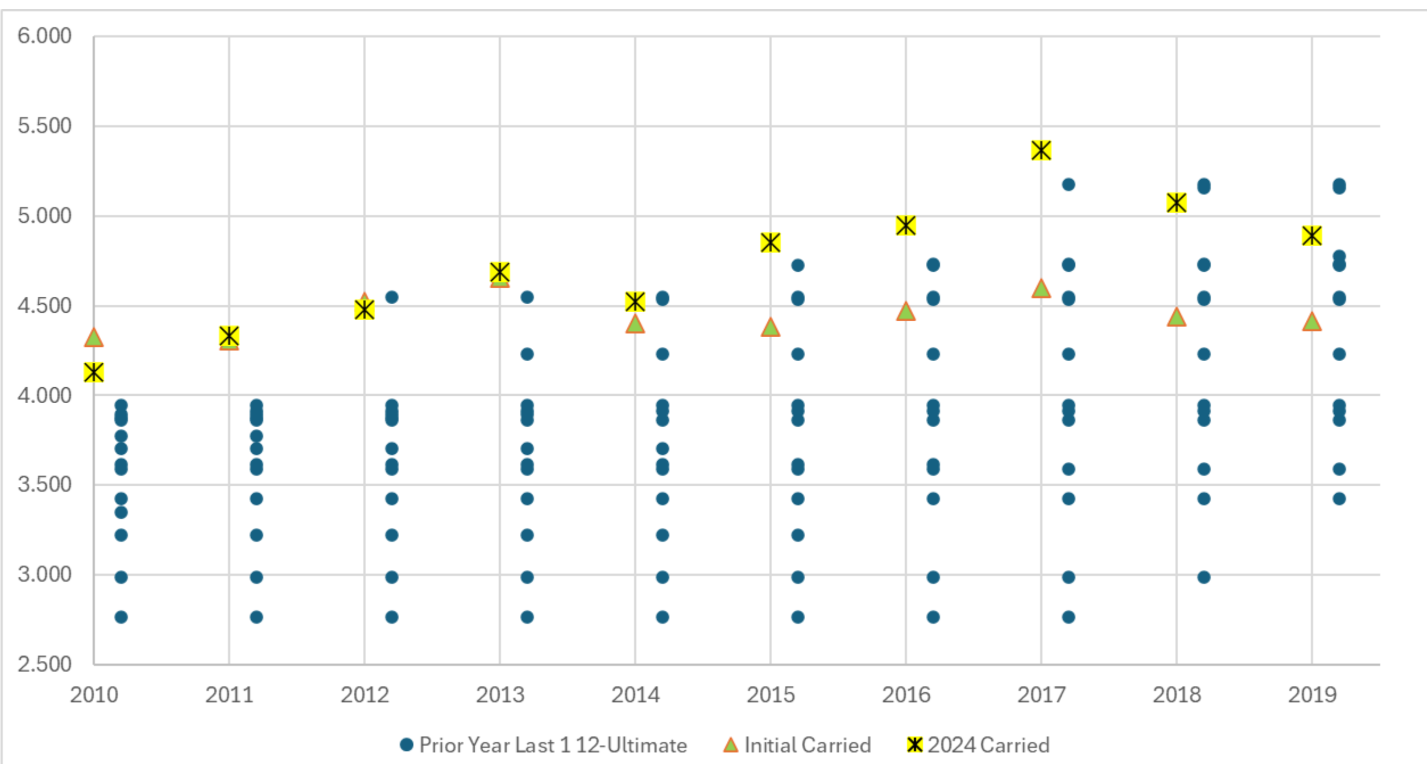

Chart B5. Industry general liability Last 1 12 to ultimate at 12 months.

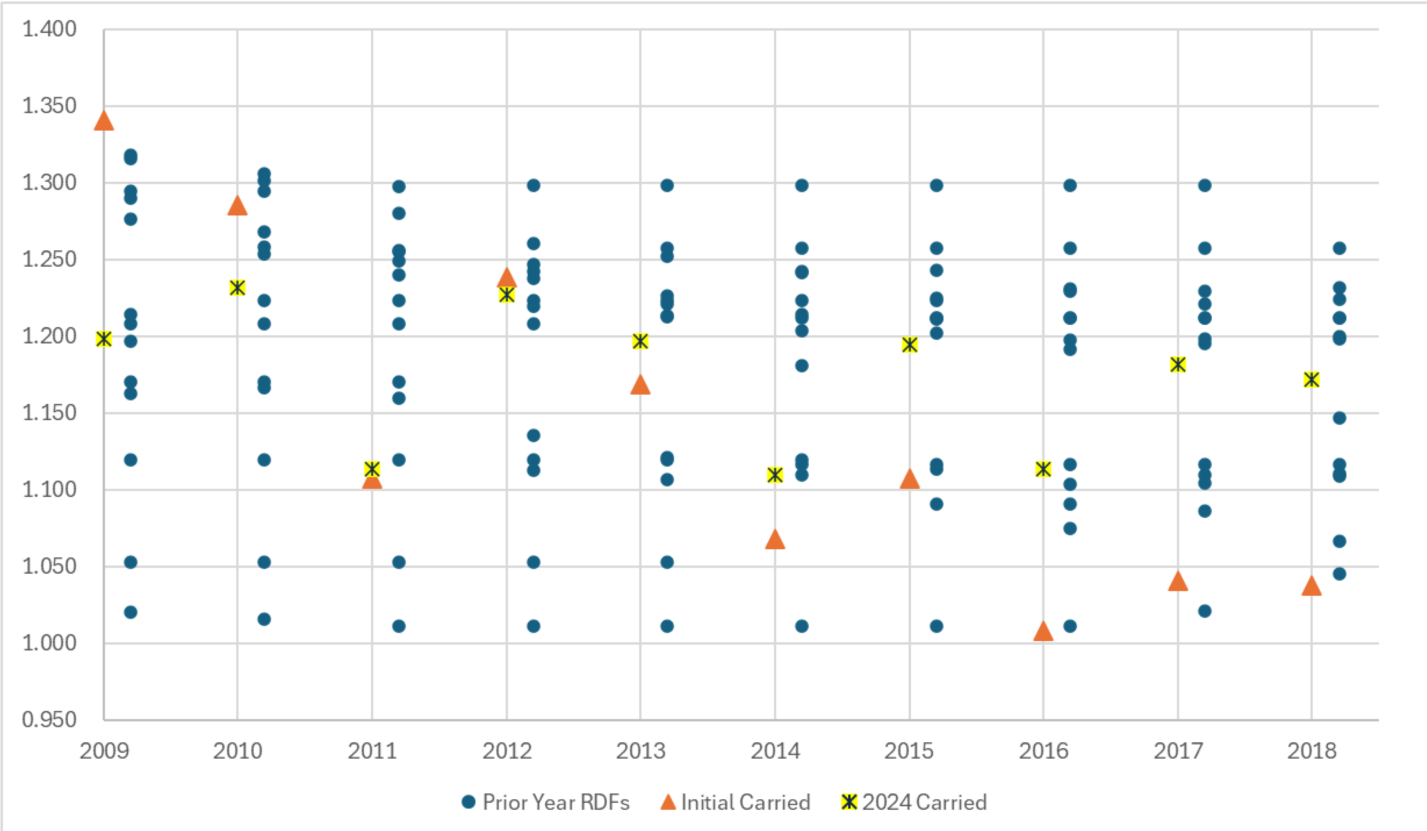

Chart B6. Industry general liability RDFs at 24 months.

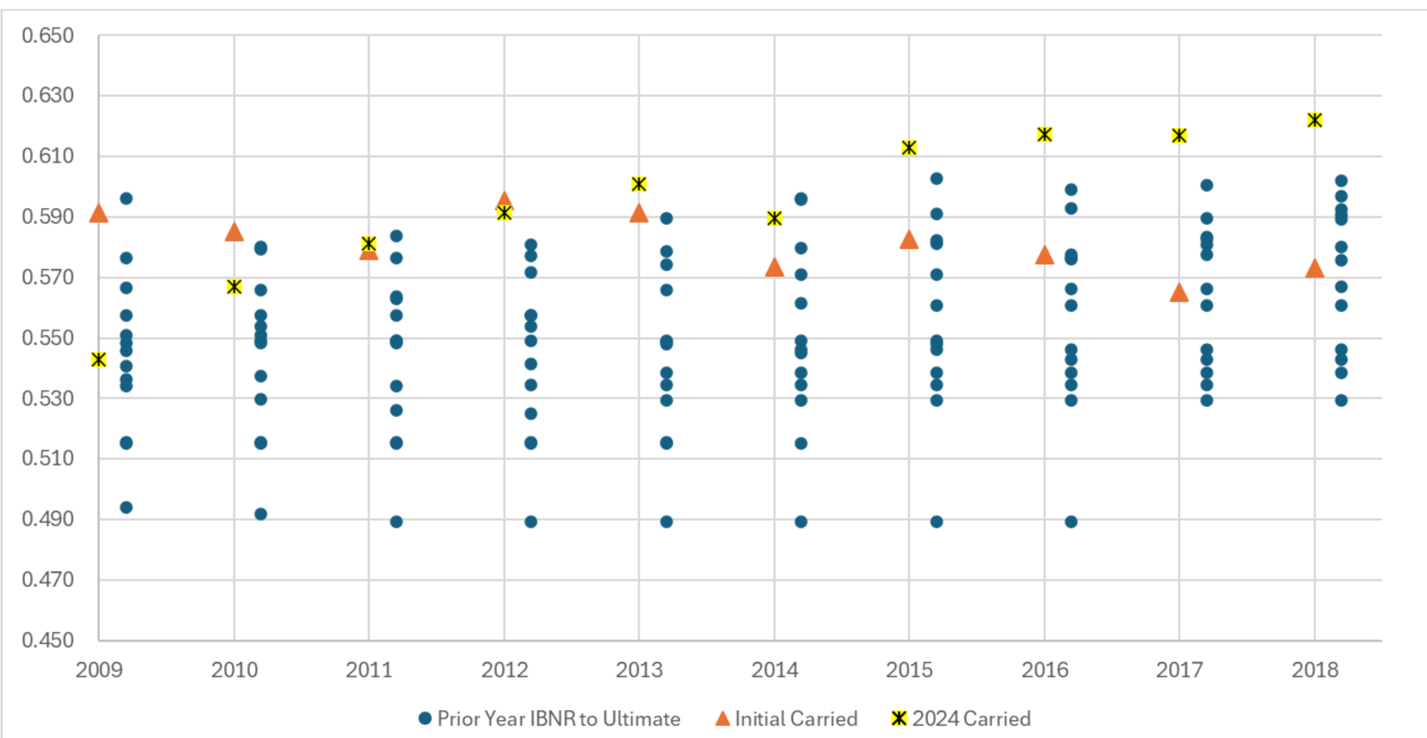

Chart B7. Industry general liability IBNR-to-ultimate ratios at 24 months.

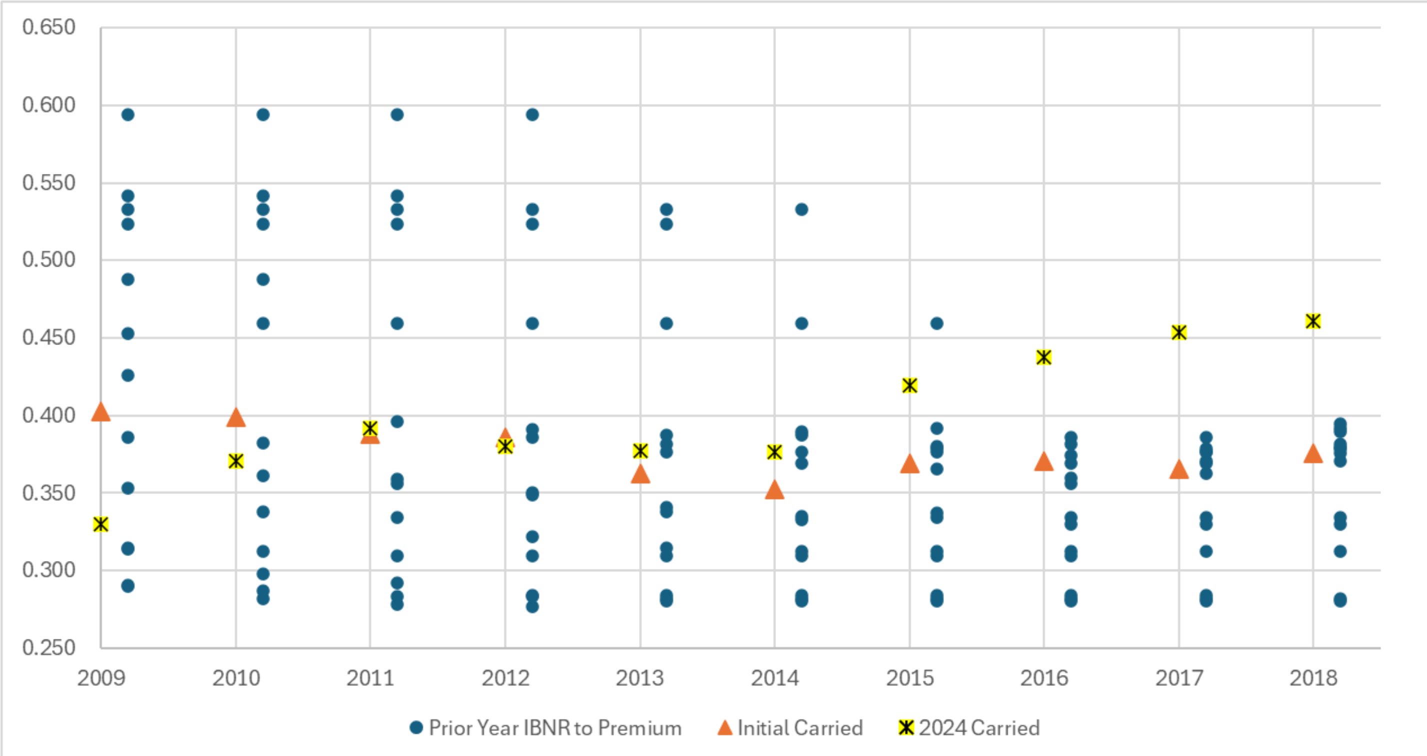

Chart B8. Industry general liability IBNR-to-premium ratios at 24 months.

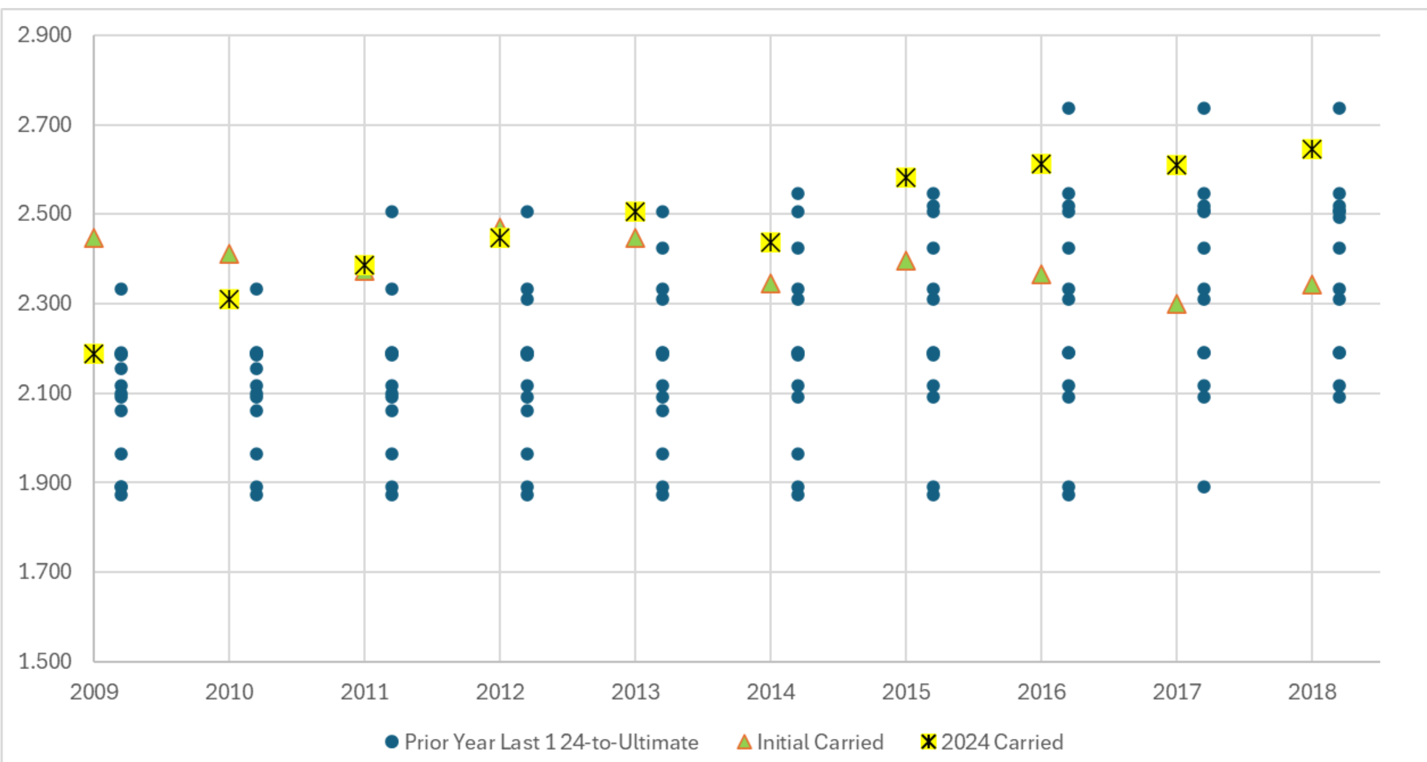

Chart B9. Industry general liability Last 1 24 to ultimate at 24 months.

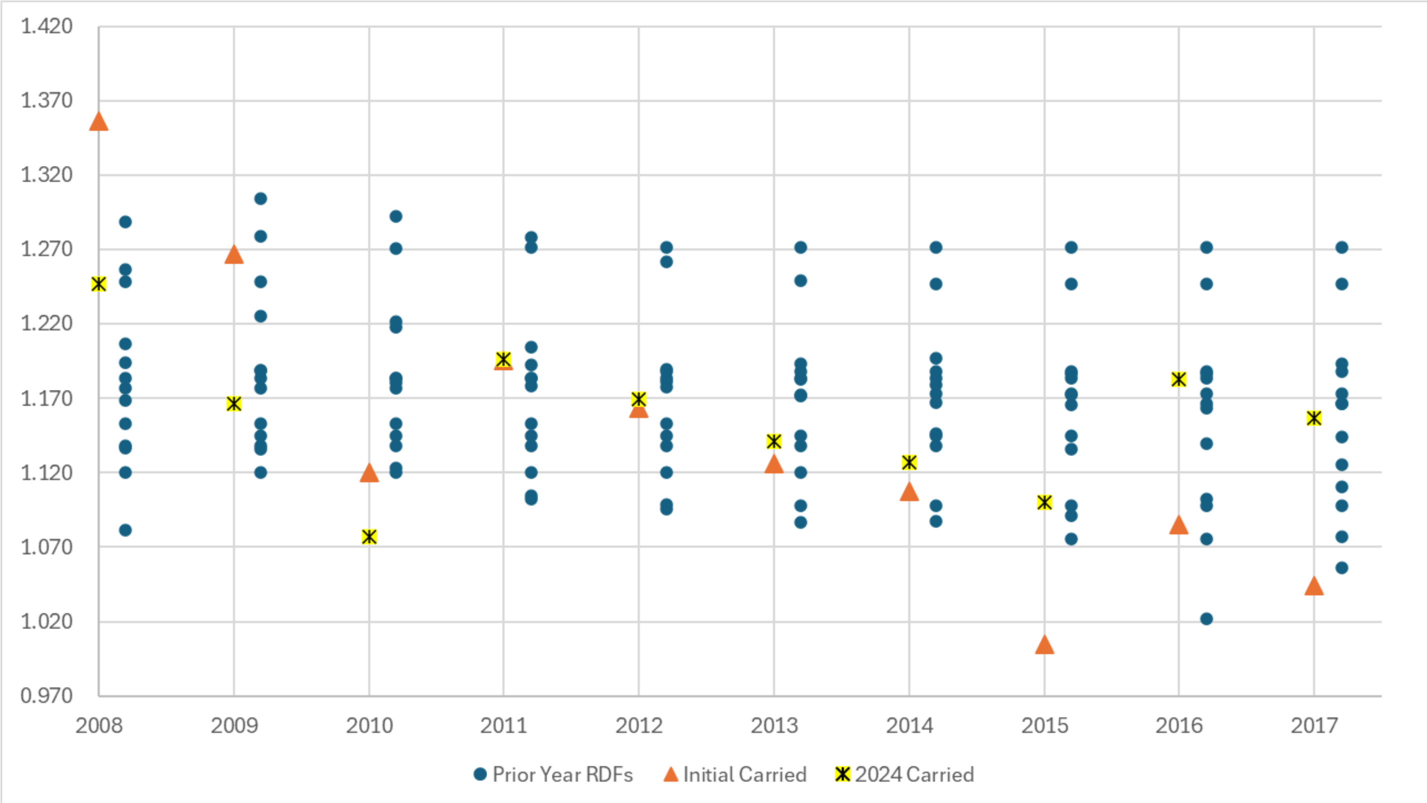

Chart B10. Industry general liability RDFs at 36 months.

Chart B11. Industry general liability IBNR-to-ultimate ratios at 36 months.

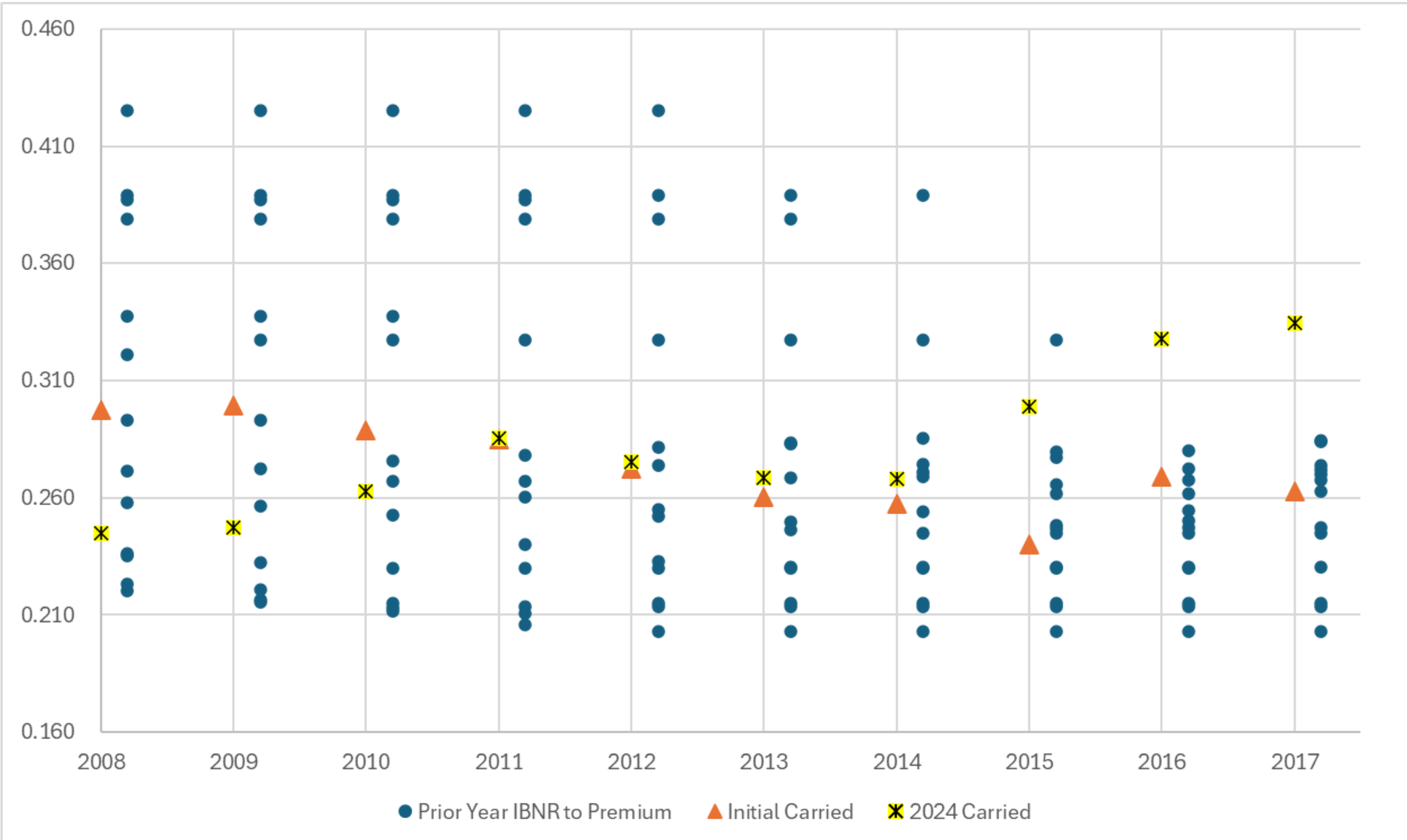

Chart B12. Industry general liability IBNR-to-premium ratios at 36 months.

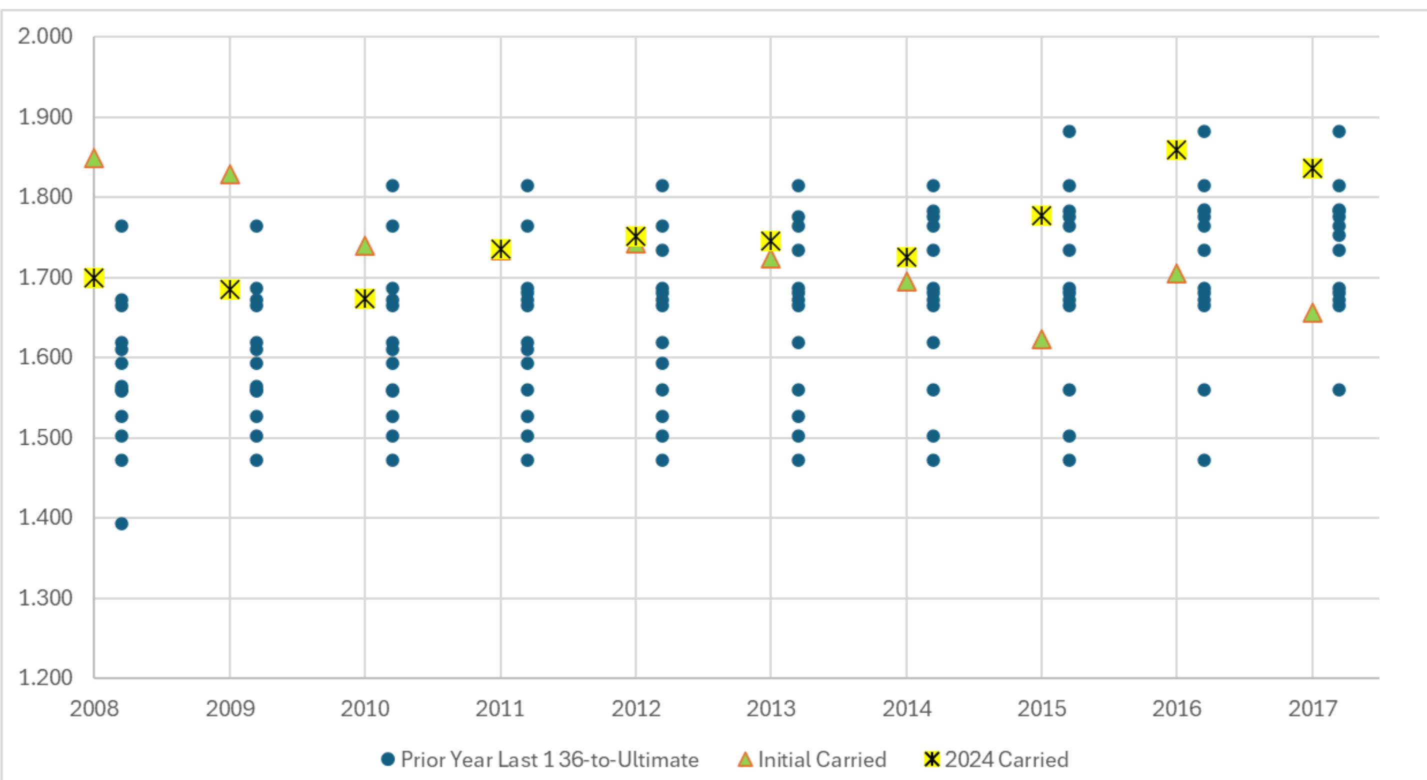

Chart B13. Industry general liability Last 1 36 to ultimate at 36 months.

Table B12. RDFs change in absolute error (%), GL. Incurred years 2010–2019.

	2010–2019	2014–2019
Valuation Month	12	12
IBNR to ultimate	–76%	–83%
IBNR to premium	–66%	–77%
Last 1 LDF	3%	45%
Initial booked	–37%	–64%

Table B13. Range as percentage of ultimate, GL. Incurred years 2010–2019.

Valuation Month	12	24	36
RDF	31%	24%	17%
IBNR to ultimate	28%	19%	11%
IBNR to premium	44%	34%	27%
Last 1 LDF	38%	26%	20%

Table B14. Frequency of ultimate out of range, GL. Incurred years 2010–2019 (10 possible).

Valuation Month	12	24	36
RDF	0	0	1
IBNR to ultimate	8	6	4
IBNR to premium	4	3	2
Last 1 LDF	6	1	0

Table B15. Stationarity/range coefficients of variation, GL: Means. Incurred years 2010–2019.

Valuation Month	12	24	36
RDF	0.007	0.011	0.010
IBNR to ultimate	0.015	0.016	0.014
IBNR to premium	0.081	0.082	0.082
Last 1 LDF	0.068	0.044	0.029

Table B16. Stationarity/range coefficients of variation, GL: Standard deviations. Incurred years 2010–2019.

Valuation Month	12	24	36
RDF	0.106	0.094	0.084
IBNR to ultimate	0.114	0.085	0.206
IBNR to premium	0.467	0.386	0.356
Last 1 LDF	0.205	0.199	0.116

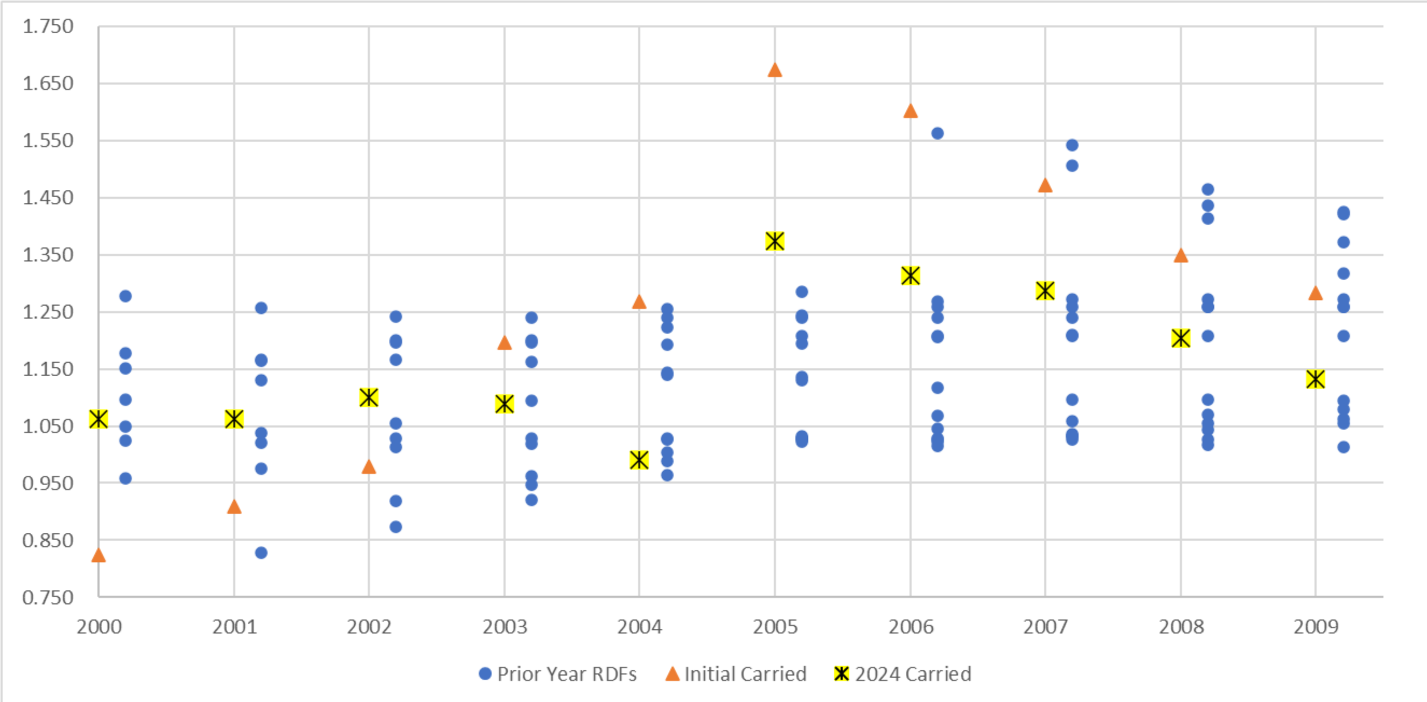

Chart B14. Industry general liability RDFs at 12 months.

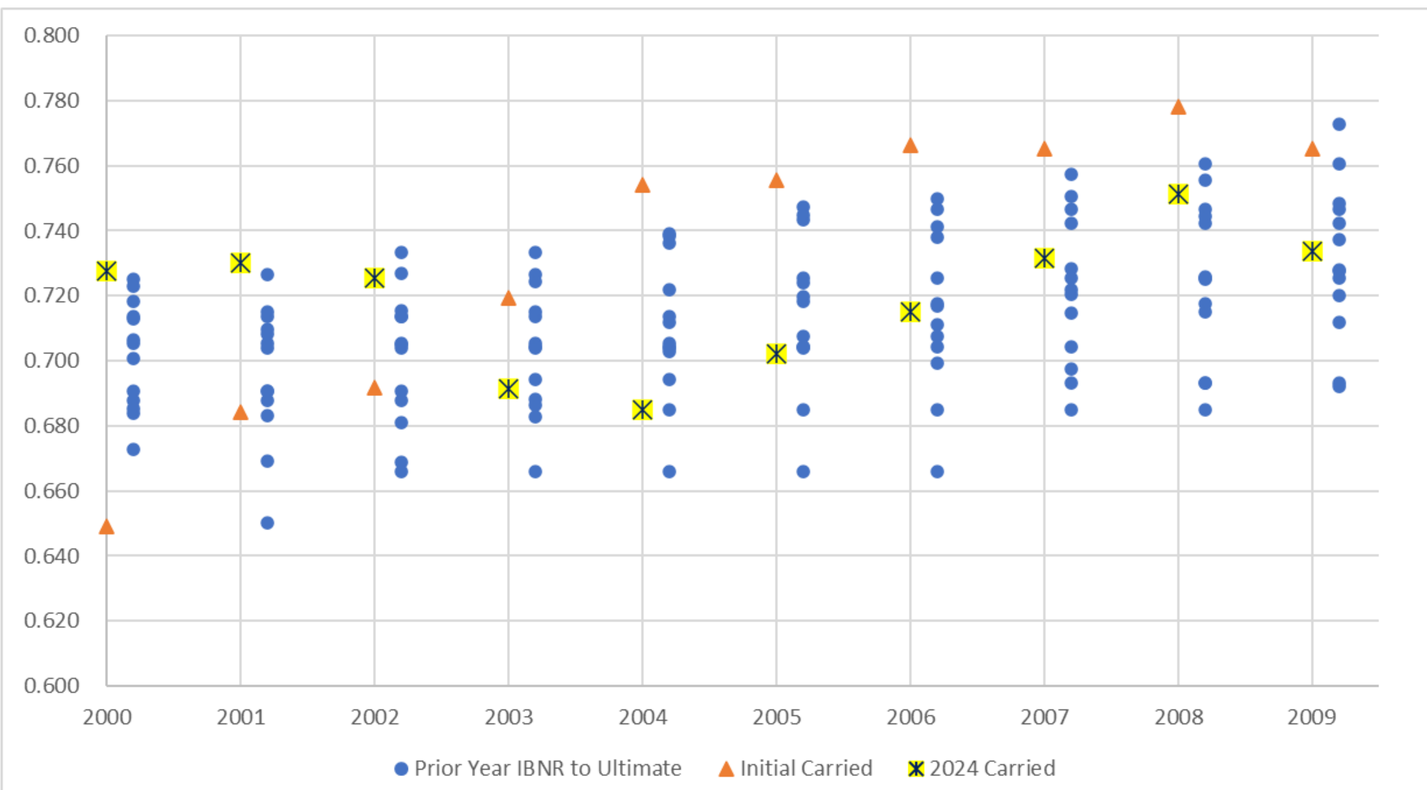

Chart B15. Industry general liability IBNR-to-ultimate ratios at 12 months.

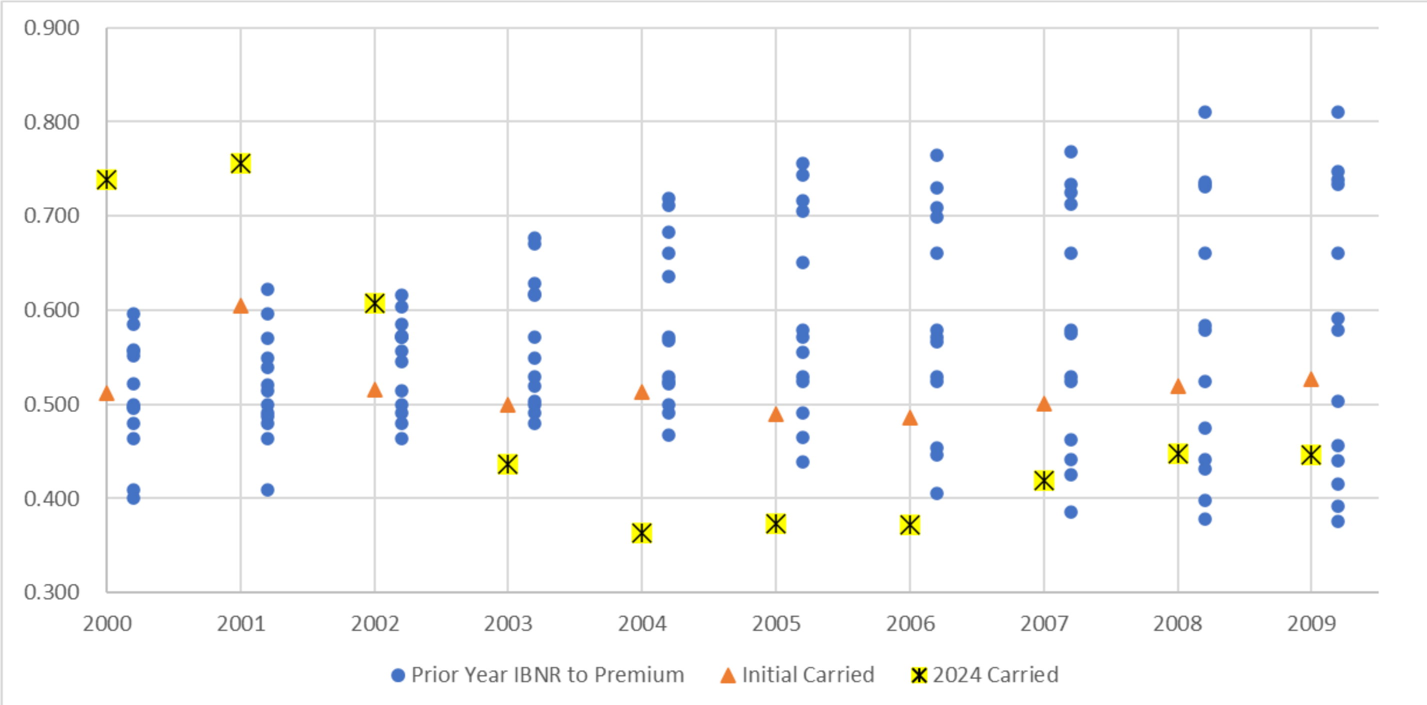

Chart B16. Industry general liability IBNR-to-premium ratios at 12 months.

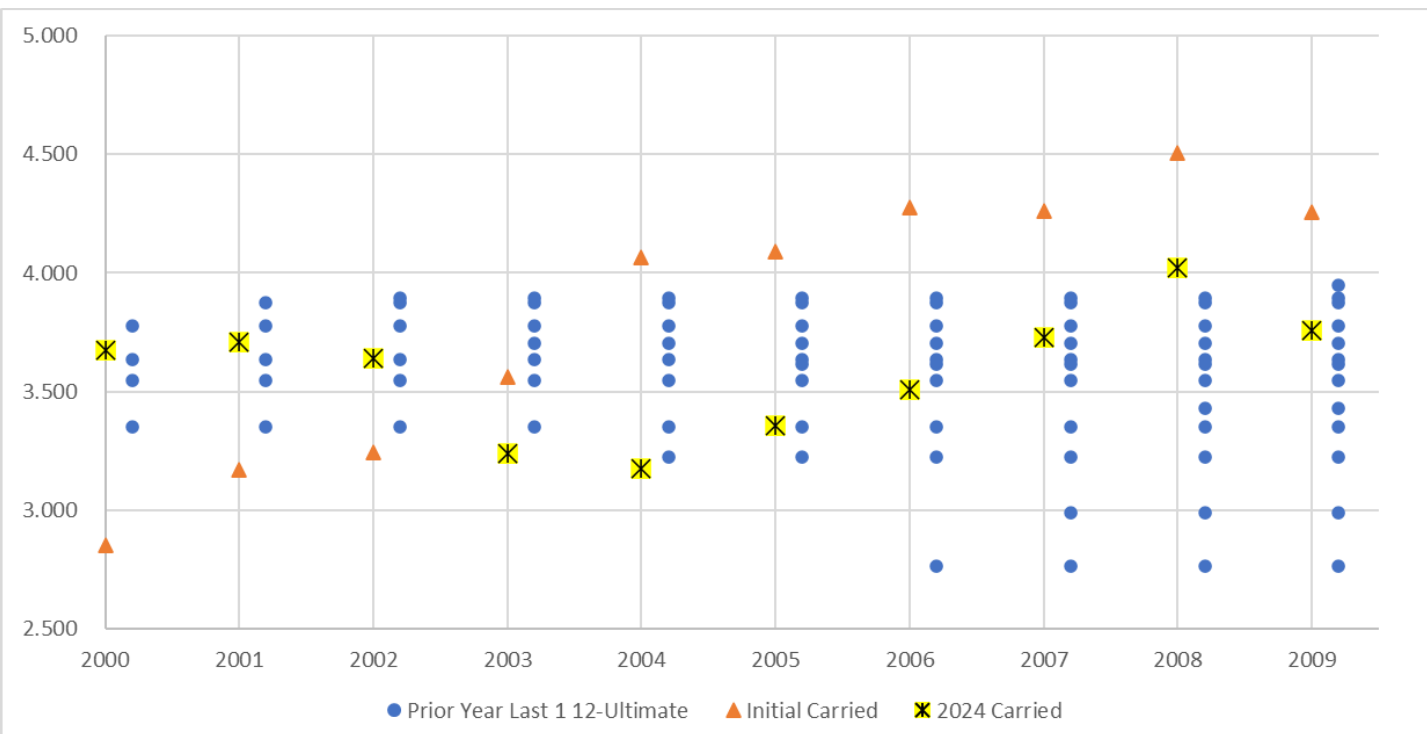

Chart B17. Industry general liability Last 1 12 to ultimate at 12 months.

Table B17. Frequency of ultimate out of range, GL. Incurred years 2000–2009.

Valuation Month	12
RDF	1
IBNR to Ultimate	2
IBNR to Premium	6
Last 1 LDF	3

Table B18: Stationarity/range coefficients of variation, GL: Means. Incurred years 2000–2009.

Valuation Month	12
RDF	0.046
IBNR to Ultimate	0.016
IBNR to Premium	0.050
Last 1 LDF	0.020

Table B19. Stationarity/range coefficients of variation, GL: Standard deviations. Incurred years 2000–2009.

Valuation Month	12
RDF	0.188
IBNR to Ultimate	0.110
IBNR to Premium	0.371
Last 1 LDF	0.300

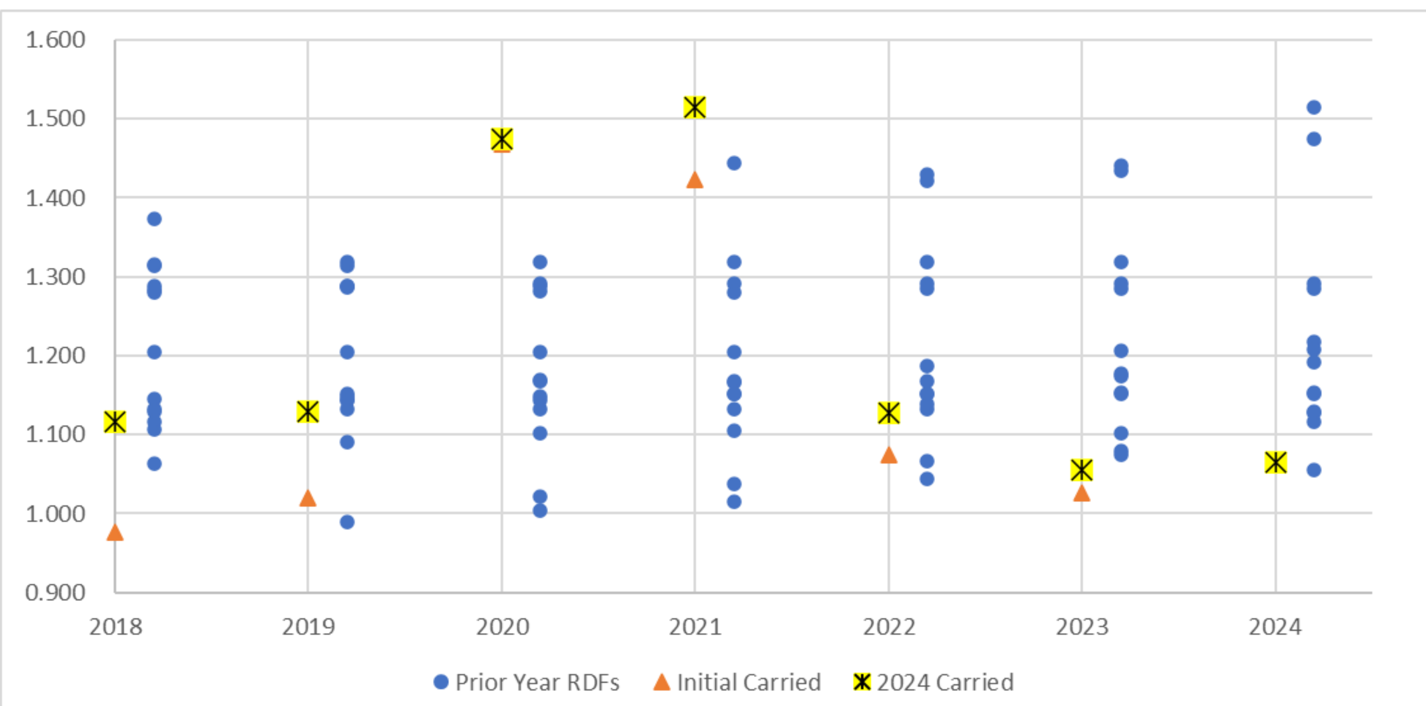

Chart B18. Industry general liability RDFs at 12 months pandemic years.

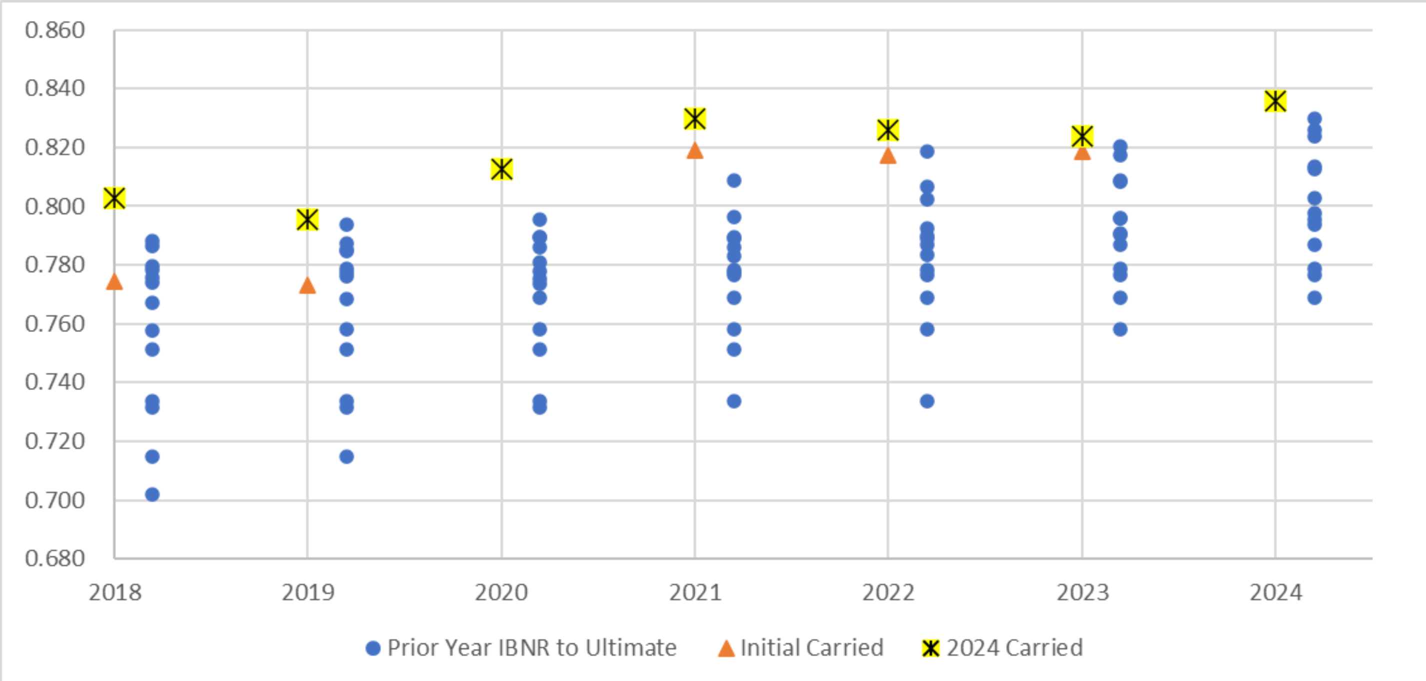

Chart B19. Industry general liability IBNR-to-ultimate ratios at 12 months.

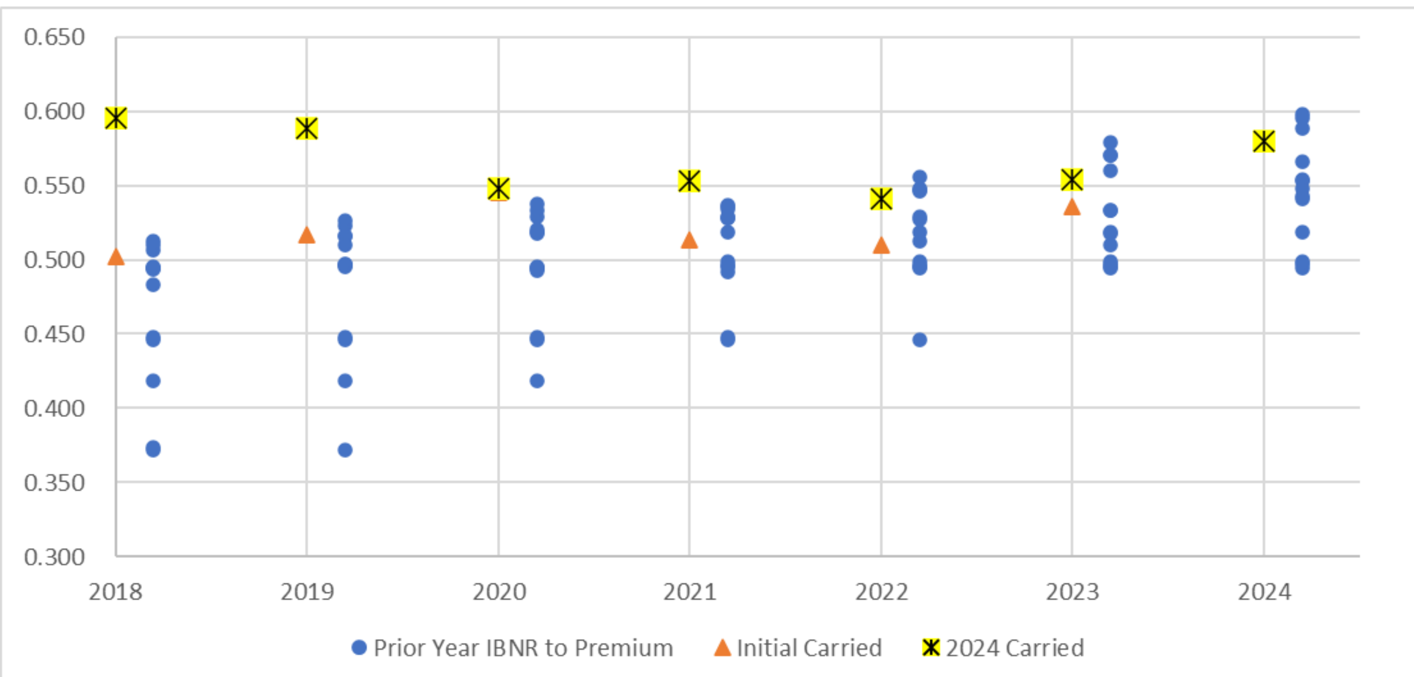

Chart B20. Industry general liability IBNR-to-premium ratios at 12 months pandemic years.

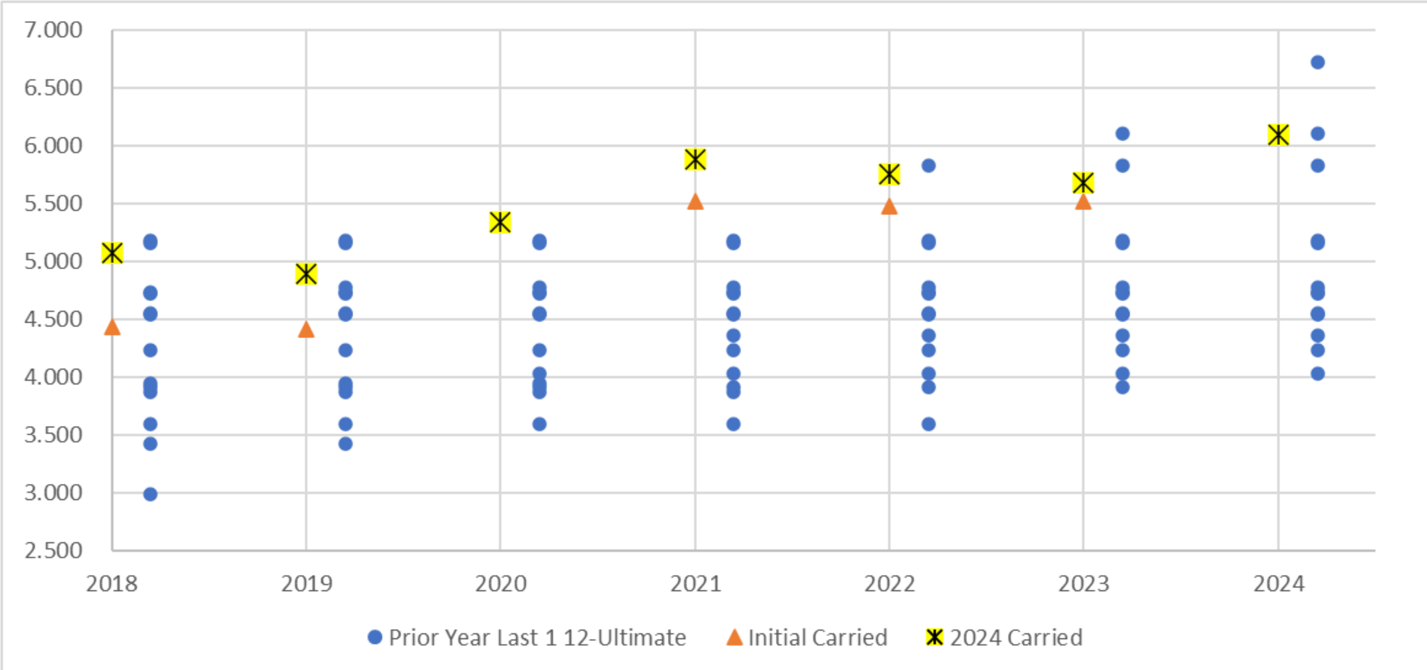

Chart B21. Industry general liability Last 1 12 to ultimate at 12 months pandemic years.