

Table A2. Calendar-year cumulative reported loss development factors.

	12 - 60	24 - 60	36 - 60	12 - Ult	24 - Ult	36 - Ult
1991	1.723	1.222	1.086			
1992	1.695	1.214	1.082			
1993	1.594	1.208	1.084			
1994	1.658	1.209	1.074			
1995	1.626	1.193	1.071			
1996	1.606	1.201	1.075	1.642	1.229	1.100
1997	1.640	1.215	1.082	1.677	1.242	1.106
1998	1.656	1.239	1.090	1.693	1.267	1.114
1999	1.722	1.247	1.087	1.755	1.271	1.107
2000	1.786	1.270	1.100	1.814	1.289	1.117
2001	1.837	1.306	1.122	1.891	1.344	1.156
2002	1.760	1.288	1.112	1.824	1.335	1.152
2003	1.709	1.242	1.083	1.731	1.258	1.098
2004	1.711	1.261	1.089	1.743	1.285	1.109
2005	1.636	1.255	1.098	1.688	1.295	1.132
2006	1.653	1.249	1.098	1.671	1.262	1.110
2007	1.631	1.238	1.099	1.671	1.269	1.126
2008	1.651	1.228	1.090	1.684	1.253	1.111
2009	1.653	1.233	1.087	1.690	1.262	1.112
2010	1.667	1.241	1.096	1.710	1.272	1.125
2011	1.683	1.237	1.089	1.717	1.262	1.111
2012	1.806	1.289	1.112	1.862	1.329	1.147
2013	1.801	1.288	1.111	1.836	1.313	1.133
2014	1.847	1.309	1.124	1.904	1.350	1.159
2015	1.881	1.331	1.130	1.935	1.369	1.162
2016	1.948	1.359	1.140	2.007	1.401	1.174
2017	1.924	1.358	1.146	1.984	1.401	1.182
2018	1.968	1.381	1.157	2.039	1.431	1.199
2019	2.005	1.376	1.154	2.091	1.435	1.203
2020	1.972	1.351	1.134	2.035	1.394	1.170
2021	1.947	1.356	1.146	2.024	1.410	1.191
2022	2.138	1.463	1.201	2.256	1.544	1.268
2023	2.181	1.441	1.191	2.309	1.526	1.261
2024	2.162	1.434	1.176	2.292	1.521	1.247

Table A4. RDFs at age 24.

[illegible]

Table A5. RDFs at age 36.

[illegible]

Table A6. RDFs at age 12.

[illegible]

Table A7. IBNR-to-ultimate at age 24.

[illegible]

Table A8. IBNR-to-ultimate at age 36.

[illegible]

Table A9. IBNR to net earned premium at age 12.

[illegible]

Table A10. IBNR to net earned premium at age 24.

[illegible]

Table A11. IBNR to net earned premium at age 36.

[illegible]

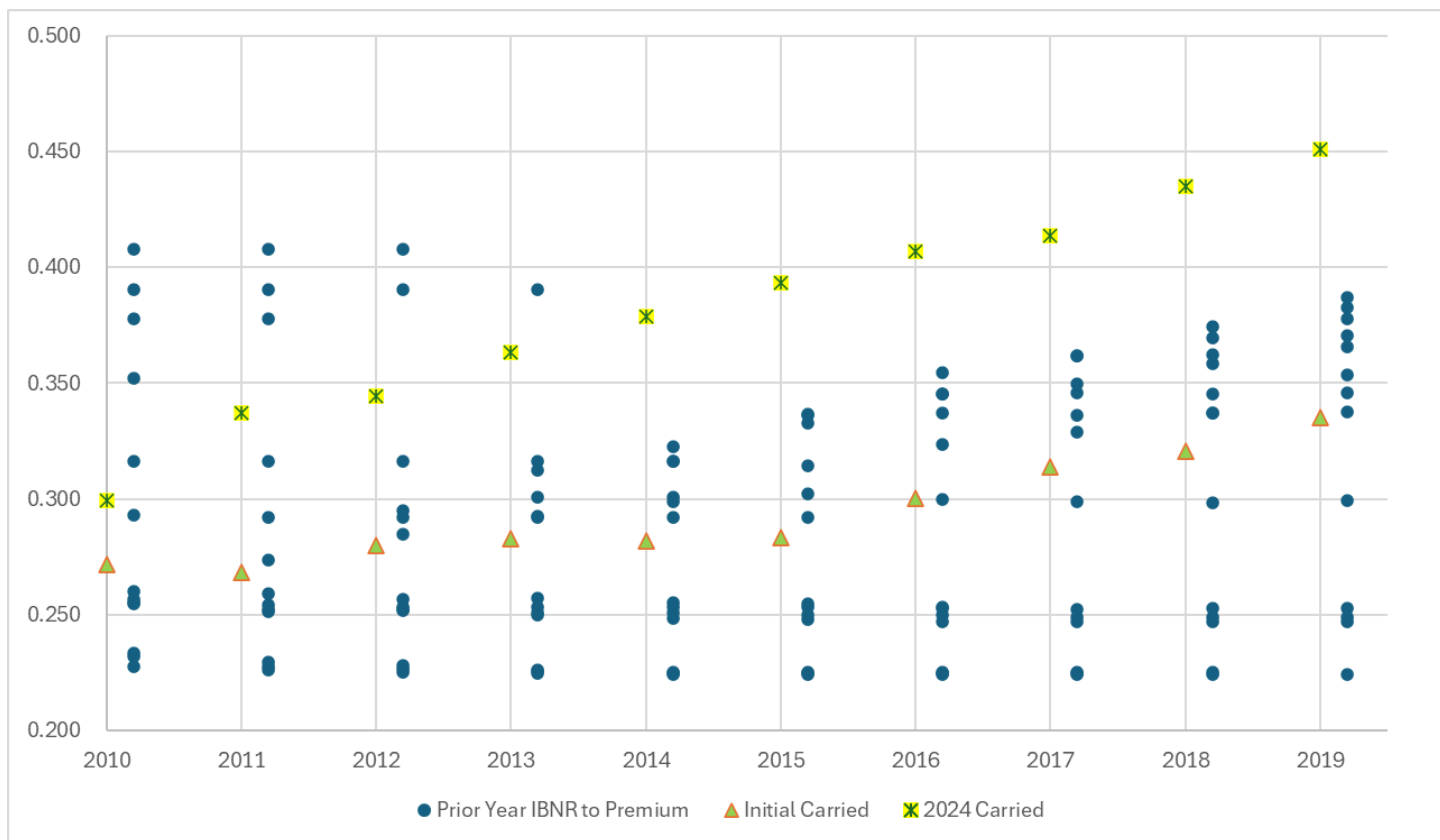


Chart A2. Industry AL RDFs at 12 months.

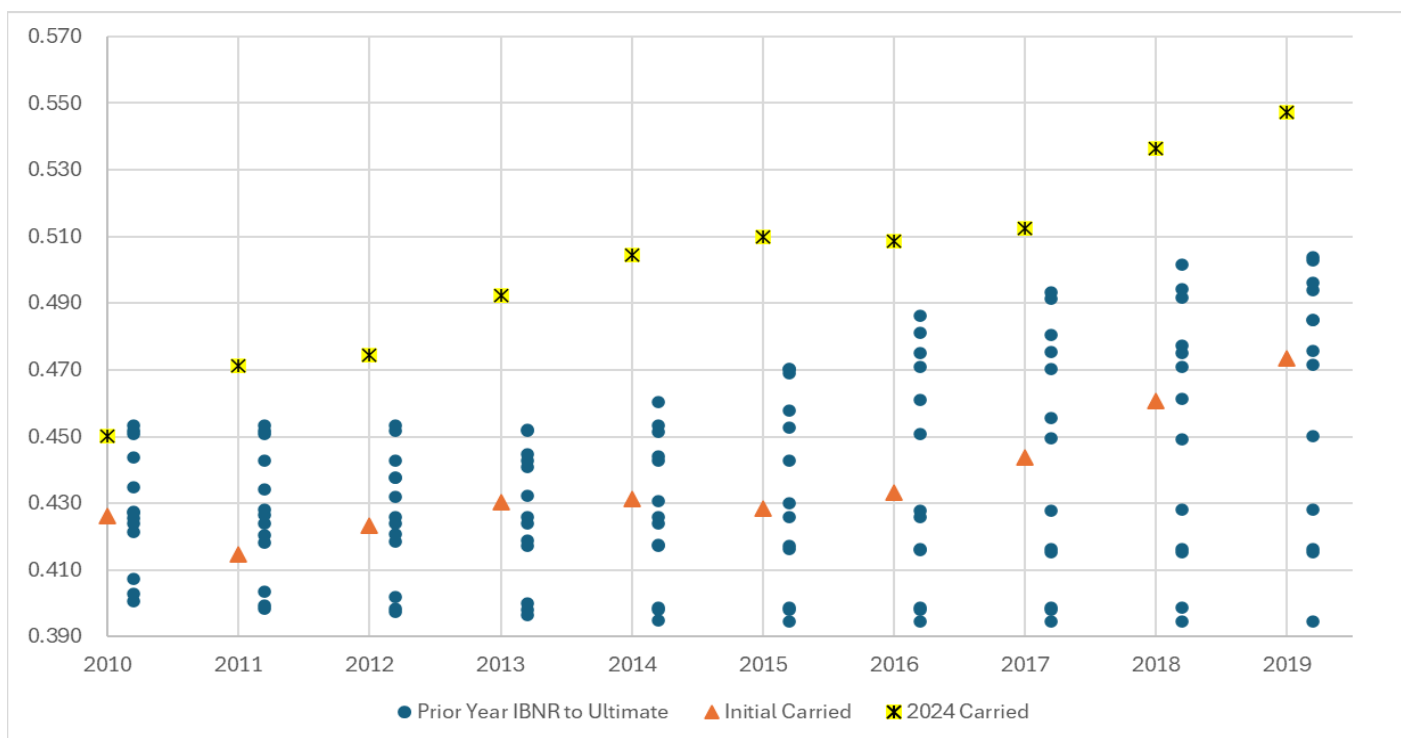


Chart A3. Industry AL IBNR-to-ultimate ratios at 12 months.

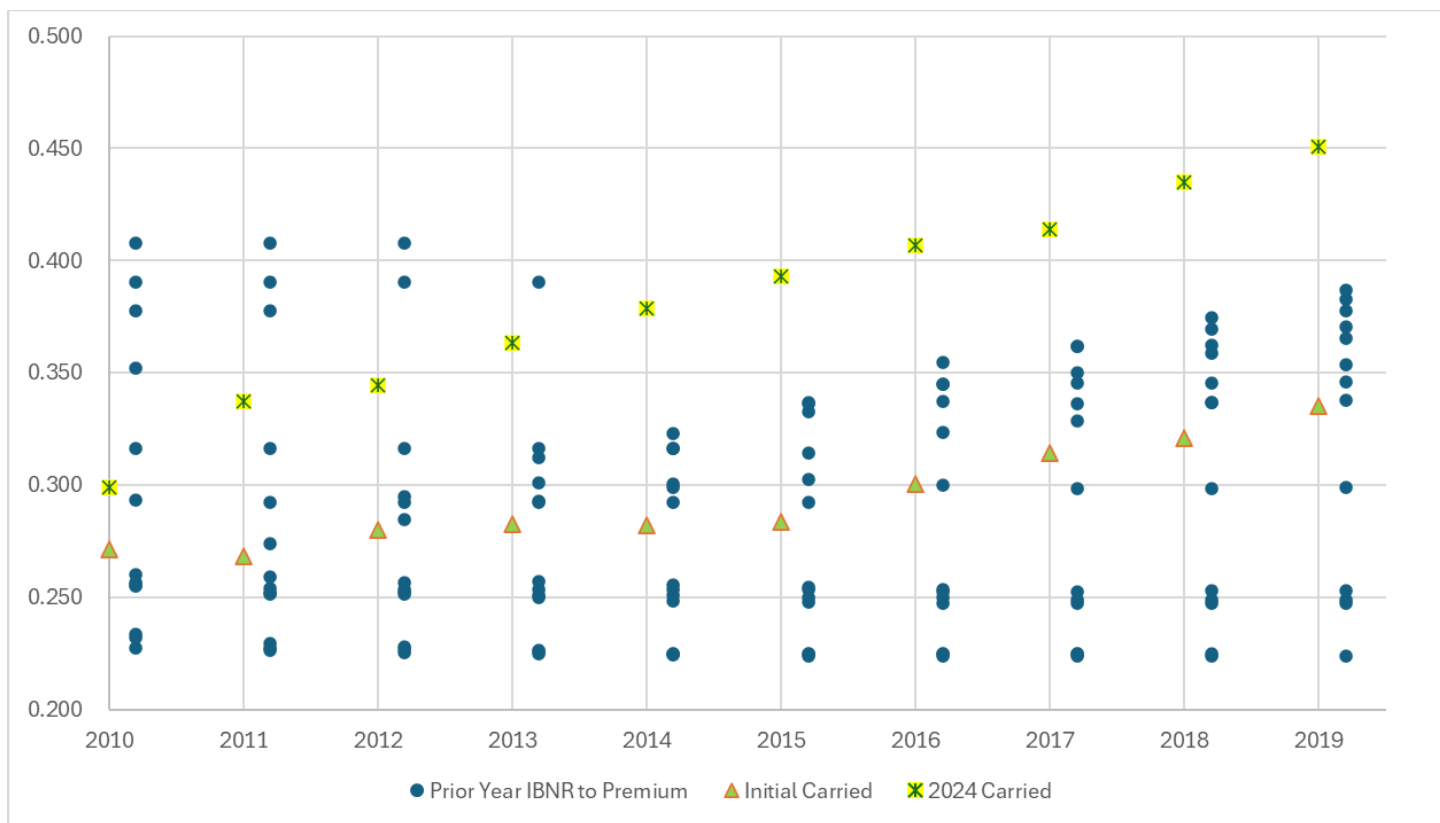


Chart A4. Industry AL IBNR-to-premium ratios at 12 months.

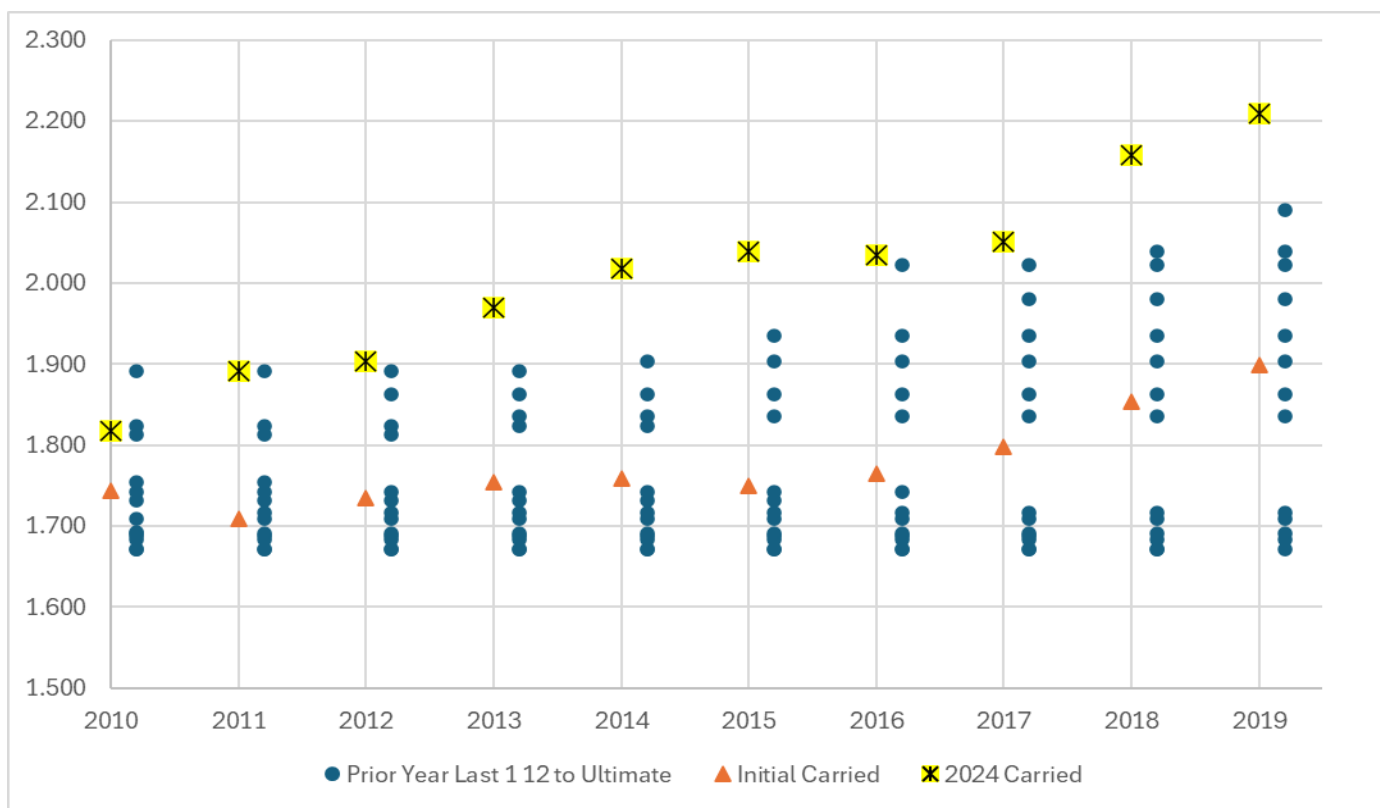


Chart A5. Industry AL Last 12 to ultimate at 12 months.



Chart A6. Industry AL RDFs at 24 months.

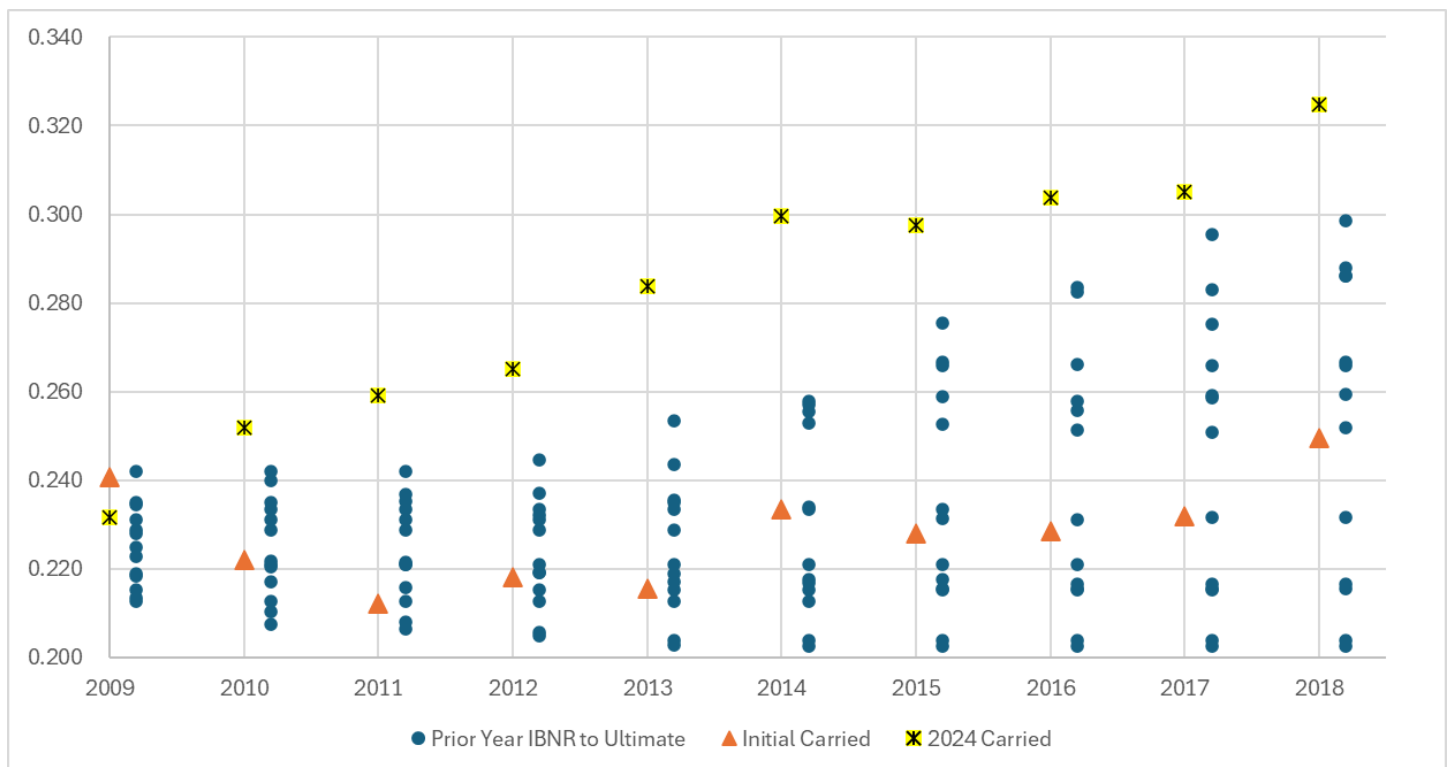


Chart A7. Industry AL IBNR-to-ultimate ratios at 24 months.

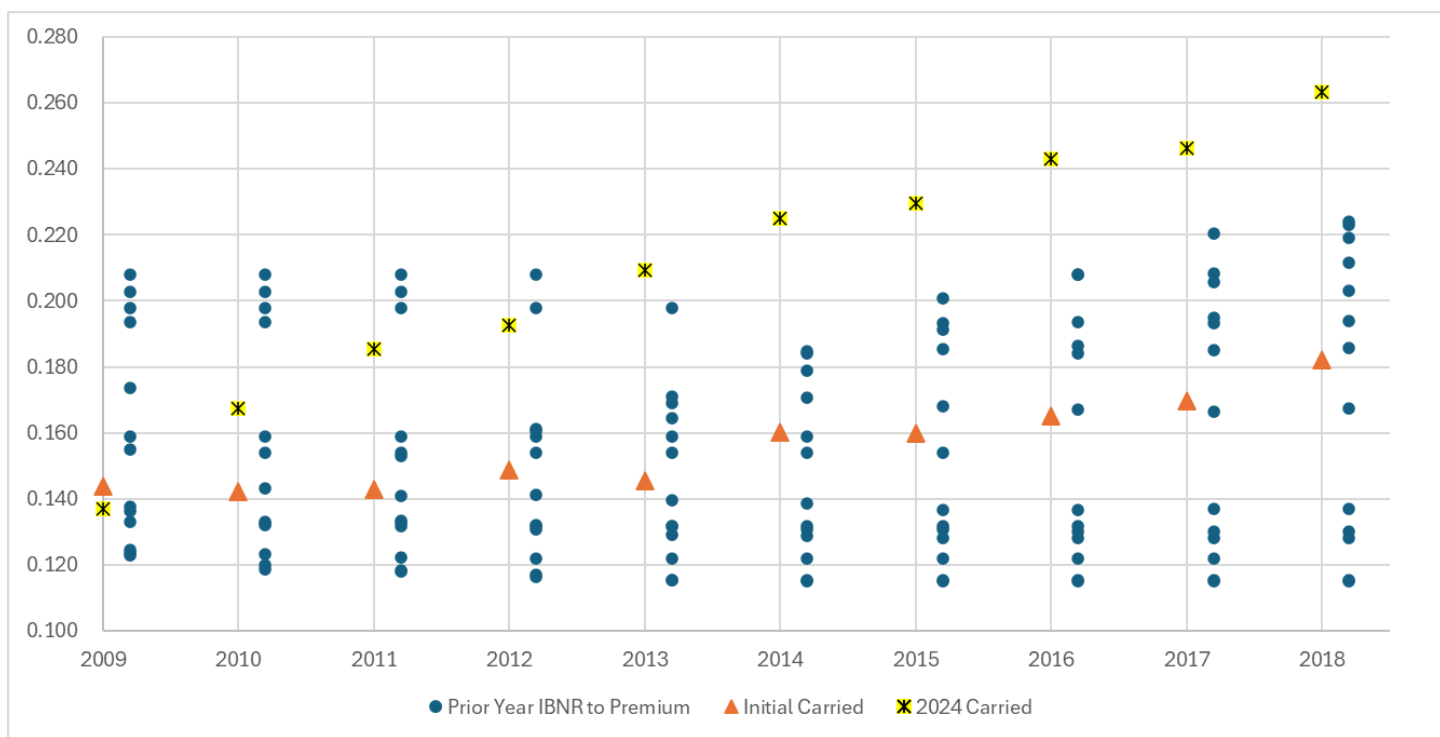


Chart A8. Industry AL IBNR-to-premium ratios at 24 months.

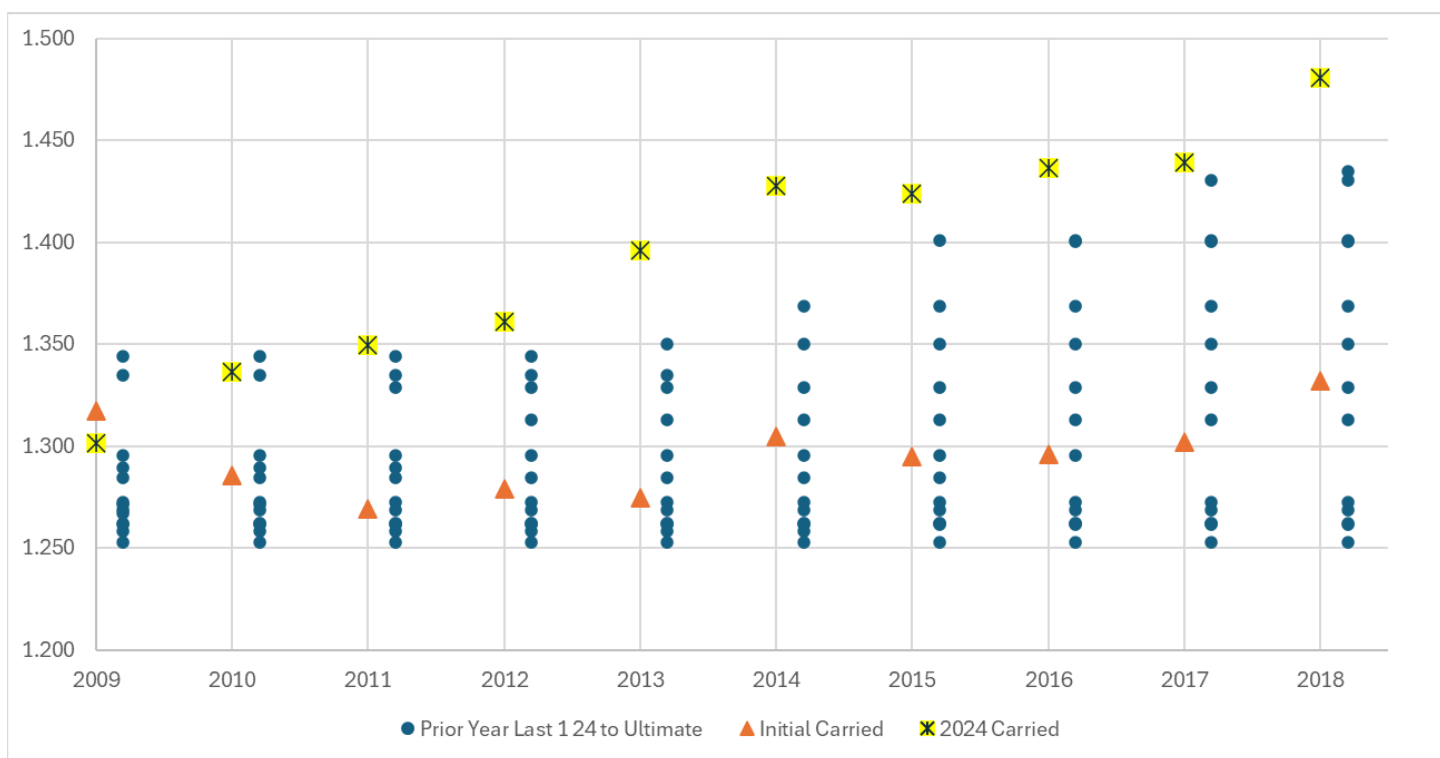


Chart A9. Industry AL Last 1 24 to ultimate at 24 months.

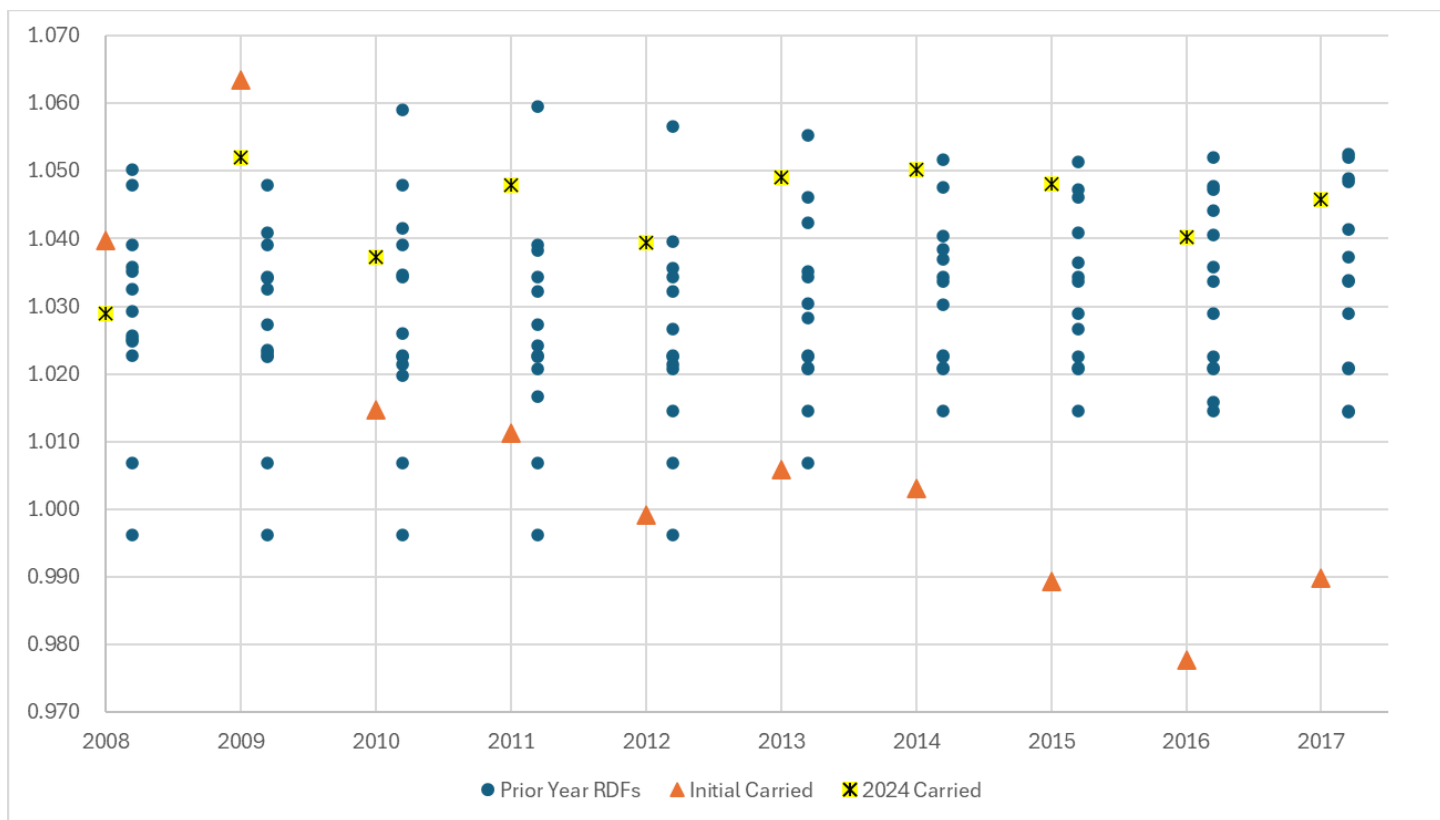


Chart A10. Industry AL RDFs at 36 months.

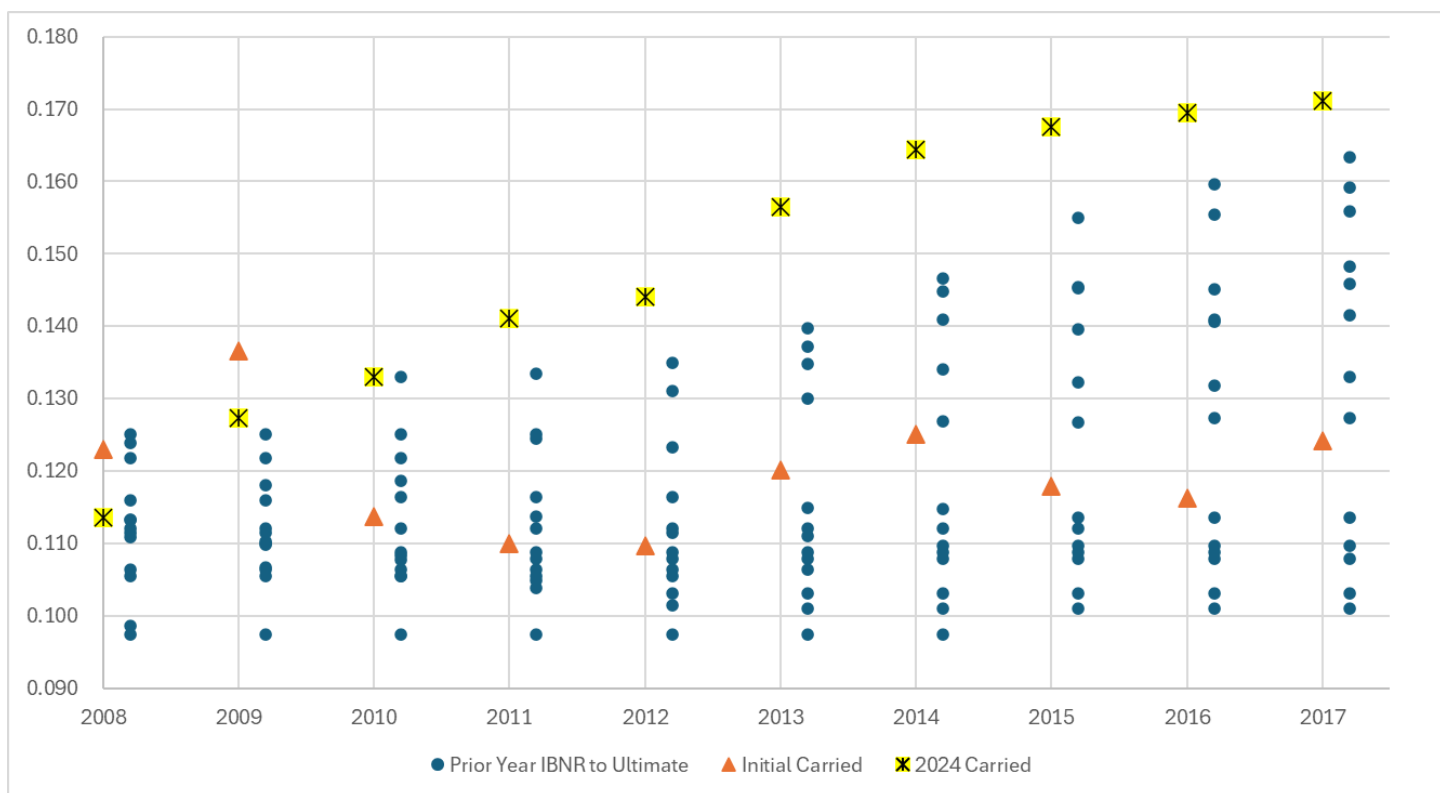


Chart A11. Industry AL IBNR-to-ultimate ratios at 36 months.

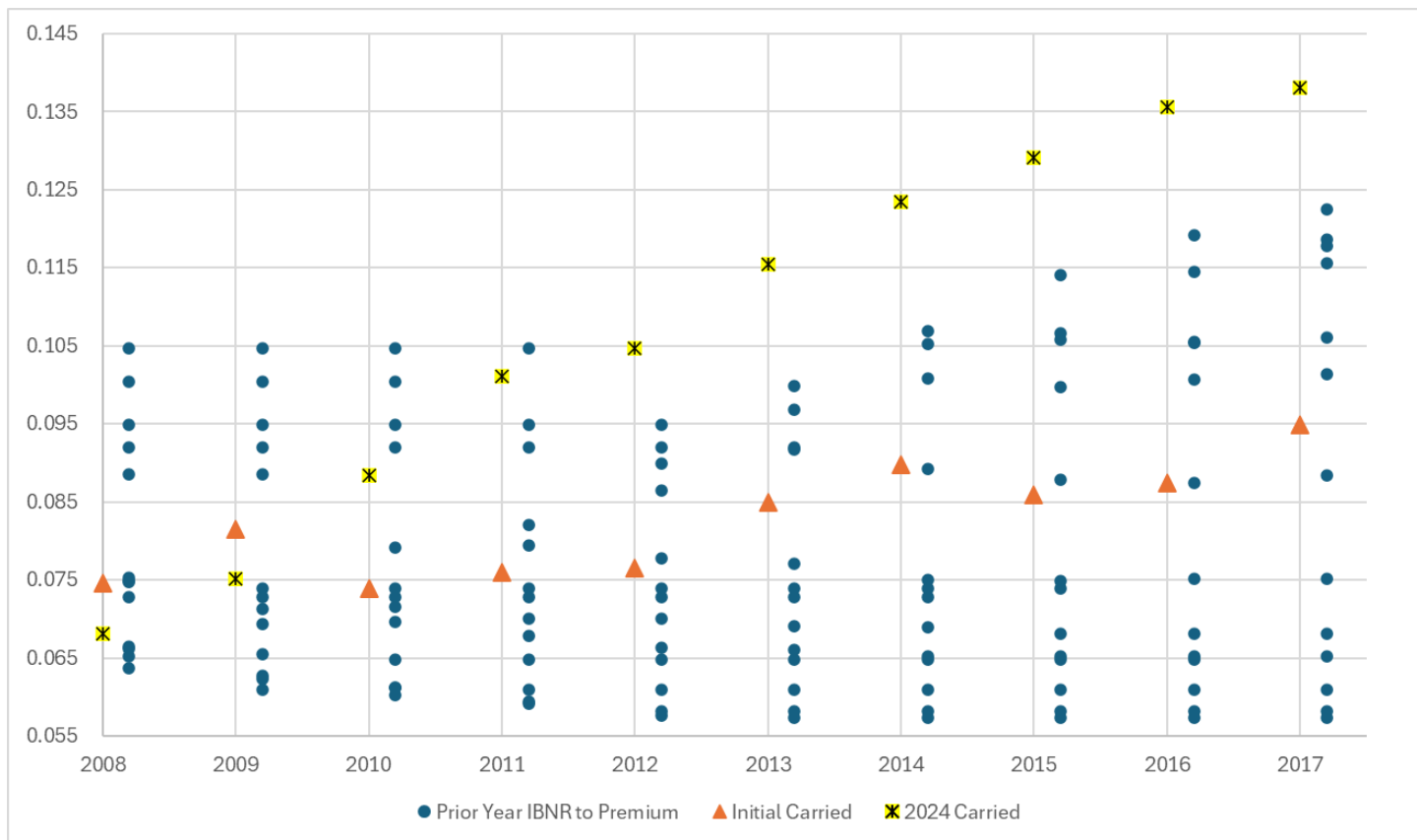


Chart A12. Industry AL IBNR-to-premium ratios at 36 months.

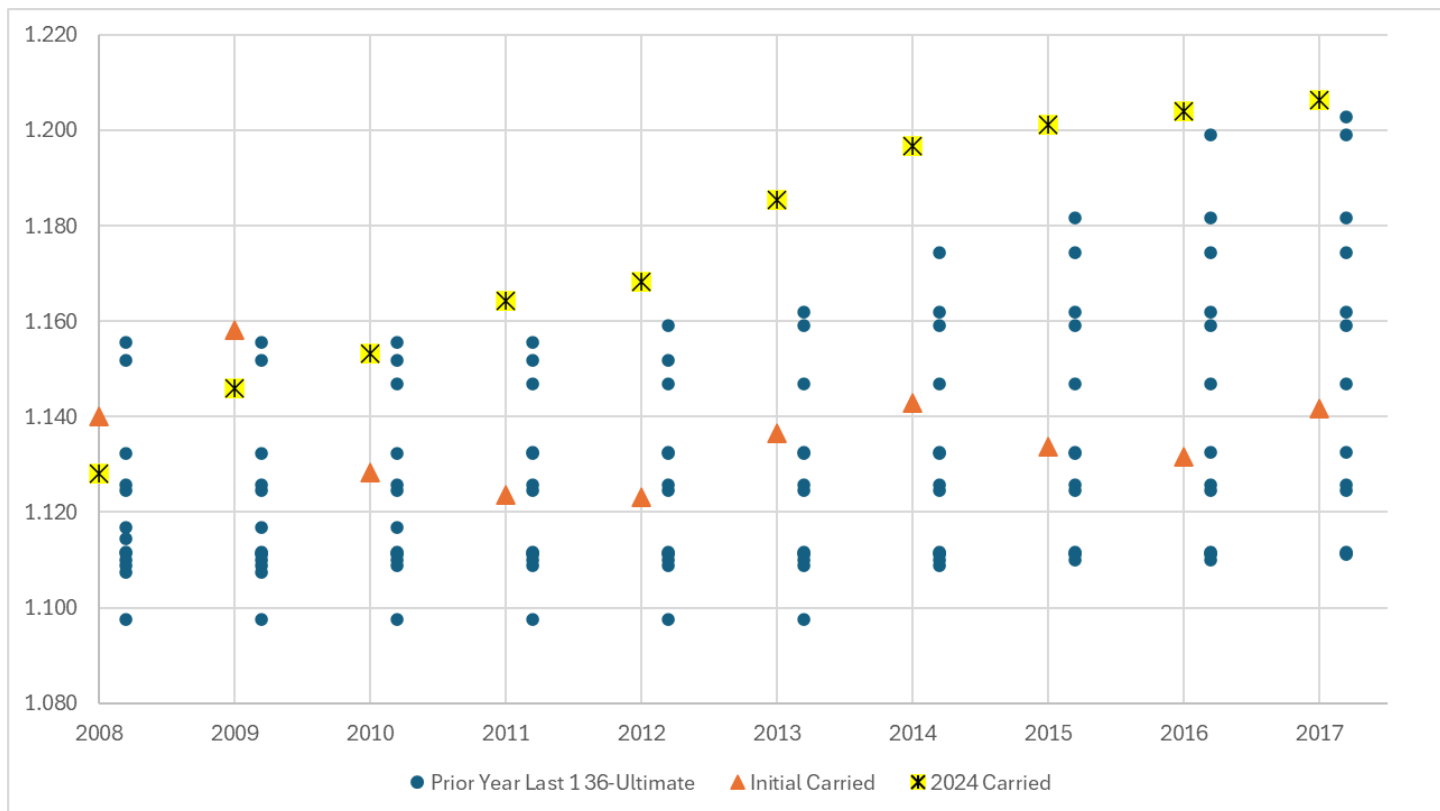


Chart A13. Industry AL Last 136 to ultimate at 36 months.

Table A12. RDFs in absolute error (%), AL. Incurred years 2010–2019.

	2010–2019	2014–2019
Valuation Month	12	12
IBNR to ultimate	–64%	–74%
IBNR to premium	–64%	–76%
Last 1 LDF	–9%	–16%
Initial booked	–62%	–72%

Table A13. Range as percentage of ultimate, AL. Incurred years 2010–2019.

Valuation Month	12	24	36
RDF	14%	8%	5%
IBNR to ultimate	12%	7%	5%
IBNR to premium	20%	12%	7%
Last 1 LDF	14%	9%	6%

Table A14. Frequency of ultimate out of range, AL. Incurred years 2010–2019 (10 possible).

Valuation Month	12	24	36
RDF	2	1	1
IBNR to ultimate	9	9	8
IBNR to premium	6	6	6
Last 1 LDF	8	8	7

Table A15. Stationarity/range coefficients of variation, AL: Means. Incurred years 2010–2019.

Valuation Month	12	24	36
RDF	0.009	0.005	0.003
IBNR to ultimate	0.027	0.041	0.057
IBNR to premium	0.051	0.051	0.052
Last 1 LDF	0.022	0.013	0.008

Table A16. Stationarity/range coefficients of variation, AL: Standard deviations. Incurred years 2010–2019.

Valuation Month	12	24	36
RDF	0.076	0.062	0.120
IBNR to ultimate	0.296	0.447	0.363
IBNR to premium	0.157	0.161	0.229
Last 1 LDF	0.300	0.330	0.242

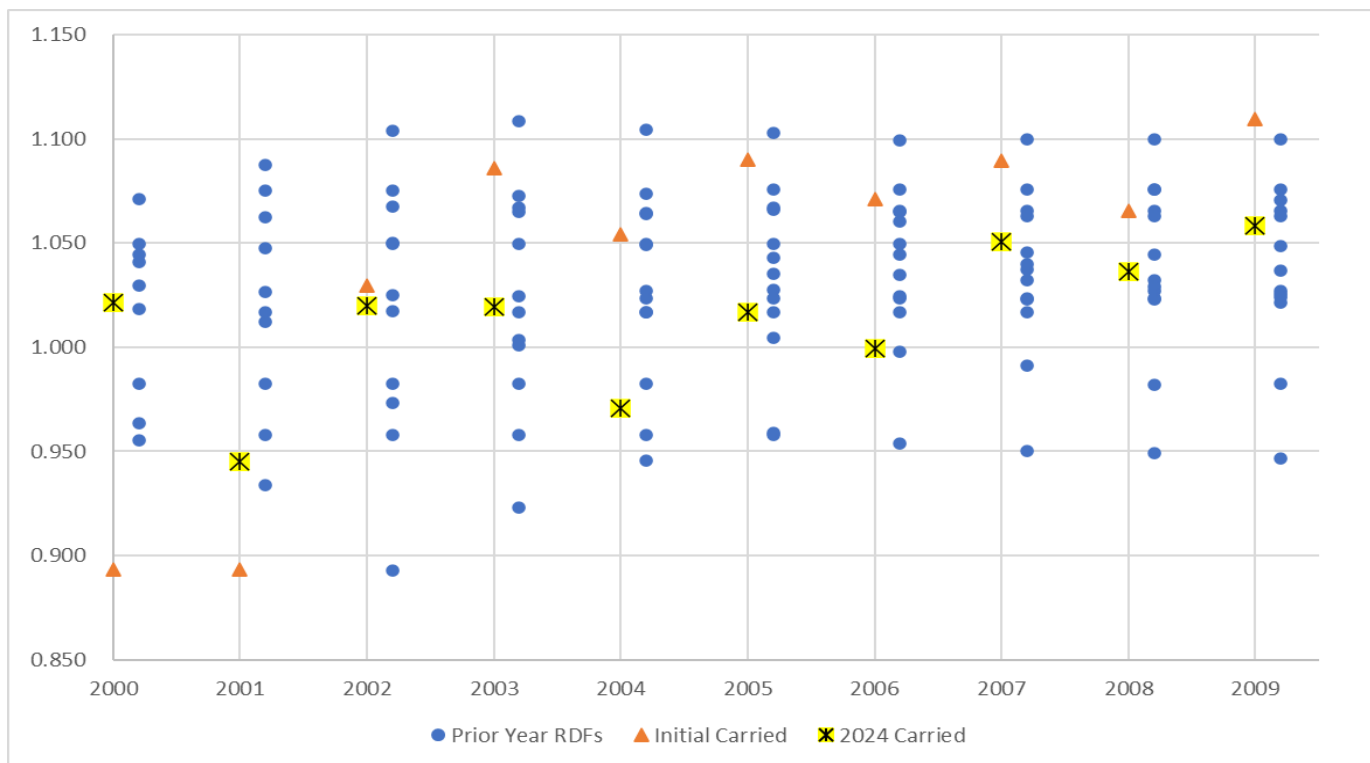


Chart A14. Industry AL RDFs at 12 months.

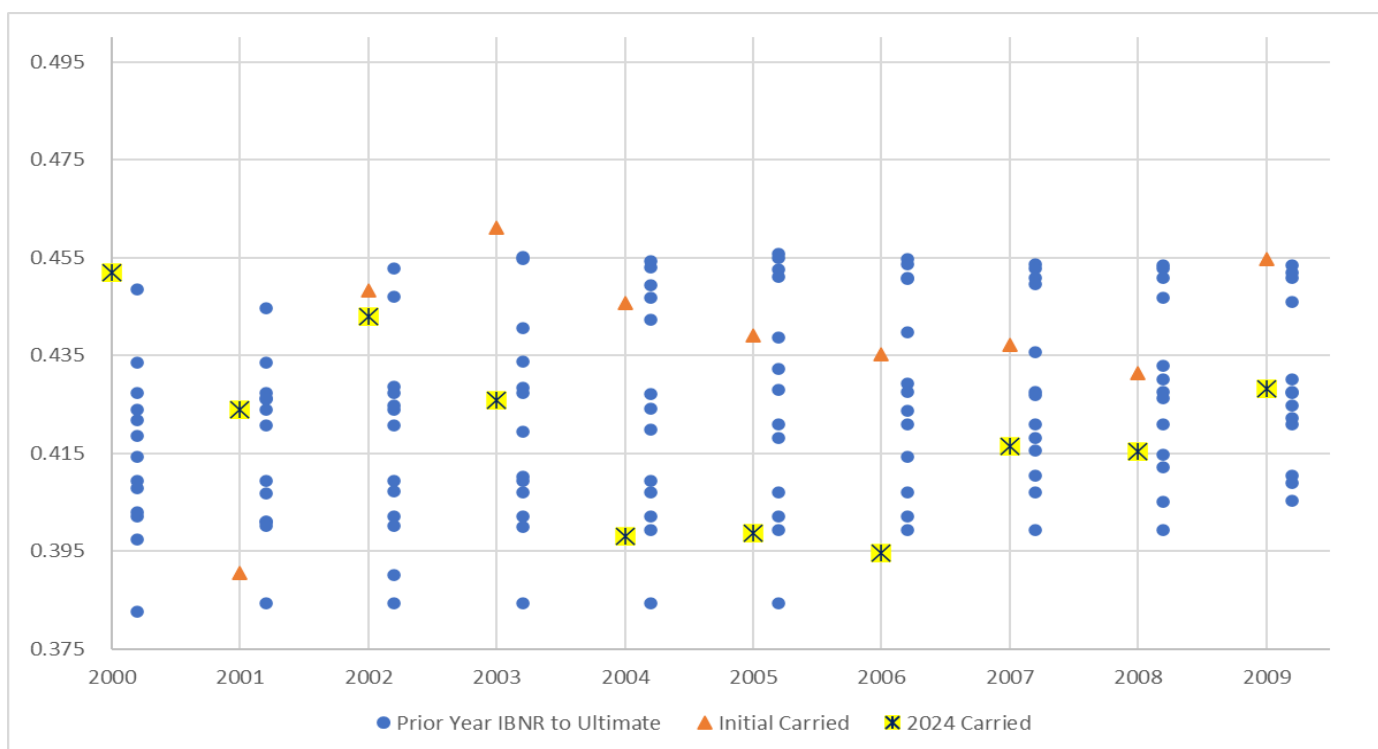


Chart A15. Industry AL IBNR-to-ultimate ratios at 12 months.

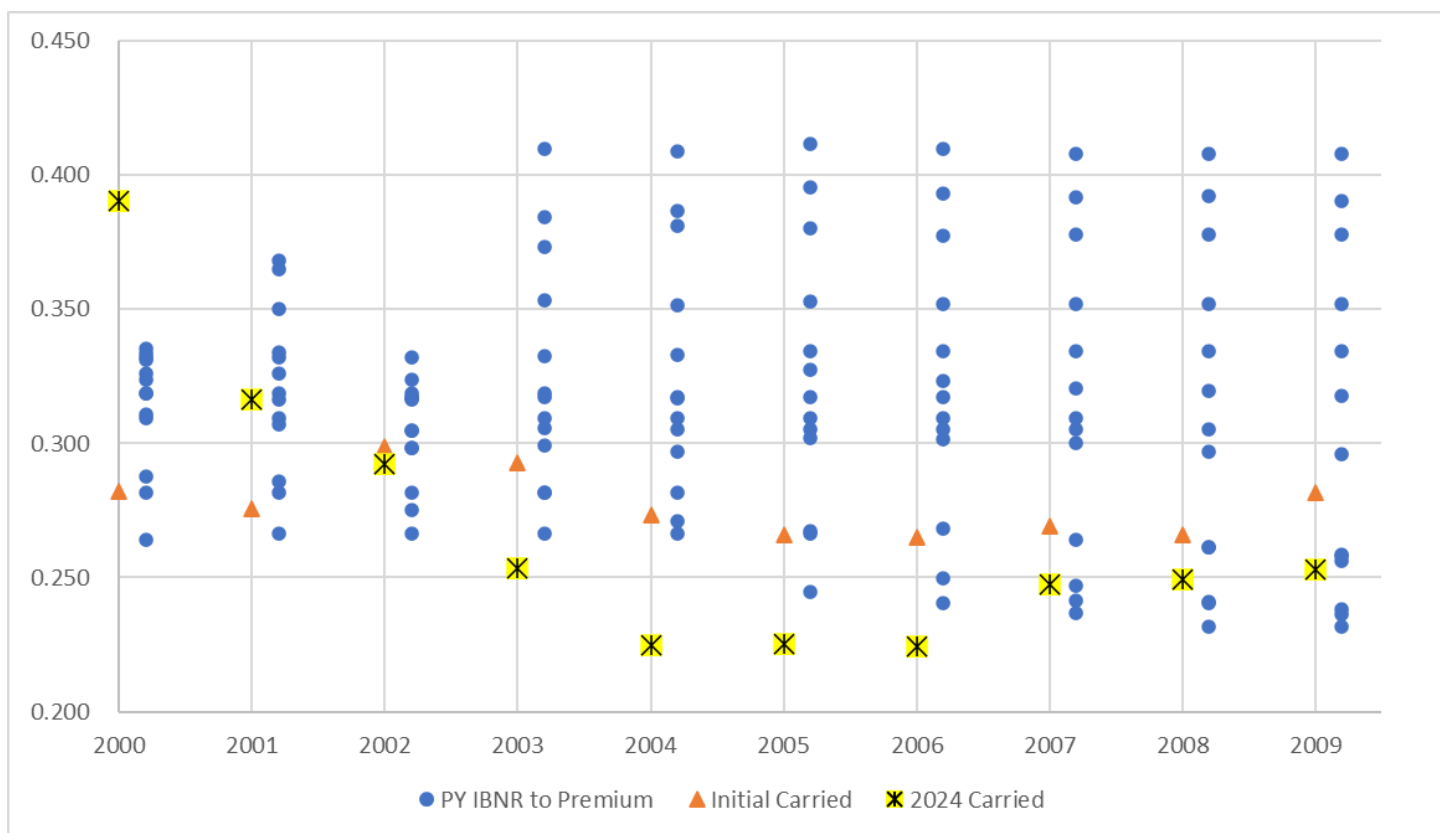


Chart A16. Industry AL IBNR-to-premium ratios at 12 months.

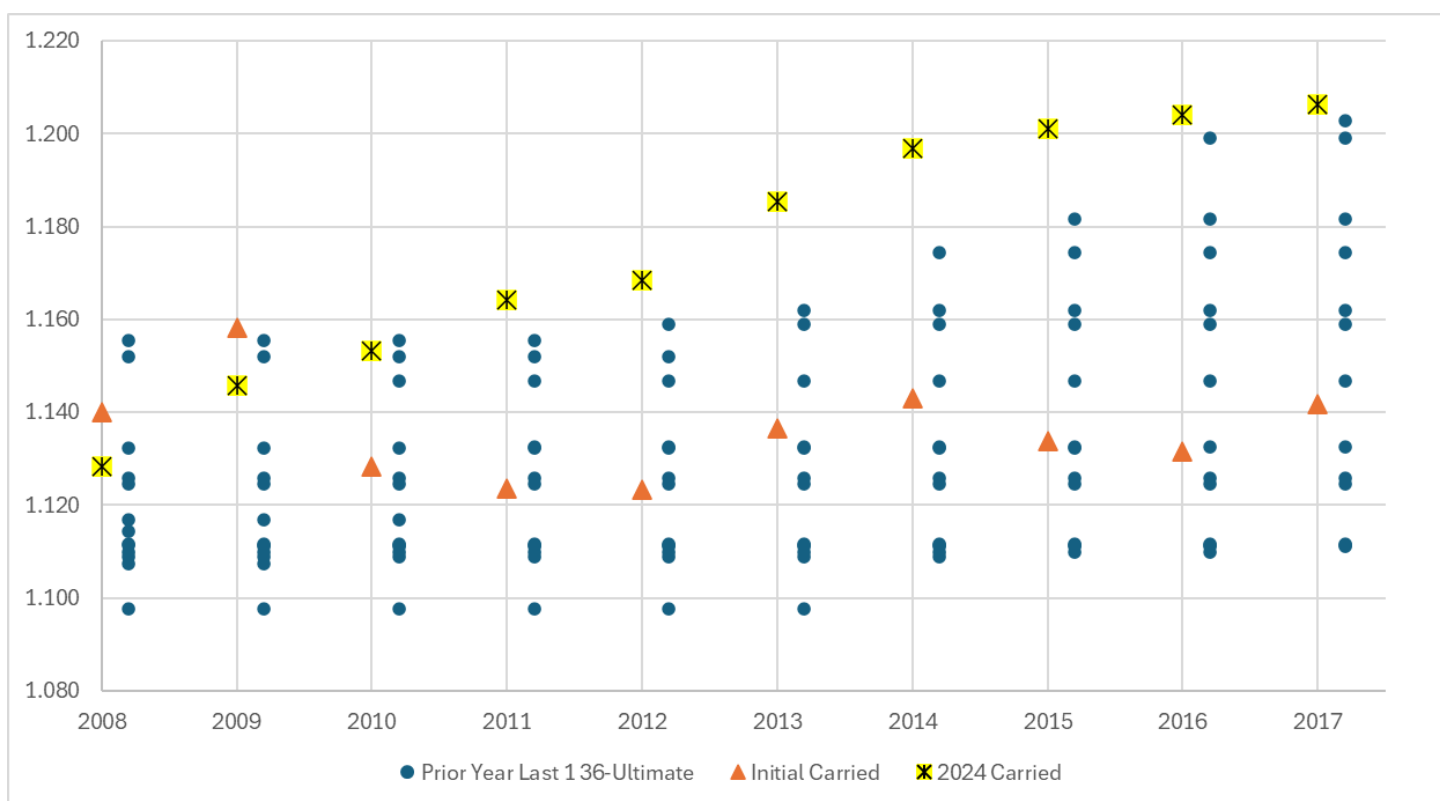


Chart A17. Industry AL Last 12 to ultimate at 12 months.

Table A17. Frequency of ultimate out of range, AL. Incurred years 2000–2009 (10 possible).

<u>Valuation Month</u>	<u>12</u>
RDF	0
IBNR to Ultimate	2
IBNR to Premium	5
Last 1 LDF	1

Table A18. Stationarity/range coefficients of variation, AL: Means. Incurred years 2000–2009.

<u>Valuation Month</u>	<u>12</u>
RDF	0.008
IBNR to ultimate	0.013
IBNR to premium	0.025
Last 1 LDF	0.011

Table A19. Stationarity/range coefficients of variation, AL: Standard deviations. Incurred years 2000–2009.

<u>Valuation Month</u>	<u>12</u>
RDF	0.159
IBNR to Ultimate	0.124
IBNR to Premium	0.329
Last 1 LDF	0.170

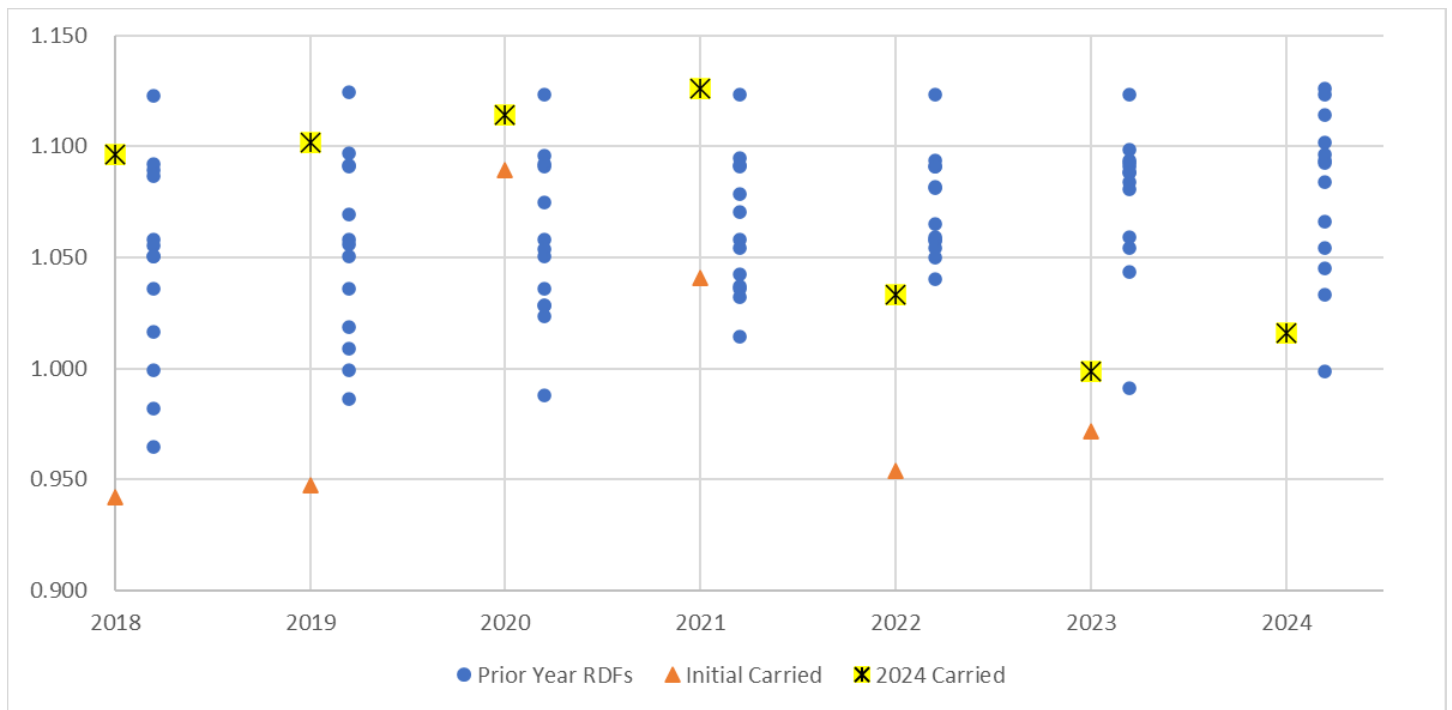


Chart A18. Industry AL RDFs at 12 months pandemic years.

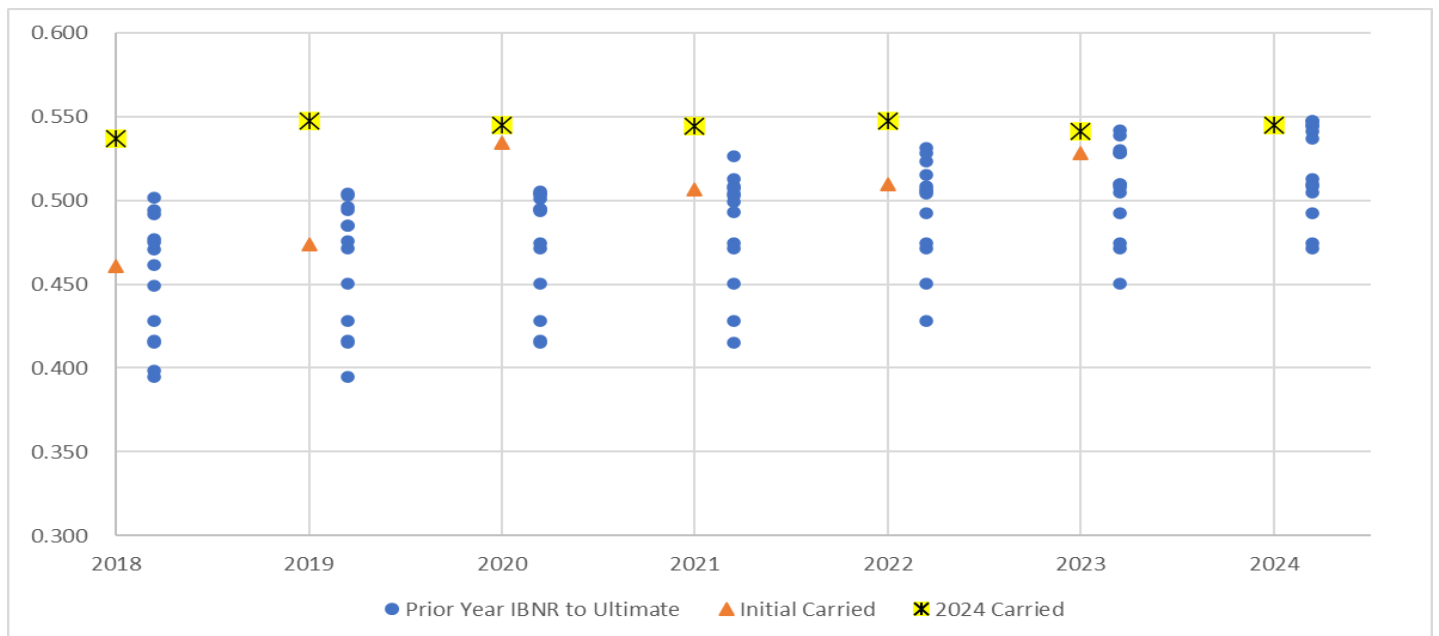


Chart A19. Industry AL IBNR-to-ultimate ratios at 12 months pandemic years.

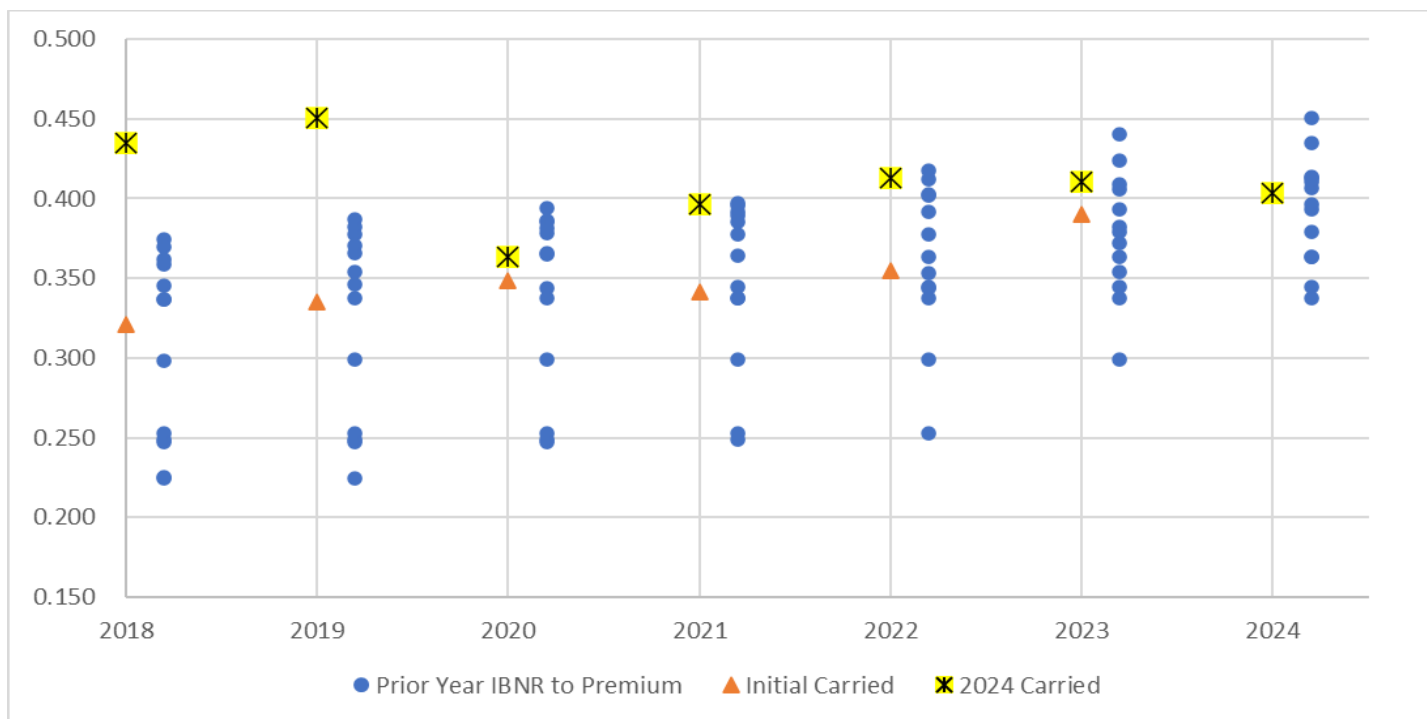


Chart A20. Industry AL IBNR-to-premium ratios at 12 months pandemic years.

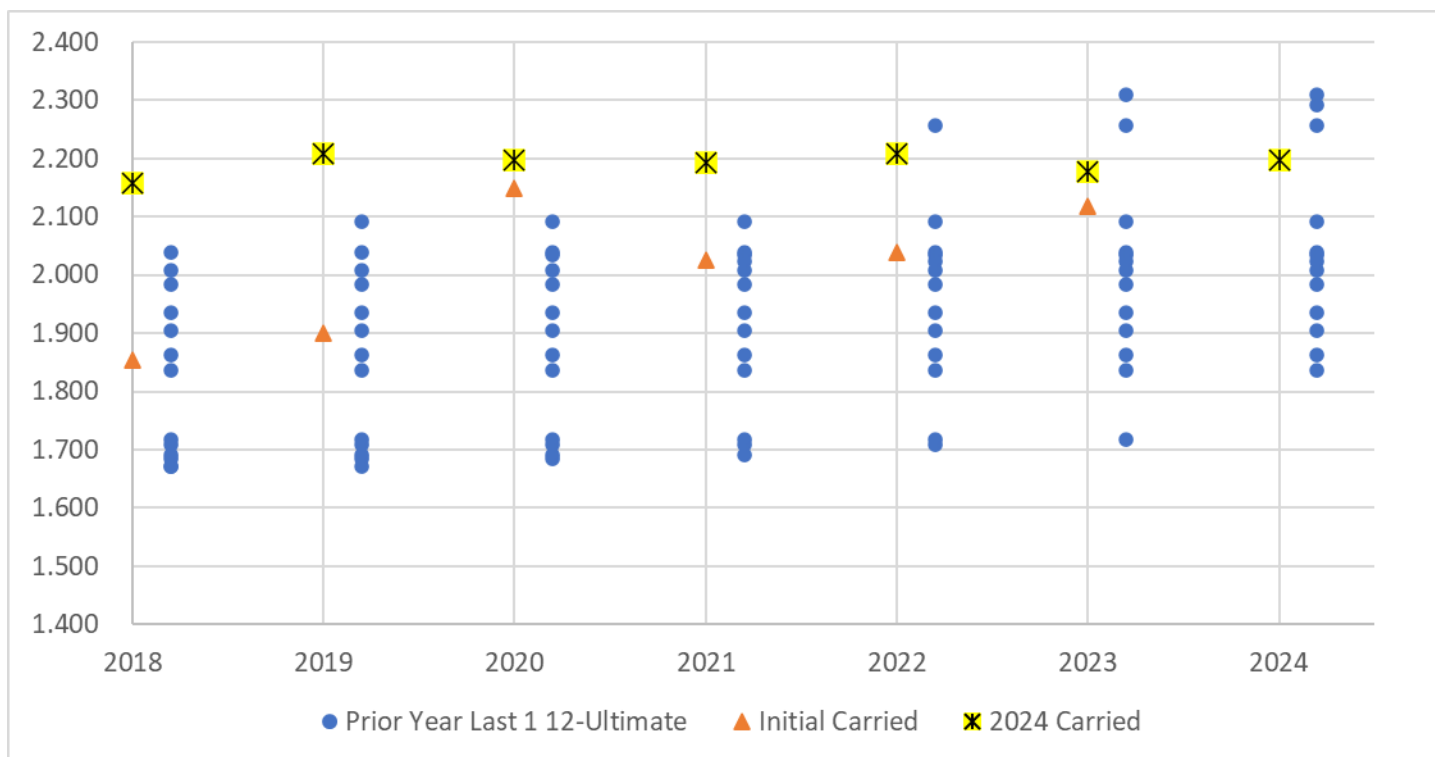


Chart A21. Industry AL Last 12 to ultimate at 12 months pandemic years.