

on

Commonwealth Automobile Reinsurers

101 Arch Street, Suite 400 Boston, Massachusetts 02110 www.commauto.com 617-338-4000

NOTICE OF MEETING

ACTUARIAL COMMITTEE

A meeting of the Actuarial Committee will be held virtually via Zoom video conferencing software,

WEDNESDAY, MAY 10, 2023, AT 10:00 A.M.

If you plan to attend this meeting and are not a member of this Committee, please RSVP by completing the Visitor Security Form located in the Contact Us/Visitor Information section of CAR's website. CAR will then forward to you, via email, meeting access information. Please do not share access information provided by CAR, but refer others wishing to attend the meeting to CAR's Visitor Security Form.

MEMBERS OF THE COMMITTEE

Ms. Sarah Clemens – Chair MAPFRE U.S.A. Corporation

Ms. Kara Boehm Allstate Insurance Group Safety Insurance Company Mr. Glenn Hiltpold Mr. William Kelley The Hanover Insurance Company Quincy Mutual Group Mr. Todd Lehmann BRZ Insurance, LLC Mr. Tiago Prado Ms. Lynellen Ramirez Arbella Insurance Group Mr. Mark Winiker A-Affordable Insurance Agency, Inc. Liberty Mutual Insurance Companies Ms. Meredith Woodcock Vermont Mutual Insurance Group Mr. Joshua Wykle Mr. Hao Zhang Plymouth Rock Assurance Corporation

AGENDA

\mathbf{AC}

22.01 Records of Previous Meeting

The Records of the Actuarial Committee meeting of May 26, 2022 should be read and approved.

AC

23.03 CAR Conflict of Interest Policy

The Chair will read a statement relative to CAR's Conflict of Interest Policy.

AC

23.04 Quota Share Credits for Policies Effective April 1, 2024 and Later

The Committee should be prepared to begin discussions relative to quota share credits for policies effective April 1, 2024 and subsequent. Staff has prepared the following exhibits related to the Quota Share Credits to assist the Committee in its credit discussion:

- An analysis of historical residual market shares by rate class and territory. (Docket #AC23.04, Exhibit #1)
- An exhibit displaying MAIP exposures and assignments (CAR ID Code 9) by policy effective month. (Docket #AC23.04, Exhibit #2)
 - A historical summary of credit offers for 2015 2023. (Docket #AC23.04, Exhibit #3)

Other Business

To transact any other business that may properly come before this Committee.

Executive Session

The Actuarial Committee may convene in Executive Session in accordance with the provisions of G.L. c. 30A, § 21.

SHANNON CHIU Statistical/Actuarial Analyst

Attachments

Boston, Massachusetts April 27, 2023



COMMONWEALTH AUTOMOBILE REINSURERS

101 Arch Street, Suite 400 Boston, Massachusetts 02110 www.commauto.com 617-338-4000

MEMORANDUM

To: Actuarial Committee

From: Tim Galligan

Director of Actuarial & Statistical Services

Date: April 27, 2023

Re: AC 23.04 Exhibit # 1 - Historical Residual Market Shares

Attached is an analysis of historical residual market shares by rate class (page 2), and territory (pages 3-5) to assist the Committee in its discussion.

The exhibit displays historical "Rolling Twelve Month" residual market shares valued as of March of each year and calculates relativities to the overall statewide average residual market share. The current year uses the most recent data available, March, 2022 – February, 2023. The exhibit also includes a summary of data that is credit eligible vs. non-credit eligible, using the approved credit factors.

The Division of Insurance (DOI) territories shown represent those eleven territories previously noted as areas of interest by the Commissioner of Insurance and include Chelsea (16), Hyde Park (20), Dorchester (21), Roxbury (22), Charlestown and East Boston (26), Holyoke (40), Lowell (41), Springfield (42), Lynn (43), Lawrence (44), and Brockton (45).

Commonwealth Automobile Reinsurers - 4/1/2024 Credit Offer Residual Market Shares Relativities to Statewide Average Summary By Rate Class

1	,							_														
Rate		"Roll 12" Residual Market Share						Current			Relative t	o Statewid	de Average)				DOI Territ	tories Resia	dual Mkt Shr		
Class	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Feb-23	PDL Exp	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Feb-23	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Feb-23
10	1.48%	1.39%	1.28%	0.98%	0.63%	0.43%	0.49%	15,646	1.1	1.1	1.1	1.1	1.0	1.0	1.0	3.6%	3.4%	3.2%	2.3%	1.5%	1.0%	1.2%
15	0.52%	0.50%	0.47%	0.40%	0.28%	0.19%	0.18%	1,850	0.4	0.4	0.4	0.4	0.5	0.4	0.4	2.1%	2.1%	2.0%	1.7%	1.1%	0.8%	0.7%
17	2.97%	2.56%	2.26%	2.05%	1.48%	1.15%	1.47%	2,358	2.1	2.0	1.9	2.2	2.4	2.6	3.0	6.4%	5.4%	4.8%	4.4%	3.3%	2.6%	3.2%
18	1.06%	1.01%	0.79%	0.57%	0.34%	0.21%	0.22%	153	0.8	0.8	0.7	0.6	0.5	0.5	0.4	3.0%	2.9%	1.9%	1.1%	0.7%	0.4%	0.5%
20	8.18%	5.89%	5.74%	5.86%	4.35%	3.94%	4.89%	1,775	5.8	4.6	4.9	6.4	7.0	9.0	10.0	14.9%	11.1%	10.3%	9.4%	7.6%	6.3%	8.4%
21	2.92%	2.78%	2.26%	1.59%	1.13%	0.85%	0.87%	172	2.1	2.2	1.9	1.7	1.8	1.9	1.8	5.3%	5.8%	3.8%	2.8%	1.9%	1.2%	1.7%
25	1.65%	1.43%	1.30%	1.19%	0.99%	0.86%	0.99%	698	1.2	1.1	1.1	1.3	1.6	2.0	2.0	3.6%	3.4%	3.6%	2.9%	2.5%	1.8%	2.2%
26	0.62%	0.56%	0.49%	0.37%	0.24%	0.16%	0.15%	105	0.4	0.4	0.4	0.4	0.4	0.4	0.3	1.6%	1.9%	1.9%	1.5%	0.7%	0.4%	0.5%
30	0.87%	0.91%	0.85%	0.63%	0.42%	0.27%	0.30%	150	0.6	0.7	0.7	0.7	0.7	0.6	0.6	2.2%	2.3%	2.8%	2.0%	1.2%	0.6%	0.9%
MC/Misc.	1.74%	1.48%	1.23%	1.04%	0.87%	0.72%	0.56%	1,012	1.2	1.1	1.1	1.1	1.4	1.6	1.1	4.2%	3.5%	2.9%	2.5%	2.0%	1.7%	1.2%
Total	1.40%	1.29%	1.17%	0.92%	0.62%	0.44%	0.49%	23,918								3.7%	3.5%	3.2%	2.4%	1.6%	1.1%	1.3%
Residual Mkt	64,197	60,082	55,111	43,468	29,440	20,554	23,918					ŀ	Ratio	to Statewic	de Average:	: 2.7	2.7	2.7	2.7	2.6	2.6	2.7
Total Mkt	4,594,503	4,653,934	4,708,347	4,715,672	4,754,183	4,701,933	4,850,810															i
		•							Credit I	Eligible Ex	xposures											İ
Rate			"Roll 12" F	Residual Marl	ket Share			Current			Relative t	o Statewid	de Average					DOI Territ	tories Resid	dual Mkt Shr		
Class	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Feb-23	PDL Exp	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Feb-23	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Feb-23
10	3.67%	3.44%	3.21%	2.39%	1.52%	1.03%	1.24%	4,028	2.6	2.7	2.7	2.6	2.4	2.3	2.5	3.7%	3.5%	3.2%	2.4%	1.5%	1.0%	1.2%
15	4.84%	4.85%	5.04%	3.99%	2.69%	1.88%	1.42%	154	3.5	3.8	4.3	4.3	4.3	4.3	2.9	4.8%	4.9%	5.0%	4.0%	2.7%	1.9%	1.4%
17	4.30%	3.63%	3.21%	2.92%	2.06%	1.61%	2.11%	1,550	3.1	2.8	2.7	3.2	3.3	3.7	4.3	6.4%	5.4%	4.8%	4.4%	3.3%	2.6%	3.2%
40	0.540/	0.000/	4 540/	4.400/	0.000/	0.070/	0.400/		4.0	0.0	4.0	4.0	0.0	0.0	0.0	0.70/	0.70/	4 40/	0.00/	0.00/	0.40/	0.40/

Rate	"Roll 12" Residual Market Share							Current Relative to Statewide Average									DOI Terri	tories Resid	ual Mkt Shr	•		
Class	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Feb-23	PDL Exp	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Feb-23	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Feb-23
10	3.67%	3.44%	3.21%	2.39%	1.52%	1.03%	1.24%	4,028	2.6	2.7	2.7	2.6	2.4	2.3	2.5	3.7%	3.5%	3.2%	2.4%	1.5%	1.0%	1.2%
15	4.84%	4.85%	5.04%	3.99%	2.69%	1.88%	1.42%	154	3.5	3.8	4.3	4.3	4.3	4.3	2.9	4.8%	4.9%	5.0%	4.0%	2.7%	1.9%	1.4%
17	4.30%	3.63%	3.21%	2.92%	2.06%	1.61%	2.11%	1,550	3.1	2.8	2.7	3.2	3.3	3.7	4.3	6.4%	5.4%	4.8%	4.4%	3.3%	2.6%	3.2%
18	2.51%	2.82%	1.51%	1.12%	0.38%	0.07%	0.40%	7	1.8	2.2	1.3	1.2	0.6	0.2	8.0	2.7%	2.7%	1.4%	0.9%	0.2%	0.1%	0.4%
20	8.29%	5.95%	5.83%	5.94%	4.38%	3.97%	4.94%	1,753	5.9	4.6	5.0	6.5	7.1	9.0	10.1	14.9%	11.1%	10.3%	9.4%	7.6%	6.3%	8.4%
21	4.51%	4.44%	3.37%	2.46%	1.59%	1.24%	1.34%	94	3.2	3.4	2.9	2.7	2.6	2.8	2.7	5.3%	5.8%	3.8%	2.8%	1.9%	1.2%	1.7%
25	3.95%	3.55%	3.59%	2.49%	1.92%	1.54%	1.72%	84	2.8	2.8	3.1	2.7	3.1	3.5	3.5	4.5%	4.2%	4.3%	3.1%	2.4%	2.0%	2.2%
26	2.74%	3.05%	3.37%	2.48%	1.00%	0.54%	0.97%	5	2.0	2.4	2.9	2.7	1.6	1.2	2.0	2.7%	3.1%	3.4%	2.5%	1.0%	0.5%	1.0%
30	4.13%	4.52%	4.76%	2.89%	1.28%	0.55%	1.02%	5	2.9	3.5	4.1	3.1	2.1	1.3	2.1	5.0%	5.6%	8.7%	4.0%	2.2%	1.4%	2.1%
MC/Misc.	3.62%	3.03%	2.59%	2.08%	1.79%	1.51%	1.15%	253	2.6	2.4	2.2	2.3	2.9	3.4	2.4	4.2%	3.5%	2.9%	2.5%	2.0%	1.7%	1.2%
Total	4.16%	3.71%	3.43%	2.74%	1.83%	1.37%	1.65%	7,932	3.0	2.9	2.9	3.0	3.0	3.1	3.4	4.2%	3.8%	3.5%	2.7%	1.8%	1.3%	1.5%
													Ratio	to Statewic	de Average	3.0	3.0	3.0	3.0	2.9	2.9	3.1

Non-Credit Eligible Exposures

Rate		"Roll 12" Residual Market Share						Current									DOI Territ	tories Resid	lual Mkt Shr			
Class	<u>Mar-17</u>	<u>Mar-18</u>	Mar-19	Mar-20	<u>Mar-21</u>	Mar-22	Feb-23	PDL Exp	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Feb-23	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Feb-23
10	1.24%	1.17%	1.07%	0.82%	0.53%	0.36%	0.41%	11,618	0.9	0.9	0.9	0.9	0.9	8.0	8.0	2.3%	2.0%	1.9%	1.2%	0.7%	0.4%	0.5%
15	0.47%	0.45%	0.42%	0.36%	0.25%	0.17%	0.17%	1,696	0.3	0.4	0.4	0.4	0.4	0.4	0.3	1.6%	1.6%	1.5%	1.2%	0.8%	0.5%	0.5%
17	1.94%	1.71%	1.51%	1.38%	1.02%	0.77%	0.93%	808	1.4	1.3	1.3	1.5	1.6	1.7	1.9	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18	1.03%	0.97%	0.78%	0.55%	0.34%	0.22%	0.22%	146	0.7	8.0	0.7	0.6	0.6	0.5	0.4	3.1%	3.0%	2.0%	1.2%	0.8%	0.6%	0.6%
20	3.64%	3.05%	2.28%	2.21%	2.82%	2.74%	2.59%	23	2.6	2.4	1.9	2.4	4.5	6.2	5.3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
21	2.06%	1.87%	1.60%	1.10%	0.86%	0.63%	0.61%	78	1.5	1.4	1.4	1.2	1.4	1.4	1.2	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
25	1.49%	1.30%	1.15%	1.10%	0.92%	0.81%	0.93%	615	1.1	1.0	1.0	1.2	1.5	1.8	1.9	2.3%	2.3%	2.6%	2.6%	2.5%	1.4%	2.1%
26	0.61%	0.55%	0.47%	0.36%	0.23%	0.16%	0.14%	99	0.4	0.4	0.4	0.4	0.4	0.4	0.3	1.4%	1.6%	1.7%	1.3%	0.6%	0.4%	0.4%
30	0.84%	0.87%	0.81%	0.61%	0.41%	0.26%	0.30%	145	0.6	0.7	0.7	0.7	0.7	0.6	0.6	2.0%	2.0%	2.3%	1.8%	1.1%	0.6%	0.8%
MC/Misc.	1.50%	1.28%	1.06%	0.90%	0.75%	0.60%	0.48%	759	1.1	1.0	0.9	1.0	1.2	1.4	1.0	4.5%	4.0%	3.3%	2.2%	2.4%	1.9%	1.1%
Total	1.1%	1.0%	0.9%	0.73%	0.49%	0.34%	0.37%	15,986	0.78	0.80	0.79	0.79	0.79	0.77	0.75	1.8%	1.8%	1.6%	1.3%	0.9%	0.5%	0.6%
													Ratio	to Statewic	le Average:	1.3	1.4	1.4	1.4	1.4	1.2	1.2
Credit / Non-Credit	3.8	3.6	3.7	3.8	3.8	4.1	4.5						Ŋ	Credit / Ion-Credit		2.3	2.1	2.2	2.1	2.1	2.3	2.7

Commonwealth Automobile Reinsurers - 4/1/2024 Credit Offer Residual Market Shares Relativities to Statewide Average Summary By Territory

All Exposures (Credit Eligible + Non-Credit Eligible)

			R12 Re	esidual Mark	et Share			Relative to Statewide Average								
Territory	<u>Mar-17</u>	<u>Mar-18</u>	<u>Mar-19</u>	<u>Mar-20</u>	<u>Mar-21</u>	<u>Mar-22</u>	Feb-23	<u>Mar-17</u>	<u>Mar-18</u>	<u>Mar-19</u>	<u>Mar-20</u>	<u>Mar-21</u>	<u>Mar-22</u>	Feb-23		
1	0.7%	0.6%	0.6%	0.5%	0.3%	0.2%	0.3%	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
2	0.8%	0.7%	0.6%	0.5%	0.3%	0.2%	0.2%	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
3	0.8%	0.7%	0.7%	0.6%	0.4%	0.3%	0.3%	0.6	0.6	0.6	0.6	0.7	0.7	0.6		
4	0.7%	0.7%	0.6%	0.5%	0.3%	0.2%	0.2%	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
5	1.1%	1.0%	0.9%	0.8%	0.5%	0.4%	0.4%	8.0	8.0	8.0	0.9	0.9	0.9	0.9		
6	1.0%	0.9%	0.8%	0.7%	0.5%	0.3%	0.3%	0.7	0.7	0.7	8.0	0.7	0.7	0.7		
7	1.4%	1.3%	1.1%	0.9%	0.6%	0.4%	0.5%	1.0	1.0	0.9	0.9	0.9	1.0	0.9		
8	1.3%	1.2%	1.0%	0.9%	0.6%	0.4%	0.4%	0.9	0.9	0.9	0.9	1.0	1.0	0.9		
9	1.6%	1.4%	1.3%	1.1%	0.7%	0.5%	0.6%	1.1	1.1	1.1	1.2	1.2	1.1	1.2		
10	1.5%	1.4%	1.3%	1.1%	0.8%	0.6%	0.6%	1.1	1.1	1.1	1.2	1.3	1.3	1.3		
11	1.2%	1.1%	1.1%	0.8%	0.5%	0.4%	0.4%	0.9	0.9	0.9	0.9	0.9	8.0	8.0		
12	1.6%	1.4%	1.3%	0.9%	0.6%	0.4%	0.5%	1.1	1.1	1.1	1.0	1.0	1.0	0.9		
13	2.6%	2.4%	2.1%	1.6%	1.0%	0.7%	0.9%	1.9	1.9	1.8	1.7	1.6	1.6	1.8		
14	2.8%	2.6%	2.3%	1.7%	1.1%	0.7%	0.9%	2.0	2.0	2.0	1.8	1.7	1.7	1.8		
15	2.8%	2.6%	2.5%	1.7%	0.9%	0.6%	0.9%	2.0	2.0	2.1	1.8	1.5	1.4	1.7		
16	4.0%	3.5%	3.6%	2.5%	1.5%	1.1%	1.3%	2.8	2.7	3.0	2.7	2.5	2.5	2.7		
17	1.6%	1.5%	1.2%	0.9%	0.5%	0.4%	0.5%	1.1	1.2	1.0	1.0	8.0	0.9	0.9		
18	3.4%	3.0%	2.7%	1.9%	1.2%	1.0%	1.2%	2.4	2.3	2.3	2.1	2.0	2.3	2.4		
19	2.7%	2.2%	2.2%	1.6%	1.1%	0.8%	1.0%	1.9	1.7	1.8	1.7	1.7	1.9	2.1		
20	5.1%	4.6%	4.0%	2.9%	1.9%	1.5%	1.7%	3.6	3.6	3.5	3.2	3.1	3.3	3.4		
21	6.2%	5.7%	4.9%	3.7%	2.4%	1.7%	1.7%	4.4	4.4	4.2	4.0	3.8	3.8	3.5		
22	7.5%	7.3%	6.6%	5.0%	3.1%	2.6%	2.9%	5.4	5.6	5.7	5.4	5.0	5.9	6.0		
23	1.7%	1.6%	1.4%	1.0%	0.6%	0.4%	0.4%	1.2	1.2	1.2	1.1	1.0	8.0	8.0		
24	1.4%	1.3%	1.1%	1.0%	0.6%	0.5%	0.4%	1.0	1.0	0.9	1.1	1.0	1.1	8.0		
25	1.5%	1.2%	0.9%	0.8%	0.5%	0.3%	0.3%	1.1	0.9	8.0	8.0	8.0	8.0	0.7		
26	2.5%	2.1%	1.9%	1.3%	0.7%	0.5%	0.6%	1.8	1.6	1.6	1.4	1.1	1.2	1.2		
27	0.6%	0.5%	0.5%	0.4%	0.3%	0.2%	0.2%	0.4	0.4	0.4	0.4	0.5	0.4	0.4		
40	2.3%	2.9%	2.5%	2.2%	1.7%	1.1%	1.3%	1.7	2.2	2.2	2.4	2.7	2.4	2.6		
41	2.7%	2.3%	2.1%	1.6%	1.1%	0.7%	1.0%	2.0	1.8	1.8	1.7	1.7	1.6	2.0		
42	2.1%	1.9%	1.8%	1.4%	1.0%	0.7%	0.9%	1.5	1.5	1.5	1.5	1.7	1.6	1.8		
43	2.7%	2.6%	2.7%	2.3%	1.4%	0.7%	0.8%	2.0	2.0	2.3	2.4	2.2	1.7	1.7		
44	5.0%	4.3%	3.9%	3.4%	2.6%	1.9%	2.5%	3.6	3.3	3.3	3.6	4.2	4.4	5.1		
45	4.5%	4.5%	4.4%	3.1%	2.0%	1.3%	1.4%	3.2	3.4	3.7	3.4	3.1	3.0	2.9		
99	0.5%	0.5%	0.4%	0.3%	0.7%	0.2%	0.2%	0.3	0.3	0.4	0.3	1.1	0.4	0.4		
Tot	1.4%	1.3%	1.2%	0.9%	0.6%	0.4%	0.5%									
DOI Terr	3.7%	3.5%	3.2%	2.4%	1.6%	1.1%	1.3%	2.7	2.7	2.7	2.7	2.6	2.6	2.7		

Commonwealth Automobile Reinsurers - 4/1/2024 Credit Offer Residual Market Shares Relativities to Statewide Average Summary By Territory

Credit Eligible

		R1	2 Resid	ual Mark	et Share)		Relative to Statewide Average							
Territory	<u>Mar-17</u>	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Feb-23	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	<u>Mar-22</u>	Feb-23	
1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	3.3%	2.0%	2.4%	2.8%	1.5%	1.8%	3.2%	2.3	1.6	2.1	3.1	2.5	4.1	6.6	
3	4.0%	3.3%	3.2%	3.8%	3.1%	3.3%	2.8%	2.8	2.5	2.7	4.1	5.1	7.4	5.7	
4	3.1%	2.2%	2.6%	2.8%	1.3%	1.8%	2.9%	2.2	1.7	2.2	3.0	2.2	4.1	5.8	
5	5.4%	3.7%	4.4%	5.5%	3.9%	3.6%	4.2%	3.8	2.8	3.7	6.0	6.3	8.1	8.5	
6	4.8%	3.4%	3.3%	4.7%	3.0%	3.0%	2.7%	3.5	2.6	2.9	5.1	4.8	6.9	5.5	
7	3.5%	2.5%	2.4%	2.3%	1.5%	1.4%	1.8%	2.5	1.9	2.0	2.5	2.4	3.1	3.7	
8	3.4%	2.8%	2.8%	2.5%	1.9%	1.5%	2.0%	2.4	2.2	2.4	2.7	3.0	3.4	4.0	
9	3.8%	3.3%	2.7%	2.8%	2.2%	2.1%	2.4%	2.7	2.5	2.3	3.0	3.5	4.7	4.8	
10	3.3%	3.0%	3.1%	2.9%	2.2%	1.6%	2.1%	2.4	2.3	2.6	3.2	3.5	3.7	4.3	
11	5.1%	3.4%	3.4%	2.7%	1.5%	1.5%	2.3%	3.6	2.7	2.9	2.9	2.5	3.5	4.8	
12	4.3%	3.1%	2.7%	2.4%	1.4%	1.4%	1.6%	3.1	2.4	2.3	2.6	2.3	3.1	3.3	
13	5.0%	4.0%	3.4%	3.3%	2.2%	1.9%	2.5%	3.5	3.1	2.9	3.5	3.6	4.3	5.2	
14	4.9%	3.9%	4.2%	2.9%	1.7%	1.3%	1.6%	3.5	3.0	3.6	3.2	2.8	3.0	3.3	
15	5.3%	5.0%	3.8%	3.2%	2.0%	1.5%	1.6%	3.8	3.9	3.2	3.5	3.1	3.5	3.2	
16	4.1%	3.6%	3.6%	2.5%	1.6%	1.1%	1.4%	2.9	2.8	3.1	2.7	2.6	2.5	2.8	
17	5.8%	5.0%	3.5%	3.7%	1.9%	2.0%	0.8%	4.1	3.9	3.0	4.0	3.0	4.6	1.6	
18	3.6%	3.2%	2.9%	2.1%	1.3%	1.1%	1.3%	2.6	2.5	2.5	2.3	2.0	2.4	2.6	
19	9.1%	7.2%	5.2%	4.6%	4.0%	3.8%	4.9%	6.5	5.6	4.4	5.0	6.4	8.5	10.0	
20	5.4%	4.9%	4.3%	3.1%	1.9%	1.5%	1.8%	3.9	3.8	3.7	3.4	3.1	3.4	3.7	
21	6.3%	5.8%	5.0%	3.7%	2.4%	1.7%	1.7%	4.5	4.5	4.2	4.1	3.9	3.9	3.5	
22	7.5%	7.3%	6.6%	5.0%	3.1%	2.6%	2.9%	5.4	5.6	5.7	5.4	5.0	5.9	6.0	
23	4.4%	3.3%	2.7%	2.6%	1.4%	1.2%	1.5%	3.1	2.5	2.3	2.9	2.2	2.7	3.0	
24	3.3%	2.3%	1.3%	1.4%	0.9%	0.7%	0.7%	2.4	1.8	1.1	1.6	1.4	1.6	1.5	
25	6.8%	4.2%	3.4%	2.4%	2.6%	0.6%	1.3%	4.9	3.3	2.9	2.7	4.1	1.3	2.7	
26	6.7%	3.7%	3.7%	3.0%	1.3%	1.1%	1.7%	4.8	2.9	3.2	3.2	2.1	2.6	3.5	
27	3.2%	3.2%	2.3%	3.2%	2.4%	2.0%	2.3%	2.3	2.4	2.0	3.4	3.9	4.5	4.6	
40	2.6%	3.2%	2.8%	2.6%	2.0%	1.2%	1.5%	1.9	2.5	2.4	2.8	3.2	2.8	3.0	
41	3.0%	2.6%	2.3%	1.7%	1.1%	0.8%	1.1%	2.2	2.0	1.9	1.9	1.8	1.8	2.3	
42	2.3%	2.1%	1.9%	1.5%	1.1%	0.8%	1.0%	1.6	1.6	1.7	1.6	1.8	1.7	2.1	
43	3.1%	2.8%	3.0%	2.5%	1.5%	0.8%	0.9%	2.2	2.2	2.6	2.7	2.4	1.8	1.9	
44	5.3%	4.5%	4.1%	3.5%	2.8%	2.1%	2.7%	3.8	3.5	3.5	3.8	4.5	4.8	5.6	
45	4.9%	4.8%	4.8%	3.3%	2.1%	1.5%	1.6%	3.5	3.8	4.1	3.6	3.4	3.3	3.2	
99	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Tot	4.2%	3.7%	3.4%	2.7%	1.8%	1.4%	1.7%	3.0	2.9	2.9	3.0	3.0	3.1	3.4	
DOI Terr	4.2%	3.8%	3.5%	2.7%	1.8%	1.3%	1.5%	3.0	3.0	3.0	3.0	2.9	2.9	3.1	

Commonwealth Automobile Reinsurers - 4/1/2024 Credit Offer Residual Market Shares Relativities to Statewide Average Summary By Territory

Non-Credit Eligible

[R1	2 Residu	ual Mark	et Share			Relative to Statewide Average							
Territory	<u>Mar-17</u>	<u>Mar-18</u>	Mar-19	Mar-20	Mar-21	Mar-22	Feb-23	<u>Mar-17</u>	<u>Mar-18</u>	<u>Mar-19</u>	<u>Mar-20</u>	<u>Mar-21</u>	Mar-22	Feb-23	
1	0.7%	0.6%	0.5%	0.5%	0.3%	0.2%	0.3%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	0.7%	0.7%	0.6%	0.5%	0.3%	0.2%	0.2%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
3	0.8%	0.7%	0.7%	0.5%	0.4%	0.3%	0.3%	0.5	0.6	0.6	0.6	0.6	0.6	0.6	
4	0.7%	0.7%	0.6%	0.4%	0.3%	0.2%	0.2%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
5	1.1%	1.0%	0.9%	0.8%	0.5%	0.4%	0.4%	8.0	8.0	8.0	0.8	0.8	0.9	0.8	
6	1.0%	0.9%	0.8%	0.7%	0.4%	0.3%	0.3%	0.7	0.7	0.7	0.7	0.7	0.7	0.6	
7	1.3%	1.2%	1.0%	0.8%	0.5%	0.4%	0.4%	0.9	0.9	0.9	0.9	0.9	0.9	0.8	
8	1.2%	1.1%	1.0%	0.8%	0.6%	0.4%	0.4%	0.9	0.9	8.0	0.9	0.9	0.9	0.7	
9	1.5%	1.3%	1.3%	1.0%	0.7%	0.4%	0.5%	1.0	1.0	1.1	1.1	1.1	1.0	1.0	
10	1.4%	1.3%	1.2%	1.0%	0.7%	0.5%	0.6%	1.0	1.0	1.0	1.1	1.2	1.2	1.2	
11	1.2%	1.1%	1.1%	0.8%	0.5%	0.3%	0.4%	0.9	0.9	0.9	0.9	8.0	8.0	0.7	
12	1.5%	1.4%	1.2%	0.8%	0.6%	0.4%	0.4%	1.1	1.1	1.0	0.9	0.9	0.9	8.0	
13	2.4%	2.3%	2.0%	1.4%	0.9%	0.6%	0.7%	1.7	1.7	1.7	1.6	1.4	1.3	1.5	
14	2.6%	2.4%	2.1%	1.5%	1.0%	0.7%	0.8%	1.8	1.9	1.8	1.7	1.6	1.5	1.6	
15	2.5%	2.3%	2.3%	1.5%	0.8%	0.5%	0.8%	1.8	1.8	2.0	1.7	1.3	1.1	1.5	
16	2.8%	2.6%	2.8%	2.2%	1.1%	0.8%	0.8%	2.0	2.0	2.4	2.4	1.8	1.8	1.7	
17	1.5%	1.4%	1.2%	0.8%	0.5%	0.3%	0.4%	1.0	1.1	1.0	0.9	0.7	8.0	0.9	
18	2.0%	1.9%	1.5%	1.3%	1.0%	0.8%	0.8%	1.4	1.5	1.3	1.4	1.6	1.8	1.6	
19	2.4%	2.0%	2.1%	1.5%	0.9%	0.7%	0.9%	1.7	1.6	1.8	1.6	1.5	1.6	1.7	
20	3.5%	3.4%	3.1%	2.2%	1.9%	1.3%	1.1%	2.5	2.6	2.7	2.4	3.0	3.1	2.3	
21	3.3%	3.6%	3.1%	2.0%	1.1%	0.6%	0.9%	2.4	2.8	2.7	2.2	1.7	1.4	1.8	
22	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	1.5%	1.5%	1.3%	0.9%	0.6%	0.3%	0.3%	1.1	1.2	1.1	1.0	0.9	0.7	0.7	
24	1.3%	1.2%	1.1%	1.0%	0.6%	0.5%	0.4%	1.0	1.0	0.9	1.1	1.0	1.1	8.0	
25	1.3%	1.1%	0.8%	0.7%	0.5%	0.3%	0.3%	0.9	8.0	0.7	8.0	0.7	0.7	0.6	
26	2.2%	1.9%	1.7%	1.1%	0.6%	0.4%	0.5%	1.6	1.5	1.5	1.2	1.0	1.0	1.0	
27	0.6%	0.5%	0.5%	0.4%	0.3%	0.2%	0.2%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
40	1.2%	1.5%	1.3%	1.0%	0.5%	0.4%	0.4%	0.9	1.2	1.1	1.1	0.9	0.8	0.8	
41	1.0%	1.0%	0.9%	0.8%	0.7%	0.3%	0.5%	0.7	8.0	8.0	0.9	1.1	0.8	1.0	
42	1.4%	1.3%	1.2%	0.9%	0.7%	0.5%	0.5%	1.0	1.0	1.0	1.0	1.1	1.1	1.0	
43	1.0%	1.0%	1.2%	1.3%	0.8%	0.5%	0.4%	0.7	8.0	1.0	1.4	1.3	1.1	8.0	
44	2.7%	2.5%	2.0%	2.1%	1.4%	0.7%	0.8%	1.9	2.0	1.7	2.3	2.3	1.6	1.7	
45	2.4%	2.4%	2.4%	2.0%	1.2%	0.8%	0.7%	1.7	1.9	2.1	2.1	2.0	1.8	1.5	
99	0.5%	0.5%	0.4%	0.3%	0.7%	0.2%	0.2%	0.3	0.3	0.4	0.3	1.1	0.4	0.4	
Tot	1.1%	1.0%	0.9%	0.7%	0.5%	0.3%	0.4%	8.0	8.0	8.0	8.0	8.0	8.0	0.7	
DOI Terr	1.8%	1.8%	1.6%	1.3%	0.9%	0.5%	0.6%	1.3	1.4	1.4	1.4	1.4	1.2	1.2	

Actuarial Committee - 4/1/2024 Credit Offer MAIP Assigned (CAR ID 9) Statistically Reported Exposures By Effective Month

Includes New and Renewal Business Data Through February, 2023

	2019 ID 9	2020 ID 9	2021 ID 9	2022 ID 9	2023 ID 9		% Diffe	rence	
<u>Date</u>	Exp	Exp	<u>Exp</u>	<u>Exp</u>	<u>Exp</u>	<u>20 / 19</u>	<u>21 / 20</u>	<u>22 / 21</u>	<u>23 / 22</u>
Jan	3,875	3,249	2,073	1,385	2,716	-16.1%	-36.2%	-33.2%	96.1%
Feb	3,944	3,169	1,786	1,289	2,667	-19.6%	-43.6%	-27.8%	106.8%
Mar	4,684	3,390	2,477	1,771		-27.6%	-26.9%	-28.5%	
Apr	4,267	2,540	1,829	1,442		-40.5%	-28.0%	-21.1%	
May	3,955	3,050	1,959	1,642		-22.9%	-35.8%	-16.2%	
Jun	3,616	2,737	1,946	1,767		-24.3%	-28.9%	-9.2%	
Jul	3,419	2,511	1,702	1,698		-26.6%	-32.2%	-0.2%	
Aug	3,626	2,561	1,728	1,948		-29.4%	-32.5%	12.7%	
Sep	3,303	2,435	1,599	1,990		-26.3%	-34.3%	24.5%	
Oct	3,464	2,356	1,575	2,034		-32.0%	-33.1%	29.1%	
Nov	2,924	1,747	1,282	1,989		-40.3%	-26.6%	55.2%	
Dec	2,788	1,847	1,336	2,254		-33.8%	-27.7%	68.7%	
Total YTD	43,865	31,592	21,291	21,210	5,382	-28.0%	-32.6%	-0.4%	
Avg Mo	3,655	2,633	1,774	1,767	2,691	-28.0%	-32.6%	-0.4%	52.3%
Total Mkt Exp	4,686,073	4,738,078	4,711,667	4,876,248	836,355	1.1%	-0.6%	3.5%	
Res Mkt Shr	0.9%	0.7%	0.5%	0.4%	0.6%	-28.8%	-32.2%	-3.7%	48.0%
Through February	7,819	6,418	3,859	2,675	5,382	-17.9%	-39.9%	-30.7%	101.2%

Actuarial Committee - 4/1/2024 Credit Offer MAIP Assignments By Effective Month

January-March Policy Effective Month Assignments as of 4/26/2023

	2019	2020	2021	2022	2023				
	Assignment	Assignment	Assignment	Assignment	Assignment		% Diffe	rence	
<u>Date</u>	Count	<u>Count</u>	Count	Count	Count	<u>20/19</u>	21/20	22/21	23/22
Jan	2,553	1,973	912	762	2,155	-22.7%	-53.8%	-16.4%	182.8%
Feb	2,635	2,035	807	787	2,296	-22.8%	-60.3%	-2.5%	191.7%
Mar	3,243	1,886	1,433	1,157	3,262	-41.8%	-24.0%	-19.3%	181.9%
Apr	2,957	1,094	1,207	1,093		-63.0%	10.3%	-9.4%	
May	2,661	1,910	1,093	1,173		-28.2%	-42.8%	7.3%	
Jun	2,361	1,716	1,212	1,274		-27.3%	-29.4%	5.1%	
Jul	2,180	1,496	1,079	1,295		-31.4%	-27.9%	20.0%	
Aug	2,334	1,446	1,065	1,527		-38.0%	-26.3%	43.4%	
Sep	2,163	1,358	955	1,532		-37.2%	-29.7%	60.4%	
Oct	2,147	1,196	946	1,603		-44.3%	-20.9%	69.5%	
Nov	1,830	878	844	1,643		-52.0%	-3.9%	94.7%	
Dec	1,651	835	798	1,843		-49.4%	-4.4%	131.0%	
Total YTD	28,715	17,823	12,351	15,689	7,713	-37.9%	-30.7%	27.0%	
Avg Mo	2,393	1,485	1,029	1,307	2,571	-37.9%	-30.7%	27.0%	96.6%
Through March	8,431	5,894	3,152	2,706	7,713	-30.1%	-46.5%	-14.1%	185.0%

AC Recommendation and GC Decision: No Change

Commonwealth Automobile Reinsurers Actuarial Committee Historical Summary of Credit Offers 2015-2023

<u>April 1, 2015 C</u>	redit Offer	April 1, 2 <u>Recommend</u>		April 1, 2 <u>Formul</u>		April 1, 2 <u>Recommend</u>		April 1, 2 <u>Recommen</u> e			0-2023 <u>Change</u>
	Res Mkt		Res Mkt		Res Mkt		Res Mkt		Res Mkt	ĺ	Res Mkt
<u>PY</u>	<u>Share</u>	<u>PY</u>	<u>Share</u>	<u>PY</u>	<u>Share</u>	<u>PY</u>	<u>Share</u>	<u>PY</u>	<u>Share</u>	<u>PY</u>	<u>Share</u>
Rolling 12 at 8/12	2.71%	8/13	2.29%	8/14	1.68%	8/15	1.32%	8/16	1.35%	8/19	1.17%
8/13	2.29%	8/14	1.68%	8/15	1.32%	8/16	1.35%	8/17	1.37%	8/20	0.80%
8/14	1.68%	8/15	1.32%	8/16	1.35%	8/17	1.37%	8/18	1.25%	8/21	0.54%
										8/22	0.42%
	<u>Expos</u>		<u>Expos</u>		<u>Expos</u>		<u>Expos</u>		<u>Expos</u>	2/23	0.49%
ID 9	74,608	ID 9	59,398	ID 9	61,655	ID 9	63,106	ID 9	58,891		
Tot Mkt	4,446,849	Tot Mkt	4,492,202	Tot Mkt	4,579,275	Tot Mkt	4,589,968	Tot Mkt	4,695,773	<u>PY</u>	ID 9 Expos
										8/19	55,090
Potential Cred		Potential Cred		Potential Cred		Potential Cred		Potential Cred		8/20	38,192
Eligible Exp	419,049	Eligible Exp	332,145	Eligible Exp	97,706	Eligible Exp	374,077	Eligible Exp	465,341	8/21	25,332
% Total	9.4%	% Total	7.4%	% Total	2.1%	% Total	8.1%	% Total	9.9%	8/22	19,871
										2/23	23,918
Potential Prem	705.8 M	Potential Prem	565.6 M	Potential Prem	251.7 M	Potential Prem	730.4 M	Potential Prem	799.3 M		
										<u>PY</u>	Tot Mkt Expos
Approved ∆:		Formulaic ∆:		Formulaic ∆:		"Indexed" ∆:		"Allstate" ∆:		8/19	4,721,918
∆ Exposures	-9.9%	∆ Exposures	-73.7%	∆ Exposures	-77.9%	∆ Exposures	-18.2%	∆ Exposures	0.2%	8/20	4,745,691
∆ Premium	-10.7%	∆ Premium	-64.1%	∆ Premium	-69.3%	∆ Premium	-13.8%	∆ Premium	-15.5%	8/21	4,681,864
										8/22	4,768,107
# Cells With Credit	127	# Cells With Credit	127	# Cells With Credit	56	# Cells With Credit	131	# Cells With Credit	129	2/23	4,850,810

GC Decision:

(3)No Change from 4/1/2015

(1)DOI Disapproved and Directed the use of the April 1, 2015 Credit Factors.

-22.6%

-22.4%

Recommended Δ :

(2)No Change from 4/1/2015

Recommended Δ :

 Δ Exposures

 Δ Premium

(4)DOI Disapproved and Directed the use of the April 1, 2015 Credit Factors.

GC Decision: