

# Governing Committee

## Meeting Agenda

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Date	Time	Location	Staff Contact
April 8, 2020	9:30 AM	Webinar Teleconference	Eric S. Riley

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Released: April 1, 2020

Due to the COVID-19 crisis and Governor Gavin Newsom's stay at home order, this meeting is being held via webinar teleconference.

Please register for April 8, 2020 WCIRB Governing Committee Meeting on Apr 8, 2020 9:30 AM PDT at:

<https://attendee.gotowebinar.com/register/1076091336416321547>

After registering, you will receive a confirmation email containing information about joining the webinar.

To Members of the Governing Committee, WCIRB Members and All Interested Parties:

**This meeting is Open to the Public.**

**I. Confirmation of Governing Committee Chairperson**

**II. Approval of Minutes**

Meeting held December 11, 2019

**III. Additions to the Agenda**

**IV. Ratification of Actions of WCIRB Committees**

A. Actuarial Committee

Meeting Held December 5, 2019

B. Classification and Rating Committee

Meeting Held February 11, 2020

**V. Unfinished Business**

**VI. New Business**

A. Potential July 1, 2020 Advisory Pure Premium Rate Filing

B. COVID-19 Pandemic

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**VII. Next Meeting Date:** April 17, 2020 (by webinar teleconference)

**VIII. Adjournment**

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## Item VI-A Potential July 1, 2020 Advisory Pure Premium Rate Filing

At the December 14, 2011 meeting, the Governing Committee adopted a general guideline providing that a mid-year pure premium rate filing will generally not be made in the absence of highly unusual volatility in the experience, or major legislative, regulatory or judicial action. However, the Committee directed that the Actuarial Committee's review of year-end experience typically conducted in late March and early April should include development of a mid-year advisory pure premium rate indication and that the decision on whether to make a filing be made by the Governing Committee in early April based on a review of the advisory pure premium rate indication developed by the Actuarial Committee. Attached are the Minutes of the December 14, 2011 meeting.

The Actuarial Committee met on March 16, 2020 to discuss December 31, 2019 experience and a second Actuarial Committee meeting is scheduled for April 2, 2020, at which time, the Committee will finalize its recommendations with respect to the methodologies underlying the July 1, 2020 advisory pure premium rate indication.

Attached is a copy of the summary analysis of December 31, 2019 premium and loss experience that was distributed to the Actuarial Committee in preparation for the April 2, 2019 meeting (Item AC19-03-02). Also attached are the April 2, 2019 Actuarial Committee meeting agenda items related to loss adjustment expense experience (Item AC20-04-01) and alternative loss development and trending methodologies (Item AC20-04-02).

A summary of the conclusions and recommendations of the Actuarial Committee with respect to its review of December 31, 2019 experience and the July 1, 2020 advisory pure premium rate indication will be presented at the meeting.

### **Mid-Year Advisory Pure Premium Rate Filing Process**

The Committee was reminded that the CDI expressed concern in its 2009 Examination of the WCIRB, over (a) the frequency of mid-year pure premium rate filings and (b) the somewhat expedited process used by the WCIRB to develop its recommendations with respect to mid-year filings. The Committee further was reminded that in response, in December of 2009, the Governing Committee approved a modified process to consider potential mid-year filings that included the following:

1. Prior to finalizing a pure premium rate level indication based on December 31 experience, the Actuarial Committee meets on two occasions to review (a) a summary of December 31 experience, (b) the most current available set of system diagnostics, and (c) a comprehensive range of alternative loss development and trending methodologies.
2. Following the two Actuarial Committee meetings, the Governing Committee meets to review the indicated pure premium rate level based on December 31 experience and the methodologies recommended by the Actuarial Committee.
3. A mid-year pure premium rate filing would generally not be made unless the most recent indicated change in the pure premium rate level varies from the difference between the change proposed in the most recent annual filing and the approved change by at least 5 percentage points.

The Committee further was reminded that:

- On April 7, 2010, following a review of the indicated pure premium rate level based on December 31, 2009 experience and the projection methodologies recommended by the Actuarial Committee in consideration of a potential July 1, 2010 filing, the Committee recommended that no July 1, 2010 pure premium rate filing be made because the indicated pure premium rate level varied from the January 1, 2010 pure premium rate level proposed by the WCIRB by less than five percentage points.
- On April 6, 2011, following a review of the indicated pure premium rate level based on December 31, 2010 experience and the projection methodologies recommended by the Actuarial Committee in consideration of a potential July 1, 2011 filing, the Governing Committee agreed that no July 1, 2011 pure premium rate filing should be made. While in this instance, the indicated pure premium rate level varied from the January 1, 2011 pure premium rate level proposed by the WCIRB by more than five percentage points, the Committee noted that (a) the additional time required to compile the insurer rate filing information requested by the CDI and (b) the timeframes

involved in the CDI holding a public hearing and rendering a decision would likely mean that a CDI decision on the filing would not be made until well after July 1, 2011 and near to the time the WCIRB would be submitting its January 1, 2012 pure premium rate filing.

At this meeting, the Committee was advised that given the considerations with respect to a potential July 1, 2011 pure premium rate filing and that multiple rate filings in a single year are generally limited in other jurisdictions to extraordinary circumstances such as major legislative, regulatory or judicial action, staff was soliciting input from the Committee as to whether the 2009 guideline related to mid-year pure premium rate filings continued to be appropriate. The Committee was advised that both the C & R and Actuarial Committees were consulted on this issue at their meetings held October 25, 2011 and December 1, 2011 meeting, respectively. The Committee was advised that both committees felt that given the information that is made available through the Actuarial Committee's quarterly review of updated loss experience, there is no need for the WCIRB to make mid-year advisory pure premium rate filings in the absence of highly unusual volatility in the experience, or major legislative, regulatory or judicial action. The Actuarial Committee also emphasized the importance of continuing to review year-end experience early in the subsequent year as such analysis is the initial review of the most current accident year experience, which, during periods of high volatility, can significantly impact the pure premium rate level indication.

Following the presentation, the Committee discussed the matter at length and in the end was in general agreement with the opinions of the C & R and Actuarial Committees that mid-year filings need not be made in the absence of highly unusual volatility or major legislative, regulatory or judicial action. However, the Governing Committee stressed that the Actuarial Committee's review of year-end experience typically conducted in late March and early April, should include development of a mid-year advisory pure premium rate indication and that the decision on whether to make a filing be made by the Governing Committee in early April based on a review of the advisory pure premium rate indication developed by the Actuarial Committee. At the conclusion of the discussion, a motion was made, duly seconded and unanimously passed to amend the third point of the current guideline noted above to provide that in the absence of highly unusual volatility in the experience, or major legislative, regulatory or judicial action, a mid-year pure premium rate filing generally would not be made.

## Item AC20-03-02 12/31/2019 Experience – Review of Methodologies

At the March 16, 2020 meeting, the Committee reviewed a preliminary summary of accident year experience through December 31, 2019. Exhibits 1 through 8 provide an updated analysis of December 31, 2019 experience. In total, approximately 100% of the market is included. The loss projection methodologies are generally consistent with those reflected in the analysis presented at the March 16, 2020 meeting. Wage and loss levels are projected to April 1, 2021—the approximate midpoint of experience on policies incepting during the period from July 1, 2020 through December 31, 2020. For consistency, premiums have been on-leveled to the July 1, 2019 industry average filed pure premium rate level.<sup>1</sup> Updates from the analysis presented at the March 16, 2020 meeting include (a) updated premium on-level adjustments and claim frequency forecasts based on the March 2020 UCLA Anderson forecast,<sup>2</sup> (b) an indemnity severity trend of 0% and medical severity trend of 1.5% preliminarily recommended by the Committee at the March 16, 2020 meeting and (c) minor revisions to insurer data submissions.

As shown on Exhibit 8, based on December 31, 2019 accident year experience, the projected loss ratio for policies incepting during the period from July 1, 2020 through December 31, 2020 is 0.561. (This compares to 0.557 presented at the March 16, 2020 meeting and 0.583 reflected in the January 1, 2020 Pure Premium Rate Filing.)

Exhibits 9 through 12 include supplemental information based on December 31, 2019 experience.

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<sup>1</sup> In a potential mid-year filing, premiums will be on-leveled to the January 1, 2020 industry average filed pure premium rate level.

<sup>2</sup> Due to the recent economic impact of COVID-19, which is in part reflected in the March 2020 UCLA Anderson forecast but not in the November 2019 California Department of Finance forecast, only the UCLA Anderson forecast is used for the wage change for 2020.

**California Workers' Compensation  
Accident Year Experience as of December 31, 2019**

<u>Year</u>	<u>Earned Premium</u>	<u>Paid Indemnity</u>	<u>Indemnity Reserves</u>	<u>Paid Medical**</u>	<u>Medical Reserves</u>	<u>IBNR*</u>	<u>Total Incurred**</u>	<u>Loss Ratio*</u>
1987	4,374,085,383	1,506,586,217	6,788,123	1,334,475,511	44,824,706	51,174,762	2,943,849,319	0.673
1988	5,173,049,472	1,703,995,443	6,020,498	1,542,154,007	34,457,070	38,596,813	3,325,223,831	0.643
1989	5,676,279,371	1,940,504,130	6,885,040	1,798,369,778	50,426,878	37,727,348	3,833,913,174	0.675
1990	5,705,878,797	2,261,017,175	7,080,474	2,045,692,846	41,984,392	60,949,353	4,416,724,240	0.774
1991	5,872,566,346	2,481,039,430	15,443,972	2,203,949,723	48,346,440	54,904,603	4,803,684,168	0.818
1992	5,692,939,950	1,979,853,751	13,426,410	1,765,835,664	52,311,831	57,815,580	3,869,243,236	0.680
1993	5,942,544,967	1,695,567,397	13,112,257	1,516,394,844	62,774,974	46,215,598	3,334,065,070	0.561
1994	5,034,831,820	1,628,835,229	20,387,175	1,467,360,963	86,322,151	38,983,681	3,241,889,199	0.644
1995	3,790,122,732	1,766,934,235	25,504,579	1,624,334,746	94,743,497	50,559,246	3,562,076,303	0.940
1996	3,748,266,525	1,957,534,276	30,979,364	1,718,844,292	96,206,132	58,590,457	3,862,154,521	1.030
1997	3,928,295,572	2,319,753,353	38,165,376	2,016,714,398	125,090,083	93,758,099	4,593,481,309	1.169
1998	4,333,560,338	2,775,301,843	49,731,336	2,643,031,839	215,345,949	184,625,971	5,868,036,938	1.354
1999	4,551,546,853	3,057,436,790	54,879,885	3,039,124,528	171,629,260	246,938,847	6,570,009,310	1.443
2000	5,923,031,823	3,429,896,218	64,584,283	3,561,057,107	209,688,221	401,680,518	7,666,906,347	1.294
2001	10,120,534,867	4,842,596,838	99,258,452	5,364,855,961	367,527,709	597,064,069	11,271,303,029	1.114
2002	13,434,933,190	4,774,257,186	91,263,929	5,484,444,815	323,197,725	886,557,509	11,559,721,164	0.860
2003	19,476,317,174	4,548,266,766	147,991,441	5,053,039,908	362,086,351	1,241,428,022	11,352,812,488	0.583
2004	23,096,787,993	3,210,920,222	124,057,933	4,053,390,064	284,629,918	1,370,422,904	9,043,421,041	0.392
2005	21,398,213,516	2,528,360,793	106,037,896	3,648,292,344	270,201,376	1,117,619,407	7,670,511,816	0.358
2006	17,232,800,048	2,615,380,960	112,324,531	3,753,259,900	293,829,398	779,799,761	7,554,594,550	0.438
2007	13,275,649,610	2,752,845,610	141,041,032	4,019,738,120	352,170,222	837,885,727	8,103,680,711	0.610
2008	10,764,323,955	2,800,230,275	145,508,217	4,012,666,921	357,273,472	503,890,929	7,819,569,814	0.726
2009	8,896,709,168	2,674,163,099	145,733,387	3,820,462,519	357,725,257	486,083,180	7,484,167,442	0.841
2010	9,398,228,398	2,683,942,793	148,125,116	3,904,953,044	319,455,240	575,975,466	7,632,451,659	0.812
2011	10,129,285,077	2,648,185,809	156,442,902	3,531,529,475	355,245,128	775,260,251	7,466,663,565	0.737
2012	11,692,134,220	2,671,163,105	196,152,364	3,412,297,883	392,748,727	943,364,453	7,615,726,532	0.651
2013	14,149,827,161	2,690,505,273	215,029,429	3,234,915,559	416,076,281	1,566,659,026	8,123,185,568	0.574
2014	15,997,914,039	2,785,329,643	288,703,047	3,112,667,443	488,337,490	2,108,328,836	8,783,366,459	0.549
2015	17,059,168,432	2,738,649,284	382,788,513	2,946,471,845	635,040,917	3,305,458,363	10,008,408,922	0.587
2016	17,954,524,605	2,474,625,401	510,151,514	2,662,666,207	778,878,679	3,241,082,902	9,667,404,703	0.538
2017	17,671,411,530	2,049,736,134	744,721,648	2,278,277,137	1,068,207,256	3,627,724,680	9,768,666,855	0.553
2018	17,426,352,098	1,389,844,897	1,024,199,240	1,742,216,741	1,443,893,152	4,485,863,018	10,086,017,048	0.579
2019	16,121,172,923	474,398,904	872,599,845	729,709,710	1,492,417,760	5,722,767,468	9,291,893,687	0.576

\* Shown for informational purposes only.

\*\* Paid medical for accident years 2011 and subsequent exclude the paid cost of medical cost containment programs (MCCP).  
Paid medical for accident years 2010 and prior include paid MCCP costs.

Source: WCIRB quarterly experience calls

**Incurred Indemnity Loss Development Factors**

Accident Year	Age-to-Age (in months)															
	<u>24/12</u>	<u>36/24</u>	<u>48/36</u>	<u>60/48</u>	<u>72/60</u>	<u>84/72</u>	<u>96/84</u>	<u>108/96</u>	<u>120/108</u>	<u>132/120</u>	<u>144/132</u>	<u>156/144</u>	<u>168/156</u>	<u>180/168</u>	<u>192/180</u>	<u>204/192</u>
1994											1.000	1.002	1.002	0.997	1.000	1.000
1995									0.998	1.003	1.003	1.000	1.002	1.002	1.000	1.000
1996								1.003	1.001	1.004	1.000	1.000	1.000	1.001	1.002	1.002
1997							1.002	1.007	1.005	1.002	1.002	1.003	1.002	1.001	1.001	1.001
1998						1.007	1.008	1.004	1.004	1.002	1.003	1.004	1.001	1.002	1.001	1.001
1999					1.014	1.011	1.006	1.007	1.004	1.002	1.003	1.003	1.002	1.002	1.002	1.001
2000				1.021	1.015	1.011	1.008	1.004	1.004	1.005	1.003	1.001	1.004	1.002	1.002	1.000
2001			1.035	1.023	1.021	1.014	1.009	1.006	1.007	1.006	1.005	1.003	1.002	1.001	1.001	1.001
2002		1.069	1.033	1.033	1.018	1.011	1.010	1.010	1.007	1.005	1.003	1.002	1.002	1.003	1.002	1.002
2003	1.187	1.069	1.056	1.033	1.021	1.018	1.015	1.015	1.009	1.006	1.004	1.003	1.002	1.002	1.002	1.004
2004	1.448	1.158	1.083	1.042	1.041	1.026	1.028	1.018	1.014	1.007	1.007	1.003	1.001	1.002	1.006	
2005	1.503	1.218	1.098	1.068	1.053	1.040	1.028	1.016	1.012	1.006	1.005	1.006	1.003	1.004		
2006	1.690	1.247	1.111	1.080	1.053	1.035	1.023	1.015	1.009	1.007	1.004	1.005	1.002			
2007	1.784	1.273	1.120	1.070	1.049	1.037	1.022	1.012	1.011	1.005	1.007	1.010				
2008	1.858	1.302	1.136	1.074	1.045	1.030	1.019	1.012	1.009	1.006	1.007					
2009	1.983	1.293	1.142	1.076	1.048	1.024	1.019	1.014	1.009	1.011						
2010	1.994	1.315	1.131	1.069	1.045	1.026	1.016	1.012	1.012							
2011	1.997	1.277	1.133	1.061	1.037	1.022	1.018	1.012								
2012	1.992	1.279	1.113	1.063	1.041	1.023	1.016									
2013	1.931	1.259	1.111	1.055	1.032	1.021										
2014	1.960	1.278	1.115	1.059	1.030											
2015	1.969	1.260	1.101	1.049												
2016	1.941	1.246	1.097													
2017	1.911	1.243														
2018	1.906															
Selected (a)	1.906	1.243	1.097	1.049	1.030	1.021	1.016	1.012	1.010	1.007	1.006	1.005	1.002	1.003	1.003	1.002
Cumulative	3.097	1.625	1.307	1.192	1.136	1.103	1.080	1.063	1.051	1.040	1.033	1.027	1.021	1.019	1.016	1.013

(a) Selections are latest year for the 12-to-24 month through 96-to-108 month factors and six-year average for the subsequent age-to-age factors.

**Incurred Indemnity Loss Development Factors (Continued)**

Accident Year	Age-to-Age (in months)																ULT/420Inc (b)	
	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300	324/312	336/324	348/336	360/348	372/360	384/372	396/384		408/396
1983						1.002	1.001	1.001	1.000	1.000	1.001	1.001	1.001	1.001	1.001	1.000	1.001	1.001
1984					1.000	1.001	1.000	1.000	1.001	1.001	1.000	1.001	1.001	1.000	0.999	1.000	1.000	1.001
1985				1.000	1.001	1.001	1.000	1.001	1.000	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000
1986			1.000	1.000	1.000	1.001	1.001	1.000	1.001	1.002	1.001	1.000	0.999	1.000	1.000	1.000	1.000	
1987		0.999	1.000	1.000	0.999	1.000	1.000	1.001	1.002	1.000	1.001	1.001	1.001	1.001	1.001	1.000		
1988	1.001	1.001	1.000	1.001	1.000	1.001	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.001			
1989	1.003	1.000	1.000	1.001	1.000	1.001	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000				
1990	1.000	1.001	1.000	0.999	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.001	1.000				
1991	1.000	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.001				
1992	0.998	1.001	1.001	1.000	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.001					
1993	0.999	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.001								
1994	1.001	1.001	1.002	1.000	1.001	1.001	0.999	1.001	1.001									
1995	1.003	1.001	0.998	1.001	1.000	1.001	1.000	1.001										
1996	1.003	1.000	1.000	1.000	1.001	1.001	1.002											
1997	1.000	1.000	1.000	1.000	1.001	1.001												
1998	1.003	1.001	1.001	1.000	1.001													
1999	1.000	1.000	1.002	1.002														
2000	1.002	1.001	1.001															
2001	1.001	1.002																
2002	1.002																	
Selected (a)	1.001	1.001	1.000	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.001
Cumulative	1.012	1.011	1.010	1.010	1.009	1.008	1.007	1.007	1.007	1.007	1.006	1.006	1.006	1.005	1.005	1.005	1.005	1.005

(b) The ULT/420Inc tail factor was calculated based on an inverse power curve fit to a six-year average of the 108-to-120 through 348-to-360 factors, excluding the 2016, 2017, and 2018 evaluations, and extrapolated to 80 development years.

**Incurred Medical Loss Development Factors**

Accident Year	Age-to-Age (in months) (b)															
	<u>24/12</u>	<u>36/24</u>	<u>48/36</u>	<u>60/48</u>	<u>72/60</u>	<u>84/72</u>	<u>96/84</u>	<u>108/96</u>	<u>120/108</u>	<u>132/120</u>	<u>144/132</u>	<u>156/144</u>	<u>168/156</u>	<u>180/168</u>	<u>192/180</u>	<u>204/192</u>
1994											1.011	1.018	1.008	1.009	1.021	1.011
1995										1.018	1.011	1.023	1.028	1.016	1.005	1.009
1996									1.019	1.019	1.014	1.024	1.018	1.013	1.014	1.005
1997								1.021	1.015	1.023	1.030	1.012	1.015	1.012	1.003	1.007
1998							1.022	1.024	1.038	1.023	1.020	1.017	1.004	1.014	1.008	1.012
1999						1.033	1.026	1.038	1.030	1.019	1.018	1.013	1.011	1.013	1.005	0.999
2000					1.038	1.029	1.044	1.028	1.017	1.024	1.018	1.018	1.012	1.006	0.999	0.995
2001				1.047	1.041	1.045	1.040	1.034	1.035	1.022	1.017	1.015	1.013	1.001	0.997	0.994
2002			1.059	1.039	1.056	1.040	1.036	1.029	1.028	1.022	1.014	1.010	0.999	0.997	1.000	0.999
2003		1.119	1.057	1.059	1.060	1.042	1.042	1.037	1.029	1.018	1.011	1.003	0.998	0.999	1.001	1.007
2004	1.351	1.135	1.113	1.081	1.060	1.061	1.043	1.032	1.026	1.012	1.006	1.001	0.996	0.998	1.003	
2005	1.389	1.172	1.087	1.074	1.084	1.055	1.045	1.032	1.020	1.006	1.006	0.999	1.000	1.000		
2006	1.460	1.196	1.103	1.081	1.066	1.048	1.040	1.022	1.012	1.000	1.001	1.006	1.000			
2007	1.518	1.204	1.124	1.081	1.070	1.050	1.032	1.018	1.004	1.008	1.001	1.004				
2008	1.527	1.212	1.129	1.092	1.061	1.041	1.026	1.010	1.005	1.002	1.005					
2009	1.604	1.227	1.140	1.087	1.061	1.030	1.016	1.007	1.006	1.009						
2010	1.620	1.245	1.134	1.077	1.045	1.025	1.012	1.008	1.010							
2011	1.667	1.222	1.125	1.069	1.034	1.016	1.010	1.011								
2012	1.592	1.188	1.092	1.056	1.031	1.015	1.016									
2013	1.559	1.150	1.086	1.039	1.022	1.015										
2014	1.523	1.159	1.079	1.035	1.028											
2015	1.511	1.146	1.064	1.031												
2016	1.498	1.124	1.046													
2017	1.440	1.119														
2018	1.452															
Selected (a)	1.452	1.119	1.046	1.031	1.028	1.015	1.016	1.011	1.010	1.006	1.005	1.004	1.001	1.000	1.001	1.001
Cumulative	1.979	1.363	1.218	1.164	1.129	1.099	1.082	1.065	1.054	1.044	1.037	1.032	1.028	1.027	1.027	1.026

(a) Selections are latest year for the 12-to-24 month through 96-to-108 month factors and six-year average for the subsequent age-to-age factors.

(b) Incurred medical loss development factors include the paid cost of medical cost containment programs for accident years 2011 and prior.

**Incurred Medical Loss Development Factors (Continued)**

Accident Year	Age-to-Age (in months)																ULT/420Inc (c)		
	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300	324/312	336/324	348/336	360/348	372/360	384/372	396/384		408/396	420/408
1983						1.001	1.005	1.001	1.006	1.004	1.002	1.006	1.003	1.004	1.003	0.997	0.999	0.998	
1984					1.002	1.004	1.002	1.003	1.003	1.002	1.003	1.001	1.003	1.001	0.997	1.000	1.001	1.000	
1985				1.008	1.004	1.000	1.001	1.003	1.003	1.003	1.005	1.002	1.003	0.998	0.999	0.999	1.000	1.001	
1986			1.004	1.001	1.005	1.003	1.006	1.005	1.006	1.004	1.005	1.000	1.002	0.998	1.001	1.006	0.994		
1987		0.998	1.006	1.000	1.003	1.011	0.999	1.007	1.003	1.004	1.005	1.001	0.997	1.001	1.000	1.005			
1988	1.004	1.004	1.002	1.006	1.005	1.005	1.002	1.005	1.003	1.003	1.002	0.998	0.999	1.000	1.001				
1989	0.999	1.007	1.006	1.005	1.005	1.008	1.006	1.000	1.003	0.999	0.999	0.999	0.999	1.002					
1990	1.003	1.007	1.007	1.005	1.003	1.003	1.003	0.997	1.002	1.000	1.000	0.998	0.999						
1991	1.008	1.005	1.006	1.002	1.003	1.002	1.003	1.001	1.000	0.999	0.998	1.000							
1992	1.005	1.004	1.002	1.005	1.003	1.005	1.000	0.999	1.001	0.999	1.002								
1993	1.007	1.011	1.014	1.004	0.999	1.000	0.996	0.999	0.998	0.998									
1994	1.011	1.004	1.007	1.006	1.001	0.996	0.995	1.002	1.002										
1995	1.015	0.996	1.006	0.999	1.006	0.992	0.999	1.001											
1996	1.008	1.005	1.001	0.998	0.999	0.997	1.000												
1997	1.001	0.994	0.998	0.997	0.998	1.001													
1998	1.001	1.001	0.994	1.001	1.003														
1999	0.999	0.995	1.002	0.999															
2000	0.996	0.999	0.999																
2001	1.001	1.003																	
2002	1.002																		
Selected (a)	1.000	1.000	1.000	1.000	1.001	0.999	0.999	1.000	1.001	1.000	1.001	0.999	1.000	1.000	1.000	1.001	0.999	1.000	
Cumulative	1.025	1.025	1.026	1.026	1.026	1.025	1.026	1.027	1.028	1.027	1.027	1.026	1.027	1.027	1.027	1.027	1.025	1.027	1.027

(c) The ULT/420Inc tail factor was calculated based on an inverse power curve fit to a six-year average of the 108-to-120 through 348-to-360 factors, excluding the 2016, 2017, and 2018 evaluations, and extrapolated to 80 development years.

**Paid Indemnity Loss Development Factors**

Accident Year	Age-to-Age (in months)															
	<u>24/12</u>	<u>36/24</u>	<u>48/36</u>	<u>60/48</u>	<u>72/60</u>	<u>84/72</u>	<u>96/84</u>	<u>108/96</u>	<u>120/108</u>	<u>132/120</u>	<u>144/132</u>	<u>156/144</u>	<u>168/156</u>	<u>180/168</u>	<u>192/180</u>	<u>204/192</u>
1994											1.009	1.008	1.007	1.006	1.003	1.003
1995										1.010	1.012	1.008	1.007	1.005	1.005	1.003
1996									1.018	1.014	1.012	1.009	1.006	1.006	1.004	1.004
1997								1.025	1.018	1.016	1.012	1.008	1.007	1.006	1.006	1.005
1998							1.037	1.027	1.021	1.015	1.012	1.009	1.009	1.007	1.006	1.006
1999						1.055	1.036	1.025	1.018	1.015	1.011	1.009	1.008	1.007	1.006	1.004
2000					1.088	1.052	1.035	1.025	1.016	1.013	1.010	1.009	1.008	1.007	1.005	1.004
2001				1.145	1.077	1.051	1.034	1.024	1.017	1.014	1.012	1.011	1.008	1.007	1.006	1.005
2002			1.290	1.127	1.075	1.046	1.031	1.020	1.018	1.015	1.014	1.008	1.008	1.006	1.006	1.005
2003		1.696	1.249	1.128	1.072	1.043	1.030	1.026	1.023	1.021	1.015	1.012	1.009	1.008	1.007	1.007
2004	2.914	1.522	1.236	1.116	1.073	1.049	1.041	1.035	1.030	1.020	1.015	1.011	1.009	1.008	1.009	
2005	2.734	1.512	1.235	1.121	1.079	1.060	1.047	1.042	1.028	1.020	1.015	1.013	1.010	1.010		
2006	2.866	1.539	1.229	1.135	1.090	1.068	1.050	1.035	1.026	1.018	1.016	1.012	1.011			
2007	2.905	1.547	1.246	1.140	1.092	1.066	1.046	1.033	1.027	1.020	1.016	1.013				
2008	2.927	1.577	1.271	1.150	1.092	1.060	1.041	1.027	1.023	1.018	1.015					
2009	3.069	1.616	1.280	1.156	1.092	1.061	1.043	1.031	1.023	1.021						
2010	3.157	1.628	1.281	1.147	1.091	1.060	1.038	1.027	1.022							
2011	3.208	1.613	1.266	1.144	1.087	1.056	1.041	1.027								
2012	3.137	1.597	1.262	1.137	1.087	1.051	1.035									
2013	3.169	1.606	1.260	1.129	1.072	1.044										
2014	3.229	1.635	1.257	1.129	1.071											
2015	3.278	1.618	1.244	1.119												
2016	3.235	1.586	1.230													
2017	3.185	1.569														
2018	3.109															
Selected (a)	3.109	1.569	1.230	1.119	1.071	1.044	1.035	1.027	1.023	1.020	1.016	1.013	1.010	1.009	1.007	1.006
Cumulative	9.187	2.955	1.883	1.531	1.368	1.278	1.224	1.182	1.151	1.126	1.104	1.087	1.073	1.063	1.054	1.046

(a) Selections are latest year for the 12-to-24 month through 96-to-108 month factors and three-year average for the subsequent age-to-age factors.

**Paid Indemnity Loss Development Factors (Continued)**

Accident Year	Age-to-Age (in months)																	420Inc/420Pd (b)	ULT/420Inc (c)	
	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300	324/312	336/324	348/336	360/348	372/360	384/372	396/384	408/396			420/408
1983						1.003	1.001	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.006	
1984					1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.001	1.000	1.001	1.005	
1985				1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.002	1.001	1.001	1.001	1.001	1.000	1.000	1.004	
1986			1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.001		1.004	
1987		0.999	1.001	1.001	1.001	1.001	1.001	1.001	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001			1.005	
1988	1.001	1.001	1.002	1.001	1.001	1.001	1.001	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001				1.003	
1989	1.002	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001					1.003	
1990	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.000	1.001	1.001							
1991	1.002	1.002	1.001	1.001	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001								
1992	1.002	1.002	1.002	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001									
1993	1.002	1.003	1.003	1.002	1.002	1.001	1.001	1.001	1.001	1.001										
1994	1.004	1.003	1.003	1.003	1.002	1.002	1.002	1.001	1.001											
1995	1.005	1.005	1.003	1.003	1.002	1.002	1.002	1.003												
1996	1.005	1.004	1.003	1.003	1.002	1.003	1.003													
1997	1.004	1.003	1.003	1.002	1.003	1.003														
1998	1.006	1.004	1.003	1.003	1.003															
1999	1.004	1.003	1.003	1.003																
2000	1.004	1.004	1.003																	
2001	1.005	1.005																		
2002	1.005																			
Selected (a)	1.005	1.004	1.003	1.003	1.003	1.003	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.001	1.003	
Cumulative	1.040	1.035	1.031	1.028	1.025	1.023	1.020	1.018	1.016	1.015	1.014	1.013	1.012	1.011	1.010	1.009	1.008	1.008		1.004

(b) Three-year averages of the 420Inc/420Pd factors are selected.

(c) The ULT/420Inc tail factor was calculated based on an inverse power curve fit to a six-year average of the 108-to-120 through 348-to-360 factors, excluding the 2016, 2017, and 2018 evaluations, and extrapolated to 80 development years.

**Paid Medical Loss Development Factors**

Unadjusted (a) Accident Year	Age-to-Age (in months)															
	24/12	36/24	48/36	60/48	72/60	84/72	96/84	108/96	120/108	132/120	144/132	156/144	168/156	180/168	192/180	204/192
1994																
1995										1.020		1.017	1.018	1.014	1.017	1.013
1996									1.029	1.025	1.027	1.023	1.020	1.018	1.016	1.013
1997								1.036	1.033	1.028	1.026	1.022	1.019	1.016	1.014	1.014
1998							1.047	1.039	1.033	1.032	1.030	1.021	1.019	1.019	1.015	1.017
1999						1.059	1.044	1.035	1.032	1.032	1.025	1.025	1.016	1.016	1.018	1.015
2000					1.079	1.056	1.042	1.038	1.031	1.027	1.023	1.020	1.020	1.017	1.013	1.010
2001				1.109	1.076	1.057	1.045	1.038	1.034	1.030	1.022	1.022	1.022	1.017	1.012	1.011
2002			1.168	1.112	1.072	1.054	1.046	1.034	1.032	1.024	1.023	1.018	1.016	1.012	1.011	1.010
2003		1.318	1.170	1.112	1.074	1.057	1.048	1.041	1.030	1.030	1.026	1.019	1.016	1.013	1.012	1.010
2004	2.298	1.345	1.189	1.123	1.092	1.070	1.055	1.040	1.036	1.034	1.024	1.018	1.015	1.012	1.013	
2005	2.251	1.345	1.209	1.138	1.095	1.073	1.054	1.049	1.038	1.031	1.021	1.019	1.014	1.013		
2006	2.340	1.399	1.220	1.140	1.099	1.068	1.056	1.042	1.034	1.025	1.020	1.015	1.015			
2007	2.416	1.413	1.230	1.142	1.097	1.075	1.057	1.041	1.031	1.022	1.020	1.015				
2008	2.325	1.421	1.241	1.148	1.103	1.072	1.051	1.035	1.027	1.018	1.017					
2009	2.408	1.447	1.251	1.160	1.104	1.067	1.046	1.032	1.024	1.020						
2010	2.479	1.468	1.265	1.152	1.096	1.066	1.043	1.030	1.025							
2011	2.580	1.470	1.248	1.145	1.095	1.058	1.041	1.029								
2012	2.561	1.468	1.247	1.143	1.087	1.056	1.039									
2013	2.492	1.464	1.238	1.130	1.077	1.048										
2014	2.518	1.462	1.226	1.121	1.076											
2015	2.533	1.439	1.218	1.111												
2016	2.480	1.410	1.197													
2017	2.373	1.391														
2018	2.378															
Adjusted (b) Accident Year	Age-to-Age (in months)															
	24/12	36/24	48/36	60/48	72/60	84/72	96/84	108/96	120/108	132/120	144/132	156/144	168/156	180/168	192/180	204/192
2001																1.012
2002																1.011
2003														1.014	1.013	1.011
2004													1.016	1.013	1.014	
2005												1.020	1.016	1.015		
2006											1.022	1.016	1.016			
2007										1.024	1.022	1.017				
2008									1.029	1.020	1.018					
2009								1.034	1.026	1.022						
2010							1.044	1.032	1.027							
2011						1.062	1.046	1.032								
2012					1.093	1.062	1.043									
2013				1.137	1.084	1.052										
2014			1.233	1.128	1.080											
2015		1.443	1.224	1.114												
2016	2.486	1.416	1.199													
2017	2.386	1.393														
2018	2.378															
Selected (c)	2.378	1.393	1.199	1.114	1.080	1.052	1.043	1.032	1.027	1.022	1.021	1.018	1.016	1.014	1.013	1.011
Cumulative Unadjusted for Impact of SB 1160	7.297	3.069	2.203	1.837	1.649	1.527	1.452	1.392	1.349	1.313	1.285	1.259	1.237	1.217	1.200	1.185
Cumulative Adjusted for Impact of SB 1160(d)	6.999	2.943	2.113	1.786	1.621	1.512	---	---	---	---	---	---	---	---	---	---

- (a) Paid medical loss development factors include the paid cost of medical cost containment programs for accident years 2011 and prior.
- (b) These factors are adjusted for the losses paid prior to July 1, 2017 by -3.6%, -3.8%, -3.4%, -2.4%, -0.9%, and -0.1% to accident years 2011 to 2016, respectively, for the SB 1160 lien reforms. Factors are also adjusted for the impact of pharmaceutical cost reductions to bring the historical payments to the current pharmaceutical cost level.
- (c) Selections are latest year for the 12-to-24 month through 96-to-108 month factors and three-year average for the subsequent age-to-age factors.
- (d) The cumulative factors for 36, 48, 60, and 72 months are adjusted by -4.1%, -2.8%, -1.7%, and -1.0%, respectively, for the impact of the SB 1160 reductions in future lien filings.

Paid Medical Loss Development Factors (Continued)

Unadjusted (a)		Age-to-Age (in months)																		
Accident Year	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300	324/312	336/324	348/336	360/348	372/360	384/372	396/384	408/396	420/408	420Inc/420Pd (e)	ULT/420Inc (f)
1983						1.004	1.005	1.005	1.003	1.005	1.004	1.004	1.003	1.004	1.003	1.002	1.004	1.003		1.037
1984					1.004	1.004	1.004	1.003	1.004	1.003	1.004	1.004	1.003	1.003	1.002	1.002	1.002	1.002		1.037
1985				1.005	1.005	1.006	1.004	1.004	1.003	1.004	1.004	1.004	1.003	1.002	1.003	1.002	1.002	1.002		1.027
1986			1.006	1.004	1.005	1.004	1.005	1.005	1.005	1.005	1.005	1.005	1.004	1.006	1.004	1.004	1.003			1.020
1987		1.007	1.006	1.007	1.006	1.005	1.005	1.005	1.005	1.005	1.005	1.003	1.003	1.003	1.003	1.002				1.023
1988	1.005	1.006	1.007	1.006	1.005	1.005	1.006	1.005	1.005	1.004	1.003	1.003	1.003	1.004	1.003					1.017
1989	1.005	1.006	1.007	1.005	1.006	1.008	1.006	1.007	1.006	1.003	1.003	1.003	1.003	1.003						1.019
1990	1.006	1.005	1.005	1.005	1.005	1.006	1.004	1.004	1.003	1.002	1.003	1.002	1.003							
1991	1.007	1.006	1.006	1.005	1.006	1.005	1.006	1.003	1.003	1.003	1.003	1.004								
1992	1.008	1.007	1.002	1.006	1.008	1.006	1.005	1.005	1.005	1.004	1.006									
1993	1.011	1.011	1.010	1.013	1.011	1.007	1.006	1.006	1.005	1.008										
1994	1.013	1.009	1.010	1.010	1.009	1.008	1.007	1.004	1.004											
1995	1.011	1.016	1.013	1.012	1.009	1.012	1.007	1.008												
1996	1.014	1.013	1.011	1.009	1.007	1.009	1.008													
1997	1.014	1.011	1.006	1.006	1.007	1.007														
1998	1.013	1.010	1.009	1.008	1.009															
1999	1.012	1.009	1.009	1.008																
2000	1.009	1.008	1.007																	
2001	1.010	1.010																		
2002	1.009																			
Adjusted (b)		Age-to-Age (in months)																		
Accident Year	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300	324/312	336/324	348/336	360/348	372/360	384/372	396/384	408/396	420/408	420Inc/420Pd (e)	ULT/420Inc (f)
1983																		1.003		1.037
1984																		1.002	1.002	1.037
1985																1.002	1.002	1.002		1.027
1986															1.005	1.004	1.003			1.020
1987														1.003	1.004	1.002				1.023
1988													1.003	1.004	1.003					1.017
1989												1.003	1.004	1.003						1.019
1990											1.003	1.002	1.003							
1991										1.003	1.004	1.004								
1992									1.006	1.004	1.006									
1993								1.007	1.005	1.009										
1994							1.008	1.005	1.005											
1995						1.014	1.008	1.010												
1996					1.008	1.010	1.009													
1997				1.007	1.008	1.008														
1998			1.009	1.009	1.010															
1999		1.010	1.010	1.009																
2000	1.010	1.009	1.007																	
2001	1.012	1.011																		
2002	1.010																			
Selected (c)	1.011	1.010	1.009	1.008	1.009	1.011	1.008	1.007	1.005	1.005	1.004	1.003	1.003	1.003	1.004	1.003	1.002	1.002	1.024	
Cumulative	1.172	1.159	1.148	1.138	1.129	1.119	1.107	1.098	1.090	1.084	1.078	1.074	1.071	1.067	1.063	1.059	1.056	1.054		1.027

(e) Six-year averages of the 420Inc/420Pd factors are selected.

(f) The ULT/420Inc tail factor was calculated based on an inverse power curve fit to a six-year average of the 108-to-120 through 348-to-360 factors, excluding the 2016, 2017, and 2018 evaluations, and extrapolated to 80 development years.

**Selected Indemnity Development Factors - Paid to Age 264, Incurred from Age 264 to Ultimate**

Accident Year	Age-to-Age (in months)																						
	24/12	36/24	48/36	60/48	72/60	84/72	96/84	108/96	120/108	132/120	144/132	156/144	168/156	180/168	192/180	204/192	216/204	228/216	240/228	252/240	264/252	264Inc/264Pd (b)	
1993											1.009	1.004	1.004	1.004	1.004	1.003	1.002	1.003	1.003	1.002	1.002	1.012	
1994											1.010	1.012	1.008	1.007	1.006	1.003	1.004	1.003	1.003	1.003	1.003	1.002	1.016
1995										1.018	1.014	1.012	1.009	1.006	1.006	1.004	1.004	1.005	1.004	1.003	1.003	1.020	
1996									1.025	1.018	1.016	1.012	1.008	1.007	1.006	1.006	1.005	1.004	1.003	1.003	1.002	1.018	
1997								1.037	1.027	1.021	1.015	1.012	1.009	1.009	1.007	1.006	1.006	1.004	1.003	1.003	1.003	1.018	
1998									1.055	1.036	1.025	1.018	1.015	1.011	1.009	1.008	1.007	1.006	1.004	1.003	1.003	1.018	
1999					1.088	1.052	1.035	1.025	1.016	1.013	1.010	1.009	1.008	1.007	1.006	1.004	1.004	1.003	1.003	1.003		1.018	
2000				1.145	1.077	1.051	1.034	1.024	1.017	1.014	1.012	1.011	1.008	1.007	1.006	1.005	1.004	1.004	1.003	1.003		1.018	
2001				1.127	1.075	1.046	1.031	1.020	1.018	1.015	1.014	1.008	1.008	1.006	1.006	1.005	1.005	1.005				1.018	
2002			1.290	1.128	1.072	1.043	1.030	1.026	1.023	1.021	1.015	1.012	1.009	1.008	1.007	1.007						1.018	
2003		1.696	1.249	1.116	1.073	1.049	1.041	1.035	1.030	1.020	1.015	1.011	1.009	1.008	1.009							1.018	
2004	2.914	1.522	1.236	1.121	1.079	1.060	1.047	1.042	1.028	1.020	1.015	1.013	1.010	1.010								1.018	
2005	2.734	1.512	1.235	1.135	1.090	1.068	1.050	1.035	1.026	1.018	1.016	1.012	1.011									1.018	
2006	2.866	1.539	1.229	1.140	1.092	1.066	1.046	1.033	1.027	1.020	1.016	1.013	1.011									1.018	
2007	2.905	1.547	1.246	1.150	1.092	1.060	1.041	1.027	1.023	1.021	1.016	1.012	1.011									1.018	
2008	2.927	1.577	1.271	1.156	1.092	1.061	1.043	1.031	1.023	1.021	1.016	1.012	1.011									1.018	
2009	3.069	1.616	1.280	1.147	1.091	1.060	1.038	1.027	1.022													1.018	
2010	3.157	1.628	1.281	1.144	1.087	1.056	1.041	1.027														1.018	
2011	3.208	1.613	1.266	1.137	1.087	1.051	1.035															1.018	
2012	3.137	1.597	1.262	1.129	1.072	1.044																1.018	
2013	3.169	1.606	1.260	1.129	1.071																	1.018	
2014	3.229	1.635	1.257	1.119																		1.018	
2015	3.278	1.618	1.244																			1.018	
2016	3.235	1.586	1.230																			1.018	
2017	3.185	1.569																				1.018	
2018	3.109																					1.018	
Selected (a)	3.107(c)	1.568(c)	1.212(c)	1.104(c)	1.059(c)	1.039(c)	1.035	1.027	1.023	1.020	1.016	1.013	1.010	1.009	1.007	1.006	1.005	1.004	1.003	1.003	1.003	1.019	
Cumulative	8.814	2.837	1.809	1.493	1.352	1.277	1.229	1.188	1.156	1.131	1.109	1.092	1.078	1.067	1.058	1.051	1.045	1.040	1.036	1.033	1.030		

- (a) Selections are latest year for the 12-to-24 month through 96-to-108 month factors and three-year average for the subsequent paid age-to-age factors. Paid development factors are selected to age 264, where an incurred-to-paid ratio is chosen, and subsequently, six-year average incurred loss development factors are selected until ultimate.
- (b) A three-year average of the 264Inc/264Pd factor is selected.
- (c) Based on calculations shown on Exhibits 2.5.3 to 2.5.8. Each of these selections is calculated as the latest year paid indemnity age-to-age factor multiplied by an adjustment for changes in claim settlement rates.

**Selected Indemnity Development Factors - Paid to Age 264, Incurred from Age 264 to Ultimate (Continued)**

Accident Year	Age-to-Age (in months)													
	<u>276/264</u>	<u>288/276</u>	<u>300/288</u>	<u>312/300</u>	<u>324/312</u>	<u>336/324</u>	<u>348/336</u>	<u>360/348</u>	<u>372/360</u>	<u>384/372</u>	<u>396/384</u>	<u>408/396</u>	<u>420/408</u>	<u>ULT/420Inc (c)</u>
1983	1.002	1.001	1.001	1.000	1.000	1.001	1.001	1.001	1.001	1.001	1.000	1.001	1.001	
1984	1.001	1.000	1.000	1.001	1.001	1.000	1.001	1.001	1.000	0.999	1.000	1.000	1.001	
1985	1.001	1.000	1.001	1.000	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	
1986	1.001	1.001	1.000	1.001	1.002	1.001	1.000	0.999	1.000	1.000	1.000	1.000		
1987	1.000	1.000	1.001	1.002	1.000	1.001	1.001	1.001	1.001	1.001	1.000			
1988	1.001	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.001				
1989	1.001	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000					
1990	1.000	1.000	1.000	1.000	1.000	1.000	1.001	1.000						
1991	1.000	1.000	1.000	1.000	1.000	1.000	1.001							
1992	1.001	1.000	1.000	1.000	1.000	1.001								
1993	1.000	1.000	1.000	1.000	1.001									
1994	1.001	0.999	1.001	1.001										
1995	1.001	1.000	1.001											
1996	1.001	1.002												
1997	1.001													
1998														
Selected (a)	1.001	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.001	
Cumulative	1.008	1.007	1.007	1.007	1.007	1.006	1.006	1.006	1.005	1.005	1.005	1.005	1.005	1.004

(d) The ULT/420Inc tail factor was calculated based on an inverse power curve fit to a six-year average of the 108-to-120 through 348-to-360 factors, excluding the 2016, 2017, and 2018 evaluations, and extrapolated to 80 development years.

**Paid Indemnity Loss Development Factors  
With Separate Adjustments on Open and Closed Claims  
for Changes in Claim Settlement Rates**

A. Total Reported Indemnity Claim Counts

Accident Year	Evaluated as of (in months)						
	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2010							117,413
2011						118,023	118,184
2012					124,503	124,836	124,969
2013				132,239	132,845	133,085	133,293
2014			137,365	138,705	139,273	139,578	
2015		139,776	143,527	144,355	144,795		
2016	114,705	142,750	146,833	147,856			
2017	118,037	143,999	147,371				
2018	119,874	146,958					
2019	122,306						

B. Development of Total Reported Indemnity Claim Counts

Accident Year	Age-to-Age Development (in months):						
	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	<u>72-84</u>	<u>84-Ult</u>
2011						1.001	
2012					1.003	1.001	
2013				1.005	1.002	1.002	
2014			1.010	1.004	1.002		
2015		1.027	1.006	1.003			
2016	1.244	1.029	1.007				
2017	1.220	1.023					
2018	1.226						
Latest Year	1.226	1.023	1.007	1.003	1.002	1.002	
Cumulative	1.277	1.042	1.018	1.011	1.008	1.006	1.004

Acc. Year	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>
Ult. Claim Counts	156,190	153,084	150,002	149,454	145,915	140,350	133,822

C. Closed Indemnity Claim Counts

Accident Year	Evaluated as of (in months)						
	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2010							105,808
2011						102,779	107,552
2012					103,251	110,335	115,029
2013				101,303	112,583	119,538	124,198
2014			90,512	108,398	120,018	126,684	
2015		70,676	97,992	116,338	127,170		
2016	32,398	76,266	104,229	122,000			
2017	35,866	80,944	107,816				
2018	37,352	82,823					
2019	38,393						

Source: Accident year experience of insurers with available claim count data

**Paid Indemnity Loss Development Factors  
With Separate Adjustments on Open and Closed Claims  
for Changes in Claim Settlement Rates**

D. Ultimate Indemnity Claim Settlement Ratio (a)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							89.7%
2011						86.6%	90.7%
2012					82.3%	87.9%	91.7%
2013				75.7%	84.1%	89.3%	92.8%
2014			64.5%	77.2%	85.5%	90.3%	
2015		48.4%	67.2%	79.7%	87.2%		
2016	21.7%	51.0%	69.7%	81.6%			
2017	23.9%	54.0%	71.9%				
2018	24.4%	54.1%					
2019	24.6%						

E. Adjusted Closed Indemnity Claim Counts at Equal Percentiles of Ultimate Claim Counts (b)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							109,422
2011						107,092	110,113
2012					109,347	113,248	116,442
2013				109,239	116,630	120,791	124,198
2014			100,879	114,569	122,320	126,684	
2015		78,944	104,879	119,111	127,170		
2016	36,737	80,859	107,422	122,000			
2017	36,872	81,155	107,816				
2018	37,630	82,823					
2019	38,393						

F. Average Paid Indemnity per Closed Claim

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							18,412
2011						16,888	18,408
2012					15,144	17,050	18,343
2013				12,986	15,445	17,104	18,240
2014			10,179	13,784	16,343	17,936	
2015		6,177	10,887	14,485	16,884		
2016	2,493	6,545	11,027	14,468			
2017	2,591	6,644	11,132				
2018	2,872	7,019					
2019	3,113						

- (a) Ratio of closed indemnity claim counts (Item C) to the estimated ultimate indemnity claim counts (Item B) for that accident year.
- (b) The claim counts for the latest evaluation of each accident year are equal to the reported number of closed indemnity claims. All prior evaluations shown are the product of the latest ultimate indemnity claim settlement ratio (Item D) and the ultimate indemnity claim counts (Item B) for that accident year.

Source: Accident year experience of insurers with available claim count data

**Paid Indemnity Loss Development Factors  
With Separate Adjustments on Open and Closed Claims  
for Changes in Claim Settlement Rates**

G. Adjusted Average Paid Indemnity per Closed Claim (c)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							19,736
2011						18,256	19,302
2012					16,770	17,841	18,817
2013				14,671	16,390	17,403	18,240
2014			12,135	15,088	16,877	17,936	
2015		7,333	12,119	15,065	16,884		
2016	2,743	7,131	11,579	14,468			
2017	2,646	6,671	11,132				
2018	2,888	7,019					
2019	3,113						

H. Adjusted Paid Indemnity on Closed Claims (in \$000) (d)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							2,159,539
2011						1,955,091	2,125,437
2012					1,833,779	2,020,459	2,191,098
2013				1,602,655	1,911,560	2,102,095	2,265,429
2014			1,224,123	1,728,665	2,064,337	2,272,211	
2015		578,896	1,271,035	1,794,354	2,147,123		
2016	100,766	576,584	1,243,795	1,765,036			
2017	97,550	541,365	1,200,236				
2018	108,663	581,365					
2019	119,517						

I. Paid Indemnity on Open Claims (in \$000)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							498,665
2011						556,228	440,113
2012					647,455	523,609	417,463
2013				778,393	624,798	488,939	380,237
2014			899,209	792,172	618,847	491,890	
2015		779,669	900,673	761,630	591,053		
2016	311,212	769,030	862,526	710,096			
2017	317,153	768,513	849,735				
2018	339,707	808,530					
2019	354,882						

- (c) Adjusted based on ultimate indemnity claim settlement ratios (Item D) and assuming a log-linear relationship between maturities.
- (d) Each amount is the product of the adjusted closed indemnity claim counts (Item E) and the adjusted average paid indemnity per closed claim (Item G), and divided by \$1,000.

Source: Accident year experience of insurers with available claim count data

**Paid Indemnity Loss Development Factors  
With Separate Adjustments on Open and Closed Claims  
for Changes in Claim Settlement Rates**

J. Average Paid Indemnity per Open Claim for Indemnity Claims in Transition (e)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							42,970
2011						36,488	41,395
2012					30,466	36,108	41,998
2013				25,161	30,836	36,092	41,807
2014			19,192	26,138	32,140	38,149	
2015		11,283	19,780	27,185	33,535		
2016	3,781	11,567	20,245	27,463			
2017	3,860	12,188	21,482				
2018	4,117	12,607					
2019	4,229						

K. Changes in Paid Indemnity on Open Claims Resulting from the Impact of Changes in Claim Settlement Rates (in \$000) (f)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							-155,293
2011						-157,374	-106,013
2012					-185,718	-105,184	-59,344
2013				-199,681	-124,793	-45,223	
2014			-198,965	-161,299	-73,985		
2015		-93,290	-136,223	-75,383			
2016	-16,406	-53,128	-64,643				
2017	-3,883	-2,572					
2018	-1,144						

L. Adjusted Paid Indemnity on Open Claims (in \$000) (g)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							343,372
2011						398,854	334,100
2012					461,736	418,425	358,119
2013				578,712	500,005	443,716	380,237
2014			700,244	630,873	544,862	491,890	
2015		686,380	764,450	686,247	591,053		
2016	294,806	715,902	797,883	710,096			
2017	313,270	765,941	849,735				
2018	338,563	808,530					
2019	354,882						

- (e) Each amount is equal to the product of [the average monthly indemnity payment per open indemnity claim] and [the number of months for the current evaluation]. For evaluations indicating claim settlement rate decreases, the average monthly indemnity payment per open indemnity claim at the prior evaluation is used. For evaluations indicating claim settlement rate increases, the average monthly indemnity payment per open indemnity claim at the same evaluation is used.
- (f) Each amount is equal to [the difference between unadjusted and adjusted closed indemnity claim counts (Items C and E)] multiplied by the corresponding [average paid indemnity per open claim for indemnity claims in transition (Item J)].
- (g) Each amount is the sum of [paid indemnity on open claims (Item I)] and the corresponding [incremental changes in paid indemnity on open claims resulting from the impact of changes in claim settlement rates (Item K)].

Source: Accident year experience of insurers with available claim count data

**Paid Indemnity Loss Development Factors  
With Separate Adjustments on Open and Closed Claims  
for Changes in Claim Settlement Rates**

M. Adjusted Total Paid Indemnity (in \$000) (h)

Accident Year	Evaluated as of (in months)						
	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2010							2,502,912
2011					2,353,945	2,459,537	
2012				2,295,515	2,438,883	2,549,218	
2013			2,181,366	2,411,565	2,545,811	2,645,666	
2014		1,924,367	2,359,538	2,609,198	2,764,101		
2015	1,265,276	2,035,484	2,480,601	2,738,176			
2016	395,572	1,292,486	2,041,678	2,475,132			
2017	410,820	1,307,306	2,049,971				
2018	447,226	1,389,895					
2019	474,399						

N. Paid Indemnity Loss Development Factors Based on Adjusted Total Paid Indemnity

Accident Year	Evaluated as of (in months)					
	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	<u>72-84</u>
2010						
2011						1.045
2012					1.062	1.045
2013				1.106	1.056	1.039
2014			1.226	1.106	1.059	
2015		1.609	1.219	1.104		
2016	3.267	1.580	1.212			
2017	3.182	1.568				
2018	3.108					
Latest Year	3.108	1.568	1.212	1.104	1.059	1.039
3-Year Average	3.186	1.585	1.219	1.105	1.059	1.043

O. Paid Indemnity Loss Development Factors (i)

Accident Year	Evaluated as of (in months)					
	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	<u>72-84</u>
2011						1.056
2012					1.088	1.051
2013				1.129	1.072	1.044
2014			1.256	1.129	1.071	
2015		1.618	1.244	1.119		
2016	3.235	1.586	1.230			
2017	3.186	1.569				
2018	3.110					

(h) Each amount is the sum of the adjusted paid indemnity on closed claims (Item H) and the adjusted paid indemnity on open claims (Item L).

(i) Development factors are based on paid indemnity losses from the same insurer mix as that used in the adjustment for changes in claim settlement rates and applied in the calculation of the development factors in Item N.

Source: Accident year experience of insurers with available claim count data

**Paid Indemnity Loss Development Factors  
With Separate Adjustments on Open and Closed Claims  
for Changes in Claim Settlement Rates**

P. Impact of Adjustment for Changes in Claim Settlement Rates (j)

Accident Year	Evaluated as of (in months)					
	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	<u>72-84</u>
2011						-1.04%
2012					-2.31%	-0.55%
2013				-2.06%	-1.51%	-0.48%
2014			-2.36%	-2.02%	-1.11%	
2015		-0.56%	-2.00%	-1.36%		
2016	0.99%	-0.42%	-1.46%			
2017	-0.10%	-0.08%				
2018	-0.05%					

Q. Paid Indemnity Loss Development Factors Adjusted for Changes in  
Indemnity Claim Settlement Rates (k)

Accident Year	Evaluated as of (in months)					
	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	<u>72-84</u>
2011						1.045
2012					1.062	1.045
2013				1.106	1.056	1.039
2014			1.227	1.106	1.059	
2015		1.609	1.219	1.104		
2016	3.267	1.579	1.212			
2017	3.182	1.568				
2018	3.107					
Latest Year	3.107	1.568	1.212	1.104	1.059	1.039
3-Year Average	3.185	1.585	1.219	1.105	1.059	1.043

(j) Each factor represents the change in age-to-age development factors from Item O to those in Item N.

(k) Each factor is the product of [1.0 + the impact of adjustment for changes in claim settlement rates (Item P)] and [the paid indemnity age-to-age development factor from Exhibit 2.5.1].

Source: Accident year experience of insurers with available claim count data

Selected Medical Development Factors - Paid to Age 264, Incurred from Age 264 to Ultimate

Unadjusted (a) Accident Year	Age-to-Age (in months)																					
	24/12	36/24	48/36	60/48	72/60	84/72	96/84	108/96	120/108	132/120	144/132	156/144	168/156	180/168	192/180	204/192	216/204	228/216	240/228	252/240	264/252	264Inc/264Pd (e)
1993												1.014	1.012	1.014	1.013	1.011	1.011	1.011	1.010	1.013	1.011	1.083
1994										1.017	1.018	1.014	1.014	1.017	1.013	1.012	1.013	1.009	1.010	1.010	1.009	1.091
1995									1.020	1.024	1.021	1.019	1.018	1.018	1.015	1.011	1.016	1.013	1.012	1.009	1.009	1.097
1996								1.029	1.025	1.027	1.023	1.020	1.018	1.016	1.013	1.014	1.013	1.011	1.009	1.007	1.007	1.078
1997								1.036	1.033	1.028	1.026	1.022	1.019	1.016	1.014	1.014	1.011	1.006	1.006	1.007	1.007	1.069
1998							1.047	1.039	1.033	1.032	1.030	1.021	1.019	1.019	1.015	1.017	1.013	1.010	1.009	1.008	1.009	1.078
1999						1.059	1.044	1.035	1.032	1.032	1.025	1.025	1.016	1.016	1.018	1.015	1.012	1.009	1.009	1.008	1.008	
2000					1.079	1.056	1.042	1.038	1.031	1.027	1.023	1.020	1.020	1.017	1.013	1.010	1.009	1.008	1.007			
2001				1.109	1.076	1.057	1.045	1.038	1.034	1.030	1.022	1.022	1.022	1.017	1.012	1.011	1.010	1.010				
2002			1.168	1.112	1.072	1.054	1.046	1.034	1.032	1.024	1.023	1.018	1.016	1.012	1.011	1.010	1.009					
2003		1.318	1.170	1.112	1.074	1.057	1.048	1.041	1.030	1.030	1.026	1.019	1.016	1.013	1.012	1.010						
2004	2.298	1.345	1.189	1.123	1.092	1.070	1.055	1.040	1.036	1.034	1.024	1.018	1.015	1.012	1.013							
2005	2.251	1.345	1.209	1.138	1.095	1.073	1.054	1.049	1.038	1.031	1.021	1.019	1.014	1.013								
2006	2.340	1.399	1.220	1.140	1.099	1.068	1.056	1.042	1.034	1.025	1.020	1.015	1.015									
2007	2.416	1.413	1.230	1.142	1.097	1.075	1.057	1.041	1.031	1.022	1.020	1.015										
2008	2.325	1.421	1.241	1.148	1.103	1.072	1.051	1.035	1.027	1.018	1.017											
2009	2.408	1.447	1.251	1.160	1.104	1.067	1.046	1.032	1.024	1.020												
2010	2.479	1.468	1.265	1.152	1.096	1.066	1.043	1.030	1.025													
2011	2.580	1.470	1.248	1.145	1.095	1.058	1.041	1.029														
2012	2.561	1.468	1.247	1.143	1.087	1.056	1.039															
2013	2.492	1.464	1.238	1.130	1.077	1.048																
2014	2.518	1.462	1.226	1.121	1.076																	
2015	2.533	1.439	1.218	1.111																		
2016	2.480	1.410	1.197																			
2017	2.373	1.391																				
2018	2.378																					
Adjusted (b) Accident Year	Age-to-Age (in months)																					
	24/12	36/24	48/36	60/48	72/60	84/72	96/84	108/96	120/108	132/120	144/132	156/144	168/156	180/168	192/180	204/192	216/204	228/216	240/228	252/240	264/252	264Inc/264Pd (e)
1996																					1.008	1.078
1997																					1.007	1.069
1998																					1.008	1.078
1999																		1.010	1.009	1.010	1.009	
2000																	1.010	1.009	1.007			
2001																1.012	1.012	1.011				
2002															1.012	1.011	1.010					
2003															1.013	1.011						
2004														1.014	1.013	1.014						
2005														1.016	1.013	1.014						
2006														1.016	1.015							
2007										1.024	1.022	1.017										
2008										1.029	1.020	1.018										
2009									1.034	1.026	1.022											
2010							1.044		1.032	1.027												
2011						1.062	1.046	1.032														
2012					1.093	1.062	1.043															
2013				1.137	1.084	1.052																
2014			1.233	1.128	1.080																	
2015		1.443	1.224	1.114																		
2016	2.486	1.416	1.199																			
2017	2.386	1.393																				
2018	2.378																					
Selected (c)	2.378(e)	1.392(e)	1.188(e)	1.102(e)	1.068(e)	1.047(e)	1.043	1.032	1.027	1.022	1.021	1.018	1.016	1.014	1.013	1.011	1.011	1.010	1.009	1.008	1.009	1.075
Cumulative Unadjusted for Impact of SB 1160	6.927	2.913	2.092	1.761	1.598	1.496	1.429	1.370	1.328	1.292	1.264	1.239	1.217	1.198	1.182	1.166	1.153	1.141	1.130	1.120	1.111	
Cumulative Adjusted for Impact of SB 1160(f)	6.644	2.794	2.006	1.712	1.571	1.482	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

- (a) Paid medical loss development factors include the paid cost of medical cost containment programs for accident years 2011 and prior.
- (b) These factors are adjusted for the losses paid prior to July 1, 2017 by -3.6%, -3.8%, -3.4%, -2.4%, -0.9%, and -0.1% to accident years 2011 to 2016, respectively, for the SB 1160 lien reforms. Factors are also adjusted for the impact of pharmaceutical cost reductions to bring the historical payments to the current pharmaceutical cost level.
- (c) Selections are latest year for the 12-to-24 month through 96-to-108 month factors and three-year average for the subsequent paid age-to-age factors. Paid development factors are selected to age 264, where an incurred-to-paid ratio is chosen, and subsequently, six-year average incurred loss development factors are selected until ultimate.
- (d) A three-year average of the 264Inc/264Pd factor is selected.
- (e) Based on calculations shown on Exhibits 2.6.3 to 2.6.8. Each of these selections are calculated as the latest year paid medical age-to-age factor multiplied by an adjustment for changes in claim settlement rates.
- (f) The cumulative factors for 36, 48, 60, and 72 months are adjusted by -4.1%, -2.8%, -1.7%, and -1.0%, respectively, for the impact of the SB 1160 reductions in future lien filings.

**Selected Medical Development Factors - Paid to Age 264, Incurred from Age 264 to Ultimate (Continued)**

Accident Year	Age-to-Age (in months)													ULT/420Inc (g)
	276/264	288/276	300/288	312/300	324/312	336/324	348/336	360/348	372/360	384/372	396/384	408/396	420/408	
1983	1.001	1.005	1.001	1.006	1.004	1.002	1.006	1.003	1.004	1.003	0.997	0.999	0.998	
1984	1.004	1.002	1.003	1.003	1.002	1.003	1.001	1.003	1.001	0.997	1.000	1.001	1.000	
1985	1.000	1.001	1.003	1.003	1.003	1.005	1.002	1.003	0.998	0.999	0.999	1.000	1.001	
1986	1.003	1.006	1.005	1.006	1.004	1.005	1.000	1.002	0.998	1.001	1.006	0.994		
1987	1.011	0.999	1.007	1.003	1.004	1.005	1.001	0.997	1.001	1.000	1.005			
1988	1.005	1.002	1.005	1.003	1.003	1.002	0.998	0.999	1.000	1.001				
1989	1.008	1.006	1.000	1.003	0.999	0.999	0.999	0.999	1.002					
1990	1.003	1.003	0.997	1.002	1.000	1.000	0.998	0.999						
1991	1.002	1.003	1.001	1.000	0.999	0.998	1.000							
1992	1.005	1.000	0.999	1.001	0.999	1.002								
1993	1.000	0.996	0.999	0.998	0.998									
1994	0.996	0.995	1.002	1.002										
1995	0.992	0.999	1.001											
1996	0.997	1.000												
1997	1.001													
1998														
Selected (c)	0.999	0.999	1.000	1.001	1.000	1.001	0.999	1.000	1.000	1.000	1.001	0.999	1.000	
Cumulative	1.025	1.026	1.027	1.028	1.027	1.027	1.026	1.027	1.027	1.027	1.027	1.025	1.027	1.027

(g) The ULT/420Inc tail factor was calculated based on an inverse power curve fit to a six-year average of the 108-to-120 through 348-to-360 factors, excluding the 2016, 2017, and 2018 evaluations, and extrapolated to 80 development years.

**Paid Medical Loss Development Factors  
With Separate Adjustments on Open and Closed Claims  
for Changes in Claim Settlement Rates**

A. Total Reported Indemnity Claim Counts

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							117,413
2011						118,023	118,184
2012					124,503	124,836	124,969
2013				132,239	132,845	133,085	133,293
2014			137,365	138,705	139,273	139,578	
2015		139,776	143,527	144,355	144,795		
2016	114,705	142,750	146,833	147,856			
2017	118,037	143,999	147,371				
2018	119,874	146,958					
2019	122,306						

B. Development of Total Reported Indemnity Claim Counts

Accident Year	Age-to-Age Development (in months):						
	12-24	24-36	36-48	48-60	60-72	72-84	84-Ult
2011						1.001	
2012					1.003	1.001	
2013				1.005	1.002	1.002	
2014			1.010	1.004	1.002		
2015		1.027	1.006	1.003			
2016	1.244	1.029	1.007				
2017	1.220	1.023					
2018	1.226						
Latest Year	1.226	1.023	1.007	1.003	1.002	1.002	
Cumulative	1.277	1.042	1.018	1.011	1.008	1.006	1.004

Acc. Year	2019	2018	2017	2016	2015	2014	2013
Ult. Claim Counts	156,190	153,084	150,002	149,454	145,915	140,350	133,822

C. Closed Indemnity Claim Counts

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							105,808
2011						102,779	107,552
2012					103,251	110,335	115,029
2013				101,303	112,583	119,538	124,198
2014			90,512	108,398	120,018	126,684	
2015		70,676	97,992	116,338	127,170		
2016	32,398	76,266	104,229	122,000			
2017	35,866	80,944	107,816				
2018	37,352	82,823					
2019	38,393						

Source: Accident year experience of insurers with available claim count and paid loss data

**Paid Medical Loss Development Factors  
With Separate Adjustments on Open and Closed Claims  
for Changes in Claim Settlement Rates**

D. Ultimate Indemnity Claim Settlement Ratio (a)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							89.7%
2011						86.6%	90.7%
2012					82.3%	87.9%	91.7%
2013				75.7%	84.1%	89.3%	92.8%
2014			64.5%	77.2%	85.5%	90.3%	
2015		48.4%	67.2%	79.7%	87.2%		
2016	21.7%	51.0%	69.7%	81.6%			
2017	23.9%	54.0%	71.9%				
2018	24.4%	54.1%					
2019	24.6%						

E. Adjusted Closed Indemnity Claim Counts at Equal Percentiles of Ultimate Claim Counts (b)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							109,422
2011						107,092	110,113
2012					109,347	113,248	116,442
2013				109,239	116,630	120,791	124,198
2014			100,879	114,569	122,320	126,684	
2015		78,944	104,879	119,111	127,170		
2016	36,737	80,859	107,422	122,000			
2017	36,872	81,155	107,816				
2018	37,630	82,823					
2019	38,393						

F. Average Paid Medical per Closed Indemnity Claim

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							23,425
2011						20,220	22,413
2012					17,040	19,391	21,096
2013				13,615	16,510	18,543	19,934
2014			10,051	13,659	16,359	18,142	
2015		6,242	10,430	13,848	16,219		
2016	2,709	6,471	10,486	13,493			
2017	2,835	6,648	10,632				
2018	2,972	6,953					
2019	3,367						

- (a) Ratio of closed indemnity claim counts (Item C) to the estimated ultimate indemnity claim counts (Item B) for that accident year.
- (b) The claim counts for the latest evaluation of each accident year are equal to the reported number of closed indemnity claims. All prior evaluations shown are the product of the latest ultimate indemnity claim settlement ratio (Item D) and the ultimate indemnity claim counts (Item B) for that accident year.

Source: Accident year experience of insurers with available claim count and paid loss data

**Paid Medical Loss Development Factors  
With Separate Adjustments on Open and Closed Claims  
for Changes in Claim Settlement Rates**

G. Adjusted Average Paid Medical per Closed Indemnity Claim (c)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							25,447
2011						22,192	23,713
2012					19,045	20,432	21,691
2013				15,593	17,665	18,907	19,934
2014			12,007	15,032	16,954	18,142	
2015		7,292	11,601	14,420	16,219		
2016	2,953	7,005	10,972	13,493			
2017	2,889	6,672	10,632				
2018	2,987	6,953					
2019	3,367						

H. Adjusted Paid Medical (in \$000) on Closed Indemnity Claims (d)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							2,784,437
2011						2,376,609	2,611,143
2012					2,082,518	2,313,915	2,525,743
2013				1,703,418	2,060,217	2,283,827	2,475,768
2014			1,211,240	1,722,206	2,073,838	2,298,317	
2015		575,658	1,216,751	1,717,589	2,062,515		
2016	108,482	566,437	1,178,645	1,646,150			
2017	106,538	541,498	1,146,297				
2018	112,410	575,852					
2019	129,260						

I. Paid Medical on Open Indemnity Claims (in \$000)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							770,199
2011						779,632	626,295
2012					824,182	681,966	562,316
2013				890,651	725,876	578,107	462,604
2014			942,042	832,770	653,088	532,301	
2015		832,957	905,221	783,684	621,517		
2016	379,294	829,759	866,037	742,365			
2017	401,230	825,094	846,238				
2018	420,896	876,444					
2019	402,789						

- (c) Adjusted based on ultimate indemnity claim settlement ratios (Item D) and assuming a log-linear relationship between maturities.  
(d) Each amount is equal to the product of [adjusted closed indemnity claim counts (Item E)] and [adjusted average paid medical per closed indemnity claim (Item G)], and divided by \$1,000.

Source: Accident year experience of insurers with available claim count and paid loss data

**Paid Medical Loss Development Factors  
With Separate Adjustments on Open and Closed Claims  
for Changes in Claim Settlement Rates**

J. Average Paid Medical per Open Indemnity Claim for Indemnity Claims in Transition (e)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							66,368
2011						51,144	58,907
2012					38,781	47,029	56,571
2013				28,790	35,824	42,674	50,864
2014			20,106	27,478	33,918	41,283	
2015		12,054	19,880	27,972	35,263		
2016	4,608	12,481	20,328	28,712			
2017	4,883	13,085	21,394				
2018	5,100	13,666					
2019	4,800						

K. Changes in Paid Medical on Open Indemnity Claims Resulting from the Impact of Changes in Indemnity Claim Settlement Rates (in \$000) (f)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							-239,853
2011						-220,582	-150,860
2012					-236,411	-136,995	-79,935
2013				-228,478	-144,982	-53,471	
2014			-208,442	-169,566	-78,079		
2015		-99,666	-136,911	-77,566			
2016	-19,995	-57,323	-64,906				
2017	-4,912	-2,761					
2018	-1,418						

L. Adjusted Paid Medical on Open Indemnity Claims (in \$000) (g)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							530,346
2011						559,050	475,435
2012					587,771	544,971	482,381
2013				662,173	580,894	524,636	462,604
2014			733,600	663,204	575,009	532,301	
2015		733,292	768,310	706,118	621,517		
2016	359,298	772,436	801,131	742,365			
2017	396,318	822,333	846,238				
2018	419,478	876,444					
2019	402,789						

- (e) Each amount is equal to the product of [the average monthly medical payment per open indemnity claim] and [the number of months for the current evaluation]. For evaluations indicating claim settlement rate decreases, the average monthly medical payment per open indemnity claim at the prior evaluation is used. For evaluations indicating claim settlement rate increases, the average monthly medical payment per open indemnity claim at the same evaluation is used.
- (f) Each amount is equal to [the difference between unadjusted and adjusted closed indemnity claim counts (Items C and E)] multiplied by [the corresponding average paid medical per open indemnity claim for indemnity claims in transition (Item J)].
- (g) Each amount is the sum of [paid medical on open indemnity claims (Item I)] and the corresponding [incremental changes in paid medical on open indemnity claims resulting from the impact of changes in indemnity claim settlement rates (Item K)].

Source: Accident year experience of insurers with available claim count and paid loss data

**Paid Medical Loss Development Factors  
With Separate Adjustments on Open and Closed Claims  
for Changes in Claim Settlement Rates**

M. Paid Medical on Medical-Only Claims (in \$000)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							229,525
2011						216,042	219,568
2012					220,576	225,129	227,236
2013				221,313	227,721	230,564	233,122
2014			237,996	245,395	249,398	252,001	
2015		239,277	249,946	255,984	261,632		
2016	169,393	255,275	266,631	274,669			
2017	187,254	274,301	285,844				
2018	200,860	289,996					
2019	197,661						

N. Adjusted Total Paid Medical (in \$000) (h)

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2010							3,591,508
2011						3,417,014	3,582,137
2012					2,890,865	3,084,015	3,235,360
2013				2,586,904	2,868,833	3,039,027	3,171,494
2014			2,182,835	2,630,805	2,898,246	3,082,618	
2015		1,548,227	2,235,006	2,679,692	2,945,665		
2016	637,173	1,594,148	2,246,407	2,663,183			
2017	690,109	1,638,133	2,278,379				
2018	732,748	1,742,292					
2019	729,710						

O. Paid Medical Loss Development Factors Based on Adjusted Total Paid Medical

Accident Year	Evaluated as of (in months)					
	12-24	24-36	36-48	48-60	60-72	72-84
2011						1.048
2012					1.067	1.049
2013				1.109	1.059	1.044
2014			1.205	1.102	1.064	
2015		1.444	1.199	1.099		
2016	2.502	1.409	1.186			
2017	2.374	1.391				
2018	2.378					
Latest Year	2.378	1.391	1.186	1.099	1.064	1.044

(h) Each amount is the sum of [adjusted paid medical on closed indemnity claims (Item H)], [adjusted paid medical on open indemnity claims (Item L)] and [paid medical on medical-only claims (Item M)]. The effect of the paid cost of medical cost containment programs are only present for accident years 2011 and prior.

Source: Accident year experience of insurers with available claim count and paid loss data

**Paid Medical Loss Development Factors  
With Separate Adjustments on Open and Closed Claims  
for Changes in Claim Settlement Rates**

P. Paid Medical Loss Development Factors (i)

Accident Year	Evaluated as of (in months)					
	12-24	24-36	36-48	48-60	60-72	72-84
2011						1.059
2012					1.086	1.056
2013				1.129	1.076	1.048
2014			1.224	1.120	1.076	
2015		1.439	1.217	1.111		
2016	2.480	1.410	1.197			
2017	2.373	1.391				
2018	2.378					

Q. Impact of Adjustment for Changes in Indemnity Claim Settlement Rates (j)

Accident Year	Evaluated as of (in months)					
	12-24	24-36	36-48	48-60	60-72	72-84
2011						-1.04%
2012					-1.81%	-0.62%
2013				-1.77%	-1.52%	-0.45%
2014			-1.57%	-1.64%	-1.12%	
2015		0.34%	-1.52%	-1.08%		
2016	0.87%	-0.05%	-0.93%			
2017	0.05%	-0.04%				
2018	0.00%					

R. Paid Medical Loss Development Factors Adjusted for Changes in Indemnity  
Claim Settlement Rates (k)

Accident Year	Evaluated as of (in months)					
	12-24	24-36	36-48	48-60	60-72	72-84
2011						1.051
2012					1.073	1.055
2013				1.117	1.068	1.047
2014			1.214	1.110	1.068	
2015		1.448	1.205	1.102		
2016	2.508	1.415	1.188			
2017	2.387	1.392				
2018	2.378					
Latest Year	2.378	1.392	1.188	1.102	1.068	1.047
3-Year Average	2.424	1.419	1.202	1.109	1.070	1.051

(i) Development factors are based on paid medical losses from the same insurer mix as that used in the adjustment for changes in claim settlement rates and applied in the calculation of the development factors in Item O.

(j) Each factor represents the change in age-to-age development factors from Item P to those in Item O.

(k) Each factor is the product of [1.0 + the impact of adjustment for changes in claim settlement rates (Item Q)] and [the adjusted paid medical age-to-age development factor from Exhibit 2.6.1].

Source: Accident year experience of insurers with available claim count and paid loss data

**Developed Indemnity Loss Ratios Using Selected Loss Development Factors  
Adjusted for Changes in Claim Settlement Rates  
Based on Experience as of December 31, 2019**

Accident Year	Development Factors			
	(1) Paid or Incurred Loss Ratio (a)	(2) Annual (b)	(3) Cumulative	(4) Projected Ultimate Loss Ratio (4) = (1) x (3)
1986	0.396	1.001	1.005	0.398
1987	0.346	1.000	1.005	0.348
1988	0.331	1.000	1.005	0.332
1989	0.343	1.000	1.005	0.345
1990	0.398	1.000	1.005	0.400
1991	0.425	1.000	1.006	0.427
1992	0.350	1.001	1.006	0.352
1993	0.288	1.000	1.006	0.289
1994	0.328	1.000	1.007	0.330
1995	0.473	1.000	1.007	0.476
1996	0.531	1.000	1.007	0.534
1997	0.600	1.000	1.007	0.605
1998	0.652	1.001	1.008	0.657
1999	0.672	1.003	1.030	0.692
2000	0.579	1.003	1.033	0.598
2001	0.478	1.003	1.036	0.496
2002	0.355	1.004	1.040	0.369
2003	0.234	1.005	1.045	0.244
2004	0.139	1.006	1.051	0.146
2005	0.118	1.007	1.058	0.125
2006	0.152	1.009	1.067	0.162
2007	0.207	1.010	1.078	0.224
2008	0.260	1.013	1.092	0.284
2009	0.301	1.016	1.109	0.333
2010	0.286	1.020	1.131	0.323
2011	0.261	1.023	1.156	0.302
2012	0.228	1.027	1.188	0.271
2013	0.190	1.035	1.229	0.234
2014	0.174	1.039	1.277	0.222
2015	0.161	1.059	1.352	0.217
2016	0.138	1.104	1.493	0.206
2017	0.116	1.212	1.809	0.210
2018	0.080	1.568	2.837	0.226
2019	0.029	3.107	8.814	0.259

- (a) Based on Exhibit 1. To reflect the selected loss development methodology, reported loss ratios displayed prior to 1999 are on an incurred basis. Subsequent reported loss ratios are on a paid basis.
- (b) See Exhibits 2.5.1 and 2.5.2.

**Developed Medical Loss Ratios Using Selected Loss Development Factors  
Adjusted for Changes in Claim Settlement Rates  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Paid or Incurred Loss Ratio (a)	Adjusted Paid or Incurred Loss Ratio (b)	Annual (c)	Reform Adjusted		Adjusted Developed Loss Ratio (d) (2) x (5)	Projected Ultimate Loss Ratio (1) + ((6) - (2))
				Development Factors			
				Unadjusted for Reforms (c)	Adjusted for Reforms (c)		
1986	0.332	0.332	1.000	1.027	1.027	0.341	0.341
1987	0.315	0.315	0.999	1.025	1.025	0.323	0.323
1988	0.305	0.305	1.001	1.027	1.027	0.313	0.313
1989	0.326	0.326	1.000	1.027	1.027	0.334	0.334
1990	0.366	0.366	1.000	1.027	1.027	0.376	0.376
1991	0.384	0.384	1.000	1.027	1.027	0.394	0.394
1992	0.319	0.319	0.999	1.026	1.026	0.328	0.328
1993	0.266	0.266	1.001	1.027	1.027	0.273	0.273
1994	0.309	0.309	1.000	1.027	1.027	0.317	0.317
1995	0.454	0.454	1.001	1.028	1.028	0.466	0.466
1996	0.484	0.484	1.000	1.027	1.027	0.498	0.498
1997	0.545	0.545	0.999	1.026	1.026	0.560	0.560
1998	0.660	0.660	0.999	1.025	1.025	0.676	0.676
1999	0.668	0.595	1.009	1.111	1.111	0.661	0.734
2000	0.601	0.536	1.008	1.120	1.120	0.601	0.666
2001	0.530	0.475	1.009	1.130	1.130	0.537	0.592
2002	0.408	0.367	1.010	1.141	1.141	0.419	0.460
2003	0.259	0.234	1.011	1.153	1.153	0.270	0.295
2004	0.175	0.159	1.011	1.166	1.166	0.185	0.202
2005	0.170	0.155	1.013	1.182	1.182	0.183	0.199
2006	0.218	0.198	1.014	1.198	1.198	0.237	0.257
2007	0.303	0.276	1.016	1.217	1.217	0.336	0.363
2008	0.373	0.341	1.018	1.239	1.239	0.422	0.454
2009	0.429	0.397	1.021	1.264	1.264	0.502	0.534
2010	0.415	0.385	1.022	1.292	1.292	0.498	0.528
2011	0.349	0.326	1.027	1.328	1.328	0.433	0.456
2012	0.292	0.276	1.032	1.370	1.370	0.378	0.394
2013	0.229	0.218	1.043	1.429	1.429	0.312	0.322
2014	0.195	0.189	1.047	1.496	1.482	0.280	0.286
2015	0.173	0.170	1.068	1.598	1.571	0.267	0.270
2016	0.148	0.147	1.102	1.761	1.712	0.252	0.253
2017	0.129	0.129	1.188	2.092	2.006	0.258	0.258
2018	0.100	0.100	1.392	2.913	2.794	0.279	0.279
2019	0.045	0.045	2.378	6.927	6.644	0.301	0.301

- (a) Based on Exhibit 1. Paid MCCP costs are excluded from accident years 2011 and subsequent. To reflect the selected loss development methodology, reported loss ratios displayed prior to 1999 are on an incurred basis. Subsequent reported loss ratios are on a paid basis.
- (b) Based on experience evaluated as of December 31, 2019. Reflects an adjustment for the pharmaceutical cost reductions to restate the historical medical paid-to-date ratios at a 2018 pharmaceutical cost level.
- (c) See Exhibits 2.6.1 and 2.6.2.
- (d) The developed medical loss ratios shown were derived based on an adjustment for pharmaceutical cost reductions. They are only for purposes of projecting future medical loss ratios and do not reflect true estimates of ultimate loss ratios for those accident years.

**Indemnity Benefit Level Factors**

Accident Year	(1) Annual Benefit Change Prior to Frequency Adjustments (a)	(2) Frequency Adjustments (a)	(3) Annual Impact on Indemnity Benefits Due to Wage Inflation (b)	(4) Annual Cost Impact on Indemnity (c)	(5) Composite Indemnity Adjustment Factor (d)
1987	0.0	0.0	1.9	1.9	1.538
1988	0.0	0.0	1.5	1.5	1.515
1989	0.0	0.0	1.5	1.5	1.493
1990	2.3	19.9	1.7	24.7	1.197
1991	4.9	14.8	0.8	21.4	0.986
1992	1.8	-8.3	1.6	-5.2	1.039
1993	0.2	-18.1	0.4	-17.6	1.262
1994	-5.1	0.2	0.6	-4.3	1.319
1995	6.3	0.6	1.0	8.0	1.221
1996	5.3	0.4	1.2	7.0	1.141
1997	9.7	0.2	1.6	11.7	1.022
1998	6.5	0.0	1.8	8.4	0.943
1999	5.7	0.0	2.1	7.9	0.873
2000	3.9	0.0	3.1	7.1	0.815
2001	-0.3	0.0	0.2	-0.1	0.816
2002	-0.7	0.0	0.4	-0.3	0.836 (e)
2003	7.3	0.0	1.2	8.6	0.833 (e)
2004	-6.0	-13.7	2.1	-17.2	1.141 (e)
2005	-31.6	-15.3	1.6	-41.2	1.546
2006	5.6	-5.7	2.2	1.8	1.519
2007	1.6	0.0	2.1	3.7	1.465
2008	4.8	0.6	1.0	6.5	1.375
2009	0.4	1.4	0.2	2.0	1.348
2010	0.4	0.0	1.5	1.9	1.323
2011	0.0	0.0	1.4	1.4	1.305
2012	-0.8	0.0	2.1	1.3	1.289
2013	1.4	0.2	0.6	2.3	1.260
2014	5.8	1.5	1.7	9.2	1.154
2015	-0.8	0.0	2.3	1.4	1.138
2016	0.3	0.0	1.0	1.3	1.123
2017	0.5	0.0	2.2	2.7	1.094
2018	0.4	0.0	2.5	3.0	1.063
2019	0.4	0.0	2.3	2.7	1.035
2020	0.5	0.0	1.1	1.6	
4/1/2021	0.3 (Annual 0.4)	0.0	1.6 (Annual 2.1)	1.9	

- (a) Based on WCIRB evaluations of the average impact of legislative changes on the cost of indemnity benefits. These annual changes in benefits reflect the WCIRB's retrospective estimates of the cost impact of recent legislation as reflected in emerging post-reform costs. The annual cost impacts have been segregated between claim severity and claim frequency impacts.
- (b) These impacts are based on the weekly wages (See Exhibit 5.1) of injured workers and the legislatively scheduled benefits for that year. Values for 2017 and prior have been updated to reflect a recent WCIRB reassessment of the impact of wage inflation on indemnity benefit levels.
- (c)  $\{ [\text{Column (1)} / 100 + 1.0] \times [\text{Column (2)} / 100 + 1.0] \times [\text{Column (3)} / 100 + 1.0] - 1.0 \} \times 100$ .
- (d) These factors represent the combined impact of the annual benefit changes on claim severity shown in Column (1), claim frequencies shown in Column (2) and wage inflation impact on benefits shown in Column (3), adjusted to the 2020 level.
- (e) On-level factors for accident years 2002, 2003 and 2004 adjust the portion of permanent disability claims that are estimated to not be subject to the January 1, 2005 PDRS (95% for accident year 2002, 75% for accident year 2003 and 40% for accident year 2004) to the January 1, 2005 PDRS level, and adjust for the corresponding utilization impacts on all 2002, 2003 and 2004 indemnity claims.

**Annual Medical Cost Level Change - Non-Legislative**

Accident Year	(1) Proportion of Medical Subject to Fee Schedule (a)	(2) Proportion of Medical Not Subject to Fee Schedule (a)	(3) Impact of Fee Schedule Change on Total Medical (b)	(4) Change in Medical CPI (c)	(5) Impact of CPI Change on Total Medical (d)	(6) Annual Non-Legislative Cost Impact on Total Medical (e)
1987	0.610	0.390	0.9%	7.4%	2.9%	3.8%
1988	0.649	0.351	0.8%	7.7%	3.0%	3.8%
1989	0.647	0.353	0.0%	8.6%	3.0%	3.0%
1990	0.661	0.339	0.0%	10.4%	3.7%	3.7%
1991	0.631	0.369	0.0%	10.6%	3.6%	3.6%
1992	0.628	0.372	0.0%	8.1%	3.0%	3.0%
1993	0.565	0.435	0.0%	7.3%	2.7%	2.7%
1994	0.691	0.309	-3.6%	4.3%	1.3% (i)	-2.3%
1995	0.681	0.319	0.0%	3.0%	0.9%	0.9%
1996	0.663	0.337	0.0%	3.0%	1.0%	1.0%
1997	0.643	0.357	0.0%	2.2%	0.7%	0.7%
1998	0.658	0.342	0.0%	2.2%	0.8%	0.8%
1999	0.728	0.272	1.6%	3.3%	0.9% (ii)	2.5%
2000	0.715	0.285	0.5%	4.3%	1.2%	1.7%
2001	0.722	0.278	1.5%	4.8%	1.4%	2.9%
2002	0.635	0.365	0.6%	5.1%	1.4%	2.0%
2003	0.786	0.214	0.0%	4.8%	1.4% (iii)	1.4%
2004	0.952	0.048	0.0%	5.0%	0.0% (iv),(v)	0.0%
2005	0.936	0.064	0.0%	4.8%	0.0% (v)	0.0%
2006	0.926	0.074	0.0%	4.1%	0.3%	0.3%
2007	0.923	0.077	1.4%	5.3%	0.4%	1.8%
2008	0.896	0.104	-0.1%	4.2%	0.3%	0.2%
2009	0.894	0.106	0.0%	3.6%	0.4%	0.4%
2010	0.895	0.105	0.0%	2.8%	0.3%	0.3%
2011	0.969	0.031	0.0%	3.2%	0.3%	0.3%
2012	0.969	0.031	0.0%	2.7%	0.1%	0.1%
2013	0.938	0.062	0.0%	2.6%	0.1%	0.1%
2014	0.928	0.072	0.0%	4.2%	0.3%	0.3%
2015	0.933	0.067	0.0%	3.1%	0.2%	0.2%
2016	0.919	0.081	0.0%	5.4%	0.4%	0.4%
2017	0.906	0.094	0.0%	2.2%	0.2%	0.2%
2018	0.905	0.095	0.0%	2.4%	0.2%	0.2%
2019	0.905	0.095	0.0%	3.8%	0.4%	0.4%
2020	0.905	0.095	0.0%	3.5%	0.3%	0.3%
4/1/2021	0.905	0.095	0.0% (Annual 0.0%)	2.3% (Annual 3.1%)	0.2%	0.2%

(a) From a Special Carrier Study through 1990. Based on WCIRB's Aggregate Indemnity and Medical Costs Calls for years 1991 through 2012. Based on WCIRB medical transaction data from 2013 onwards. Accident years 2011 and subsequent do not include MCCP costs.

(b) Based on the WCIRB's evaluation of the cost impact of changes in the medical fee schedules.

(c) Based on a component of the Consumer Price Index. Projections furnished by the California Department of Finance.

(d) Adjusted CPI on workers' compensation medical costs that are not subject to fee schedules. The current year impact is the weighted average of 0% and Column (4), with Columns (1) and (2) from prior years as weights. (i) 1993's non-fee proportion is reduced by 13.8% due to the new medical-legal fee schedule enacted in 1994. (ii) 1998's non-fee proportion is reduced by 7.7% due to the Inpatient Hospital Fee Schedule (IHFS) effective 4/1/1999. (iii) 2002's non-fee proportion is reduced by 7.6% due to the new pharmaceutical fee schedule effective 1/1/2003. (iv) 2003's non-fee proportion is reduced by 17.2% due to the outpatient fee schedule effective 1/1/2004. (v) Given the anticipated impact of legislative reform, a 0% inflation rate has been assumed for 2004 and 2005.

(e) Column (6) = Column (3) + Column (5).

**Annual Medical Cost Level Change - Legislative**

Accident Year	(1) Annual Legislative Cost Impact on Medical Severity (a)	(2) Annual Legislative Cost Impact on Medical Due to Frequency Changes (b)	(3) Annual Total Legislative Cost Impact on Medical (c)
1987	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%
1989	0.0%	0.0%	0.0%
1990	-0.7%	19.9%	19.1%
1991	-1.6%	14.7%	12.9%
1992	0.5%	-8.4%	-7.9%
1993	-0.7%	-18.1%	-18.7%
1994	-2.6%	0.3%	-2.3%
1995	0.0%	0.5%	0.5%
1996	0.0%	0.4%	0.4%
1997	0.0%	0.2%	0.2%
1998	12.6%	0.0%	12.6%
1999	12.6%	0.0%	12.6%
2000	7.0%	0.0%	7.0%
2001	6.6%	0.0%	6.6%
2002	-5.6%	0.0%	-5.6%
2003	-6.0%	0.0%	-6.0%
2004	-24.4%	-12.5%	-33.9%
2005	0.0%	-13.9%	-13.9%
2006	0.1%	-5.2%	-5.1%
2007	0.1%	0.0%	0.1%
2008	0.2%	0.3%	0.5%
2009	0.0%	1.0%	1.0%
2010	0.0%	0.0%	0.0%
2011	-2.0%	0.0%	-2.0%
2012	-4.4%	0.0%	-4.4%
2013	-8.2%	0.2%	-8.0%
2014	-5.9%	1.3%	-4.7%
2015	-2.0%	0.0%	-2.0%
2016	-0.5%	0.0%	-0.5%
2017	-0.4%	0.0%	-0.4%
2018	-0.3%	0.0%	-0.3%
2019	0.0%	0.0%	0.0%
2020	0.0%	0.0%	0.0%
4/1/2021	0.0%	0.0%	0.0%

- (a) Reflects the WCIRB's most recent estimates of the cost impact of legislation. Does not include the impact of the SB 1160 lien provisions on future medical costs as well as the estimated reductions to pharmaceutical costs attributable to SB 863, which are reflected in the medical loss development projections.
- (b) This reflects the annual percentage impact on medical costs due to changes in the frequency of indemnity claims as a result of benefit changes.
- (c)  $[\text{Column (1)} + 1.0] \times [\text{Column (2)} + 1.0] - 1.0$

**Total Medical Cost Level Factors**

Accident Year	(1) Annual Non-Legislative Cost Impact on Medical (a)	(2) Annual Legislative Cost Impact on Medical (b)	(3) Total Annual Cost Impact on Medical (c)	(4) Composite Medical On-level Factor (d)
1987	3.8%	0.0%	3.8%	0.803
1988	3.8%	0.0%	3.8%	0.774
1989	3.0%	0.0%	3.0%	0.751
1990	3.7%	19.1%	23.5%	0.608
1991	3.6%	12.9%	16.9%	0.520
1992	3.0%	-7.9%	-5.2%	0.549
1993	2.7%	-18.7%	-16.5%	0.657
1994	-2.3%	-2.3%	-4.6%	0.688
1995	0.9%	0.5%	1.4%	0.679
1996	1.0%	0.4%	1.4%	0.669
1997	0.7%	0.2%	0.9%	0.663
1998	0.8%	12.6%	13.5%	0.585
1999	2.5%	12.6%	15.4%	0.506
2000	1.7%	7.0%	8.8%	0.465
2001	2.9%	6.6%	9.7%	0.424
2002	2.0%	-5.6%	-3.7%	0.441
2003	1.4%	-6.0%	-4.7%	0.462
2004	0.0%	-33.9%	-33.9%	0.699
2005	0.0%	-13.9%	-13.9%	0.812
2006	0.3%	-5.1%	-4.8%	0.853
2007	1.8%	0.1%	1.9%	0.837
2008	0.2%	0.5%	0.7%	0.831
2009	0.4%	1.0%	1.4%	0.820
2010	0.3%	0.0%	0.3%	0.817
2011	0.3%	-2.0%	-1.7%	0.831
2012	0.1%	-4.4%	-4.3%	0.869
2013	0.1%	-8.0%	-7.9%	0.944
2014	0.3%	-4.7%	-4.4%	0.987
2015	0.2%	-2.0%	-1.8%	1.005
2016	0.4%	-0.5%	-0.1%	1.006
2017	0.2%	-0.4%	-0.2%	1.008
2018	0.2%	-0.3%	-0.1%	1.009
2019	0.4%	0.0%	0.4%	1.005
2020	0.3%	0.0%	0.3%	
4/1/2021	0.2%	0.0%	0.2%	

- (a) See Exhibit 4.2, Column (6).
- (b) See Exhibit 4.3, Column (3).
- (c) Column (3) = [1.0 + Column (1) ] x [1.0 + Column (2)] - 1.0.
- (d) These factors adjust the annual impact shown in Column (3) to the 4/1/2021 level.

### Annual Wage Level Changes

<u>Year</u>	<u>Annual Wage Level Change (a)</u>	<u>Factor to a 4/1/2021 Wage Level</u>
1987	5.6	3.157
1988	4.4	3.024
1989	4.3	2.899
1990	5.0	2.761
1991	2.3	2.699
1992	4.7	2.578
1993	1.2	2.547
1994	1.8	2.502
1995	2.9	2.432
1996	3.4	2.352
1997	4.7	2.246
1998	5.2	2.135
1999	6.2	2.011
2000	9.0	1.845
2001	0.6	1.834
2002	1.1	1.814
2003	3.6	1.751
2004	5.0	1.667
2005	3.2	1.616
2006	4.6	1.545
2007	4.5	1.478
2008	2.1	1.448
2009	0.5	1.440
2010	3.0	1.398
2011	3.0	1.358
2012	4.2	1.303
2013	0.7	1.294
2014	3.3	1.253
2015	4.4	1.200
2016	1.8	1.179
2017	4.2	1.131
2018	4.1	1.087
2019	3.9	1.046
Projected:		
2020	1.9	
4/1/2021	2.6	(Annual = 3.5)

(a) Historical wage changes through 2018 are based on Bureau of Labor Statistics data. Forecasts for 2019 and forward are based on the average of wage level projections made by the UCLA Anderson School of Business as of March 2020 and those made by the California Department of Finance as of November 2019. The forecast for 2020 is based solely on the UCLA projections.

Premium Adjustment Factors

	(1)	(2a)	(2b)	(2c)	(3)	(4)	(5)	(6)	(7)
		Ratio of Industry Average Charged Rates to Advisory Pure Premium	Factor to Industry Average Filed Pure Premium Rate Level as of July 1, 2019 (c)	Factor to Adjust Insurer Premium to an Industry Average Filed Pure Premium Rate Level as of July 1, 2019 (d)	Adjustment to Remove Surcharge Premium (e)	Average Experience Modification (f)	Off-Balance Correction in Advisory January 1, 2019 Pure Premium Rates	Factor to Adjust for Impact of Premium Resulting from Audits (g)	Composite Premium Adjustment Factor (h)
Calendar Year	Factor to a 4/1/2021 Wage Level (a)	Pure Premium Rates (b)	Rate Level as of July 1, 2019 (c)	Rate Level as of July 1, 2019 (d)	Premium (e)	Modification (f)	Pure Premium Rates	Resulting from Audits (g)	Adjustment Factor (h)
1987	3.157	---	---	0.635	0.992	0.983	1.017	---	1.988
1988	3.024	---	---	0.568	0.993	0.963	1.017	---	1.740
1989	2.899	---	---	0.559	0.993	0.945	1.017	---	1.674
1990	2.761	---	---	0.545	0.991	0.942	1.017	---	1.556
1991	2.699	---	---	0.504	0.987	0.939	1.017	---	1.407
1992	2.578	---	---	0.484	0.982	0.940	1.017	---	1.282
1993	2.547	---	---	0.478	0.981	0.949	1.017	---	1.237
1994	2.502	---	---	0.547	0.986	0.948	1.017	---	1.401
1995	2.432	---	---	0.741	0.995	0.958	1.017	---	1.840
1996	2.352	1.023	0.787	0.769	1.000	0.935	1.017	---	1.903
1997	2.246	0.989	0.785	0.794	1.000	0.949	1.017	---	1.848
1998	2.135	0.965	0.818	0.848	1.000	0.959	1.017	---	1.856
1999	2.011	0.972	0.827	0.851	1.000	0.954	1.017	---	1.763
2000	1.845	1.005	0.750	0.746	1.000	0.970	1.017	---	1.395
2001	1.834	1.030	0.660	0.641	1.000	0.969	1.017	---	1.193
2002	1.814	1.157	0.591	0.511	1.000	0.991	1.017	---	0.919
2003	1.751	1.266	0.484	0.382	1.000	1.005	1.017	---	0.654
2004	1.667	1.397	0.492	0.352	1.000	0.981	1.017	---	0.588
2005	1.616	1.470	0.592	0.403	1.000	0.982	1.017	---	0.651
2006	1.545	1.447	0.763	0.527	1.000	0.956	1.017	---	0.838
2007	1.478	1.492	1.039	0.696	1.000	0.931	1.017	0.985	1.071
2008	1.448	1.426	1.237	0.867	1.000	0.946	1.017	0.991	1.293
2009	1.440	1.366	1.219	0.892	1.000	0.937	1.017	1.034	1.395
2010	1.398	1.384	1.195	0.863	1.000	0.941	1.017	1.005	1.268
2011	1.358	1.401	1.194	0.852	1.000	0.982	1.017	---	1.158
2012	1.303	1.223	0.984	0.805	1.000	1.000	1.017	---	1.031
2013	1.294	1.138	0.792	0.696	1.000	0.983	1.017	---	0.901
2014	1.253	1.126	0.730	0.648	1.000	0.961	1.017	---	0.830
2015	1.200	1.109	0.709	0.640	1.000	0.951	1.017	---	0.794
2016	1.179	1.148	0.772	0.672	1.000	0.949	1.017	---	0.821
2017	1.131	1.156	0.854	0.739	1.000	0.955	1.017	---	0.861
2018	1.087	1.196	0.966	0.808	1.000	0.956	1.017	---	0.903
2019	1.046	1.215	1.122	0.923	1.000	0.948	1.017	---	1.002

- (a) See Exhibit 5.1.
- (b) Based on WCIRB calendar year experience calls. The industry average charged rates reflect most rating plan adjustments but do not reflect the application of deductible credits or retrospective rating plan adjustments.
- (c) Reflects (1) advisory pure premium rate level changes to bring premium to the advisory January 1, 2019 pure premium rate level and (2) an additional adjustment factor, which is the ratio of the average advisory January 1, 2019 pure premium rate (\$1.67) to the industry average filed pure premium rate as of July 1, 2019 (\$1.99).
- (d) (2b) ÷ (2a). This column adjusts premiums at the industry average charged rate level to the industry average filed pure premium rate level as of July 1, 2019.
- (e) Based on unit statistical data.
- (f) Based on average promulgated experience modifications. Calendar years 1996 through 2000 include adjustments for the impacts of AB 1913 and SB 1217 (1998).
- (g) Based on a comparison of premium reported on a calendar year basis to premium reported on an estimated ultimate policy year basis over the course of two accident years. The factor is applied only for calendar years 2007 to 2010, during which reported premiums were impacted by recessionary economic forces.
- (h) (1)x(2c)x(3)x(6) ÷ [(4)x(5)] for calendar years 2007 to 2010. (1)x(2c)x(3) ÷ [(4)x(5)] for all other calendar years.

**2019 Accident Year Indemnity Claim Frequency Model  
As of PY 2017 Preliminary 1st Set & March 2020 UCLA**

AY	Annual % Changes Intra- Class Ind Freq Total	Annual Log Differences						
		Intra-Class Indemnity Frequency per \$M Exposure at PY 2017 Level			AY+1 Indemnity Benefit Level	Cumulative Injury Index	Economic Variables (1st Prin. Comp.)	CalOSHA Dummy Variable
		Total	Cumulative	Non-cum.				
1979	0.5%	0.005	-0.053	0.007	0.000	-0.060	0.134	0.000
1980	-6.5%	-0.068	-0.132	-0.066	0.033	-0.066	-0.080	0.000
1981	-3.5%	-0.036	-0.028	-0.036	0.000	0.008	-0.079	0.000
1982	-1.6%	-0.016	0.153	-0.022	0.352	0.175	-0.294	0.000
1983	6.2%	0.060	0.214	0.054	0.081	0.160	0.029	0.000
1984	9.5%	0.091	0.235	0.084	0.000	0.151	0.222	0.000
1985	2.0%	0.020	0.138	0.014	0.000	0.124	0.081	0.000
1986	-2.4%	-0.024	0.039	-0.028	0.000	0.067	0.078	0.000
1987	1.5%	0.015	0.053	0.013	0.000	0.041	0.151	0.000
1988	0.7%	0.007	0.104	0.000	0.000	0.104	0.088	0.000
1989	2.5%	0.024	0.212	0.009	0.046	0.203	0.045	0.000
1990	9.0%	0.087	0.337	0.061	0.071	0.276	-0.121	0.000
1991	0.3%	0.003	0.166	-0.018	0.023	0.184	-0.293	0.000
1992	-11.1%	-0.118	-0.272	-0.098	0.013	-0.174	-0.186	0.068
1993	-14.9%	-0.162	-0.240	-0.153	-0.057	-0.088	-0.022	0.464
1994	-12.8%	-0.136	-0.462	-0.107	0.061	-0.355	0.106	0.173
1995	-4.6%	-0.048	-0.016	-0.050	0.053	0.034	0.092	0.295
1996	-6.8%	-0.070	-0.136	-0.065	0.096	-0.071	0.075	0.000
1997	-3.3%	-0.033	-0.023	-0.034	0.066	0.011	0.138	0.000
1998	-3.8%	-0.038	-0.040	-0.038	0.058	-0.002	0.079	0.000
1999	1.5%	0.014	0.100	0.008	0.040	0.092	0.128	0.000
2000	4.0%	0.039	0.071	0.037	-0.003	0.034	0.066	0.000
2001	-6.9%	-0.072	-0.018	-0.076	-0.007	0.059	-0.101	0.000
2002	-2.3%	-0.023	0.007	-0.026	0.060	0.033	-0.202	0.000
2003	-2.9%	-0.029	-0.005	-0.031	-0.065	0.026	-0.023	0.000
2004	-16.6%	-0.182	-0.209	-0.180	-0.398	-0.030	0.093	0.000
2005	-13.6%	-0.146	-0.298	-0.133	0.051	-0.165	0.141	0.000
2006	-5.7%	-0.059	-0.050	-0.059	0.016	0.009	0.095	0.000
2007	-1.6%	-0.017	0.021	-0.019	0.049	0.040	-0.084	0.000
2008	-2.7%	-0.027	0.038	-0.033	0.006	0.071	-0.308	0.000
2009	-0.2%	-0.002	0.168	-0.018	0.066	0.186	-0.427	0.000
2010	8.9%	0.085	0.139	0.079	0.012	0.060	-0.092	0.000
2011	1.2%	0.012	0.032	0.010	0.003	0.022	0.043	0.000
2012	4.7%	0.046	0.127	0.036	0.025	0.091	0.123	0.000
2013	0.4%	0.004	0.126	-0.013	0.071	0.139	0.151	0.000
2014	0.2%	0.002	0.051	-0.006	0.003	0.056	0.178	0.000
2015	-1.2%	-0.012	0.025	-0.018	0.002	0.043	0.194	0.000
2016	-2.4%	-0.025	0.062	-0.039	0.004	0.101	0.124	0.000
2017	-2.3%	-0.023	-0.042	-0.019	0.004	-0.023	0.137	0.000
2018*	-1.4%	-0.014	-0.085	0.000	0.003	-0.085	0.132	0.000
2019	-1.7%	-0.017	-0.017	-0.017	0.004	0.000	0.023	0.000
2020	-2.7%	-0.027	-0.027	-0.027	0.004	0.000	-0.076	0.000
2021	-2.0%	-0.021	-0.021	-0.021	0.004	0.000	-0.013	0.000
2022	-2.0%	-0.020	-0.020	-0.020	0.004	0.000	-0.012	0.000

**Y = Hazardousness-Adjusted Noncumulative Indemnity Claim Frequency**

Constant	-0.020				
Std Err of Y Est	0.039				
R Squared	0.571				
No. of Observations	40				
Degrees of Freedom	35				
X Coefficient(s)		0.178	0.275	0.103	-0.143
Std Err of Coef.		0.072	0.060	0.043	0.075

Notes:

Indemnity Benefit Level variable is leading. The benefit level change for AY 2004 is related to the AY 2003 change in non-cumulative frequency.  
 The Indemnity Benefit Level change for Ogilvie & Almaraz / Guzman in 2009-2010 is not leading.  
 The Indemnity Benefit Level variable excludes indemnity benefit utilization, and changes in the death and permanent total benefits.  
 The Indemnity Benefit Level variable has been revised due to on-leveling reassessments. See Actuarial Committee item AC09-03-03.  
 For 1993 on, cumulative claims include both cumulative trauma and occupational disease claims. See March 19, 2014 Actuarial Committee Agenda Item III.  
 Economic variables are historical through 2019; March 2020 UCLA Anderson Forecasts for 2020 on.  
 Regression is over AY 1979 through AY 2018. AY 2019 through AY 2022 are projections.  
 The constant term, -0.020, consists of measured offsets that recognize annual changes in real benefit levels relative to nominal benefit levels and long-term economic growth. Without these offsets, the indemnity benefit level and economic variables would project frequency to increase without bound.  
 \*AY 2018 is preliminary and change is based on a comparison of 2018 accidents on 2017 policies to 2017 accidents on 2016 policies.

**Projection of Indemnity Severity Trends by Accident Year  
Based on Experience as of December 31, 2019**

Accident Year	(1) Estimated Ultimate Severity	(2) Annual % Change	(3) Indemnity Adjustment Factor (a)	(4) Ultimate On-level Severity (1) x (3)	(5) Annual % Change
1990	9,974	---	1.914	19,092	---
1991	10,921	9.5%	1.810	19,769	3.6%
1992	11,027	1.0%	1.750	19,300	-2.4%
1993	11,997	8.8%	1.740	20,872	8.1%
1994	12,973	8.1%	1.822	23,640	13.3%
1995	14,546	12.1%	1.697	24,689	4.4%
1996	16,320	12.2%	1.593	25,994	5.3%
1997	19,358	18.6%	1.429	27,664	6.4%
1998	21,230	9.7%	1.318	27,983	1.2%
1999	23,279	9.7%	1.221	28,433	1.6%
2000	24,721	6.2%	1.140	28,187	-0.9%
2001	27,210	10.1%	1.141	31,057	10.2%
2002	26,314	-3.3%	1.169	30,763	-0.9%
2003	25,980	-1.3%	1.165	30,278	-1.6%
2004	21,215	-18.3%	1.377	29,208	-3.5%
2005	19,183	-9.6%	1.580	30,318	3.8%
2006	20,917	9.0%	1.464	30,633	1.0%
2007	22,734	8.7%	1.412	32,096	4.8%
2008	24,827	9.2%	1.334	33,113	3.2%
2009	26,081	5.1%	1.326	34,578	4.4%
2010	25,591	-1.9%	1.301	33,293	-3.7%
2011	25,321	-1.1%	1.283	32,487	-2.4%
2012	24,787	-2.1%	1.267	31,408	-3.3%
2013	24,312	-1.9%	1.242	30,187	-3.9%
2014	25,132	3.4%	1.154	29,005	-3.9%
2015	25,367	0.9%	1.138	28,860	-0.5%
2016	24,712	-2.6%	1.123	27,761	-3.8%
2017	24,714	0.0%	1.094	27,039	-2.6%
2018	25,742	4.2%	1.063	27,357	1.2%
2019	26,760	4.0%	1.035	27,696	1.2%

- (6) Estimated Annual Exponential Trend Based on 1990 to 2019: 1.2%
- (7) Estimated Annual Exponential Trend Based on 2005 to 2019: -1.3%
- (8) Estimated Annual Exponential Trend Based on 2015 to 2019: -1.0%

Selected Indemnity Severity Trend: 0.0%

(a) These adjustment factors are based on Exhibit 4.1, excluding the impact of frequency.

Source: WCIRB experience calls.

**Projection of Medical Severity Trends by Accident Year  
Based on Experience as of December 31, 2019**

Accident Year	(1) Estimated Ultimate Severity (a)	(2) Annual % Change	(3) Medical Adjustment Factor (b)	(4) Ultimate On-level Severity (1) x (3)	(5) Annual % Change
1990	8,733	---	0.911	7,958	---
1991	9,386	7.5%	0.894	8,390	5.4%
1992	9,479	1.0%	0.864	8,185	-2.4%
1993	10,462	10.4%	0.847	8,859	8.2%
1994	11,583	10.7%	0.890	10,307	16.3%
1995	13,274	14.6%	0.882	11,706	13.6%
1996	14,192	6.9%	0.873	12,392	5.9%
1997	16,889	19.0%	0.867	14,644	18.2%
1998	20,709	22.6%	0.764	15,820	8.0%
1999	23,464	13.3%	0.662	15,531	-1.8%
2000	26,219	11.7%	0.608	15,949	2.7%
2001	31,226	19.1%	0.555	17,316	8.6%
2002	31,496	0.9%	0.576	18,139	4.8%
2003	30,080	-4.5%	0.604	18,175	0.2%
2004	27,802	-7.6%	0.799	22,220	22.3%
2005	28,660	3.1%	0.799	22,905	3.1%
2006	31,238	9.0%	0.796	24,866	8.6%
2007	34,814	11.4%	0.781	27,196	9.4%
2008	37,544	7.8%	0.778	29,212	7.4%
2009	39,678	5.7%	0.775	30,749	5.3%
2010	39,780	0.3%	0.773	30,736	0.0%
2011	36,199 (c)	---	0.794	28,748 (c)	---
2012	34,061	-5.9%	0.839	28,566	-0.6%
2013	31,665	-7.0%	0.923	29,217	2.3%
2014	30,344	-4.2%	0.982	29,792	2.0%
2015	29,551	-2.6%	1.005	29,698	-0.3%
2016	28,341	-4.1%	1.006	28,511	-4.0%
2017	28,236	-0.4%	1.008	28,462	-0.2%
2018	29,523	4.6%	1.009	29,790	4.7%
2019	28,847	-2.3%	1.005	28,992	-2.7%

Selected Medical Severity Trend: 1.5%

(a) Estimated ultimate severities for all accident years are derived by dividing ultimate medical losses on indemnity claims by ultimate indemnity claim counts. The estimated ultimate medical severities were derived from the projected ultimate loss ratios shown in Exhibit 3.2, column (7).

(b) These adjustment factors are based on Exhibit 4.4, excluding the impact of frequency, and including the impact of SB 1160 provisions applicable to outstanding medical losses.

(c) Severities for accident years 2011 and subsequent do not reflect the cost of medical cost containment programs (MCCP). Severities for accident years 2010 and prior do reflect MCCP costs.

Source: WCIRB experience calls.

**Projection of Medical Severity Trends by Accident Year  
Adjusted to Remove the Cost of Medical Cost Containment Programs (MCCP)  
Based on Experience as of December 31, 2019**

(1) Accident Year	MCCP Included				MCCP Removed Based on WCIRB Aggregate Calendar Year Data Calls (b)			
	(2) Estimated Ultimate Severity (a)	(3) Annual % Change	(4) Ultimate On-Level Severity (c)	(5) Annual % Change	(6) Estimated Ultimate Severity (a)	(7) Annual % Change	(8) Ultimate On-Level Severity (c)	(9) Annual % Change
2005	28,660	---	22,905	---	27,227	---	21,760	---
2006	31,238	9.0%	24,866	8.6%	29,364	7.8%	23,374	7.4%
2007	34,814	11.4%	27,196	9.4%	32,586	11.0%	25,455	8.9%
2008	37,544	7.8%	29,212	7.4%	34,353	5.4%	26,729	5.0%
2009	39,678	5.7%	30,749	5.3%	36,464	6.1%	28,259	5.7%
2010	39,780	0.3%	30,736	0.0%	36,521	0.2%	28,218	-0.1%
2011	39,644	-0.3%	31,484	2.4%	36,199	-0.9%	28,748	1.9%
2012	37,239	-6.1%	31,230	-0.8%	34,061	-5.9%	28,566	-0.6%
2013	34,707	-6.8%	32,024	2.5%	31,665	-7.0%	29,217	2.3%
2014	33,236	-4.2%	32,631	1.9%	30,344	-4.2%	29,792	2.0%
2015	32,290	-2.8%	32,451	-0.6%	29,551	-2.6%	29,698	-0.3%
2016	30,910	-4.3%	31,095	-4.2%	28,341	-4.1%	28,511	-4.0%
2017	30,861	-0.2%	31,108	0.0%	28,236	-0.4%	28,462	-0.2%
2018	32,474	5.2%	32,768	5.3%	29,523	4.6%	29,790	4.7%
2019	31,782	-2.1%	31,941	-2.5%	28,847	-2.3%	28,992	-2.7%

Estimated Annual Exponential Trend

Trend Based on 1990 to 2019:	5.5%	N/A
Trend Based on 2005 to 2019:	1.9%	1.6%
Trend Based on 2015 to 2019:	0.2%	0.0%

Selected Medical Severity Trend: 1.5%

- (a) Estimated ultimate severities for all accident years were derived by dividing ultimate medical losses on indemnity claims by ultimate indemnity claim counts.
- (b) Adjustments to accident years 2005 through 2010 based on WCIRB's Annual Calls for Direct California Workers' Compensation Aggregate Indemnity and Medical Costs.
- (c) Ultimate severities are on-leveled based on adjustment factors shown on Exhibit 6.3.

Source: WCIRB experience calls.

**Projected On-Level Accident Year  
Indemnity Loss to Industry Average Filed Pure Premium Ratios  
Based on Experience as of December 31, 2019**

Accident Year	(1) Developed Indemnity Loss Ratio (a)	(2) Composite Indemnity Adjustment Factor (b)	(3) Composite Premium Adjustment Factor (c)	(4) On-Level Indemnity to Industry Average Filed Pure Premium Ratio (1)×(2)÷(3)
1986	0.398	1.567	2.386	0.261
1987	0.348	1.538	1.988	0.269
1988	0.332	1.515	1.740	0.289
1989	0.345	1.493	1.674	0.308
1990	0.400	1.197	1.556	0.307
1991	0.427	0.986	1.407	0.299
1992	0.352	1.039	1.282	0.286
1993	0.289	1.262	1.237	0.295
1994	0.330	1.319	1.401	0.310
1995	0.476	1.221	1.840	0.316
1996	0.534	1.141	1.903	0.320
1997	0.605	1.022	1.848	0.334
1998	0.657	0.943	1.856	0.334
1999	0.692	0.873	1.763	0.343
2000	0.598	0.815	1.395	0.350
2001	0.496	0.816	1.193	0.339
2002	0.369	0.836	0.919	0.336
2003	0.244	0.833	0.654	0.311
2004	0.146	1.141	0.588	0.283
2005	0.125	1.546	0.651	0.297
2006	0.162	1.519	0.838	0.294
2007	0.224	1.465	1.071	0.306
2008	0.284	1.375	1.293	0.302
2009	0.333	1.348	1.395	0.322
2010	0.323	1.323	1.268	0.337
2011	0.302	1.305	1.158	0.341
2012	0.271	1.289	1.031	0.339
2013	0.234	1.260	0.901	0.327
2014	0.222	1.154	0.830	0.309
2015	0.217	1.138	0.794	0.311
2016	0.206	1.123	0.821	0.282
2017	0.210	1.094	0.861	0.267
2018	0.226	1.063	0.903	0.266
2019	0.259	1.035	1.002	0.268
2020				Projections (d) 0.260
4/1/2021				0.256

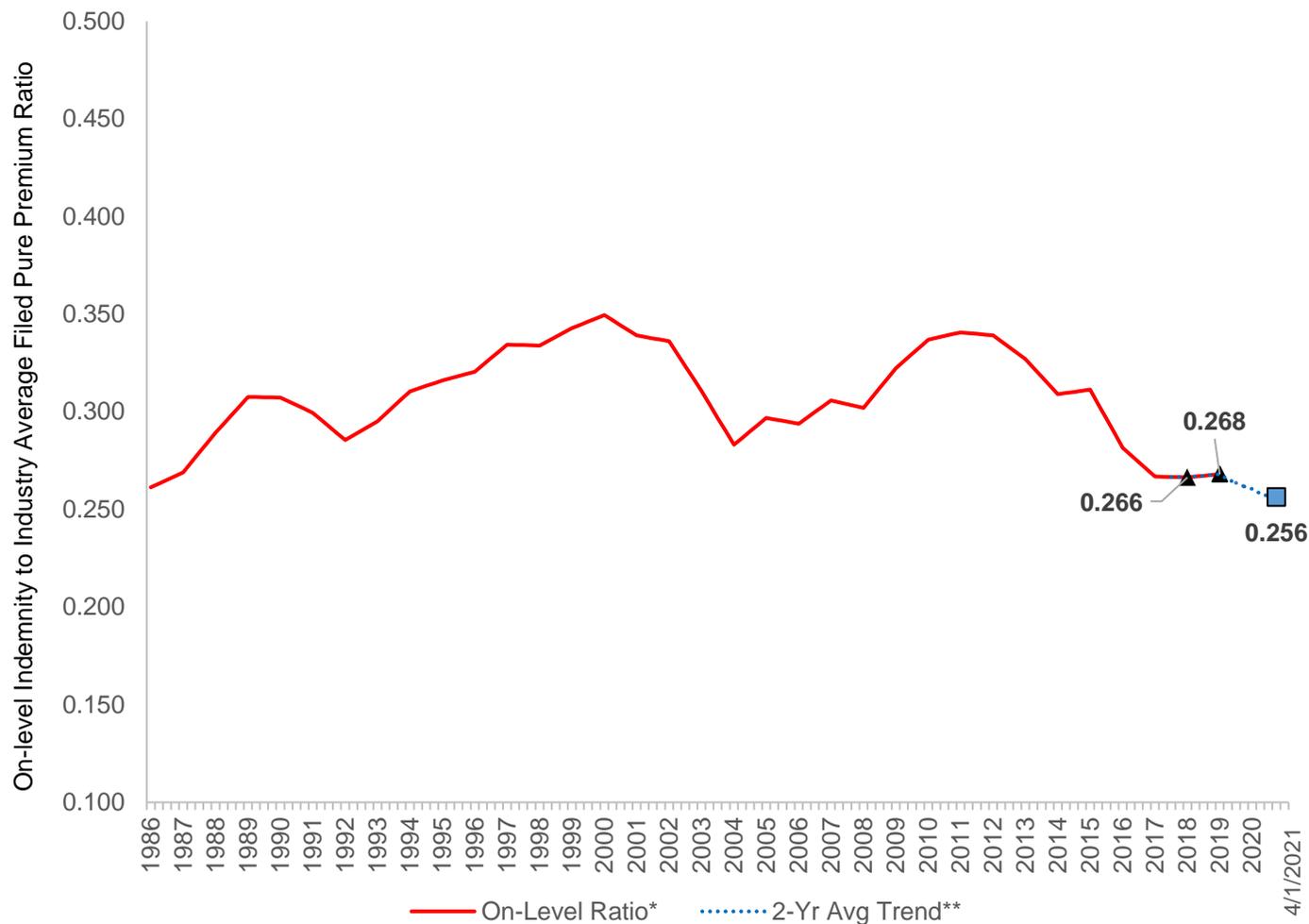
(a) See Exhibit 3.1.

(b) See Exhibit 4.1.

(c) See Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual indemnity severity trend from Exhibit 6.2, the actual frequency trend for accident year 2019 from Exhibit 12, and projected frequency trends for accident years 2020 and 2021 from Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.

**On-Level Indemnity Loss to Industry Average Filed Pure Premium Ratios  
Based on Experience as of December 31, 2019**



\* On-level indemnity to industry average filed pure premium ratios (see Exhibit 7.1)

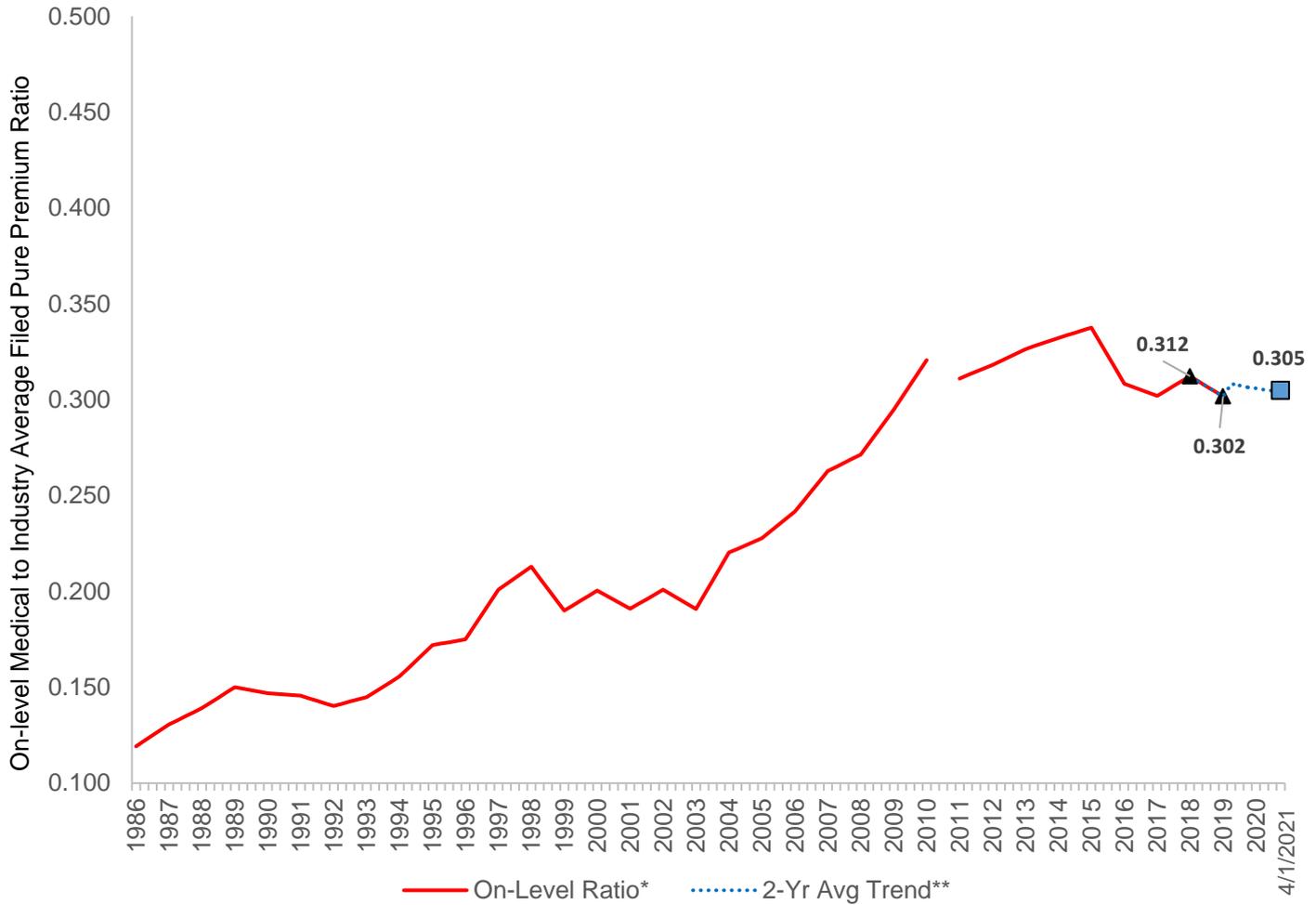
\*\* The 4/1/2021 indemnity to industry average filed pure premium ratio was calculated based on separate frequency and severity trends applied to the 2018 and 2019 years.

**Projected On-Level Accident Year  
Medical Loss to Industry Average Filed Pure Premium Ratios  
Based on Experience as of December 31, 2019**

Accident Year	(1) Developed Medical Loss Ratio (a)	(2) Composite Medical On-Level Factor (b)	(3) Composite Premium Adjustment Factor (c)	(4) On-Level Medical to Industry Average Filed Pure Premium Ratio (e) $(1) \times (2) \div (3)$
1986	0.341	0.834	2.386	0.119
1987	0.323	0.803	1.988	0.131
1988	0.313	0.774	1.740	0.139
1989	0.334	0.751	1.674	0.150
1990	0.376	0.608	1.556	0.147
1991	0.394	0.520	1.407	0.146
1992	0.328	0.549	1.282	0.140
1993	0.273	0.657	1.237	0.145
1994	0.317	0.688	1.401	0.156
1995	0.466	0.679	1.840	0.172
1996	0.498	0.669	1.903	0.175
1997	0.560	0.663	1.848	0.201
1998	0.676	0.585	1.856	0.213
1999	0.661	0.506	1.763	0.190
2000	0.601	0.465	1.395	0.200
2001	0.537	0.424	1.193	0.191
2002	0.419	0.441	0.919	0.201
2003	0.270	0.462	0.654	0.191
2004	0.185	0.699	0.588	0.220
2005	0.183	0.812	0.651	0.228
2006	0.237	0.853	0.838	0.242
2007	0.336	0.837	1.071	0.263
2008	0.422	0.831	1.293	0.271
2009	0.502	0.820	1.395	0.295
2010	0.498	0.817	1.268	0.321
2011	0.433	0.831	1.158	0.311
2012	0.378	0.869	1.031	0.318
2013	0.312	0.944	0.901	0.326
2014	0.280	0.987	0.830	0.332
2015	0.267	1.005	0.794	0.338
2016	0.252	1.006	0.821	0.308
2017	0.258	1.008	0.861	0.302
2018	0.279	1.009	0.903	0.312
2019	0.301	1.005	1.002	0.302
2020				Projections (d) 0.306
4/1/2021				0.305

- (a) See Exhibit 3.2. Medical loss ratios for accident years 2011 and subsequent do not reflect the cost of medical cost containment programs (MCCP). Ratios for accident years 2010 and prior do reflect MCCP costs.
- (b) See Exhibit 4.4.
- (c) See Exhibit 5.2.
- (d) These on-level ratios were projected based on an estimated annual medical severity trend from Exhibit 6.4, the actual frequency trend for accident year 2019 from Exhibit 12, and projected frequency trends for accident years 2020 and 2021 from Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.
- (e) Accident years 2011 and subsequent do not reflect the paid MCCP costs. Accident years 2010 and prior do reflect paid MCCP costs.

**On-Level Medical Loss to Industry Average Filed Pure Premium Ratios  
 Based on Experience as of December 31, 2019**



\* On-level medical to industry average filed pure premium ratios (see Exhibit 7.3)

\*\* The 4/1/2021 medical to industry average filed pure premium ratio was calculated based on separate frequency and severity trends applied to the 2018 and 2019 years.

**Indicated Loss to Industry Average Filed Pure Premium Ratios  
For Policies with Effective Dates between July 1, 2020 and December 31, 2020  
Based on Experience as of December 31, 2019**

	<u>Indemnity</u>	<u>Medical</u>	<u>Total</u>
1. Projected Loss to Industry Average Filed Pure Premium Ratio (See Exhibits 7.1 and 7.3)	0.256	0.305	0.561

Quarterly Incurred Indemnity Loss Development Factors  
Through December 31, 2019

Age in Months	Accident Year																					
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
6/3	2.542	2.715	2.755	2.740	2.841	2.834	2.736	2.463	2.417	2.724	2.785	3.031	3.116	3.052	3.238	3.344	3.303	3.209	3.201	3.356	3.200	3.227
9/6	1.750	1.808	1.780	1.784	1.790	1.808	1.776	1.618	1.656	1.776	1.820	1.848	1.904	2.001	1.966	1.940	1.960	1.948	1.945	1.874	1.998	2.016
<b>12/9</b>	<b>1.437</b>	<b>1.530</b>	<b>1.518</b>	<b>1.500</b>	<b>1.520</b>	<b>1.473</b>	<b>1.460</b>	<b>1.355</b>	<b>1.448</b>	<b>1.511</b>	<b>1.510</b>	<b>1.530</b>	<b>1.564</b>	<b>1.632</b>	<b>1.587</b>	<b>1.585</b>	<b>1.570</b>	<b>1.578</b>	<b>1.578</b>	<b>1.580</b>	<b>1.578</b>	<b>1.599</b>
15/12	1.229	1.260	1.268	1.250	1.257	1.238	1.180	1.149	1.189	1.234	1.248	1.293	1.306	1.306	1.303	1.301	1.301	1.313	1.309	1.298	1.298	
18/15	1.172	1.202	1.188	1.184	1.206	1.167	1.101	1.103	1.140	1.158	1.182	1.194	1.197	1.195	1.206	1.178	1.190	1.187	1.189	1.177	1.183	
21/18	1.145	1.140	1.150	1.148	1.153	1.127	1.066	1.096	1.117	1.128	1.139	1.153	1.140	1.146	1.141	1.141	1.132	1.137	1.134	1.138	1.122	
<b>24/21</b>	<b>1.126</b>	<b>1.112</b>	<b>1.121</b>	<b>1.111</b>	<b>1.117</b>	<b>1.094</b>	<b>1.045</b>	<b>1.082</b>	<b>1.098</b>	<b>1.106</b>	<b>1.106</b>	<b>1.114</b>	<b>1.119</b>	<b>1.117</b>	<b>1.111</b>	<b>1.104</b>	<b>1.114</b>	<b>1.111</b>	<b>1.104</b>	<b>1.100</b>	<b>1.106</b>	
27/24	1.074	1.096	1.093	1.100	1.094	1.073	1.045	1.070	1.082	1.081	1.088	1.089	1.091	1.085	1.087	1.081	1.082	1.087	1.079	1.078		
30/27	1.078	1.069	1.074	1.082	1.064	1.051	1.040	1.054	1.057	1.072	1.075	1.075	1.080	1.071	1.068	1.067	1.074	1.066	1.064	1.059		
33/30	1.045	1.058	1.048	1.062	1.047	1.032	1.036	1.042	1.049	1.053	1.059	1.052	1.064	1.053	1.060	1.047	1.055	1.050	1.047	1.047		
<b>36/33</b>	<b>1.043</b>	<b>1.046</b>	<b>1.039</b>	<b>1.046</b>	<b>1.035</b>	<b>1.020</b>	<b>1.029</b>	<b>1.033</b>	<b>1.039</b>	<b>1.043</b>	<b>1.051</b>	<b>1.049</b>	<b>1.049</b>	<b>1.043</b>	<b>1.041</b>	<b>1.043</b>	<b>1.042</b>	<b>1.035</b>	<b>1.037</b>	<b>1.039</b>		
39/36	1.038	1.041	1.035	1.038	1.028	1.017	1.027	1.029	1.031	1.033	1.040	1.039	1.039	1.041	1.035	1.031	1.036	1.031	1.028			
42/39	1.027	1.028	1.034	1.030	1.023	1.018	1.020	1.020	1.031	1.033	1.036	1.038	1.035	1.032	1.028	1.031	1.030	1.027	1.026			
45/42	1.024	1.026	1.026	1.020	1.009	1.019	1.018	1.024	1.026	1.028	1.030	1.035	1.027	1.033	1.022	1.024	1.024	1.024	1.021			
<b>48/45</b>	<b>1.025</b>	<b>1.020</b>	<b>1.022</b>	<b>1.013</b>	<b>1.008</b>	<b>1.013</b>	<b>1.013</b>	<b>1.021</b>	<b>1.019</b>	<b>1.021</b>	<b>1.024</b>	<b>1.024</b>	<b>1.026</b>	<b>1.023</b>	<b>1.024</b>	<b>1.020</b>	<b>1.020</b>	<b>1.016</b>	<b>1.019</b>			
51/48	1.022	1.017	1.018	1.015	1.010	1.016	1.010	1.018	1.021	1.018	1.022	1.023	1.021	1.018	1.017	1.015	1.019	1.015				
54/51	1.019	1.018	1.013	1.009	1.007	1.017	1.009	1.017	1.021	1.020	1.021	1.020	1.020	1.016	1.019	1.015	1.014	1.013				
57/54	1.014	1.017	1.012	1.006	1.008	1.011	1.011	1.018	1.017	1.014	1.018	1.017	1.015	1.014	1.013	1.011	1.014	1.011				
<b>60/57</b>	<b>1.013</b>	<b>1.014</b>	<b>1.007</b>	<b>1.005</b>	<b>1.008</b>	<b>1.009</b>	<b>1.011</b>	<b>1.013</b>	<b>1.019</b>	<b>1.016</b>	<b>1.013</b>	<b>1.015</b>	<b>1.012</b>	<b>1.014</b>	<b>1.012</b>	<b>1.012</b>	<b>1.011</b>	<b>1.008</b>				
63/60	1.012	1.012	1.007	1.007	1.008	1.008	1.010	1.014	1.013	1.015	1.011	1.014	1.014	1.009	1.012	1.009	1.010					
66/63	1.014	1.009	1.005	1.006	1.011	1.008	1.010	1.013	1.016	1.014	1.015	1.013	1.013	1.009	1.010	1.009	1.008					
69/66	1.010	1.007	1.003	1.005	1.008	1.007	1.011	1.012	1.011	1.010	1.009	1.012	1.007	1.010	1.010	1.007	1.006					
<b>72/69</b>	<b>1.009</b>	<b>1.006</b>	<b>1.005</b>	<b>1.005</b>	<b>1.005</b>	<b>1.009</b>	<b>1.009</b>	<b>1.013</b>	<b>1.011</b>	<b>1.009</b>	<b>1.009</b>	<b>1.009</b>	<b>1.010</b>	<b>1.008</b>	<b>1.007</b>	<b>1.006</b>	<b>1.006</b>					
75/72	1.006	1.004	1.004	1.005	1.003	1.005	1.007	1.010	1.011	1.010	1.010	1.008	1.007	1.004	1.006	1.007						
78/75	1.007	1.004	1.003	1.007	1.005	1.006	1.006	1.012	1.009	1.010	1.006	1.006	1.006	1.006	1.005	1.007						
81/78	1.005	1.002	1.003	1.004	1.004	1.005	1.006	1.010	1.009	1.007	1.007	1.006	1.006	1.007	1.005	1.005						
<b>84/81</b>	<b>1.003</b>	<b>1.003</b>	<b>1.005</b>	<b>1.003</b>	<b>1.006</b>	<b>1.006</b>	<b>1.007</b>	<b>1.008</b>	<b>1.005</b>	<b>1.009</b>	<b>1.006</b>	<b>1.004</b>	<b>1.007</b>	<b>1.004</b>	<b>1.007</b>	<b>1.003</b>						
87/84	1.003	1.003	1.002	1.003	1.004	1.002	1.007	1.010	1.007	1.004	1.005	1.006	1.004	1.006	1.004							
90/87	1.001	1.003	1.003	1.003	1.003	1.004	1.008	1.008	1.008	1.008	1.004	1.005	1.005	1.005	1.004							
93/90	1.001	1.002	1.004	1.003	1.002	1.005	1.006	1.008	1.006	1.007	1.006	1.003	1.004	1.005	1.005							
<b>96/93</b>	<b>1.002</b>	<b>1.003</b>	<b>1.001</b>	<b>1.004</b>	<b>1.002</b>	<b>1.006</b>	<b>1.006</b>	<b>1.003</b>	<b>1.002</b>	<b>1.003</b>	<b>1.004</b>	<b>1.004</b>	<b>1.003</b>	<b>1.003</b>	<b>1.003</b>							

Source: WCIRB accident year experience calls

Quarterly Incurred Medical Loss Development Factors \*  
Through December 31, 2019

Age in Months	Accident Year																					
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
6/3	2.561	2.661	2.536	2.624	2.797	2.805	2.671	2.530	2.584	2.662	2.782	2.892	2.992	2.757	2.853	2.843	2.921	2.863	3.019	3.199	2.891	2.830
9/6	1.705	1.733	1.713	1.725	1.768	1.762	1.703	1.670	1.650	1.744	1.717	1.807	1.800	1.827	1.833	1.819	1.840	1.884	1.755	1.741	1.820	1.844
<b>12/9</b>	<b>1.418</b>	<b>1.461</b>	<b>1.463</b>	<b>1.447</b>	<b>1.570</b>	<b>1.425</b>	<b>1.400</b>	<b>1.375</b>	<b>1.453</b>	<b>1.443</b>	<b>1.466</b>	<b>1.454</b>	<b>1.488</b>	<b>1.521</b>	<b>1.484</b>	<b>1.500</b>	<b>1.482</b>	<b>1.451</b>	<b>1.487</b>	<b>1.448</b>	<b>1.459</b>	<b>1.472</b>
15/12	1.144	1.168	1.201	1.207	1.203	1.197	1.132	1.145	1.138	1.182	1.167	1.199	1.206	1.228	1.211	1.207	1.199	1.206	1.215	1.185	1.191	
18/15	1.093	1.116	1.123	1.144	1.151	1.126	1.086	1.087	1.103	1.106	1.126	1.135	1.129	1.141	1.136	1.117	1.114	1.094	1.095	1.087	1.096	
21/18	1.078	1.086	1.101	1.122	1.116	1.093	1.055	1.061	1.073	1.081	1.090	1.097	1.101	1.103	1.085	1.088	1.077	1.082	1.069	1.069	1.063	
<b>24/21</b>	<b>1.074</b>	<b>1.072</b>	<b>1.080</b>	<b>1.083</b>	<b>1.082</b>	<b>1.060</b>	<b>1.040</b>	<b>1.052</b>	<b>1.070</b>	<b>1.074</b>	<b>1.067</b>	<b>1.074</b>	<b>1.080</b>	<b>1.080</b>	<b>1.067</b>	<b>1.064</b>	<b>1.055</b>	<b>1.059</b>	<b>1.057</b>	<b>1.046</b>	<b>1.047</b>	
27/24	1.044	1.061	1.070	1.080	1.075	1.042	1.034	1.048	1.055	1.058	1.053	1.071	1.066	1.072	1.058	1.048	1.046	1.048	1.041	1.036		
30/27	1.044	1.052	1.058	1.070	1.051	1.038	1.039	1.049	1.046	1.054	1.057	1.048	1.063	1.052	1.046	1.037	1.044	1.037	1.032	1.028		
33/30	1.035	1.047	1.051	1.059	1.035	1.018	1.032	1.030	1.041	1.045	1.045	1.051	1.055	1.045	1.046	1.031	1.033	1.033	1.026	1.028		
<b>36/33</b>	<b>1.037</b>	<b>1.042</b>	<b>1.035</b>	<b>1.040</b>	<b>1.029</b>	<b>1.016</b>	<b>1.024</b>	<b>1.034</b>	<b>1.042</b>	<b>1.033</b>	<b>1.042</b>	<b>1.040</b>	<b>1.041</b>	<b>1.037</b>	<b>1.028</b>	<b>1.026</b>	<b>1.027</b>	<b>1.021</b>	<b>1.021</b>	<b>1.021</b>		
39/36	1.029	1.032	1.034	1.037	1.018	1.012	1.028	1.025	1.027	1.029	1.033	1.031	1.040	1.039	1.027	1.021	1.023	1.022	1.011			
42/39	1.025	1.031	1.036	1.026	1.019	1.013	1.017	1.020	1.025	1.035	1.036	1.037	1.037	1.031	1.022	1.026	1.022	1.017	1.010			
45/42	1.025	1.033	1.032	1.023	1.012	1.019	1.033	1.021	1.025	1.029	1.026	1.030	1.028	1.027	1.021	1.018	1.017	1.015	1.011			
<b>48/45</b>	<b>1.028</b>	<b>1.023</b>	<b>1.026</b>	<b>1.017</b>	<b>1.008</b>	<b>1.013</b>	<b>1.025</b>	<b>1.018</b>	<b>1.022</b>	<b>1.025</b>	<b>1.029</b>	<b>1.034</b>	<b>1.022</b>	<b>1.023</b>	<b>1.020</b>	<b>1.018</b>	<b>1.014</b>	<b>1.008</b>	<b>1.014</b>			
51/48	1.019	1.020	1.024	1.014	1.009	1.013	1.018	1.015	1.020	1.021	1.021	1.026	1.024	1.019	1.014	1.013	1.010	1.008				
54/51	1.025	1.027	1.017	1.016	1.010	1.012	1.021	1.019	1.022	1.022	1.027	1.023	1.019	1.018	1.015	1.011	1.009	1.009				
57/54	1.027	1.024	1.014	1.007	1.011	1.017	1.020	1.018	1.019	1.019	1.023	1.020	1.017	1.018	1.013	1.007	1.009	1.007				
<b>60/57</b>	<b>1.021</b>	<b>1.021</b>	<b>1.015</b>	<b>1.009</b>	<b>1.008</b>	<b>1.014</b>	<b>1.020</b>	<b>1.019</b>	<b>1.018</b>	<b>1.017</b>	<b>1.019</b>	<b>1.016</b>	<b>1.015</b>	<b>1.014</b>	<b>1.012</b>	<b>1.007</b>	<b>1.007</b>	<b>1.006</b>				
63/60	1.014	1.020	1.013	1.012	1.008	1.016	1.015	1.021	1.015	1.018	1.016	1.020	1.015	1.009	1.009	1.005	1.008					
66/63	1.023	1.016	1.010	1.012	1.015	1.013	1.015	1.022	1.019	1.018	1.017	1.015	1.010	1.008	1.008	1.006	1.010					
69/66	1.025	1.013	1.006	1.008	1.016	1.018	1.015	1.023	1.017	1.017	1.015	1.014	1.010	1.008	1.008	1.005	1.008					
<b>72/69</b>	<b>1.020</b>	<b>1.009</b>	<b>1.007</b>	<b>1.009</b>	<b>1.015</b>	<b>1.010</b>	<b>1.014</b>	<b>1.015</b>	<b>1.013</b>	<b>1.014</b>	<b>1.012</b>	<b>1.011</b>	<b>1.010</b>	<b>1.007</b>	<b>1.005</b>	<b>1.005</b>	<b>1.003</b>					
75/72	1.015	1.008	1.006	1.008	1.010	1.009	1.012	1.012	1.011	1.018	1.013	1.008	1.006	1.001	1.003	1.006						
78/75	1.012	1.012	1.008	1.012	1.010	1.011	1.018	1.013	1.012	1.012	1.010	1.008	1.008	1.006	1.005	1.003						
81/78	1.006	1.006	1.006	1.009	1.010	1.014	1.018	1.017	1.016	1.009	1.009	1.005	1.006	1.006	1.004	1.004						
<b>84/81</b>	<b>1.008</b>	<b>1.006</b>	<b>1.009</b>	<b>1.014</b>	<b>1.009</b>	<b>1.007</b>	<b>1.012</b>	<b>1.011</b>	<b>1.008</b>	<b>1.010</b>	<b>1.008</b>	<b>1.007</b>	<b>1.005</b>	<b>1.001</b>	<b>1.003</b>	<b>1.002</b>						
87/84	1.005	1.008	1.008	1.010	1.009	1.010	1.012	1.014	1.012	1.008	1.007	1.004	1.003	1.001	1.002							
90/87	1.002	1.005	1.008	1.008	1.009	1.012	1.009	1.009	1.013	1.008	1.006	1.006	1.003	1.006	1.006							
93/90	1.006	1.007	1.015	1.009	1.011	1.010	1.011	1.012	1.009	1.009	1.007	1.002	1.003	1.002	1.005							
<b>96/93</b>	<b>1.007</b>	<b>1.007</b>	<b>1.010</b>	<b>1.012</b>	<b>1.008</b>	<b>1.010</b>	<b>1.011</b>	<b>1.009</b>	<b>1.005</b>	<b>1.006</b>	<b>1.005</b>	<b>1.003</b>	<b>1.002</b>	<b>1.001</b>	<b>1.003</b>							

Source: WCIRB accident year experience calls

\* Incurred medical loss development factors include the paid cost of medical cost containment programs (MCCP) for accident years 2011 and prior.

Quarterly Paid Indemnity Loss Development Factors  
Through December 31, 2019

Age in Months	Accident Year																					
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
6/3	4.325	4.024	4.170	4.461	4.720	4.908	4.745	4.512	4.376	4.495	4.553	4.807	4.911	4.722	4.854	5.099	5.076	5.056	5.087	5.060	4.987	5.081
9/6	2.284	2.367	2.283	2.369	2.443	2.424	2.399	2.303	2.259	2.375	2.377	2.398	2.452	2.432	2.484	2.462	2.462	2.484	2.456	2.445	2.538	2.504
<b>12/9</b>	<b>1.826</b>	<b>1.806</b>	<b>1.839</b>	<b>1.855</b>	<b>1.897</b>	<b>1.876</b>	<b>1.841</b>	<b>1.774</b>	<b>1.812</b>	<b>1.834</b>	<b>1.810</b>	<b>1.825</b>	<b>1.861</b>	<b>1.869</b>	<b>1.877</b>	<b>1.866</b>	<b>1.879</b>	<b>1.910</b>	<b>1.882</b>	<b>1.892</b>	<b>1.891</b>	<b>1.902</b>
15/12	1.499	1.536	1.538	1.552	1.550	1.516	1.491	1.456	1.482	1.488	1.481	1.507	1.532	1.539	1.506	1.539	1.540	1.559	1.571	1.544	1.527	
18/15	1.380	1.399	1.395	1.401	1.403	1.379	1.331	1.306	1.306	1.327	1.332	1.343	1.355	1.361	1.361	1.353	1.364	1.372	1.366	1.358	1.353	
21/18	1.323	1.298	1.303	1.303	1.311	1.297	1.241	1.217	1.233	1.235	1.243	1.259	1.257	1.261	1.261	1.263	1.267	1.264	1.256	1.260	1.248	
<b>24/21</b>	<b>1.259</b>	<b>1.257</b>	<b>1.256</b>	<b>1.258</b>	<b>1.260</b>	<b>1.244</b>	<b>1.183</b>	<b>1.181</b>	<b>1.195</b>	<b>1.191</b>	<b>1.194</b>	<b>1.206</b>	<b>1.209</b>	<b>1.215</b>	<b>1.213</b>	<b>1.204</b>	<b>1.216</b>	<b>1.211</b>	<b>1.206</b>	<b>1.205</b>	<b>1.206</b>	
27/24	1.186	1.199	1.203	1.200	1.205	1.186	1.140	1.142	1.151	1.149	1.153	1.162	1.165	1.168	1.164	1.159	1.170	1.176	1.161	1.159		
30/27	1.157	1.161	1.165	1.175	1.172	1.161	1.122	1.117	1.126	1.129	1.130	1.141	1.141	1.137	1.134	1.141	1.147	1.142	1.137	1.131		
33/30	1.118	1.125	1.130	1.142	1.136	1.123	1.097	1.096	1.100	1.101	1.108	1.114	1.116	1.112	1.111	1.111	1.115	1.107	1.104	1.105		
<b>36/33</b>	<b>1.102</b>	<b>1.103</b>	<b>1.103</b>	<b>1.115</b>	<b>1.111</b>	<b>1.097</b>	<b>1.085</b>	<b>1.081</b>	<b>1.080</b>	<b>1.084</b>	<b>1.092</b>	<b>1.094</b>	<b>1.098</b>	<b>1.091</b>	<b>1.091</b>	<b>1.096</b>	<b>1.092</b>	<b>1.089</b>	<b>1.088</b>	<b>1.083</b>		
39/36	1.074	1.081	1.081	1.092	1.087	1.072	1.070	1.066	1.064	1.067	1.074	1.078	1.077	1.073	1.075	1.074	1.075	1.071	1.068			
42/39	1.067	1.071	1.077	1.080	1.073	1.063	1.059	1.058	1.058	1.062	1.067	1.067	1.071	1.070	1.065	1.064	1.066	1.062	1.059			
45/42	1.057	1.054	1.063	1.064	1.056	1.049	1.047	1.049	1.047	1.051	1.058	1.059	1.057	1.055	1.054	1.052	1.050	1.050	1.045			
<b>48/45</b>	<b>1.049</b>	<b>1.050</b>	<b>1.055</b>	<b>1.053</b>	<b>1.046</b>	<b>1.044</b>	<b>1.041</b>	<b>1.044</b>	<b>1.043</b>	<b>1.047</b>	<b>1.049</b>	<b>1.051</b>	<b>1.050</b>	<b>1.048</b>	<b>1.048</b>	<b>1.048</b>	<b>1.045</b>	<b>1.041</b>	<b>1.040</b>			
51/48	1.039	1.038	1.043	1.044	1.036	1.035	1.033	1.036	1.036	1.037	1.042	1.042	1.043	1.039	1.038	1.038	1.039	1.035				
54/51	1.035	1.038	1.036	1.037	1.034	1.035	1.030	1.028	1.035	1.036	1.038	1.041	1.038	1.036	1.036	1.033	1.032	1.031				
57/54	1.029	1.033	1.037	1.030	1.028	1.026	1.025	1.028	1.030	1.032	1.033	1.033	1.032	1.033	1.028	1.027	1.028	1.025				
<b>60/57</b>	<b>1.025</b>	<b>1.030</b>	<b>1.027</b>	<b>1.026</b>	<b>1.024</b>	<b>1.024</b>	<b>1.024</b>	<b>1.024</b>	<b>1.028</b>	<b>1.029</b>	<b>1.029</b>	<b>1.032</b>	<b>1.027</b>	<b>1.030</b>	<b>1.028</b>	<b>1.025</b>	<b>1.025</b>	<b>1.023</b>				
63/60	1.023	1.026	1.024	1.021	1.022	1.019	1.019	1.021	1.023	1.025	1.025	1.024	1.026	1.025	1.025	1.021	1.021					
66/63	1.023	1.023	1.023	1.021	1.019	1.019	1.019	1.020	1.025	1.025	1.025	1.025	1.023	1.022	1.022	1.018	1.018					
69/66	1.019	1.021	1.020	1.017	1.016	1.017	1.016	1.021	1.020	1.020	1.020	1.022	1.020	1.019	1.022	1.017	1.014					
<b>72/69</b>	<b>1.018</b>	<b>1.016</b>	<b>1.018</b>	<b>1.016</b>	<b>1.016</b>	<b>1.015</b>	<b>1.017</b>	<b>1.015</b>	<b>1.020</b>	<b>1.019</b>	<b>1.019</b>	<b>1.019</b>	<b>1.019</b>	<b>1.019</b>	<b>1.016</b>	<b>1.014</b>	<b>1.016</b>					
75/72	1.015	1.016	1.015	1.014	1.012	1.012	1.013	1.015	1.019	1.018	1.016	1.016	1.017	1.015	1.014	1.012						
78/75	1.014	1.014	1.012	1.013	1.012	1.011	1.012	1.015	1.017	1.016	1.015	1.016	1.016	1.015	1.013	1.011						
81/78	1.013	1.013	1.011	1.012	1.011	1.010	1.012	1.015	1.015	1.016	1.015	1.015	1.013	1.012	1.011	1.010						
<b>84/81</b>	<b>1.011</b>	<b>1.011</b>	<b>1.013</b>	<b>1.010</b>	<b>1.010</b>	<b>1.009</b>	<b>1.011</b>	<b>1.013</b>	<b>1.015</b>	<b>1.014</b>	<b>1.013</b>	<b>1.012</b>	<b>1.013</b>	<b>1.013</b>	<b>1.011</b>	<b>1.010</b>						
87/84	1.012	1.010	1.008	1.010	1.009	1.008	1.009	1.012	1.014	1.013	1.010	1.012	1.010	1.011	1.010							
90/87	1.008	1.009	1.010	1.009	1.008	1.008	1.011	1.012	1.013	1.012	1.011	1.010	1.010	1.010	1.009							
93/90	1.009	1.009	1.008	1.008	1.007	1.008	1.012	1.011	1.011	1.012	1.010	1.010	1.009	1.009	1.008							
<b>96/93</b>	<b>1.008</b>	<b>1.009</b>	<b>1.006</b>	<b>1.007</b>	<b>1.007</b>	<b>1.007</b>	<b>1.008</b>	<b>1.011</b>	<b>1.011</b>	<b>1.008</b>	<b>1.010</b>	<b>1.010</b>	<b>1.009</b>	<b>1.010</b>	<b>1.007</b>							

Source: WCIRB accident year experience calls

Quarterly Paid Medical Loss Development Factors \*  
Through December 31, 2019

Age in Months	Accident Year																					
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
6/3	6.375	5.955	5.518	6.168	7.221	7.127	7.617	5.563	5.308	5.615	6.579	6.101	6.048	5.854	5.989	6.284	5.604	5.720	5.897	5.238	5.462	4.984
9/6	2.369	2.406	2.356	2.432	2.694	2.577	2.483	2.236	2.348	2.381	2.348	2.375	2.361	2.327	2.398	2.498	2.428	2.287	2.326	2.249	2.351	2.286
<b>12/9</b>	<b>1.728</b>	<b>1.739</b>	<b>1.749</b>	<b>1.857</b>	<b>1.882</b>	<b>1.825</b>	<b>1.759</b>	<b>1.666</b>	<b>1.716</b>	<b>1.765</b>	<b>1.731</b>	<b>1.723</b>	<b>1.756</b>	<b>1.746</b>	<b>1.763</b>	<b>1.736</b>	<b>1.750</b>	<b>1.705</b>	<b>1.752</b>	<b>1.737</b>	<b>1.719</b>	<b>1.795</b>
15/12	1.453	1.490	1.514	1.547	1.554	1.510	1.437	1.423	1.429	1.444	1.413	1.429	1.445	1.472	1.446	1.443	1.460	1.454	1.479	1.434	1.425	
18/15	1.241	1.267	1.286	1.310	1.330	1.295	1.243	1.230	1.227	1.259	1.243	1.259	1.268	1.282	1.284	1.263	1.265	1.278	1.262	1.250	1.245	
21/18	1.164	1.168	1.192	1.219	1.211	1.179	1.153	1.151	1.163	1.173	1.170	1.178	1.182	1.187	1.192	1.193	1.192	1.189	1.173	1.170	1.173	
<b>24/21</b>	<b>1.132</b>	<b>1.124</b>	<b>1.149</b>	<b>1.159</b>	<b>1.154</b>	<b>1.125</b>	<b>1.115</b>	<b>1.118</b>	<b>1.127</b>	<b>1.133</b>	<b>1.132</b>	<b>1.137</b>	<b>1.144</b>	<b>1.153</b>	<b>1.154</b>	<b>1.148</b>	<b>1.146</b>	<b>1.146</b>	<b>1.141</b>	<b>1.131</b>	<b>1.143</b>	
27/24	1.096	1.108	1.121	1.128	1.123	1.093	1.090	1.093	1.106	1.107	1.110	1.112	1.119	1.120	1.123	1.122	1.122	1.124	1.111	1.111		
30/27	1.077	1.088	1.101	1.108	1.103	1.077	1.084	1.087	1.097	1.100	1.100	1.106	1.107	1.111	1.109	1.111	1.111	1.105	1.100	1.092		
33/30	1.065	1.072	1.086	1.089	1.077	1.063	1.071	1.065	1.081	1.083	1.086	1.092	1.094	1.093	1.094	1.090	1.089	1.082	1.082	1.077		
<b>36/33</b>	<b>1.055</b>	<b>1.066</b>	<b>1.069</b>	<b>1.076</b>	<b>1.061</b>	<b>1.055</b>	<b>1.062</b>	<b>1.062</b>	<b>1.071</b>	<b>1.072</b>	<b>1.072</b>	<b>1.077</b>	<b>1.083</b>	<b>1.082</b>	<b>1.078</b>	<b>1.080</b>	<b>1.076</b>	<b>1.071</b>	<b>1.067</b>	<b>1.065</b>		
39/36	1.051	1.059	1.060	1.061	1.049	1.044	1.053	1.056	1.057	1.059	1.061	1.066	1.071	1.066	1.069	1.065	1.064	1.061	1.055			
42/39	1.044	1.049	1.055	1.054	1.041	1.044	1.049	1.054	1.055	1.058	1.059	1.061	1.068	1.063	1.062	1.057	1.059	1.057	1.048			
45/42	1.039	1.045	1.047	1.044	1.036	1.037	1.040	1.047	1.048	1.049	1.054	1.053	1.056	1.056	1.053	1.051	1.045	1.044	1.042			
<b>48/45</b>	<b>1.035</b>	<b>1.039</b>	<b>1.044</b>	<b>1.037</b>	<b>1.032</b>	<b>1.035</b>	<b>1.037</b>	<b>1.043</b>	<b>1.043</b>	<b>1.046</b>	<b>1.047</b>	<b>1.050</b>	<b>1.051</b>	<b>1.046</b>	<b>1.045</b>	<b>1.046</b>	<b>1.041</b>	<b>1.040</b>	<b>1.038</b>			
51/48	1.030	1.035	1.037	1.034	1.031	1.030	1.033	1.037	1.036	1.036	1.039	1.041	1.043	1.040	1.039	1.038	1.037	1.032				
54/51	1.031	1.036	1.032	1.027	1.030	1.029	1.034	1.034	1.035	1.035	1.036	1.042	1.038	1.035	1.035	1.034	1.032	1.029				
57/54	1.026	1.030	1.027	1.024	1.024	1.024	1.029	1.031	1.034	1.031	1.033	1.038	1.034	1.034	1.031	1.028	1.026	1.025				
<b>60/57</b>	<b>1.026</b>	<b>1.028</b>	<b>1.026</b>	<b>1.021</b>	<b>1.023</b>	<b>1.026</b>	<b>1.028</b>	<b>1.029</b>	<b>1.028</b>	<b>1.032</b>	<b>1.032</b>	<b>1.035</b>	<b>1.030</b>	<b>1.030</b>	<b>1.030</b>	<b>1.023</b>	<b>1.022</b>	<b>1.021</b>				
63/60	1.023	1.025	1.022	1.019	1.019	1.020	1.024	1.024	1.024	1.024	1.027	1.027	1.026	1.027	1.025	1.022	1.022					
66/63	1.026	1.021	1.020	1.020	1.018	1.021	1.023	1.024	1.026	1.026	1.029	1.029	1.024	1.028	1.023	1.021	1.018					
69/66	1.021	1.022	1.019	1.018	1.016	1.019	1.021	1.023	1.023	1.021	1.024	1.024	1.022	1.020	1.020	1.017	1.016					
<b>72/69</b>	<b>1.022</b>	<b>1.018</b>	<b>1.016</b>	<b>1.017</b>	<b>1.018</b>	<b>1.016</b>	<b>1.021</b>	<b>1.021</b>	<b>1.022</b>	<b>1.022</b>	<b>1.023</b>	<b>1.021</b>	<b>1.020</b>	<b>1.019</b>	<b>1.016</b>	<b>1.015</b>	<b>1.017</b>					
75/72	1.017	1.016	1.014	1.015	1.015	1.014	1.018	1.020	1.019	1.019	1.018	1.018	1.018	1.015	1.015	1.013						
78/75	1.018	1.015	1.014	1.015	1.016	1.015	1.016	1.018	1.017	1.022	1.019	1.018	1.017	1.016	1.015	1.013						
81/78	1.015	1.014	1.013	1.014	1.013	1.014	1.018	1.018	1.015	1.019	1.018	1.015	1.015	1.013	1.012	1.011						
<b>84/81</b>	<b>1.013</b>	<b>1.012</b>	<b>1.013</b>	<b>1.012</b>	<b>1.012</b>	<b>1.013</b>	<b>1.016</b>	<b>1.016</b>	<b>1.015</b>	<b>1.018</b>	<b>1.015</b>	<b>1.015</b>	<b>1.015</b>	<b>1.013</b>	<b>1.013</b>	<b>1.011</b>						
87/84	1.013	1.011	1.010	1.012	1.012	1.012	1.014	1.013	1.015	1.017	1.013	1.013	1.011	1.012	1.010							
90/87	1.013	1.012	1.011	1.013	1.012	1.013	1.015	1.013	1.015	1.013	1.013	1.012	1.011	1.012	1.009							
93/90	1.011	1.010	1.011	1.012	1.011	1.013	1.013	1.012	1.014	1.014	1.013	1.011	1.010	1.009	1.010							
<b>96/93</b>	<b>1.010</b>	<b>1.010</b>	<b>1.008</b>	<b>1.010</b>	<b>1.010</b>	<b>1.009</b>	<b>1.013</b>	<b>1.015</b>	<b>1.016</b>	<b>1.011</b>	<b>1.012</b>	<b>1.010</b>	<b>1.009</b>	<b>1.009</b>	<b>1.009</b>							

Source: WCIRB accident year experience calls

\* Paid medical loss development factors include the paid cost of medical cost containment programs (MCCP) for accident years 2011 and prior.

Reported Indemnity Claim Count Development

Accident Year	Development															
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204
1994																1.000
1995															1.001	1.000
1996														1.000	1.000	1.000
1997													1.000	1.000	1.000	1.000
1998												1.001	1.000	1.000	1.000	1.000
1999											1.001	1.000	1.000	1.000	1.000	1.000
2000										1.000	1.000	1.001	1.000	1.000	1.000	1.000
2001									1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2002								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2003							0.999	0.999	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000
2004						1.000	0.999	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005					1.001	1.001	1.000	1.000	1.000	1.000	0.999	1.000	1.000	1.000		
2006				1.002	1.001	1.000	1.001	1.001	1.000	1.000	1.000	1.000	1.000			
2007			1.006	1.004	1.002	1.000	1.001	1.000	1.000	1.000	1.000	1.000				
2008		1.022	1.011	1.005	1.003	1.001	1.001	1.001	1.000	1.000	1.000					
2009	1.189	1.028	1.011	1.006	1.004	1.001	1.001	1.000	1.000	1.000						
2010	1.215	1.029	1.011	1.006	1.002	1.002	1.001	1.000	1.000							
2011	1.229	1.032	1.013	1.005	1.002	1.001	1.001	1.001								
2012	1.244	1.034	1.010	1.005	1.003	1.001	1.001									
2013	1.248	1.025	1.010	1.005	1.002	1.002										
2014	1.215	1.027	1.010	1.004	1.002											
2015	1.236	1.027	1.006	1.003												
2016	1.244	1.029	1.007													
2017	1.220	1.023														
2018	1.226															
	Latest Year															
<u>Age-to-Age</u>	1.226	1.023	1.007	1.003	1.002	1.002	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
<u>Age-to-Ultimate</u>	1.277	1.042	1.018	1.011	1.008	1.006	1.004	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.002

Source: WCIRB accident year experience calls

Quarterly Reported Indemnity Claim Count Development Factors

Accident Year	Development														
	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	30-33	33-36	36-39	39-42	42-45	45-48
2008	2.539	1.651	1.336	1.093	1.025	1.015	1.010	1.008	1.006	1.004	1.003	1.003	1.002	1.003	1.002
2009	2.681	1.683	1.382	1.109	1.036	1.021	1.012	1.009	1.007	1.007	1.005	1.004	1.003	1.002	1.002
2010	2.688	1.708	1.407	1.124	1.037	1.021	1.015	1.011	1.008	1.005	1.005	1.003	1.004	1.003	1.001
2011	2.691	1.738	1.424	1.123	1.041	1.026	1.018	1.010	1.010	1.006	1.005	1.004	1.004	1.003	1.002
2012	2.749	1.727	1.420	1.123	1.050	1.028	1.018	1.012	1.010	1.007	1.004	1.004	1.003	1.007	1.001
2013	2.821	1.739	1.421	1.138	1.045	1.027	1.016	1.010	1.009	1.013	1.003	1.003	1.003	1.001	1.002
2014	2.778	1.723	1.421	1.130	1.045	1.037	1.015	1.010	1.008	1.004	1.003	1.003	1.003	1.002	1.002
2015	2.817	1.781	1.414	1.135	1.045	1.023	1.014	1.014	1.008	1.005	1.003	1.003	1.002	1.002	1.002
2016	2.733	1.717	1.410	1.144	1.045	1.027	1.017	1.012	1.010	1.005	1.004	1.003	1.002	1.002	1.002
2017	2.848	1.689	1.417	1.129	1.041	1.025	1.013	1.009	1.008	1.005	1.004				
2018	2.825	1.731	1.414	1.139	1.045	1.023	1.017								
2019	2.780	1.751	1.426												

Source: WCIRB accident year experience calls

Reported Indemnity Claim Settlement Ratios

Accident Year	Evaluated as of (in months):																	
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	
1994																		98.9%
1995																	98.5%	98.7%
1996															98.2%	98.4%	98.6%	
1997														97.7%	98.0%	98.2%	98.4%	
1998													97.1%	97.5%	97.8%	98.0%	98.2%	
1999												96.6%	97.0%	97.3%	97.7%	97.9%	98.1%	
2000											95.5%	96.2%	96.7%	97.2%	97.5%	97.8%	98.0%	
2001										93.6%	94.5%	95.3%	96.0%	96.5%	97.0%	97.4%	97.7%	
2002									92.4%	93.7%	94.7%	95.8%	96.4%	96.9%	97.4%	97.7%	98.1%	
2003								90.6%	92.4%	93.7%	95.2%	95.9%	96.4%	97.0%	97.5%	97.9%	98.3%	
2004							88.2%	90.6%	92.4%	94.3%	95.3%	96.0%	96.8%	97.3%	97.8%	98.2%		
2005						85.4%	88.4%	90.7%	93.0%	94.4%	95.4%	96.4%	97.0%	97.6%	98.1%			
2006					81.0%	85.2%	88.2%	91.2%	93.0%	94.3%	95.5%	96.4%	97.1%	97.7%				
2007				73.5%	80.2%	84.6%	88.8%	91.3%	93.2%	94.8%	96.0%	96.8%	97.5%					
2008			61.8%	72.0%	79.1%	85.0%	88.8%	91.5%	93.7%	95.1%	96.2%	97.0%						
2009		46.2%	59.9%	70.6%	79.0%	84.5%	88.5%	91.8%	93.8%	95.3%	96.4%							
2010	26.9%	46.7%	60.6%	72.4%	80.5%	85.9%	90.1%	92.9%	94.8%	96.1%								
2011	27.5%	47.1%	62.1%	73.6%	81.6%	87.1%	91.0%	93.7%	95.4%									
2012	27.5%	47.8%	63.2%	74.9%	82.9%	88.4%	92.0%	94.4%										
2013	26.9%	48.1%	64.4%	76.6%	84.7%	89.8%	93.2%											
2014	26.4%	49.2%	65.9%	78.2%	86.2%	90.8%												
2015	26.8%	50.6%	68.3%	80.6%	87.8%													
2016	28.2%	53.4%	71.0%	82.5%														
2017	30.4%	56.2%	73.2%															
2018	31.2%	56.4%																
2019	31.4%																	

Source: WCIRB accident year experience calls

Estimated Ultimate Indemnity Claim Settlement Ratios

Accident Year	Evaluated as of (in months):																	
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	
1994																		98.6%
1995																	98.3%	98.4%
1996															97.9%	98.2%	98.4%	
1997														97.4%	97.7%	97.9%	98.2%	
1998													96.8%	97.2%	97.5%	97.8%	98.0%	
1999											95.2%	95.9%	96.4%	97.0%	97.4%	97.6%	97.9%	
2000										93.3%	94.3%	95.0%	95.8%	96.3%	96.8%	97.2%	97.5%	
2001									92.3%	93.6%	94.6%	95.6%	96.2%	96.7%	97.2%	97.6%	97.9%	
2002								90.6%	92.4%	93.6%	95.0%	95.7%	96.2%	96.9%	97.3%	97.7%	98.1%	
2003							88.3%	90.6%	92.3%	94.2%	95.2%	95.9%	96.6%	97.1%	97.6%	98.0%		
2004						85.3%	88.4%	90.7%	93.0%	94.4%	95.4%	96.2%	96.9%	97.4%	97.9%			
2005					80.6%	84.9%	88.0%	90.9%	92.8%	94.2%	95.4%	96.3%	97.0%	97.5%				
2006				72.8%	79.7%	84.3%	88.5%	91.1%	93.0%	94.6%	95.8%	96.6%	97.3%					
2007			60.3%	71.1%	78.4%	84.5%	88.3%	91.1%	93.4%	94.9%	96.0%	96.8%						
2008		43.9%	58.5%	69.6%	78.3%	84.0%	88.2%	91.5%	93.5%	95.1%	96.2%							
2009	21.0%	44.3%	59.1%	71.4%	79.8%	85.4%	89.7%	92.6%	94.5%	95.9%								
2010	21.2%	44.6%	60.6%	72.7%	81.0%	86.6%	90.7%	93.4%	95.1%									
2011	20.9%	45.2%	61.7%	74.0%	82.3%	87.9%	91.7%	94.1%										
2012	20.6%	45.9%	63.0%	75.7%	84.1%	89.3%	92.8%											
2013	20.7%	46.9%	64.5%	77.2%	85.5%	90.3%												
2014	20.8%	48.4%	67.2%	79.7%	87.2%													
2015	21.7%	51.0%	69.7%	81.6%														
2016	23.9%	54.0%	71.9%															
2017	24.4%	54.1%																
2018	24.6%																	
2019																		

Source: WCIRB quarterly calls for experience

Quarterly Ultimate Settlement Ratios

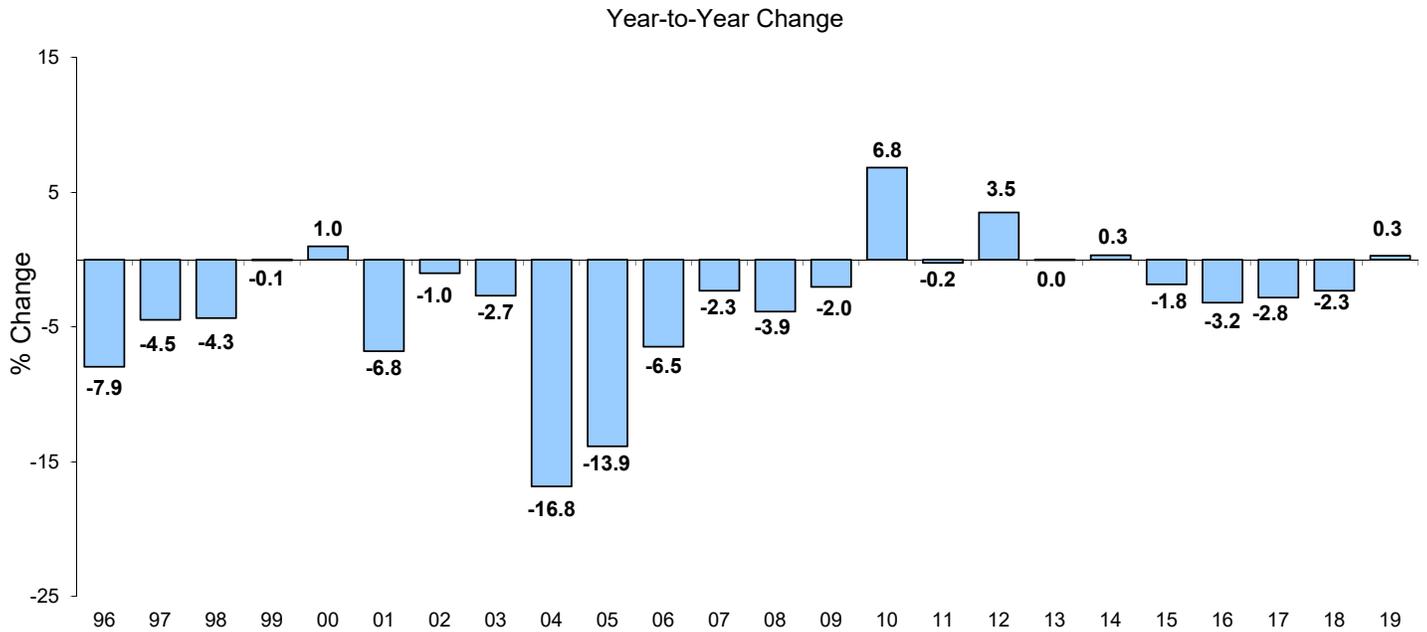
Accident Year	Evaluated as of (in months):															
	<u>3</u>	<u>6</u>	<u>9</u>	<u>12</u>	<u>15</u>	<u>18</u>	<u>21</u>	<u>24</u>	<u>27</u>	<u>30</u>	<u>33</u>	<u>36</u>	<u>39</u>	<u>42</u>	<u>45</u>	<u>48</u>
2010	0.6%	4.7%	11.9%	21.1%	29.9%	35.9%	40.2%	44.5%	48.3%	52.2%	55.8%	59.3%	62.5%	65.9%	68.9%	71.8%
2011	0.8%	5.1%	12.0%	21.3%	29.7%	35.9%	40.3%	44.7%	48.6%	52.9%	56.8%	60.8%	64.1%	67.1%	70.2%	72.9%
2012	0.8%	5.1%	12.1%	21.2%	29.5%	35.9%	40.8%	45.6%	49.8%	54.1%	58.3%	62.2%	65.6%	68.8%	71.7%	74.4%
2013	0.9%	5.1%	11.8%	21.0%	29.4%	36.0%	41.4%	46.4%	51.0%	55.5%	59.6%	63.6%	67.1%	70.5%	73.4%	76.2%
2014	0.8%	4.8%	11.8%	20.8%	29.6%	36.4%	42.1%	47.3%	52.0%	56.5%	60.8%	64.8%	68.2%	71.7%	74.6%	77.5%
2015	0.8%	4.8%	12.2%	21.2%	30.4%	37.8%	43.5%	48.8%	53.9%	59.0%	63.4%	67.5%	71.1%	74.4%	77.4%	80.0%
2016	0.8%	5.1%	12.3%	21.9%	31.7%	39.5%	45.5%	51.3%	56.3%	61.5%	65.9%	70.1%	73.7%	76.9%	79.3%	81.6%
2017	0.9%	5.6%	13.5%	24.2%	34.2%	42.1%	48.3%	54.2%	59.1%	64.0%	68.1%	71.9%				
2018	1.0%	5.8%	13.9%	24.6%	34.7%	42.6%	48.6%	54.1%								
2019	1.0%	5.9%	13.7%	24.6%												

Accident Year	Quarterly Incremental Change														
	<u>3-6</u>	<u>6-9</u>	<u>9-12</u>	<u>12-15</u>	<u>15-18</u>	<u>18-21</u>	<u>21-24</u>	<u>24-27</u>	<u>27-30</u>	<u>30-33</u>	<u>33-36</u>	<u>36-39</u>	<u>39-42</u>	<u>42-45</u>	<u>45-48</u>
2010	4.1%	7.2%	9.2%	8.8%	6.0%	4.3%	4.3%	3.8%	3.9%	3.5%	3.5%	3.2%	3.4%	3.0%	2.9%
2011	4.3%	6.9%	9.3%	8.5%	6.1%	4.5%	4.3%	3.9%	4.4%	3.9%	4.0%	3.3%	3.1%	3.0%	2.7%
2012	4.2%	7.1%	9.1%	8.3%	6.4%	4.8%	4.9%	4.1%	4.3%	4.2%	3.9%	3.4%	3.2%	3.0%	2.7%
2013	4.2%	6.7%	9.1%	8.4%	6.6%	5.4%	5.0%	4.6%	4.5%	4.1%	3.9%	3.6%	3.4%	2.9%	2.8%
2014	4.1%	6.9%	9.1%	8.8%	6.7%	5.8%	5.1%	4.8%	4.5%	4.3%	4.0%	3.4%	3.5%	2.9%	2.8%
2015	4.0%	7.4%	9.0%	9.3%	7.4%	5.7%	5.3%	5.1%	5.1%	4.4%	4.1%	3.6%	3.4%	3.0%	2.6%
2016	4.2%	7.3%	9.6%	9.8%	7.8%	6.0%	5.8%	5.0%	5.2%	4.3%	4.3%	3.6%	3.2%	2.3%	2.4%
2017	4.8%	7.8%	10.7%	10.0%	7.9%	6.2%	5.9%	5.0%	4.9%	4.1%	3.8%				
2018	4.9%	8.1%	10.7%	10.1%	7.9%	6.0%	5.5%								
2019	4.9%	7.9%	10.8%												

Notes All figures in each accident year contain information from the same combination of insurers, all of whom submitted complete data for all evaluations for that accident year. Therefore, each accident year may contain a different mix of insurers (ranging from 78% to 99% of the total California workers' compensation insured market measured using 2019 earned premium levels).

Source: WCIRB quarterly calls for experience

### California Workers' Compensation Estimated Indemnity Claim Frequency by Accident Year



**Note:**

The 2019 estimate is based on a comparison of claim counts based on WCIRB accident year experience as of December 31, 2019 relative to the estimated change in statewide employment. Prior years are based on unit statistical data.

## Item AC20-04-01 12/31/2019 Loss Adjustment Expense Experience Review

The WCIRB's January 1, 2020 Pure Premium Rate Filing included a provision for loss adjustment expenses (LAE) of 36.4%. This amount reflected 14.7% for unallocated loss adjustment expenses (ULAE) and 21.7% for allocated loss adjustment expenses (ALAE), including the cost of medical cost containment programs (MCCP). This was based on ULAE data through calendar year 2018 and accident year ALAE and MCCP data evaluated as of March 31, 2019. The updated ULAE and ALAE projections, including MCCP costs, for the July 1, 2020 to December 31, 2020 policy period are summarized separately below.

### *ULAE Projection*

As of this time, the WCIRB does not have available calendar year 2019 ULAE information. However, staff has computed a preliminary update to the ULAE projection based on updated wage, frequency, and loss projections as of December 31, 2019 using the same methodologies as those reflected in the January 1, 2020 Pure Premium Rate Filing. The projection of ULAE as a percentage of loss based on this approach, as shown in Table 1, is 15.2%.

**Table 1: ULAE to Loss Ratio Projections  
for Policies Incepting July 1, 2020 through December 31, 2020**

<b>ULAE Projection Method</b>	<b>ULAE Ratio</b>
Paid ULAE per Open Indemnity Claim	16.1%
Paid ULAE to Paid Losses	14.2%
Average of Open Indemnity Claim-Based and Paid Loss-Based Projections	<b>15.2%</b>

### *ALAE Projection – Excluding MCCP*

The ALAE provision reflected in the WCIRB's January 1, 2020 Pure Premium Rate Filing was based on a methodology that projects future ALAE as a function of the anticipated future number of indemnity claims and private insurer average ALAE per indemnity claim. The WCIRB has updated the ALAE projection based on ALAE data evaluated as of December 31, 2019 as well as updated frequency and loss projections. (The ALAE projection excludes MCCP costs, which are discussed separately below.)

Exhibit 1 shows paid ALAE amounts per reported indemnity claim on a private insurer basis. Exhibits 2.1 and 2.2 show statewide and private insurer annual ALAE severity growth percentages based on estimated ultimate accident year ALAE per indemnity claim, while Exhibit 3 shows private insurer annual growth percentages based on ratios of incremental calendar year paid ALAE per indemnity claims inventory.

Exhibits 4.1 through 4.4 show the updated ALAE projection excluding MCCP costs, which is based on statewide claim and loss projections and private insurer average ALAE per indemnity claim. In the January 1, 2020 Pure Premium Rate Filing, the WCIRB reflected an adjustment to the cumulative paid ALAE development factor for accident year 2017 to reflect the impact of an increase in claim settlement rates for accident year 2017. The ALAE projection in this analysis is primarily predicated on paid ALAE from accident years 2018 and 2019 (compared to 2017 and 2018 in the January 1, 2020 Pure Premium Rate Filing). As shown in Exhibit 11.2 of Item AC20-03-02, claim settlement rate changes for accident years 2018 and 2019 have been modest. As a result, staff does not recommend reflecting this adjustment in the projected paid ALAE development for accident years 2018 and 2019. In addition, given that the study of the impact of claim settlement rate changes on paid ALAE development was primarily based on

changes at 12 and 24 months,<sup>1</sup> staff does not recommend an adjustment to the projected ALAE development of older accident years at this time. Staff plans to review the impact of shifting claim settlement ratios with the Committee prior to the next annual pure premium rate filing.

The projection shown in Exhibit 4.4 was computed using a 2.0% ALAE severity trend selected based on the approximate average of the private insurer longer-term (post-2006) and shorter-term (five-year) growth rates of (a) estimated ultimate accident year ALAE per indemnity claim (Exhibit 2.2) and (b) incremental paid calendar year ALAE per open indemnity claim (Exhibit 3), which is consistent with the methodology used to select the ALAE severity trend in the last several pure premium rate filings.<sup>2</sup>

Effective in 2017, Senate Bill No. 1160 (SB 1160) and Assembly Bill No. 1244 (AB 1244) included several provisions related to lien filings. As discussed at prior meetings and in prior pure premium rate filings, liens incur significant LAE costs in addition to the settlement costs paid to the lien claimant. In the January 1, 2020 Pure Premium Rate Filing, the WCIRB estimated that SB 1160 and AB 1244 would reduce lien filings by 60%, resulting in a 9.6% overall decrease in ALAE. Liens are typically not filed and paid on claims until much later. As a result, while some of the impact of the reforms is already reflected in the emerging paid ALAE for accident years 2017 and later and in the ALAE development factors, most is not yet reflected. To reflect the full impact of these reforms, consistent with the January 1, 2020 Pure Premium Rate Filing, staff recommends including a separate adjustment to the projected ALAE ratio. This adjustment, which is shown in line (g) of Exhibit 4.4, is based on the full impact of a 9.6% reduction in ALAE costs judgmentally tempered by 40% based on the estimated average percentage of ultimate ALAE costs paid as of December 31, 2019 for accident years 2017 and 2018. (This approach resulted in a 25% tempering in the January 1, 2020 Pure Premium Rate Filing, which was based on March 31, 2019 ALAE experience.)

Based on this approach, the preliminary ALAE (excluding M CCP costs) projection is 16.8%. (This compares to a projected ALAE excluding M CCP costs to loss of 17.2% in the January 1, 2020 Pure Premium Rate Filing.)

#### *ALAE Projection – M CCP*

The ALAE provision reflected in the WCIRB's January 1, 2020 Pure Premium Rate Filing also included a provision for M CCP costs. The projection of M CCP costs was based on a methodology analogous to that used for ALAE excluding M CCP costs and using statewide claim and M CCP cost data. The WCIRB has updated the M CCP cost projection based on M CCP data evaluated as of December 31, 2019 as well as updated frequency and loss projections.

Exhibit 5 shows paid M CCP cost amounts per reported indemnity claim. Exhibit 6 shows annual M CCP severity growth percentages based on ratios of calendar year paid M CCP costs per indemnity claims inventory. Exhibit 7 shows annual M CCP severity growth percentages based on estimated accident year ultimate M CCP costs per indemnity claim. Exhibits 8.1 and 8.2 show the projection of M CCP costs in ALAE. A 0% M CCP severity trend was selected based on the approximate average rates of growth in (a) calendar year M CCP per indemnity claims inventory from 2009 through 2018 (Exhibit 6) and (b) estimated ultimate accident year M CCP costs per indemnity claim from 2013 through 2019 (Exhibit 7), which is consistent with the methodology used to select the M CCP severity trend in the last several pure premium rate filings.<sup>3</sup> The projected ratio of M CCP to loss based on this methodology is 4.3%. (This compares to a projected M CCP costs to loss of 4.5% in the January 1, 2020 Pure Premium Rate Filing.)

The preliminary total projected LAE to loss ratio for policies incepting between July 1, 2020 and December 31, 2020 is 36.3%.

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<sup>1</sup> See Item AC19-08-04 of the August 1, 2020 Actuarial Committee Agenda.

<sup>2</sup> The ALAE severity trend reflected in the January 1, 2020 Pure Premium Rate Filing was 2.5%.

<sup>3</sup> The M CCP severity trend reflected in the January 1, 2020 Pure Premium Rate Filing was also 0%.

**Average Paid ALAE<sup>[1]</sup> per Reported Indemnity Claim - Private Insurers**  
As of December 31, 2019

Accident Year	Evaluated as of (in months):									
	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>	<u>96</u>	<u>108</u>	<u>120</u>
2000								4,521	4,709	4,900
2001							5,480	5,704	5,977	6,144
2002						5,673	5,944	6,260	6,454	6,614
2003					5,475	5,917	6,315	6,597	6,809	7,015
2004				4,369	5,062	5,577	5,955	6,223	6,437	6,644
2005			3,023	3,987	4,698	5,219	5,591	5,899	6,162	6,330
2006		1,853	3,126	4,127	4,876	5,436	5,865	6,184	6,410	6,622
2007	575	1,978	3,323	4,419	5,230	5,864	6,378	6,697	6,978	7,190
2008	619	2,118	3,620	4,859	5,789	6,501	6,986	7,387	7,671	7,884
2009	675	2,406	4,083	5,460	6,484	7,203	7,783	8,196	8,490	8,713
2010	745	2,541	4,279	5,593	6,547	7,290	7,870	8,243	8,514	8,713
2011	753	2,563	4,188	5,522	6,537	7,325	7,837	8,205	8,454	
2012	758	2,555	4,332	5,728	6,766	7,451	7,905	8,227		
2013	777	2,790	4,582	5,936	6,851	7,426	7,827			
2014	879	2,992	4,769	6,056	6,865	7,394				
2015	951	3,067	4,846	6,028	6,769					
2016	933	3,157	4,897	6,015						
2017	1,016	3,279	4,936							
2018	1,110	3,376								
2019	1,113									

Accident Year	Annual Change									
	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>	<u>96</u>	<u>108</u>	<u>120</u>
2001								26.2%	26.9%	25.4%
2002							8.5%	9.7%	8.0%	7.6%
2003						4.3%	6.2%	5.4%	5.5%	6.1%
2004					-7.5%	-5.7%	-5.7%	-5.7%	-5.5%	-5.3%
2005				-8.7%	-7.2%	-6.4%	-6.1%	-5.2%	-4.3%	-4.7%
2006			3.4%	3.5%	3.8%	4.2%	4.9%	4.8%	4.0%	4.6%
2007		6.8%	6.3%	7.1%	7.3%	7.9%	8.7%	8.3%	8.8%	8.6%
2008	7.8%	7.1%	8.9%	9.9%	10.7%	10.9%	9.5%	10.3%	9.9%	9.7%
2009	8.9%	13.6%	12.8%	12.4%	12.0%	10.8%	11.4%	11.0%	10.7%	10.5%
2010	10.4%	5.6%	4.8%	2.4%	1.0%	1.2%	1.1%	0.6%	0.3%	0.0%
2011	1.1%	0.9%	-2.1%	-1.3%	-0.1%	0.5%	-0.4%	-0.5%	-0.7%	
2012	0.7%	-0.3%	3.4%	3.7%	3.5%	1.7%	0.9%	0.3%		
2013	2.5%	9.2%	5.8%	3.6%	1.3%	-0.3%	-1.0%			
2014	13.2%	7.2%	4.1%	2.0%	0.2%	-0.4%				
2015	8.1%	2.5%	1.6%	-0.4%	-1.4%					
2016	-1.8%	2.9%	1.0%	-0.2%						
2017	8.9%	3.9%	0.8%							
2018	9.2%	3.0%								
2019	0.3%									

<u>Annual Trend<sup>[2]</sup></u>										
All-Year	5.5%	5.0%	4.4%	3.8%	3.3%	3.2%	3.4%	4.3%	4.4%	4.5%
R <sup>3</sup>	0.974	0.961	0.919	0.863	0.770	0.772	0.814	0.821	0.810	0.787
5-Year	5.0%	3.1%	1.8%	1.1%	0.8%	0.4%	0.2%	2.2%	5.0%	7.7%
R <sup>3</sup>	0.865	0.995	0.887	0.626	0.459	0.522	0.178	0.515	0.771	0.946

[1] All paid ALAE exclude the paid cost of medical cost containment programs.

[2] Trend is based on exponential distribution.

Source: WCIRB and WCIRB accident year experience calls.

**Ratio of Accident Year Incremental Paid ALAE<sup>[1]</sup> to Indemnity Claims Inventory<sup>[2]</sup>  
By Payment Year - Private Insurers**

Acc. Year	Payment Year Ending December 31													
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
1989	1,055	923	1,167	1,027	1,221	1,236	1,525	1,530	1,368	1,669	1,784	1,517	1,653	3,318
1990	1,198	1,086	1,406	1,138	1,341	1,386	1,584	1,777	1,496	1,551	1,906	1,680	1,745	1,936
1991	1,120	1,203	1,481	1,384	1,577	1,308	1,678	1,541	1,714	1,431	2,136	2,035	1,935	2,012
1992	1,485	1,507	1,647	1,477	1,718	1,434	1,579	1,633	1,501	1,925	1,596	1,738	1,964	2,034
1993	1,630	1,677	1,945	1,450	1,732	1,788	1,932	1,934	1,802	2,095	2,240	2,053	2,219	2,166
1994	1,784	1,748	1,864	1,389	1,514	1,774	1,830	1,812	1,804	1,775	1,862	1,587	1,795	1,539
1995	1,649	1,771	1,866	1,682	2,022	1,602	1,996	2,144	1,998	2,179	2,434	1,956	2,104	2,093
1996	2,006	2,003	2,040	1,938	1,755	1,868	2,035	2,244	2,008	2,174	2,144	1,921	2,176	2,221
1997	2,503	2,463	2,343	2,268	2,196	2,281	2,489	2,350	1,951	2,303	2,173	2,355	2,357	2,292
1998	2,604	2,405	2,426	2,374	2,398	2,338	2,401	2,362	2,306	2,324	2,453	2,509	2,516	2,010
1999	2,752	2,526	2,468	2,806	2,659	2,600	2,662	2,452	2,130	2,322	2,433	2,199	2,139	2,110
2000	2,861	2,658	2,699	2,806	2,773	2,781	2,841	2,670	2,530	2,798	2,669	2,449	2,387	2,135
2001	2,618	2,918	2,644	2,756	2,707	2,730	2,841	3,113	3,290	3,044	2,801	2,592	2,582	2,614
2002	2,746	3,081	2,881	2,976	2,949	3,029	2,959	3,285	3,428	3,193	3,171	3,024	2,961	2,977
2003	2,818	3,077	3,014	3,007	3,226	3,208	3,518	3,604	3,687	3,582	3,229	2,942	2,861	2,773
2004	2,562	2,919	3,062	3,170	3,256	3,156	3,084	3,462	3,556	3,487	3,113	2,948	2,962	2,859
2005	1,692	2,493	2,877	3,084	3,227	3,286	3,267	3,580	3,568	3,562	3,669	3,387	3,493	3,213
2006	529	1,815	2,675	2,969	3,220	3,478	3,468	3,489	3,511	3,566	3,193	3,184	3,060	2,786
2007		572	1,987	2,752	3,155	3,398	3,572	3,756	3,671	3,745	3,518	3,478	3,529	3,480
2008			620	2,095	2,976	3,480	3,559	3,716	3,840	3,952	3,698	3,708	3,637	3,794
2009				674	2,380	3,307	3,620	3,797	3,964	4,048	3,871	3,843	3,875	4,139
2010					746	2,542	3,411	3,684	3,888	4,137	4,351	4,029	4,079	4,117
2011						766	2,569	3,342	3,825	4,120	4,428	4,150	4,344	4,189
2012							773	2,593	3,610	4,036	4,260	4,181	4,151	4,284
2013								791	2,844	3,691	3,931	4,092	4,024	4,210
2014									909	3,031	3,631	3,964	3,963	4,164
2015										923	2,969	3,754	3,927	4,069
2016											933	3,137	3,880	4,031
2017												1,016	3,273	3,905
2018													1,110	3,329
2019														1,113
ALAE per Claim Annual Change	1,915	1,979	2,047	2,160	2,318	2,480	2,563	2,639	2,797	2,906	2,918	2,946	2,991	3,010
	3.4%	3.4%	3.4%	5.5%	7.3%	7.0%	3.4%	3.0%	6.0%	3.9%	0.4%	1.0%	1.5%	0.6%

<u>Estimated Annual Exponential Trend Based on Payment Year:</u>	<u>R<sup>2</sup></u>
2006-2019	3.9% 0.947
<u>2015-2019</u>	<u>1.0%</u> 0.968
Average:	2.4%

<sup>[1]</sup> All paid ALAE exclude the paid cost of medical cost containment programs.

<sup>[2]</sup> Indemnity claims inventory is the sum of indemnity claims open as of January 1 of Year N-1 and newly-reported indemnity claims between January 1 of year N-1 and December 31 of year N.

Source: WCIRB quarterly calls for experience.

**Estimated Ultimate ALAE per Indemnity Claim - Private Insurers**

Acc. Year	Paid ALAE <sup>[1]</sup> @12/31/19 (in \$000) (1)	Cumulative Development Factors <sup>[2]</sup> (2)	Estimated Ultimate ALAE (in \$000) (3)=(1)x(2)	Indemnity Claim Counts @12/31/19 (4)	Cumulative Count Development Factors <sup>[3]</sup> (5)	Estimated Ultimate Ind. Counts (6)=(4)x(5)	Estimated Ultimate ALAE per Indemnity Claim (7)=(3)/(6)x1000	Annual Change (8)
1992	320,055	1.045	334,353	142,042	1.000	142,084	2,353	---
1993	238,067	1.047	249,307	113,593	1.000	113,641	2,194	-6.8%
1994	220,590	1.051	231,808	105,489	1.001	105,557	2,196	0.1%
1995	243,386	1.054	256,584	101,397	1.001	101,493	2,528	15.1%
1996	289,962	1.060	307,268	103,197	1.001	103,332	2,974	17.6%
1997	366,953	1.065	390,840	104,857	1.001	105,013	3,722	25.2%
1998	505,575	1.071	541,393	112,485	1.002	112,688	4,804	29.1%
1999	555,959	1.076	598,391	116,428	1.002	116,669	5,129	6.8%
2000	660,324	1.082	714,606	118,453	1.002	118,732	6,019	17.3%
2001	784,074	1.089	853,554	114,003	1.003	114,290	7,468	24.1%
2002	822,387	1.096	901,481	113,028	1.003	113,335	7,954	6.5%
2003	831,237	1.104	917,285	108,444	1.003	108,792	8,432	6.0%
2004	714,272	1.111	793,384	99,514	1.004	99,875	7,944	-5.8%
2005	671,261	1.120	751,521	97,344	1.004	97,722	7,690	-3.2%
2006	738,420	1.131	835,240	104,324	1.004	104,740	7,974	3.7%
2007	814,559	1.143	931,156	107,463	1.005	107,950	8,626	8.2%
2008	864,571	1.159	1,002,187	105,677	1.005	106,225	9,435	9.4%
2009	898,029	1.179	1,058,656	100,950	1.006	101,530	10,427	10.5%
2010	947,868	1.204	1,141,452	108,785	1.006	109,463	10,428	0.0%
2011	954,769	1.234	1,177,913	112,937	1.007	113,746	10,356	-0.7%
2012	997,087	1.273	1,268,894	121,193	1.008	122,173	10,386	0.3%
2013	999,100	1.326	1,325,077	127,646	1.009	128,830	10,285	-1.0%
2014	965,141	1.401	1,351,896	130,523	1.011	131,973	10,244	-0.4%
2015	912,633	1.514	1,381,956	134,830	1.015	136,831	10,100	-1.4%
2016	839,768	1.708	1,434,620	139,605	1.020	142,386	10,076	-0.2%
2017	690,182	2.118	1,461,615	139,814	1.030	143,941	10,154	0.8%
2018	471,390	3.273	1,542,904	139,615	1.057	147,596	10,454	2.9%
2019	128,216	12.318	1,579,297	115,209	1.309	150,795	10,473	0.2%

Estimated Annual Exponential Trend Based on:		R <sup>2</sup>
2006 to 2019	1.3%	0.432
2015 to 2019	1.1%	0.825
Average:	1.2%	

Notes:

- [1] All paid ALAE exclude the paid cost of medical cost containment programs.
- [2] Based on the latest year paid ALAE age-to-age development from Exhibit 4.2
- [3] Based on analogous Exhibit 4.1, applicable to private insurers only.

Reported Indemnity Claim Count Development - Statewide

Accident Year	Age-to-Age Development (in months):														
	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	<u>72-84</u>	<u>84-96</u>	<u>96-108</u>	<u>108-120</u>	<u>120-132</u>	<u>132-144</u>	<u>144-156</u>	<u>156-168</u>	<u>168-180</u>	<u>180-192</u>
1992															1.001
1993														1.001	1.000
1994													1.001	1.000	1.000
1995												1.001	1.000	1.004	1.001
1996											1.001	1.001	1.001	1.000	1.000
1997										1.001	1.000	1.000	1.000	1.000	1.000
1998									1.001	1.000	1.000	1.000	1.001	1.000	1.000
1999								1.001	1.002	1.000	1.000	1.000	1.000	1.000	1.001
2000							1.000	0.998	1.000	1.000	1.000	1.001	1.000	1.000	1.000
2001						0.999	0.998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2002					0.999	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2003				0.999	1.008	0.998	0.999	0.999	1.000	0.999	1.000	1.000	1.000	1.000	1.000
2004			1.001	1.000	0.999	1.000	0.999	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000
2005		1.007	1.004	1.000	1.001	1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2006	1.115	1.013	1.005	1.002	1.001	1.000	1.005	1.001	1.000	1.000	1.000	1.000	1.000		
2007	1.125	1.015	1.006	1.004	1.002	1.000	1.001	1.001	1.000	1.000	1.000	1.000			
2008	1.153	1.023	1.011	1.005	1.003	1.001	1.001	1.001	1.000	1.000	1.000				
2009	1.194	1.029	1.011	1.006	1.003	1.002	1.001	1.000	1.000	1.000					
2010	1.220	1.030	1.011	1.006	1.004	1.002	1.001	1.000	1.000						
2011	1.230	1.033	1.014	1.007	1.002	1.001	1.001	1.001							
2012	1.241	1.035	1.013	1.005	1.003	1.001	1.001								
2013	1.240	1.031	1.010	1.004	1.002	1.002									
2014	1.239	1.027	1.010	1.004	1.002										
2015	1.236	1.027	1.006	1.003											
2016	1.244	1.029	1.007												
2017	1.220	1.023													
2018	1.226														
I. <u>Age-to-Age (Latest Year)</u>															
	1.226	1.023	1.007	1.003	1.002	1.002	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000
II. <u>Age-to-Ultimate</u>															
	1.278	1.042	1.018	1.011	1.008	1.006	1.004	1.004	1.003	1.003	1.003	1.002	1.002	1.002	1.002

Accident Year	Age-to-Age Development (in months):														
	<u>192-204</u>	<u>204-216</u>	<u>216-228</u>	<u>228-240</u>	<u>240-252</u>	<u>252-264</u>	<u>264-276</u>	<u>276-288</u>	<u>288-300</u>	<u>300-312</u>	<u>312-324</u>	<u>324-336</u>	<u>336-348</u>	<u>348-360</u>	<u>360-372</u>
1989			1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1990		1.001	0.999	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	
1991	1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
1992	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
1993	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
1994	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
1995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
1996	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
1997	1.000	1.000	1.000	1.000	1.000	1.000									
1998	1.000	1.000	1.000	1.000	1.000										
1999	1.000	1.000	1.000	1.000											
2000	1.000	1.000	1.000	1.000											
2001	1.000	1.000	1.000												
2002	1.000	1.000													
2003	1.000														
I. <u>Age-to-Age (Latest Year)</u>															
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
II. <u>Age-to-Ultimate</u>															
	1.002	1.002	1.002	1.002	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000

Source: WCIRB quarterly calls for experience.

Paid Allocated Loss Adjustment Expense Development - Private Insurers  
As of December 31, 2020

Accident Year	Age-to-Age Development (in months):																
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216
1986								1.000	1.018	1.013	1.010	1.008	1.009	1.010	1.005	1.006	1.005
1987							1.035	1.025	1.016	1.012	1.009	1.012	1.009	1.006	1.006	1.004	1.004
1988						1.055	1.036	1.023	1.016	1.011	1.010	1.014	1.005	1.004	1.004	1.004	1.004
1989					1.110	1.063	1.064	1.030	1.018	1.012	1.008	1.004	1.006	1.005	1.004	1.005	1.005
1990				1.170	1.085	1.070	1.035	1.020	1.015	1.010	1.007	1.006	1.006	1.004	1.005	1.006	1.005
1991			1.303	1.131	1.083	1.054	1.027	1.019	1.012	1.017	1.008	1.005	1.002	1.005	1.007	1.004	1.004
1992		1.631	1.249	1.134	1.081	1.050	1.028	1.021	1.024	1.010	1.008	1.004	1.007	1.005	1.006	1.005	1.002
1993	3.143	1.624	1.281	1.148	1.082	1.053	1.034	1.035	1.020	1.014	1.011	1.010	1.011	1.010	1.009	1.004	1.007
1994	3.130	1.649	1.285	1.126	1.087	1.055	1.046	1.027	1.020	1.016	1.015	1.017	1.014	1.012	1.008	1.007	1.008
1995	3.401	1.698	1.258	1.180	1.081	1.058	1.038	1.031	1.025	1.021	1.020	1.017	1.016	1.011	1.012	1.008	1.009
1996	3.147	1.569	1.330	1.132	1.081	1.061	1.049	1.036	1.033	1.028	1.022	1.018	1.014	1.010	1.009	1.010	1.009
1997	2.994	1.675	1.231	1.132	1.092	1.067	1.052	1.042	1.035	1.027	1.021	1.017	1.013	1.012	1.012	1.010	1.008
1998	3.591	1.608	1.248	1.163	1.105	1.076	1.071	1.045	1.032	1.024	1.021	1.017	1.014	1.014	1.012	1.012	1.010
1999	3.351	1.720	1.319	1.158	1.116	1.086	1.064	1.042	1.034	1.029	1.021	1.018	1.016	1.013	1.013	1.010	1.010
2000	4.051	1.752	1.315	1.183	1.121	1.090	1.053	1.042	1.033	1.025	1.021	1.019	1.015	1.014	1.012	1.011	1.009
2001	3.939	1.768	1.357	1.182	1.118	1.078	1.054	1.039	1.028	1.024	1.020	1.017	1.017	1.014	1.011	1.009	1.008
2002	3.927	1.784	1.315	1.171	1.101	1.074	1.046	1.032	1.026	1.021	1.018	1.017	1.013	1.012	1.009	1.008	1.007
2003	4.109	1.707	1.324	1.159	1.107	1.062	1.045	1.034	1.029	1.023	1.020	1.017	1.013	1.010	1.008	1.007	
2004	4.040	1.713	1.319	1.169	1.101	1.069	1.048	1.036	1.030	1.025	1.020	1.015	1.012	1.010	1.008		
2005	3.840	1.698	1.336	1.181	1.113	1.079	1.056	1.044	1.035	1.027	1.022	1.016	1.014	1.010			
2006	3.750	1.736	1.330	1.186	1.120	1.081	1.060	1.046	1.035	1.025	1.019	1.014	1.011				
2007	4.027	1.716	1.340	1.194	1.126	1.088	1.060	1.044	1.032	1.023	1.018	1.014					
2008	4.015	1.758	1.367	1.199	1.126	1.085	1.060	1.040	1.029	1.021	1.017						
2009	4.322	1.775	1.354	1.199	1.126	1.083	1.054	1.037	1.027	1.022							
2010	4.300	1.737	1.342	1.190	1.120	1.076	1.049	1.034	1.024								
2011	4.225	1.729	1.351	1.196	1.109	1.072	1.048	1.032									
2012	4.338	1.773	1.344	1.174	1.105	1.063	1.042										
2013	4.542	1.706	1.297	1.161	1.087	1.056											
2014	4.322	1.635	1.285	1.140	1.081												
2015	4.041	1.630	1.255	1.128													
2016	4.254	1.603	1.240														
2017	3.979	1.546															
2018	3.763																

<u>Latest Year</u>																	
Age-to-Age	3.763	1.546	1.240	1.128	1.081	1.056	1.042	1.032	1.024	1.022	1.017	1.014	1.011	1.010	1.008	1.007	1.007
Cumulative	12.318	3.273	2.118	1.708	1.514	1.401	1.326	1.273	1.234	1.204	1.179	1.159	1.143	1.131	1.120	1.111	1.104
<u>3-Year Arithmetics Average</u>																	
Age-to-Age	3.999	1.593	1.260	1.143	1.091	1.064	1.046	1.034	1.027	1.022	1.018	1.015	1.012	1.010	1.008	1.008	1.008
Cumulative	14.355	3.590	2.254	1.789	1.565	1.434	1.348	1.288	1.246	1.213	1.187	1.166	1.149	1.135	1.124	1.115	1.106

Accident Year	Age-to-Age Development (in months):																
	216-228	228-240	240-252	252-264	264-276	276-288	288-300	300-312	312-324	324-336	336-348	348-360	360-372	372-384	384-396	396-408	408-420
1985	1.006	1.004	1.003	1.005	1.005	1.000	1.003	1.004	1.004	1.004	1.004	1.006	1.004	1.003	1.003	1.003	1.003
1986	1.005	1.005	1.006	1.005	1.000	1.004	1.005	1.005	1.006	1.006	1.007	1.006	1.005	1.004	1.003	1.004	
1987	1.005	1.006	1.007	1.000	1.003	1.006	1.005	1.004	1.005	1.006	1.005	1.004	1.004	1.003	1.003		
1988	1.005	1.005	1.012	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.003	1.003	1.003			
1989	1.004	1.004	1.003	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.003	1.003	1.005				
1990	1.004	1.002	1.003	1.003	1.003	1.003	1.003	1.002	1.003	1.002	1.002	1.002					
1991	1.002	1.003	1.003	1.003	1.003	1.003	1.002	1.003	1.003	1.002	1.002						
1992	1.005	1.004	1.003	1.003	1.003	1.003	1.003	1.002	1.003	1.002							
1993	1.006	1.006	1.006	1.005	1.005	1.005	1.004	1.004	1.003								
1994	1.007	1.006	1.006	1.005	1.005	1.004	1.004	1.003									
1995	1.009	1.008	1.008	1.008	1.006	1.006	1.005										
1996	1.008	1.007	1.007	1.006	1.006	1.005											
1997	1.008	1.007	1.007	1.006	1.005												
1998	1.010	1.008	1.007	1.005													
1999	1.008	1.007	1.005														
2000	1.007	1.006															
2001	1.007																

<u>Latest Year</u>																	
Age-to-Age	1.007	1.006	1.005	1.005	1.005	1.005	1.005	1.003	1.003	1.002	1.002	1.002	1.005	1.003	1.003	1.004	1.003
Cumulative	1.096	1.089	1.082	1.076	1.071	1.065	1.060	1.054	1.051	1.047	1.045	1.043	1.040	1.037	1.035	1.033	1.031
<u>3-Year Arithmetics Average</u>																	
Age-to-Age	1.007	1.007	1.006	1.005	1.006	1.005	1.005	1.003	1.003	1.002	1.002	1.003	1.004	1.003	1.003	1.003	1.003
Cumulative	1.098	1.090	1.083	1.076	1.070	1.064	1.059	1.054	1.050	1.047	1.045	1.043	1.040	1.037	1.035	1.033	1.031

Note: Factors in italics are based on an inverse power curve fit to the "3-Year Arithmetic Average" factors using the 108-to-120 through 336-to-348 valuations.  
Source: WCIRB accident year experience calls. Excludes MCCC costs.

Quarterly Paid ALAE Loss Development Factors<sup>[1]</sup> - Private Insurers

Age in Months	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
3 - 6		7.976	7.570	5.434	9.136	8.769	8.693	8.584	6.234	9.866	8.946	8.934	8.191	7.885
6 - 9	2.427	3.016	2.765	2.630	3.023	3.176	3.213	3.058	3.163	3.173	3.144	3.064	3.161	3.139
9 - 12	2.022	2.078	2.021	2.034	2.077	2.165	2.115	2.133	2.158	2.107	2.101	2.137	2.091	2.121
12 - 15	1.653	1.627	1.687	1.724	1.737	1.701	1.713	1.784	1.744	1.734	1.776	1.701	1.672	
15 - 18	1.415	1.486	1.494	1.509	1.482	1.486	1.510	1.494	1.488	1.482	1.491	1.451	1.442	
18 - 21	1.357	1.328	1.289	1.326	1.334	1.343	1.338	1.349	1.332	1.309	1.309	1.311	1.289	
21 - 24	1.255	1.234	1.237	1.255	1.253	1.248	1.249	1.237	1.239	1.225	1.227	1.227	1.212	
24 - 27	1.187	1.191	1.190	1.197	1.189	1.186	1.205	1.187	1.177	1.184	1.167	1.150		
27 - 30	1.165	1.167	1.172	1.170	1.158	1.163	1.160	1.156	1.151	1.142	1.132	1.129		
30 - 33	1.128	1.119	1.135	1.138	1.133	1.131	1.130	1.123	1.116	1.110	1.109	1.099		
33 - 36	1.107	1.103	1.111	1.114	1.113	1.108	1.104	1.101	1.095	1.088	1.092	1.083		
36 - 39	1.093	1.090	1.097	1.094	1.091	1.095	1.093	1.085	1.085	1.073	1.068			
39 - 42	1.083	1.086	1.096	1.082	1.083	1.081	1.081	1.077	1.072	1.062	1.062			
42 - 45	1.063	1.069	1.069	1.074	1.069	1.068	1.070	1.061	1.057	1.054	1.049			
45 - 48	1.057	1.059	1.063	1.064	1.062	1.059	1.057	1.055	1.051	1.046	1.042			
48 - 51	1.050	1.050	1.052	1.053	1.053	1.051	1.050	1.047	1.041	1.036				
51 - 54	1.049	1.050	1.049	1.050	1.048	1.048	1.046	1.042	1.035	1.034				
54 - 57	1.038	1.043	1.045	1.043	1.040	1.043	1.038	1.035	1.031	1.027				
57 - 60	1.037	1.038	1.039	1.039	1.037	1.036	1.035	1.031	1.028	1.026				
60 - 63	1.032	1.032	1.034	1.034	1.032	1.031	1.031	1.025	1.023					
63 - 66	1.030	1.031	1.033	1.032	1.032	1.029	1.028	1.022	1.021					
66 - 69	1.027	1.029	1.028	1.029	1.028	1.024	1.024	1.021	1.018					
69 - 72	1.025	1.028	1.026	1.026	1.024	1.023	1.021	1.018	1.018					
72 - 75	1.022	1.023	1.023	1.022	1.021	1.021	1.019	1.016						
75 - 78	1.020	1.023	1.022	1.022	1.020	1.019	1.016	1.015						
78 - 81	1.019	1.020	1.020	1.020	1.017	1.017	1.015	1.013						
81 - 84	1.018	1.019	1.018	1.017	1.016	1.014	1.014	1.012						
84 - 87	1.016	1.016	1.016	1.015	1.014	1.014	1.011							
87 - 90	1.015	1.015	1.016	1.015	1.012	1.012	1.011							
90 - 93	1.014	1.014	1.014	1.012	1.012	1.012	1.012							
93 - 96	1.013	1.013	1.013	1.012	1.010	1.011	1.009							
96 - 99	1.012	1.011	1.011	1.010	1.010	1.008								
99 - 102	1.012	1.012	1.011	1.009	1.009	1.009								
102 - 105	1.012	1.011	1.009	1.009	1.008	1.007								
105 - 108	1.010	1.010	1.008	1.008	1.007	1.007								
108 - 111	1.009	1.009	1.008	1.008	1.006									
111 - 114	1.009	1.008	1.007	1.007	1.007									
114 - 117	1.008	1.007	1.007	1.007	1.006									
117 - 120	1.008	1.007	1.006	1.006	1.006									
120 - 123	1.007	1.006	1.006	1.006										

[1] All paid allocated loss adjustment expense exclude the paid cost of medical cost containment programs.

Source: WCIRB quarterly calls for experience.

**Projected Ratio of ALAE<sup>[1]</sup> to Losses - Statewide**

Based on Estimated Accident Year Indemnity Claim Frequency and Private Insurers ALAE Severity for Policies with Effective Dates between July 1, 2020 and December 31, 2020

Acc. Year	Indemnity Claim Counts @12/31/19 (1)	Cumulative Count Development Factors <sup>[2]</sup> (2)	Estimated Ultimate Ind. Counts (3)=(1)x(2)	Estimated Ult. ALAE per Indemnity Claim <sup>[3]</sup> (4)	Estimated Ult. ALAE (in \$000) (5)=(3)x(4)
1992	198,558	1.000	198,622	2,353	467,397
1993	156,201	1.000	156,269	2,194	342,823
1994	143,801	1.001	143,889	2,196	315,987
1995	135,244	1.001	135,357	2,528	342,195
1996	133,160	1.001	133,308	2,974	396,406
1997	137,416	1.001	137,589	3,722	512,081
1998	147,505	1.001	147,725	4,804	709,725
1999	148,704	1.002	148,956	5,129	763,990
2000	161,993	1.002	162,285	6,019	976,738
2001	185,700	1.002	186,038	7,468	1,389,389
2002	194,726	1.002	195,088	7,954	1,551,752
2003	184,260	1.002	184,631	8,432	1,556,730
2004	159,000	1.002	159,320	7,944	1,265,610
2005	139,566	1.002	139,848	7,690	1,075,485
2006	133,286	1.002	133,536	7,974	1,064,871
2007	130,329	1.002	130,590	8,626	1,126,451
2008	123,069	1.002	123,341	9,435	1,163,675
2009	113,746	1.003	114,036	10,427	1,189,054
2010	118,463	1.003	118,776	10,428	1,238,568
2011	120,591	1.003	120,969	10,356	1,252,718
2012	127,555	1.004	128,022	10,386	1,329,639
2013	135,486	1.004	136,078	10,285	1,399,620
2014	140,732	1.006	141,572	10,244	1,450,232
2015	144,847	1.008	146,042	10,100	1,474,986
2016	147,856	1.011	149,529	10,076	1,506,586
2017	147,371	1.018	150,077	10,154	1,523,921
2018	146,958	1.042	153,158	10,454	1,601,047
2019	122,306	1.278	156,252	10,473	1,636,452

**Projected Based on 2-Year Average of 2018 and 2019:**

	Ult. Ind. Counts <sup>[4]</sup>	Ult. ALAE per Ind. Counts <sup>[5]</sup>	Ultimate ALAE <sup>[6]</sup>
2020	150,488	10,779	1,622,150
4/1/2021	147,578	10,941	1,614,584

- (a) Projected ALAE Incurred (\$000): 1,614,584
- (b) Calendar Year 2019 Earned Premium<sup>[7]</sup> (\$000): 16,121,173
- (c) Projected Loss to Industry Average Filed Pure Premium Ratio<sup>[8]</sup>: 0.561
- (d) Premium Adjustment Factor for Calendar Year 2019<sup>[9]</sup>: 1.002
- (e) Projected Losses (\$000): (b) x (c) x (d) 9,062,066
- (f) Ratio of ALAE to Losses Prior to Impact of SB 1160 and AB 1244: (a)/(e) 17.8%
- (g) Impact of SB 1160 and AB 1244<sup>[10]</sup>: -5.8%
- (h) Projected Ratio of ALAE to Losses after Impact of SB 1160 and AB 1244: (f) x [1.0 + (g)] 16.8%

**Notes:**

- [1] All paid ALAE exclude the paid cost of medical cost containment programs.
- [2] Based on the latest year indemnity claim count age-to-age development from Exhibit 4.1.
- [3] Based on estimated ultimate ALAE per indemnity for private insurers from Exhibit 2.
- [4] Estimated based on projected frequency trends for accident years 2019 to 2021. The estimated frequency changes are based on the projected growth in overall indemnity claim frequency. These frequency trends were then applied to the ultimate indemnity claim counts estimated from averaging 2018 and 2019.
- [5] Severity is projected by applying an annual growth rate of 2.0%, which is based on the approximate average of the private insurers selected rate of growth in (i) estimated ultimate accident year ALAE severities from Exhibit 3 and (ii) paid ALAE per open indemnity claim from Exhibit 2, to the ultimate ALAE severity estimated from averaging 2018 and 2019.
- [6] Column(3) x Column(4) / 1,000.
- [7] Based on the reported earned premium for calendar year 2019 from the same group of insurers that reported the paid ALAE in column (1) and the indemnity claim counts in column (4) by accident year as of December 31, 2019.
- [8] See Exhibit 8 of Agenda Item AC20-03-02.
- [9] See Exhibit 5.2 of Agenda Item AC20-03-02.
- [10] Based on the WCIRB's most recent evaluation of SB 1160 and AB 1244 reflecting a 60% reduction in lien filings, offset by 40% to reflect the impact of the reforms in the emerging ALAE data.

**Average Paid MCCP per Reported Indemnity Claim - Statewide**  
As of December 31, 2019

Accident Year	Evaluated as of (in months):							
	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>	<u>96</u>
2012	674	1,361	1,744	1,990	2,097	2,208	2,285	2,338
2013	655	1,253	1,620	1,821	1,962	2,068	2,132	
2014	616	1,200	1,576	1,786	1,932	2,014		
2015	603	1,209	1,538	1,749	1,867			
2016	592	1,152	1,454	1,632				
2017	585	1,128	1,437					
2018	639	1,185						
2019	607							

Accident Year	Annual Change							
	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>	<u>96</u>
2013	-2.8%	-7.9%	-7.1%	-8.5%	-6.4%	-6.3%	-6.7%	
2014	-6.0%	-4.2%	-2.7%	-1.9%	-1.6%	-2.6%		
2015	-2.1%	0.7%	-2.4%	-2.1%	-3.3%			
2016	-1.9%	-4.7%	-5.5%	-6.7%				
2017	-1.1%	-2.1%	-1.1%					
2018	9.2%	5.1%						
2019	-5.0%							

Source: WCIRB accident year experience calls.

**Paid MCCP per Indemnity Claims Inventory<sup>[1]</sup> by Calendar Year - Statewide**

Calendar Year	Paid MCCP per Indemnity Claim Adjusted to Remove IMR/IBR Fees	Year-to-Year Change
2008	\$848	50.8%
2009	\$808	-4.7%
2010	\$872	7.9%
2011	\$914	4.8%
2012	\$942	3.0%
2013	\$984	4.5%
2014	\$952	-3.3%
2015	\$1,059	11.2%
2016	\$1,000	-5.6%
2017	\$947	-5.2%
2018	\$978	3.3%

Estimated Annual Exponential Trend Based on:

2009-2018	1.9%
R <sup>2</sup>	0.559

<sup>[1]</sup> Indemnity claims inventory is the sum of indemnity claims open as of January 1 of Year N and newly-reported indemnity claims between January 1 of year N and December 31 of year N.

Source: WCIRB expense calls, aggregate indemnity and medical cost calls, and quarterly calls for experience.

**Estimated Ultimate MCCP per Indemnity Claim - Statewide**

Accident Year	Paid MCCP @12/31/19 (in \$000) (1)	Cumulative Development Factors <sup>[1]</sup> (2)	Estimated Ultimate MCCP (3)=(1)x(2)	Indemnity Claim Counts @12/31/19 (4)	Cumulative Count Development Factors <sup>[2]</sup> (5)	Estimated Ultimate Ind. Counts (6)=(4)x(5)	Estimated Ultimate MCCP per Indemnity Claim (7)=(3)/(6) x 1000	Annual change
2012	298,263	1.369	408,323	127,555	1.004	128,022	3,189	---
2013	288,843	1.403	405,131	135,486	1.004	136,078	2,977	-6.7%
2014	283,431	1.448	410,474	140,732	1.006	141,572	2,899	-2.6%
2015	270,491	1.513	409,377	144,847	1.008	146,042	2,803	-3.3%
2016	241,318	1.621	391,207	147,856	1.011	149,529	2,616	-6.7%
2017	211,842	1.833	388,255	147,371	1.018	150,077	2,587	-1.1%
2018	174,157	2.390	416,272	146,958	1.042	153,158	2,718	5.1%
2019	74,243	5.432	403,305	122,306	1.278	156,252	2,581	-5.0%

**Estimated Annual Exponential Trend Based on:**

2013 to 2019	-2.3%
2015 to 2019	-1.3%

Notes:

[1] Based on MCCP development through 96 months from Exhibit 8.1. 96-to-ultimate development factors are based on selected paid medical development factors from Exhibit 3.2 of Agenda Item AC20-03-02.

[2] Based on the latest year indemnity claim count age-to-age development from Exhibit 4.1.

**Paid MCCP Development Factors - Statewide**

		Quarterly Development							
Age in Months		Accident Year							
		2012	2013	2014	2015	2016	2017	2018	2019
3	- 6	5.599	5.796	6.047	5.652	6.118	5.561	5.890	5.288
6	- 9	2.356	2.432	2.402	2.457	2.407	2.395	2.329	2.354
9	- 12	1.763	1.773	1.771	1.742	1.725	1.776	1.824	1.775
12	- 15	1.476	1.412	1.456	1.468	1.477	1.444	1.432	
15	- 18	1.277	1.253	1.299	1.282	1.244	1.258	1.239	
18	- 21	1.171	1.157	1.194	1.177	1.170	1.154	1.147	
21	- 24	1.128	1.121	1.128	1.120	1.125	1.122	1.116	
24	- 27	1.083	1.099	1.096	1.096	1.086	1.096		
27	- 30	1.077	1.081	1.073	1.073	1.077	1.071		
30	- 33	1.051	1.068	1.045	1.062	1.054	1.057		
33	- 36	1.045	1.054	1.036	1.047	1.053	1.051		
36	- 39	1.047	1.053	1.034	1.040	1.039			
39	- 42	1.036	1.043	1.026	1.040	1.032			
42	- 45	1.036	1.035	1.025	1.029	1.027			
45	- 48	1.031	1.027	1.019	1.028	1.026			
48	- 51	1.031	1.023	1.025	1.021				
51	- 54	1.025	1.023	1.025	1.020				
54	- 57	1.022	1.019	1.018	1.015				
57	- 60	1.017	1.016	1.016	1.014				
60	- 63	1.015	1.014	1.013					
63	- 66	1.016	1.017	1.013					
66	- 69	1.014	1.012	1.011					
69	- 72	1.011	1.011	1.009					
72	- 75	1.009	1.010						
75	- 78	1.010	1.009						
78	- 81	1.007	1.006						
81	- 84	1.008	1.006						
84	- 87	1.008							

		Annual Development							
Age in Months		Accident Year							
		2012	2013	2014	2015	2016	2017	2018	
12	- 24	2.491	2.292	2.446	2.476	2.423	2.343	2.273	
24	- 36	1.281	1.341	1.364	1.306	1.295	1.304		
36	- 48	1.160	1.168	1.144	1.143	1.131			
48	- 60	1.097	1.082	1.084	1.071				
60	- 72	1.055	1.054	1.045					
72	- 84	1.035	1.033						
84	- 96	1.025							
		<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	<u>72-84</u>	<u>84-96</u>	<u>96-Ult.</u>
Age-to-Age <sup>[1]</sup>		2.273	1.304	1.131	1.071	1.045	1.033	1.025	
Age -to-Ult. <sup>[2]</sup>		5.432	2.390	1.833	1.621	1.513	1.448	1.403	1.369

Notes:

[1] Based on Latest Year.

[2] 96-to-Ult. is based on selected paid medical 96-to-ultimate development factor on Exhibit 3.2 of Agenda Item AC20-03-02.

Source: WCIRB quarterly calls for experience.

**Projected Ratio of MCCP to Losses - Statewide**

Based on Estimated Accident Year Indemnity Claim Frequency and MCCP Severity  
for Policies with Effective Dates between July 1, 2020 and December 31, 2020

Accident Year	Paid MCCP @12/31/19 (in \$000) (1)	Cumulative Development Factors <sup>[1]</sup> (2)	Estimated Ultimate MCCP (3)=(1)x(2)	Indemnity Claim Counts @12/31/19 (4)	Cumulative Count Development Factors <sup>[2]</sup> (5)	Estimated Ultimate Ind. Counts (6)=(4)x(5)	Estimated Ultimate MCCP per Indemnity Claim (7)=(3)/(6) x 1000
2012	298,263	1.369	408,323	127,555	1.004	128,022	3,189
2013	288,843	1.403	405,131	135,486	1.004	136,078	2,977
2014	283,431	1.448	410,474	140,732	1.006	141,572	2,899
2015	270,491	1.513	409,377	144,847	1.008	146,042	2,803
2016	241,318	1.621	391,207	147,856	1.011	149,529	2,616
2017	211,842	1.833	388,255	147,371	1.018	150,077	2,587
2018	174,157	2.390	416,272	146,958	1.042	153,158	2,718
2019	74,243	5.432	403,305	122,306	1.278	156,252	2,581

Projected Based on 2-Year Average of 2018 and 2019:

	Ultimate MCCP <sup>[5]</sup>	Ult. Ind. Counts <sup>[3]</sup>	Ult.MCCP per Ind. Counts <sup>[4]</sup>
2020	398,722	150,488	2,650
4/1/2021	391,011	147,578	2,650

(a) Projected MCCP (\$000):	391,011
(b) Calendar Year 2019 Earned Premium <sup>[6]</sup> (\$000):	16,121,173
(c) Projected Loss to Industry Average Filed Pure Premium Ratio <sup>[7]</sup> :	0.561
(d) Premium Adjustment Factor for Calendar Year 2019 <sup>[8]</sup> :	1.002
(e) Projected Losses (\$000): (b) x (c) x (d)	9,062,066
(f) Projected Ratio of MCCP to Losses: (a)/(e)	4.3%

Notes:

- [1] Based on MCCP development through 96 months from Exhibit 8.1. 96-to-ultimate development factors is based on selected paid medical development factors from Exhibit 3.2 of Agenda Item AC20-03-02.
- [2] Based on the latest year indemnity claim count age-to-age development from Exhibit 4.1.
- [3] Estimated based on projected frequency trends for accident years 2019 to 2021. The estimated frequency changes are based on the projected growth in total or overall indemnity claim frequency. These frequency trends were then applied to the ultimate indemnity claim counts estimated from averaging 2018 and 2019.
- [4] Severity is projected by applying an annual growth rate of 0% to the ultimate MCCP severity estimated from averaging 2018 and 2019.
- [5] Column(6) x Column(7) / 1,000.
- [6] Based on the reported earned premium for calendar year 2019 from the same group of insurers that reported the paid MCCP in column (1) and the indemnity claim counts in column (4) by accident year as of December 31, 2019.
- [7] See Exhibit 8 of Agenda Item AC20-03-02.
- [8] See Exhibit 5.2 of Agenda Item AC20-03-02.

## Item AC20-04-02 12/31/2019 Experience – Alternative Loss Projections

For a number of years, the WCIRB has included alternative loss development and trending methodology projections in its pure premium rate filing submissions.

### *Loss Development Methodologies*

The loss development projections based on the methodology reflected in the WCIRB's summary analysis of December 31, 2019 experience, included in Item AC20-03-02 of this Agenda, were based on a combination of (a) latest year reform-adjusted paid loss development factors through 108 months with adjustments for changes in claim settlement rates applied through 84 months, (b) three-year average reform-adjusted paid loss development factors from 108 months through 264 months, and (c) six-year average (unadjusted) incurred loss development factors after 264 months. Attached for the Committee's review are a number of alternative loss development projections based on methodologies that have been included, for informational purposes, in prior pure premium rate filing materials or have been discussed at prior meetings. Specifically, alternative loss ratio projections, based on December 31, 2019 experience, derived using the following loss development methodologies and the trending methodology reflected in the analysis included in Item AC20-03-02 of this Agenda are included:<sup>1</sup>

1. 3-Year Average Unadjusted Incurred Loss Development – Exhibits 1.1 through 1.3
2. Latest Year Unadjusted Incurred Loss Development – Exhibits 2.1 through 2.3
3. 3-Year Average Incurred Loss Development Adjusted for Changes in Case Reserve Levels – Exhibits 3.1 through 3.11
4. 3-Year Average Unadjusted Paid Loss Development – Exhibits 4.1 through 4.3
5. Latest Year Unadjusted Paid Loss Development – Exhibits 5.1 through 5.3
6. Latest Year Paid Loss Development Adjusted for Reforms – Exhibits 6.1 and 6.2
7. 3-Year Average Paid Loss Development Adjusted for Changes in Claim Settlement Rates and Reforms – Exhibits 7.1 through 7.3

A summary of the July 1, 2020 through December 31, 2020 policy period loss ratio projections based on the alternative loss development methodologies described above is shown in Table 1.

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<sup>1</sup> All paid loss development methodologies reflect three-year average loss development factors applied after 108 months and six-year average incurred loss development factors applied after 264 months. All incurred loss development methodologies reflect six-year average loss development factors applied after 108 months. Methodologies adjusted for reforms include the impacts of SB 1160 and AB 1244 and changes in pharmaceutical cost levels.

**Table 1: Projected Loss Ratios for Policies Incepting between July 1, 2020 and December 31, 2020 Based on Alternative Loss Development Methodologies**

Loss Development Methodologies	Indemnity Loss Ratio	Medical Loss Ratio	Total Loss Ratio
<b>4/2/2020 Agenda Methodology</b>			
Latest Year Paid Adjusted for Reforms and Changes in Claim Settlement Rates	<b>0.256</b>	<b>0.305</b>	<b>0.561</b>
<b>Alternative Methodologies</b>			
<u>Incurred Methodologies</u>			
3-Year Average (Unadjusted)	0.263	0.282	0.545
Latest Year (Unadjusted)	0.256	0.274	0.530
3-Year Average Adjusted for Changes in Case Reserve Levels	0.259	0.287	0.546
<u>Paid Methodologies</u>			
3-Year Average (Unadjusted)	0.284	0.337	0.621
Latest Year (Unadjusted)	0.268	0.318	0.586
Latest Year Adjusted for Reforms	—	0.316	0.584
3-Year Average Adjusted for Changes in Claim Settlement Rates and Reforms	0.266	0.321	0.587
75% Applied to Latest Year Paid Adjusted for Reforms and Claim Settlement Rates and 25% Applied to 3-Year Average Unadjusted Incurred (for Medical) <sup>2</sup>	—	0.299	0.555

*Trending Methodologies*

The trending projections reflected in the summary analysis of December 31, 2019 experience, included in Item AC20-03-02 of this Agenda, were based on the average of the latest two years' on-level loss ratios with separate projections of claim frequency and claim severity growth applied. The claim frequency growth estimates were based on the preliminary 12-month frequency change for accident year 2019 and the WCIRB's claim frequency model forecasts for accident years 2020 and 2021. The severity growth estimates of 0% for indemnity and 1.5% for medical were based on a review of longer-term and more recent indemnity and medical severity growth rates.

Attached for the Committee's review are a number of alternative trending projections based on methodologies that have been included, for informational purposes, in prior advisory pure premium rate filing materials or have been discussed at prior meetings. Specifically, alternative loss ratio projections, based on December 31, 2019 experience, derived using the loss development methodologies reflected in the analysis included in Item AC20-03-02 of this Agenda and the following trending methodologies have been included:

1. Separate Projections of Frequency and Severity (0% Indemnity; 1.5% Medical) Growth Applied to the Latest Year Only – Exhibits 8.1 and 8.2

<sup>2</sup> This methodology was reflected in the California Department of Insurance (CDI) Decision on the January 1, 2020 Pure Premium Rate Filing for the medical loss development projection.

2. Separate Projections of Frequency and the Long-Term (1990 to 2019) Average Severity Growth Applied to the Latest Two Years – Exhibits 9.1 and 9.2
3. Separate Projections of Frequency and the Short-Term (2015 to 2019) Average Severity Growth Applied to the Latest Two Years – Exhibits 10.1 and 10.2
4. Separate Projections of Frequency and Severity (-0.5% Indemnity; 2.5% Medical) Growth Applied to the Latest Two Years – Exhibits 11.1 and 11.2<sup>3</sup>
5. Long-Term (1990 to 2019) On-Level Loss Ratio Exponential Trend Applied to the Latest Two Years' Loss Ratios – Exhibits 12.1 and 12.2
6. Short-Term (2015 to 2019) On-Level Loss Ratio Exponential Trend Applied to the Latest Two Years' Loss Ratios – Exhibits 13.1 and 13.2

A summary of the July 1, 2020 through December 31, 2020 policy period loss ratio projections based on the alternative trending methodologies is shown in Table 2.

**Table 2: Projected Loss Ratios for Policies Incepting between July 1, 2020 and December 31, 2020 Based on Alternative Trending Methodologies**

<b>Trending Methodologies</b>	<b>Indemnity Loss Ratio</b>	<b>Medical Loss Ratio</b>	<b>Total Loss Ratio</b>
<b>4/2/2020 Agenda Methodology</b>			
Separate Projections of Frequency and Severity (0% Indemnity; 1.5% Medical) Applied to the Latest Two Years	<b>0.256</b>	<b>0.305</b>	<b>0.561</b>
<b>Alternative Methodologies</b>			
Separate Projections of Frequency and Severity (0% Indemnity; 1.5% Medical) Applied to the Latest Year	0.257	0.297	0.554
Separate Projections of Frequency and Long-Term (1990 to 2019) Severity Applied to the Latest Two Years	0.263	0.332	0.595
Separate Projections of Frequency and Short-Term (2015 to 2019) Severity Applied to the Latest Two Years	0.251	0.294	0.545
Separate Projections of Frequency and Severity (-0.5% Indemnity; 2.5% Medical) Applied to the Latest Two Years	0.254	0.312	0.566
Long-Term (1990 to 2019) On-level Loss Ratio Exponential Trend Applied to the Latest Two Years	0.265	0.333	0.598
Short-Term (2015 to 2019) On-level Loss Ratio Exponential Trend Applied to the Latest Two Years	0.247	0.293	0.540

<sup>3</sup> This trending methodology was reflected in the January 1, 2020 Pure Premium Rate Filing.

**Developed Loss Ratio Unadjusted 3-Year Average Incurred Development Factors  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Indemnity				Medical				Total Developed Loss Ratio (4) + (8)
	Reported Incurred Loss Ratio Ex IBNR (a)	Annual Development Factor (b)	Cumulative Development Factor	Developed Loss Ratio (1) x (3)	Reported Incurred Loss Ratio Ex IBNR (a)	Annual Development Factor (c)	Cumulative Development Factor	Developed Loss Ratio (5) x (7)	
2008	0.274	1.005	1.027	0.281	0.406	1.004	1.032	0.419	0.700
2009	0.317	1.006	1.033	0.327	0.470	1.005	1.037	0.487	0.815
2010	0.301	1.007	1.040	0.313	0.449	1.006	1.044	0.469	0.783
2011	0.277	1.010	1.051	0.291	0.384	1.010	1.054	0.404	0.695
2012	0.245	1.013	1.064	0.261	0.325	1.009	1.063	0.346	0.607
2013	0.205	1.017	1.082	0.222	0.258	1.013	1.076	0.278	0.500
2014	0.192	1.022	1.106	0.212	0.225	1.015	1.093	0.246	0.458
2015	0.183	1.034	1.143	0.209	0.210	1.027	1.122	0.236	0.445
2016	0.166	1.054	1.206	0.200	0.192	1.035	1.162	0.223	0.423
2017	0.158	1.104	1.331	0.211	0.189	1.063	1.235	0.234	0.444
2018	0.139	1.250	1.664	0.230	0.183	1.130	1.395	0.255	0.486
2019	0.084	1.919	3.193	0.267	0.138	1.463	2.041	0.281	0.548

- (a) Based on AC20-03-02, Exhibit 1. Accident years 2011 and subsequent do not reflect the paid cost of medical cost containment programs (MCCP). Accident years 2010 and prior do reflect paid MCCP costs. No adjustment has been made to MCCP costs in medical reserves.
- (b) Based on AC20-03-02, Exhibit 2.1.
- (c) Based on AC20-03-02, Exhibit 2.2.

**Projected On-Level Accident Year  
Indemnity Loss to Industry Average Filed Pure Premium Ratios  
Using Unadjusted 3-Year Average Incurred Development Factors  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)
	Developed Indemnity Loss Ratio (a)	Composite Indemnity Adjustment Factor (b)	Composite Premium Adjustment Factor (c)	On-Level Indemnity to Industry Average Filed Pure Premium Ratio (1) x (2) ÷ (3)
2008	0.281	1.375	1.293	0.299
2009	0.327	1.348	1.395	0.316
2010	0.313	1.323	1.268	0.327
2011	0.291	1.305	1.158	0.328
2012	0.261	1.289	1.031	0.326
2013	0.222	1.260	0.901	0.311
2014	0.212	1.154	0.830	0.295
2015	0.209	1.138	0.794	0.300
2016	0.200	1.123	0.821	0.274
2017	0.211	1.094	0.861	0.268
2018	0.230	1.063	0.903	0.271
2019	0.267	1.035	1.002	0.276
				Projected (d)
2020				0.267
4/1/2021				0.263

(a) See Exhibit 1.1.

(b) Based on AC20-03-02, Exhibit 4.1.

(c) See AC20-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC20-03-02, Exhibit 6.2, the actual frequency trend for accident year 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 to 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.

**Projected On-Level Accident Year  
Medical Loss to Industry Average Filed Pure Premium Ratios  
Using Unadjusted 3-Year Average Incurred Development Factors  
Based on Experience as of December 31, 2019**

Accident Year	(1) Developed Medical Loss Ratio (a)	(2) Composite Medical Adjustment Factor (b)	(3) Composite Premium Adjustment Factor (c)	(4) On-Level Medical to Industry Average Filed Pure Premium Ratio(e) (1) x (2) ÷ (3)
2008	0.419	0.797	1.293	0.258
2009	0.487	0.786	1.395	0.275
2010	0.469	0.784	1.268	0.290
2011	0.404	0.806	1.158	0.281
2012	0.346	0.841	1.031	0.282
2013	0.278	0.922	0.901	0.284
2014	0.246	0.968	0.830	0.287
2015	0.236	0.989	0.794	0.294
2016	0.223	0.987	0.821	0.268
2017	0.234	0.985	0.861	0.268
2018	0.255	1.009	0.903	0.285
2019	0.281	1.005	1.002	0.282
				Projected (d)
2020				0.283
4/1/2021				0.282

(a) See Exhibit 1.1.

(b) Based on AC20-03-02, Exhibit 4.4.

(c) See AC20-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual medical severity trend from AC20-03-02, Exhibit 6.4, the actual frequency trend for accident year 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 to 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.

(e) Accident years 2011 and subsequent do not reflect paid M CCP costs. Accident years 2010 and prior do reflect paid M CCP costs. No adjustment has been made to M CCP costs in medical reserves.

**Developed Loss Ratio Unadjusted Latest Year Incurred Development Factors  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Indemnity				Medical				Total Developed Loss Ratio (4) + (8)
	Reported Incurred Loss Ratio Ex IBNR (a)	Annual Development Factor (b)	Cumulative Development Factor	Developed Loss Ratio (1) x (3)	Reported Incurred Loss Ratio Ex IBNR (a)	Annual Development Factor (c)	Cumulative Development Factor	Developed Loss Ratio (5) x (7)	
2008	0.274	1.005	1.027	0.281	0.406	1.004	1.032	0.419	0.700
2009	0.317	1.006	1.033	0.327	0.470	1.005	1.037	0.487	0.815
2010	0.301	1.007	1.040	0.313	0.449	1.006	1.044	0.469	0.783
2011	0.277	1.010	1.051	0.291	0.384	1.010	1.054	0.404	0.695
2012	0.245	1.012	1.063	0.261	0.325	1.011	1.065	0.347	0.607
2013	0.205	1.016	1.080	0.222	0.258	1.016	1.082	0.279	0.501
2014	0.192	1.021	1.103	0.212	0.225	1.015	1.099	0.247	0.459
2015	0.183	1.030	1.136	0.208	0.210	1.028	1.129	0.237	0.445
2016	0.166	1.049	1.192	0.198	0.192	1.031	1.164	0.223	0.421
2017	0.158	1.097	1.307	0.207	0.189	1.046	1.218	0.231	0.437
2018	0.139	1.243	1.625	0.225	0.183	1.119	1.363	0.249	0.474
2019	0.084	1.906	3.097	0.259	0.138	1.452	1.979	0.273	0.532

- (a) Based on AC20-03-02, Exhibit 1. Accident years 2011 and subsequent do not reflect the paid cost of medical cost containment programs (MCCP). Accident years 2010 and prior do reflect paid MCCP costs. No adjustment has been made to MCCP costs in medical reserves.
- (b) Based on AC20-03-02, Exhibit 2.1.
- (c) Based on AC20-03-02, Exhibit 2.2.

**Projected On-Level Accident Year  
Indemnity Loss to Industry Average Filed Pure Premium Ratios  
Using Unadjusted Latest Year Incurred Development Factors  
Based on Experience as of December 31, 2019**

Accident Year	(1) Developed Indemnity Loss Ratio (a)	(2) Composite Indemnity Adjustment Factor (b)	(3) Composite Premium Adjustment Factor (c)	(4) On-Level Indemnity to Industry Average Filed Pure Premium Ratio (1) x (2) ÷ (3)
2008	0.281	1.375	1.293	0.299
2009	0.327	1.348	1.395	0.316
2010	0.313	1.323	1.268	0.327
2011	0.291	1.305	1.158	0.328
2012	0.261	1.289	1.031	0.326
2013	0.222	1.260	0.901	0.310
2014	0.212	1.154	0.830	0.295
2015	0.208	1.138	0.794	0.298
2016	0.198	1.123	0.821	0.271
2017	0.207	1.094	0.861	0.263
2018	0.225	1.063	0.903	0.265
2019	0.259	1.035	1.002	0.267
				Projected (d)
2020				0.259
4/1/2021				0.256

(a) See Exhibit 2.1.

(b) Based on AC20-03-02, Exhibit 4.1.

(c) See AC20-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC20-03-02, Exhibit 6.2, the actual frequency trend for accident year 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 to 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.

**Projected On-Level Accident Year  
Medical Loss to Industry Average Filed Pure Premium Ratios  
Using Unadjusted Latest Year Incurred Development Factors  
Based on Experience as of December 31, 2019**

Accident Year	(1) Developed Medical Loss Ratio (a)	(2) Composite Medical Adjustment Factor (b)	(3) Composite Premium Adjustment Factor (c)	(4) On-Level Medical to Industry Average Filed Pure Premium Ratio(e) (1) x (2) ÷ (3)
2008	0.419	0.797	1.293	0.258
2009	0.487	0.786	1.395	0.275
2010	0.469	0.784	1.268	0.290
2011	0.404	0.806	1.158	0.281
2012	0.347	0.841	1.031	0.283
2013	0.279	0.922	0.901	0.286
2014	0.247	0.968	0.830	0.288
2015	0.237	0.989	0.794	0.296
2016	0.223	0.987	0.821	0.268
2017	0.231	0.985	0.861	0.264
2018	0.249	1.009	0.903	0.279
2019	0.273	1.005	1.002	0.274
				Projected (d)
2020				0.275
4/1/2021				0.274

(a) See Exhibit 2.1.

(b) Based on AC20-03-02, Exhibit 4.1.

(c) See AC20-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual medical severity trend from AC20-03-02, Exhibit 6.4, the actual frequency trend for accident year 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 to 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.

(e) Accident years 2011 and subsequent do not reflect paid M CCP costs. Accident years 2010 and prior do reflect paid M CCP costs. No adjustment has been made to M CCP costs in medical reserves.

**Incurred Indemnity Loss Development Factors  
Adjusted for Changes in Case Reserve Adequacy**

A. Indemnity Case Reserves Per Open Claim

Accident Year	Evaluated as of (in months)												
	12	24	36	48	60	72	84	96	108	120	132	144	156
2001													
2002													25,719
2003												34,670	34,743
2004											30,317	31,931	34,759
2005										27,313	28,034	30,573	33,298
2006									26,510	27,400	30,606	31,755	34,821
2007								26,267	27,921	30,972	32,405	35,062	42,482
2008							22,951	25,570	29,539	32,542	35,369	39,541	
2009						20,892	22,444	25,620	28,691	31,761	36,106		
2010					17,765	19,699	21,979	24,472	27,560	31,789			
2011				17,042	18,643	20,612	22,833	25,678	28,680				
2012			14,611	15,974	18,208	20,657	24,134	28,161					
2013		12,377	14,062	15,513	17,281	19,642	23,554						
2014	8,341	12,526	14,761	16,921	19,948	22,374							
2015	8,686	13,446	16,147	18,907	21,727								
2016	8,918	13,797	16,673	19,731									
2017	9,333	14,953	18,829										
2018	9,929	15,970											
2019	10,399												

B. Average Paid Indemnity per Closed Claim

Accident Year	Evaluated as of (in months)												
	12	24	36	48	60	72	84	96	108	120	132	144	156
2001													
2002													21,840
2003												21,352	21,804
2004											17,040	17,524	17,964
2005										14,917	15,487	15,993	16,374
2006									15,779	16,536	17,219	17,701	18,157
2007								16,253	17,195	18,063	18,723	19,225	19,711
2008							17,002	18,254	19,240	19,975	20,637	21,163	
2009						16,400	18,101	19,448	20,403	21,212	21,950		
2010					14,683	16,708	18,412	19,627	20,474	21,187			
2011				12,232	14,924	16,888	18,408	19,546	20,410				
2012			9,146	12,589	15,144	17,050	18,343	19,387					
2013		5,342	9,556	12,986	15,445	17,104	18,240						
2014	2,131	5,630	10,179	13,784	16,343	17,936							
2015	2,340	6,177	10,887	14,485	16,884								
2016	2,493	6,545	11,027	14,468									
2017	2,591	6,644	11,132										
2018	2,872	7,019											
2019	3,113												

C. Annual Change of Average Paid Indemnity per Closed Claim

Accident Year	Evaluated as of (in months)												
	12	24	36	48	60	72	84	96	108	120	132	144	156
2002													
2003													-0.2%
2004												-17.9%	-17.6%
2005											-9.1%	-8.7%	-8.8%
2006										10.9%	11.2%	10.7%	10.9%
2007									9.0%	9.2%	8.7%	8.6%	8.6%
2008								12.3%	11.9%	10.6%	10.2%	10.1%	
2009							6.5%	6.5%	6.0%	6.2%	6.4%		
2010						1.9%	1.7%	0.9%	0.3%	-0.1%			
2011					1.6%	1.1%	0.0%	-0.4%	-0.3%				
2012				2.9%	1.5%	1.0%	-0.4%	-0.8%					
2013			4.5%	3.2%	2.0%	0.3%	-0.6%						
2014		5.4%	6.5%	6.1%	5.8%	4.9%							
2015	9.8%	9.7%	7.0%	5.1%	3.3%								
2016	6.5%	6.0%	1.3%	-0.1%									
2017	3.9%	1.5%	1.0%										
2018	10.9%	5.7%											
2019	8.4%												

Source: Accident year experience of insurers with available claim count data

**Incurred Indemnity Loss Development Factors  
Adjusted for Changes in Case Reserve Adequacy**

D. Indemnity Case Reserves per Open Claim Adjusted by Paid Indemnity Severity Trend (a)

Accident Year	Evaluated as of (in months)												
	12	24	36	48	60	72	84	96	108	120	132	144	156
2001													
2002													47,071
2003												39,893	46,993
2004											28,031	32,740	38,717
2005										22,382	25,476	29,881	35,291
2006									22,173	24,812	28,324	33,072	39,133
2007								23,608	24,163	27,103	30,799	35,920	42,482
2008							21,954	26,515	27,036	29,972	33,947	39,541	
2009						20,458	23,373	28,248	28,671	31,828	36,106		
2010					18,894	20,842	23,775	28,508	28,770	31,789			
2011				16,683	19,205	21,066	23,770	28,391	28,680				
2012			15,469	17,169	19,487	21,269	23,686	28,161					
2013		12,154	16,162	17,710	19,875	21,337	23,554						
2014	7,120	12,810	17,216	18,798	21,030	22,374							
2015	7,816	14,053	18,414	19,755	21,727								
2016	8,328	14,891	18,651	19,731									
2017	8,654	15,115	18,829										
2018	9,594	15,970											
2019	10,399												

E. Indemnity Open Claim Counts

Accident Year	Evaluated as of (in months)												
	12	24	36	48	60	72	84	96	108	120	132	144	156
2001													
2002													7,028
2003												7,616	6,670
2004											7,470	6,339	5,157
2005										7,817	6,384	5,096	4,157
2006									9,337	7,595	5,942	4,779	3,848
2007								11,269	8,862	6,752	5,260	4,212	3,320
2008							13,800	10,449	7,803	6,045	4,668	3,683	
2009						17,584	13,002	9,363	7,052	5,327	4,042		
2010					22,819	16,517	11,605	8,390	6,169	4,609			
2011				30,931	21,672	15,244	10,632	7,464	5,434				
2012			45,182	31,083	21,252	14,501	9,940	6,957					
2013		66,306	46,671	30,936	20,262	13,547	9,095						
2014	80,995	67,946	46,853	30,307	19,255	12,894							
2015	82,731	69,100	45,535	28,017	17,625								
2016	82,307	66,484	42,604	25,856									
2017	82,171	63,055	39,555										
2018	82,522	64,135											
2019	83,913												

F. Total Indemnity Case Reserves Adjusted by Paid Indemnity Severity Trend (in \$000) (b)

Accident Year	Evaluated as of (in months)												
	12	24	36	48	60	72	84	96	108	120	132	144	156
2001													
2002													330,822
2003												303,838	313,452
2004											209,390	207,547	199,666
2005										174,967	162,641	152,275	146,705
2006									207,022	188,450	168,307	158,053	150,585
2007								266,030	214,143	183,005	162,003	151,294	141,041
2008							302,978	277,058	210,964	181,180	158,464	145,628	
2009					359,724	303,903	264,491	202,188	169,546	145,942			
2010				431,157	344,248	275,908	239,186	177,484	146,516				
2011				516,010	416,201	321,133	252,724	211,914	155,848				
2012			698,930	533,655	414,141	308,417	235,436	195,914					
2013		805,887	754,290	547,889	402,701	289,047	214,221						
2014	576,673	870,378	806,644	569,726	404,935	288,493							
2015	646,657	971,046	838,502	553,465	382,930								
2016	685,465	990,007	794,589	510,170									
2017	711,098	953,073	744,770										
2018	791,700	1,024,227											
2019	872,600												

(a) Latest evaluation of each accident year is unadjusted. Evaluations prior to the latest evaluation are determined by adjusting the latest accident year average indemnity case reserves by a different annual change applied at each individual accident year and maturity based on the change in paid losses per closed claim for that age and maturity (Item C)

(b) Each amount is derived as the product of the indemnity open claim counts (Item E) and the adjusted average indemnity case reserves per open claim (Item D).

Source: Accident year experience of insurers with available claim count data

**Incurred Indemnity Loss Development Factors  
Adjusted for Changes in Case Reserve Adequacy**

G. Paid Indemnity Loss on All Claims

Accident Year	Evaluated as of (in months)												
	12	24	36	48	60	72	84	96	108	120	132	144	156
2001													
2002													4,684,245
2003												4,425,545	4,476,853
2004										3,057,334	3,101,655	3,135,355	
2005									2,370,527	2,419,539	2,455,625	2,487,514	
2006								2,408,402	2,471,921	2,517,278	2,557,909	2,589,327	
2007							2,475,108	2,555,457	2,624,824	2,676,307	2,718,337	2,753,934	
2008						2,482,226	2,583,865	2,655,111	2,716,084	2,764,247	2,804,601		
2009					2,251,453	2,386,697	2,490,876	2,567,842	2,626,204	2,680,729			
2010				2,121,098	2,308,352	2,446,776	2,540,160	2,609,064	2,667,565				
2011			1,854,349	2,110,271	2,291,910	2,419,938	2,519,359	2,587,950					
2012		1,548,223	1,945,868	2,211,052	2,404,799	2,527,398	2,616,744						
2013	1,039,468	1,663,918	2,093,893	2,363,619	2,533,548	2,645,666							
2014	346,992	1,112,287	1,820,535	2,286,288	2,580,265	2,764,101							
2015	370,818	1,216,216	1,967,544	2,446,747	2,738,176								
2016	391,984	1,268,200	2,011,854	2,475,132									
2017	410,067	1,306,272	2,049,971										
2018	446,982	1,389,895											
2019	474,399												

H. Adjusted Total Indemnity Incurred (in \$000) (c)

Accident Year	Evaluated as of (in months)												
	12	24	36	48	60	72	84	96	108	120	132	144	156
2001													
2002													5,015,068
2003												4,729,383	4,790,305
2004										3,266,724	3,309,202	3,335,020	
2005									2,545,494	2,582,181	2,607,900	2,634,219	
2006								2,615,424	2,660,371	2,685,585	2,715,961	2,739,913	
2007							2,741,138	2,769,600	2,807,829	2,838,310	2,869,631	2,894,975	
2008						2,785,204	2,860,924	2,866,075	2,897,264	2,922,711	2,950,229		
2009					2,611,177	2,690,600	2,755,366	2,770,030	2,795,750	2,826,672			
2010				2,552,255	2,652,599	2,722,685	2,779,346	2,786,549	2,814,081				
2011			2,370,359	2,526,473	2,613,043	2,672,662	2,731,273	2,743,798					
2012		2,247,153	2,479,523	2,625,193	2,713,216	2,762,834	2,812,658						
2013	1,845,355	2,418,208	2,641,783	2,766,320	2,822,595	2,859,887							
2014	923,665	1,982,665	2,627,178	2,856,015	2,985,199	3,052,594							
2015	1,017,475	2,187,262	2,806,046	3,000,211	3,121,106								
2016	1,077,449	2,258,207	2,806,443	2,985,302									
2017	1,121,166	2,259,344	2,794,741										
2018	1,238,681	2,414,122											
2019	1,346,999												

I. Indemnity Incurred Loss Development Factors Based on Adjusted Total Indemnity Incurred

Accident Year	Age-to-Age Development (in months):											
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156
2002												
2003												1.013
2004											1.013	1.008
2005										1.014	1.010	1.010
2006									1.017	1.009	1.011	1.009
2007								1.010	1.014	1.011	1.011	1.009
2008							1.027	1.002	1.011	1.009	1.009	
2009						1.030	1.024	1.005	1.009	1.011		
2010					1.039	1.026	1.021	1.003	1.010			
2011				1.066	1.034	1.023	1.022	1.005				
2012			1.103	1.059	1.034	1.018	1.018					
2013		1.310	1.092	1.047	1.020	1.013						
2014	2.147	1.325	1.087	1.045	1.023							
2015	2.150	1.283	1.069	1.040								
2016	2.096	1.243	1.064									
2017	2.015	1.237										
2018	1.949											
Latest Yea	1.949	1.237	1.064	1.040	1.023	1.013	1.018	1.005	1.010	1.011	1.009	1.009
3-Yr Avera	2.020	1.254	1.073	1.044	1.025	1.018	1.020	1.004	1.010	1.010	1.011	1.009

(c) Each amount is the sum of the adjusted total indemnity case reserves (Item F) and the total indemnity paid losses (Item G).

Source: Accident year experience of insurers with available claim count data

**Incurred Indemnity Loss Development Factors  
Adjusted for Changes in Case Reserve Adequacy**

J. Indemnity Incurred Loss Development Factors (d)

Accident Year	Age-to-Age Development (in months):											
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156
2002												
2003												1.004
2004											1.006	1.003
2005										1.006	1.005	1.006
2006									1.009	1.007	1.004	1.005
2007								1.011	1.011	1.005	1.007	1.010
2008							1.019	1.012	1.009	1.006	1.007	
2009						1.023	1.019	1.014	1.009	1.011		
2010					1.042	1.026	1.016	1.012	1.013			
2011				1.056	1.037	1.022	1.018	1.012				
2012			1.106	1.064	1.041	1.023	1.016					
2013		1.247	1.109	1.054	1.032	1.022						
2014	1.920	1.279	1.114	1.059	1.030							
2015	1.969	1.260	1.101	1.049								
2016	1.941	1.246	1.097									
2017	1.911	1.243										
2018	1.906											

K. Impact of Adjustments to Common Case Reserve Level (e)

Accident Year	Age-to-Age Development (in months):											
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156
2002												
2003												0.88%
2004											0.68%	0.46%
2005										0.88%	0.50%	0.45%
2006									0.80%	0.23%	0.74%	0.38%
2007								-0.11%	0.27%	0.63%	0.42%	-0.13%
2008							0.84%	-1.02%	0.14%	0.31%	0.23%	
2009						0.74%	0.45%	-0.90%	0.02%	-0.01%		
2010					-0.30%	0.05%	0.46%	-0.95%	-0.27%			
2011				0.96%	-0.22%	0.11%	0.37%	-0.74%				
2012			-0.23%	-0.47%	-0.71%	-0.49%	0.16%					
2013		5.06%	-1.52%	-0.69%	-1.10%	-0.81%						
2014	11.79%	3.56%	-2.43%	-1.30%	-0.70%							
2015	9.17%	1.83%	-2.91%	-0.79%								
2016	7.98%	-0.23%	-3.00%									
2017	5.45%	-0.45%										
2018	2.23%											

L. Indemnity Incurred Loss Development Factors Adjusted for Changes in Case Reserve Adequacy (f)

Accident Year	Age-to-Age Development (in months):											
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156
2002												
2003												1.013
2004											1.014	1.008
2005										1.015	1.010	1.011
2006									1.017	1.009	1.011	1.009
2007								1.011	1.014	1.011	1.011	1.009
2008							1.028	1.002	1.010	1.009	1.009	
2009						1.032	1.024	1.005	1.009	1.011		
2010					1.042	1.027	1.021	1.002	1.009			
2011				1.071	1.035	1.023	1.022	1.004				
2012			1.110	1.058	1.034	1.018	1.018					
2013		1.323	1.094	1.048	1.021	1.013						
2014	2.191	1.324	1.088	1.045	1.023							
2015	2.149	1.283	1.069	1.041								
2016	2.096	1.243	1.064									
2017	2.015	1.237										
2018	1.949											
3-Year Average	2.020	1.255	1.074	1.045	1.026	1.018	1.020	1.004	1.010	1.010	1.011	1.009

(d) Development factors are from the same insurer mix as those which have been adjusted for case reserve level adequacy and applied in the calculation of the development factors in Item I.

(e) Each factor represents the change in age-to-age development factors from Item J to those in Item I.

(f) Each factor is the product of [1.0 + the impact of adjustments to common case reserve level (Item K)] and [the incurred indemnity age-to-age development factors from AC20-03-02, Exhibit 2.1.1].

Source: Accident year experience of insurers with available claim count data

**Incurred Medical Loss Development Factors  
Adjusted for Changes in Case Reserve Adequacy**

A. Medical Case Reserves Per Open Indemnity Claim

Accident Year	Evaluated as of (in months)												
	12	24	36	48	60	72	84	96	108	120	132	144	156
2001													
2002													92,969
2003												87,069	88,378
2004											78,327	81,909	88,648
2005										73,010	76,309	86,305	88,737
2006									65,017	70,818	76,092	79,868	90,837
2007								60,319	68,802	76,154	88,306	93,725	106,075
2008							50,701	60,365	70,004	76,644	86,209	97,349	
2009						41,992	49,013	58,254	65,325	74,424	88,608		
2010					34,398	40,154	46,811	52,919	59,682	68,931			
2011				30,488	37,327	42,637	48,946	55,891	65,182				
2012			24,094	28,145	33,393	39,763	46,412	56,364					
2013		19,744	22,666	27,154	31,976	37,509	45,575						
2014	14,993	18,573	21,903	26,362	31,537	37,839							
2015	15,563	19,317	23,881	29,381	36,031								
2016	15,998	20,261	24,972	30,125									
2017	16,886	21,477	27,007										
2018	17,705	22,514											
2019	17,785												

B. Average Paid Medical Loss Per Closed Indemnity Claim (a)

Accident Year	Evaluated as of (in months)												
	12	24	36	48	60	72	84	96	108	120	132	144	156
2001													
2002													22,166
2003												20,860	21,595
2004											18,289	19,156	19,934
2005										17,965	19,077	20,056	20,764
2006									18,869	20,189	21,375	22,287	23,058
2007								19,989	21,643	23,143	24,212	25,144	26,027
2008							20,742	22,676	24,299	25,486	26,571	27,545	
2009						20,212	22,704	24,771	26,158	27,626	28,729		
2010					17,928	20,785	23,425	25,279	26,625	27,731			
2011				13,883	17,251	20,220	22,413	24,070	25,263				
2012			9,987	13,786	17,040	19,391	21,096	22,408					
2013		5,729	9,997	13,615	16,510	18,543	19,934						
2014	2,370	5,800	10,051	13,659	16,359	18,142							
2015	2,503	6,242	10,430	13,848	16,219								
2016	2,709	6,471	10,486	13,493									
2017	2,835	6,648	10,632										
2018	2,972	6,953											
2019	3,367												

C. Annual Change of Average Paid Medical per Closed Claim (b)

Accident Year	Evaluated as of (in months)												
	12	24	36	48	60	72	84	96	108	120	132	144	156
2002													
2003													-2.6%
2004												-8.2%	-7.7%
2005											4.3%	4.7%	4.2%
2006										12.4%	12.0%	11.1%	11.0%
2007									14.7%	14.6%	13.3%	12.8%	12.9%
2008								13.4%	12.3%	10.1%	9.7%	9.5%	
2009							9.5%	9.2%	7.7%	8.4%	8.1%		
2010						5.3%	5.2%	4.8%	4.5%	4.6%			
2011					3.7%	3.6%	2.9%	2.7%	2.6%				
2012				-2.2%	-2.8%	-3.8%	-4.1%	-4.4%					
2013			0.1%	-1.2%	-3.1%	-4.4%	-5.5%						
2014		1.2%	0.5%	0.3%	-0.9%	-2.2%							
2015	5.6%	7.6%	3.8%	1.4%	-0.9%								
2016	8.2%	3.7%	0.5%	-2.6%									
2017	4.6%	2.7%	1.4%										
2018	4.8%	4.6%											
2019	13.3%												

(a) Paid medical per closed claim severities for accident year 2010 and 2011 only reflect the paid cost of medical cost containment programs (MCCP) attributable to policies with effective dates prior to July 1, 2010.

(b) The annual changes for accident year 2010, 2011 and 2012 are based on paid medical per total claim for consistency and do not compare to the severities in item B.

Source: Accident year experience of insurers with available claim count data

**Incurred Medical Loss Development Factors  
Adjusted for Changes in Case Reserve Adequacy**

D. Medical Case Reserves per Open Claim Adjusted by Paid Medical Severity Trend (c)

Accident Year	Evaluated as of (in months)												
	12	24	36	48	60	72	84	96	108	120	132	144	156
2001													
2002													90,339
2003												73,725	88,011
2004											56,409	67,701	81,242
2005										42,846	58,839	70,882	84,625
2006									43,836	48,151	65,928	78,768	93,973
2007								44,208	50,279	55,196	74,678	88,866	106,075
2008							42,485	50,149	56,449	60,784	81,953	97,349	
2009						38,525	46,503	54,783	60,769	65,889	88,608		
2010					37,556	40,553	48,905	57,422	63,516	68,931			
2011				31,487	38,943	42,026	50,307	58,972	65,182				
2012			25,369	30,780	37,856	40,445	48,231	56,364					
2013		18,552	25,393	30,398	36,680	38,675	45,575						
2014	12,520	18,779	25,532	30,495	36,343	37,839							
2015	13,223	20,213	26,495	30,918	36,031								
2016	14,312	20,955	26,636	30,125									
2017	14,976	21,526	27,007										
2018	15,699	22,514											
2019	17,785												

E. Total Medical Case Reserves Adjusted by Paid Medical Severity Trend (in \$000) (d)

Accident Year	Evaluated as of (in months)												
	12	24	36	48	60	72	84	96	108	120	132	144	156
2001													
2002													634,922
2003												561,509	587,047
2004											421,377	429,167	418,974
2005										334,936	375,640	361,222	351,792
2006									409,278	365,721	391,754	376,435	361,608
2007								498,174	445,589	372,692	392,811	374,302	352,170
2008							586,310	524,014	440,477	367,440	382,558	358,535	
2009						677,400	604,647	512,941	428,543	350,991	358,153		
2010					856,991	669,820	567,539	481,768	391,828	317,705			
2011				973,928	843,984	640,647	534,861	440,171	354,200				
2012			1,146,201	956,744	804,509	586,494	479,416	392,125					
2013		1,230,125	1,185,107	940,393	743,201	523,933	414,504						
2014	1,014,015	1,275,988	1,196,251	924,222	699,776	487,901							
2015	1,093,923	1,396,751	1,206,442	866,238	635,047								
2016	1,177,952	1,393,139	1,134,790	778,921									
2017	1,230,589	1,357,316	1,068,253										
2018	1,295,494	1,443,929											
2019	1,492,418												

F. Paid Medical Loss on All Claims

Accident Year	Evaluated as of (in months)												
	12	24	36	48	60	72	84	96	108	120	132	144	156
2001													
2002													5,228,217
2003												4,789,352	4,878,759
2004											3,751,193	3,840,952	3,908,499
2005										3,315,974	3,419,873	3,492,583	3,558,089
2006									3,371,562	3,486,484	3,573,170	3,646,143	3,700,639
2007								3,542,082	3,686,110	3,800,447	3,883,879	3,959,940	4,020,456
2008							3,476,376	3,653,078	3,781,564	3,884,023	3,955,052	4,021,333	
2009					3,180,482	3,392,806	3,548,718	3,663,174	3,750,409	3,827,179			
2010					2,978,552	3,261,460	3,478,316	3,623,894	3,729,043	3,820,429			
2011				2,445,280	2,801,507	3,073,865	3,256,406	3,393,006	3,492,409				
2012			1,976,084	2,457,319	2,804,144	3,046,646	3,216,179	3,341,181					
2013		1,379,136	2,017,923	2,491,220	2,812,394	3,025,244	3,171,494						
2014	571,472	1,429,479	2,089,809	2,558,745	2,865,835	3,082,618							
2015	597,466	1,513,420	2,177,265	2,650,739	2,945,665								
2016	636,460	1,578,568	2,225,604	2,663,183									
2017	690,162	1,637,485	2,278,379										
2018	732,758	1,742,292											
2019	729,710												

(c) Latest evaluation of each accident year is unadjusted. Evaluations prior to the latest evaluation are determined by adjusting the latest accident year average medical case reserves by a different annual change applied at each individual accident year and maturity based on the change in paid losses per closed claim for that age and maturity (Item C)

(d) Each amount is derived as the product of the indemnity open claim counts (Exhibit 3.2, Item E) and the adjusted average medical case reserves per open claim (Item D).

Source: Accident year experience of insurers with available claim count data

**Incurred Medical Loss Development Factors  
Adjusted for Changes in Case Reserve Adequacy**

G. Adjusted Total Medical Incurred (in \$000) (e)

Accident Year	Evaluated as of (in months)												
	12	24	36	48	60	72	84	96	108	120	132	144	156
2001													
2002													5,863,139
2003												5,350,860	5,465,807
2004										4,172,571	4,270,119	4,327,474	
2005									3,650,910	3,795,513	3,853,805	3,909,881	
2006								3,780,840	3,852,205	3,964,925	4,022,578	4,062,247	
2007							4,040,257	4,131,699	4,173,138	4,276,690	4,334,242	4,372,626	
2008						4,062,687	4,177,093	4,222,041	4,251,463	4,337,609	4,379,867		
2009					3,857,883	3,997,453	4,061,659	4,091,717	4,101,400	4,185,332			
2010				3,835,543	3,931,280	4,045,855	4,105,662	4,120,871	4,138,134				
2011			3,419,208	3,645,490	3,714,512	3,791,267	3,833,176	3,846,609					
2012		3,122,285	3,414,063	3,608,653	3,633,140	3,695,595	3,733,306						
2013	2,609,261	3,203,030	3,431,614	3,555,595	3,549,177	3,585,998							
2014	1,585,487	2,705,467	3,286,060	3,482,968	3,565,611	3,570,520							
2015	1,691,389	2,910,171	3,383,707	3,516,977	3,580,712								
2016	1,814,411	2,971,707	3,360,394	3,442,105									
2017	1,920,751	2,994,801	3,346,632										
2018	2,028,252	3,186,222											
2019	2,222,127												

H. Medical Incurred Loss Development Factors Based on Adjusted Total Medical Incurred

Accident Year	Age-to-Age Development (in months):											
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156
2002												
2003												1.021
2004											1.023	1.013
2005										1.040	1.015	1.015
2006									1.019	1.029	1.015	1.010
2007								1.023	1.010	1.025	1.013	1.009
2008							1.028	1.011	1.007	1.020	1.010	
2009						1.036	1.016	1.007	1.002	1.020		
2010					1.025	1.029	1.015	1.004	1.004			
2011				1.066	1.019	1.021	1.011	1.004				
2012			1.093	1.057	1.007	1.017	1.010					
2013		1.228	1.071	1.036	0.998	1.010						
2014	1.706	1.215	1.060	1.024	1.001							
2015	1.721	1.163	1.039	1.018								
2016	1.638	1.131	1.024									
2017	1.559	1.117										
2018	1.571											
Latest Yea	1.571	1.117	1.024	1.018	1.001	1.010	1.010	1.004	1.004	1.020	1.010	1.009
3-Yr Avera	1.589	1.137	1.041	1.026	1.002	1.016	1.012	1.005	1.005	1.022	1.013	1.011

I. Medical Incurred Loss Development Factors (f)

Accident Year	Age-to-Age Development (in months):											
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156
2002												
2003												1.003
2004											1.006	1.001
2005										1.005	1.006	0.999
2006									1.012	1.000	1.001	1.006
2007								1.018	1.004	1.008	1.001	1.004
2008							1.026	1.010	1.005	1.002	1.005	
2009						1.028	1.016	1.007	1.006	1.009		
2010					1.043	1.025	1.012	1.007	1.010			
2011				1.066	1.031	1.014	1.009	1.010				
2012			1.087	1.055	1.031	1.015	1.015					
2013		1.144	1.083	1.039	1.021	1.015						
2014	1.507	1.158	1.078	1.034	1.028							
2015	1.511	1.146	1.064	1.031								
2016	1.498	1.124	1.046									
2017	1.440	1.119										
2018	1.452											

(e) Each amount is the sum of the adjusted total medical case reserves (Item E) and the total medical paid losses (Item F).

(f) Development factors are from the same insurer mix as those which have been adjusted for case reserve level adequacy and applied in the calculation of the development factors in Item H.

Source: Accident year experience of insurers with available claim count data

**Incurred Medical Loss Development Factors  
Adjusted for Changes in Case Reserve Adequacy**

J. Impact of Adjustments to Common Case Reserve Level (g)

Accident Year	Age-to-Age Development (in months):											
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156
2002												
2003												1.85%
2004											1.78%	1.22%
2005										3.42%	0.88%	1.60%
2006									0.73%	2.90%	1.39%	0.43%
2007								0.50%	0.56%	1.69%	1.20%	0.47%
2008							0.23%	0.05%	0.24%	1.79%	0.46%	
2009						0.76%	0.02%	0.01%	-0.32%	1.11%		
2010					-1.71%	0.44%	0.32%	-0.35%	-0.57%			
2011				0.06%	-1.21%	0.63%	0.22%	-0.60%				
2012			0.57%	0.23%	-2.36%	0.22%	-0.49%					
2013		7.29%	-1.08%	-0.25%	-2.25%	-0.45%						
2014	13.22%	4.91%	-1.64%	-1.03%	-2.59%							
2015	13.87%	1.44%	-2.32%	-1.22%								
2016	9.35%	0.57%	-2.11%									
2017	8.28%	-0.10%										
2018	8.16%											

K. Medical Incurred Loss Development Factors Adjusted for Changes in Case Reserve Adequacy (h)

Accident Year	Age-to-Age Development (in months):											
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156
2002												1.022
2003												1.013
2004											1.024	1.015
2005										1.040	1.015	1.015
2006									1.019	1.029	1.015	1.010
2007								1.023	1.010	1.025	1.013	1.009
2008							1.028	1.010	1.007	1.020	1.010	
2009						1.038	1.016	1.007	1.003	1.020		
2010					1.027	1.029	1.015	1.004	1.004			
2011				1.070	1.022	1.022	1.012	1.005				
2012			1.098	1.058	1.007	1.017	1.011					
2013		1.234	1.074	1.036	0.999	1.010						
2014	1.724	1.216	1.061	1.024	1.001							
2015	1.721	1.162	1.039	1.018								
2016	1.638	1.130	1.024									
2017	1.559	1.118										
2018	1.571											
3-Year Average	1.589	1.137	1.042	1.026	1.002	1.017	1.013	1.006	1.005	1.022	1.013	1.011

(g) Each factor represents the change in age-to-age development factors from Item I to those in Item H.

(h) Each factor is the product of [1.0 + the impact of adjustments to common case reserve level (Item J)] and [the incurred Medical age-to-age development factors from AC20-03-02, Exhibit 2.2.1].

Source: Accident year experience of insurers with available claim count data

**Developed Loss Ratio 3-Year Average Incurred Development Factors  
Adjusted for Changes in Average Case Reserve Levels  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Indemnity				Medical				Total Developed Loss Ratio (4) + (8)
	Reported Incurred Loss Ratio Ex IBNR (a)	Annual Development Factor (b)	Cumulative Development Factor	Developed Loss Ratio (1) x (3)	Reported Incurred Loss Ratio Ex IBNR (a)	Annual Development Factor (c)	Cumulative Development Factor	Developed Loss Ratio (5) x (7)	
2008	0.274	1.009	1.031	0.282	0.406	1.011	1.040	0.422	0.704
2009	0.317	1.011	1.042	0.330	0.470	1.013	1.053	0.494	0.825
2010	0.301	1.010	1.052	0.317	0.449	1.022	1.076	0.484	0.801
2011	0.277	1.010	1.063	0.294	0.384	1.005	1.081	0.415	0.709
2012	0.245	1.004	1.067	0.262	0.325	1.006	1.087	0.354	0.615
2013	0.205	1.020	1.089	0.224	0.258	1.013	1.101	0.284	0.508
2014	0.192	1.018	1.109	0.213	0.225	1.017	1.119	0.252	0.465
2015	0.183	1.025	1.137	0.208	0.210	1.002	1.122	0.236	0.444
2016	0.166	1.044	1.187	0.197	0.192	1.026	1.151	0.221	0.418
2017	0.158	1.073	1.274	0.201	0.189	1.042	1.199	0.227	0.429
2018	0.139	1.254	1.598	0.221	0.183	1.137	1.364	0.249	0.471
2019	0.084	2.020	3.228	0.270	0.138	1.589	2.167	0.299	0.568

- (a) Based on AC20-03-02, Exhibit 1. Accident years 2011 and subsequent do not reflect the paid cost of medical cost containment programs (MCCP). Accident years 2010 and prior do reflect paid MCCP costs. No adjustment has been made to MCCP costs in medical reserves.
- (b) Age-to-age factors for developing accident years 2008 to 2019 were adjusted for changes in indemnity case reserve levels based on 3-year average selections (see Exhibit 3.4, Item L).
- (c) Age-to-age factors for developing accident years 2008 to 2019 were adjusted for changes in medical case reserve levels based on 3-year average selections (see Exhibit 3.8, Item K).

**Projected On-Level Accident Year  
Indemnity Loss to Industry Average Filed Pure Premium Ratios  
Using 3-Year Average Incurred Development Factors  
Adjusted for Changes in Average Case Reserve Levels  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)
	Developed Indemnity Loss Ratio (a)	Composite Indemnity Adjustment Factor (b)	Composite Premium Adjustment Factor (c)	On-Level Indemnity to Industry Average Filed Pure Premium Ratio (1) x (2) ÷ (3)
2008	0.282	1.375	1.293	0.300
2009	0.330	1.348	1.395	0.319
2010	0.317	1.323	1.268	0.331
2011	0.294	1.305	1.158	0.332
2012	0.262	1.289	1.031	0.327
2013	0.224	1.260	0.901	0.313
2014	0.213	1.154	0.830	0.296
2015	0.208	1.138	0.794	0.298
2016	0.197	1.123	0.821	0.270
2017	0.201	1.094	0.861	0.256
2018	0.221	1.063	0.903	0.261
2019	0.270	1.035	1.002	0.279
				Projected (d)
2020				0.263
4/1/2021				0.259

(a) See Exhibit 3.9.

(b) Based on AC20-03-02, Exhibit 4.1.

(c) See AC20-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC20-03-02, Exhibit 6.2, the actual frequency trend for accident year 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 to 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.

**Projected On-Level Accident Year  
Medical Loss to Industry Average Filed Pure Premium Ratios  
Using 3-Year Average Incurred Development Factors  
Adjusted for Changes in Average Case Reserve Levels  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)
	Developed Medical Loss Ratio (a)	Composite Medical Adjustment Factor (b)	Composite Premium Adjustment Factor (c)	On-Level Medical to Industry Average Filed Pure Premium Ratio(e) (1) x (2) ÷ (3)
2008	0.422	0.797	1.293	0.260
2009	0.494	0.786	1.395	0.279
2010	0.484	0.784	1.268	0.299
2011	0.415	0.806	1.158	0.289
2012	0.354	0.841	1.031	0.289
2013	0.284	0.922	0.901	0.291
2014	0.252	0.968	0.830	0.294
2015	0.236	0.989	0.794	0.294
2016	0.221	0.987	0.821	0.266
2017	0.227	0.985	0.861	0.260
2018	0.249	1.009	0.903	0.279
2019	0.299	1.005	1.002	0.300
				Projected (d)
2020				0.288
4/1/2021				0.287

(a) See Exhibit 3.9.

(b) Based on AC20-03-02, Exhibit 4.4.

(c) See AC20-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual medical severity trend from AC20-03-02, Exhibit 6.4, the actual frequency trend for accident year 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 to 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.

(e) Accident years 2011 and subsequent do not reflect paid MCCP costs. Accident years 2010 and prior do reflect paid MCCP costs. No adjustment has been made to MCCP costs in medical reserves.

**Developed Loss Ratio Unadjusted 3-Year Average Paid Development Factors  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Indemnity				Medical				Total Developed Loss Ratio (4) + (8)
	Reported Paid Loss Ratio (a)	Annual Development Factor (b)	Cumulative Development Factor	Developed Loss Ratio (1) x (3)	Reported Paid Loss Ratio (a)	Annual Development Factor (c)	Cumulative Development Factor	Developed Loss Ratio (5) x (7)	
2008	0.260	1.013	1.092	0.284	0.373	1.016	1.226	0.457	0.741
2009	0.301	1.016	1.109	0.333	0.429	1.019	1.249	0.536	0.870
2010	0.286	1.020	1.131	0.323	0.415	1.020	1.274	0.529	0.852
2011	0.261	1.023	1.156	0.302	0.349	1.025	1.306	0.455	0.758
2012	0.228	1.028	1.189	0.272	0.292	1.030	1.346	0.393	0.664
2013	0.190	1.038	1.234	0.235	0.229	1.041	1.401	0.320	0.555
2014	0.174	1.050	1.296	0.226	0.195	1.054	1.477	0.287	0.513
2015	0.161	1.077	1.396	0.224	0.173	1.080	1.595	0.275	0.500
2016	0.138	1.126	1.571	0.217	0.148	1.121	1.787	0.265	0.482
2017	0.116	1.244	1.954	0.227	0.129	1.214	2.169	0.280	0.506
2018	0.080	1.591	3.109	0.248	0.100	1.413	3.066	0.307	0.554
2019	0.029	3.176	9.875	0.291	0.045	2.410	7.390	0.335	0.625

- (a) Based on AC20-03-02, Exhibit 1. Accident years 2011 and subsequent do not reflect the paid cost of medical cost containment programs (MCCP). Accident years 2010 and prior do reflect paid MCCP costs.
- (b) Age-to-age factors are selected as three-year averages based on AC20-03-02, Exhibit 2.5.
- (c) Age-to-age factors are selected as three-year averages based on AC20-03-02, Exhibit 2.6. These factors have not been adjusted for any reforms.

**Projected On-Level Accident Year  
Indemnity Loss to Industry Average Filed Pure Premium Ratios  
Using Unadjusted 3-Year Average Paid Development Factors  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)
	Developed Indemnity Loss Ratio (a)	Composite Indemnity Adjustment Factor (b)	Composite Premium Adjustment Factor (c)	On-Level Indemnity to Industry Average Filed Pure Premium Ratio (1) x (2) ÷ (3)
2008	0.284	1.375	1.293	0.302
2009	0.333	1.348	1.395	0.322
2010	0.323	1.323	1.268	0.337
2011	0.302	1.305	1.158	0.341
2012	0.272	1.289	1.031	0.340
2013	0.235	1.260	0.901	0.328
2014	0.226	1.154	0.830	0.314
2015	0.224	1.138	0.794	0.321
2016	0.217	1.123	0.821	0.296
2017	0.227	1.094	0.861	0.288
2018	0.248	1.063	0.903	0.292
2019	0.291	1.035	1.002	0.300
				Projected (d)
2020				0.289
4/1/2021				0.284

(a) See Exhibit 4.1.

(b) Based on AC20-03-02, Exhibit 4.1.

(c) See AC20-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC20-03-02, Exhibit 6.2, the actual frequency trend for accident year 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 to 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.

**Projected On-Level Accident Year  
Medical Loss to Industry Average Filed Pure Premium Ratios  
Using Unadjusted 3-Year Average Paid Development Factors  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)
	Developed Medical Loss Ratio (a)	Composite Medical Adjustment Factor (b)	Composite Premium Adjustment Factor (c)	On-Level Medical to Industry Average Filed Pure Premium Ratio(e) (1) x (2) ÷ (3)
2008	0.457	0.797	1.293	0.282
2009	0.536	0.786	1.395	0.302
2010	0.529	0.784	1.268	0.327
2011	0.455	0.806	1.158	0.317
2012	0.393	0.841	1.031	0.321
2013	0.320	0.922	0.901	0.328
2014	0.287	0.968	0.830	0.335
2015	0.275	0.989	0.794	0.343
2016	0.265	0.987	0.821	0.319
2017	0.280	0.985	0.861	0.320
2018	0.307	1.009	0.903	0.343
2019	0.335	1.005	1.002	0.336
				Projected (d)
2020				0.338
4/1/2021				0.337

(a) See Exhibit 4.1.

(b) Based on AC20-03-02, Exhibit 4.1.

(c) See AC20-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual medical severity trend from AC20-03-02, Exhibit 6.4, the actual frequency trend for accident year 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 to 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.

(e) Accident years 2011 and subsequent do not reflect paid MCCP costs. Accident years 2010 and prior do reflect paid MCCP costs.

**Developed Loss Ratio Unadjusted Latest Year Paid Development Factors  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Indemnity				Medical				Total Developed Loss Ratio (4) + (8)
	Reported Paid Loss Ratio (a)	Annual Development Factor (b)	Cumulative Development Factor	Developed Loss Ratio (1) x (3)	Reported Paid Loss Ratio (a)	Annual Development Factor (c)	Cumulative Development Factor	Developed Loss Ratio (5) x (7)	
2008	0.260	1.013	1.092	0.284	0.373	1.016	1.226	0.457	0.741
2009	0.301	1.016	1.109	0.333	0.429	1.019	1.249	0.536	0.870
2010	0.286	1.020	1.131	0.323	0.415	1.020	1.274	0.529	0.852
2011	0.261	1.023	1.156	0.302	0.349	1.025	1.306	0.455	0.758
2012	0.228	1.027	1.188	0.271	0.292	1.029	1.344	0.392	0.664
2013	0.190	1.035	1.229	0.234	0.229	1.039	1.397	0.319	0.553
2014	0.174	1.044	1.283	0.223	0.195	1.048	1.464	0.285	0.508
2015	0.161	1.071	1.374	0.221	0.173	1.076	1.575	0.272	0.493
2016	0.138	1.119	1.538	0.212	0.148	1.111	1.750	0.259	0.471
2017	0.116	1.230	1.891	0.219	0.129	1.197	2.095	0.270	0.489
2018	0.080	1.569	2.968	0.237	0.100	1.391	2.913	0.291	0.528
2019	0.029	3.109	9.227	0.272	0.045	2.378	6.928	0.314	0.585

- (a) Based on AC20-03-02, Exhibit 1. Accident years 2011 and subsequent do not reflect the paid cost of medical cost containment programs (MCCP). Accident years 2010 and prior do reflect paid MCCP costs.
- (b) Age-to-age factors are selected as latest year for the 12-to-24 month through 96-to-108 month factors and three-year average for the subsequent age-to-age factors based on AC20-03-02, Exhibit 2.5.
- (c) Age-to-age factors are selected as latest year for the 12-to-24 month through 96-to-108 month factors and three-year average for the subsequent age-to-age factors based on AC20-03-02, Exhibit 2.6.

**Projected On-Level Accident Year  
Indemnity Loss to Industry Average Filed Pure Premium Ratios  
Using Unadjusted Latest Year Paid Development Factors  
Based on Experience as of December 31, 2019**

Accident Year	(1) Developed Indemnity Loss Ratio (a)	(2) Composite Indemnity Adjustment Factor (b)	(3) Composite Premium Adjustment Factor (c)	(4) On-Level Indemnity to Industry Average Filed Pure Premium Ratio (1) x (2) ÷ (3)
2008	0.284	1.375	1.293	0.302
2009	0.333	1.348	1.395	0.322
2010	0.323	1.323	1.268	0.337
2011	0.302	1.305	1.158	0.341
2012	0.271	1.289	1.031	0.339
2013	0.234	1.260	0.901	0.327
2014	0.223	1.154	0.830	0.310
2015	0.221	1.138	0.794	0.316
2016	0.212	1.123	0.821	0.290
2017	0.219	1.094	0.861	0.279
2018	0.237	1.063	0.903	0.279
2019	0.272	1.035	1.002	0.281
				Projected (d)
2020				0.273
4/1/2021				0.268

(a) See Exhibit 5.1.

(b) Based on AC20-03-02, Exhibit 4.1.

(c) See AC20-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC20-03-02, Exhibit 6.2, the actual frequency trend for accident year 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 to 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.

**Projected On-Level Accident Year  
Medical Loss to Industry Average Filed Pure Premium Ratios  
Using Unadjusted Latest Year Paid Development Factors  
Based on Experience as of December 31, 2019**

Accident Year	(1) Developed Medical Loss Ratio (a)	(2) Composite Medical Adjustment Factor (b)	(3) Composite Premium Adjustment Factor (c)	(4) On-Level Medical to Industry Average Filed Pure Premium Ratio(e) (1) x (2) ÷ (3)
2008	0.457	0.797	1.293	0.282
2009	0.536	0.786	1.395	0.302
2010	0.529	0.784	1.268	0.327
2011	0.455	0.806	1.158	0.317
2012	0.392	0.841	1.031	0.320
2013	0.319	0.922	0.901	0.327
2014	0.285	0.968	0.830	0.332
2015	0.272	0.989	0.794	0.339
2016	0.259	0.987	0.821	0.312
2017	0.270	0.985	0.861	0.309
2018	0.291	1.009	0.903	0.326
2019	0.314	1.005	1.002	0.315
				Projected (d)
2020				0.319
4/1/2021				0.318

(a) See Exhibit 5.1.

(b) Based on AC20-03-02, Exhibit 4.1.

(c) See AC20-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual medical severity trend from AC20-03-02, Exhibit 6.4, the actual frequency trend for accident year 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 to 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.

(e) Accident years 2011 and subsequent do not reflect paid MCCP costs. Accident years 2010 and prior do reflect paid MCCP costs.

**Developed Loss Ratios Adjusted for the Impact of SB 1160  
Based on Paid Latest Year Selections  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)
	Paid Loss Ratio (a)	Medical		Developed Loss Ratio (1) x (3)
		Adjusted		
		Development Factors		
		Annual (b)	Cumulative (b)	
2008	0.341	1.018	1.239	0.422
2009	0.397	1.021	1.264	0.502
2010	0.385	1.022	1.292	0.498
2011	0.326	1.027	1.328	0.433
2012	0.276	1.032	1.370	0.378
2013	0.218	1.043	1.429	0.312
2014	0.189	1.052	1.489	0.281
2015	0.170	1.080	1.596	0.271
2016	0.147	1.114	1.758	0.258
2017	0.129	1.199	2.080	0.267
2018	0.100	1.393	2.897	0.290
2019	0.045	2.378	6.890	0.312

- (a) Based on AC20-03-02, Exhibit 1. Accident years 2011 and subsequent do not reflect the paid cost of medical cost containment programs (MCCP). Accident years 2010 and prior do reflect paid MCCP costs.
- (b) Based on AC20-03-02, Exhibit 2.6.1 and includes adjustments for SB 1160. Does not reflect any adjustment for changes in claim settlement rates.

**Projected On-Level Accident Year  
Medical Loss to Industry Average Filed Pure Premium Ratios  
Using Adjusted for the Impact of SB 1160  
Based on Paid Latest Year Selections**

Accident Year	(1)	(2)	(3)	(4)
	Developed Medical Loss Ratio (a)	Composite Medical Adjustment Factor (b)	Composite Premium Adjustment Factor (c)	On-Level Medical to Industry Average Filed Pure Premium Ratio(e) (1) x (2) ÷ (3)
2008	0.422	0.831	1.293	0.271
2009	0.502	0.820	1.395	0.295
2010	0.498	0.817	1.268	0.321
2011	0.433	0.831	1.158	0.311
2012	0.378	0.869	1.031	0.318
2013	0.312	0.944	0.901	0.326
2014	0.281	0.987	0.830	0.334
2015	0.271	1.005	0.794	0.343
2016	0.258	1.006	0.821	0.317
2017	0.267	1.008	0.861	0.313
2018	0.290	1.009	0.903	0.324
2019	0.312	1.005	1.002	0.313
				Projected (d)
2020				0.317
4/1/2021				0.316

(a) See Exhibit 6.1.

(b) Based on AC20-03-02, Exhibit 4.4.

(c) See AC20-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual medical severity trend from AC20-03-02, Exhibit 6.4, the actual frequency trend for accident year 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 to 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.

(e) Accident years 2011 and subsequent do not reflect paid MCCP costs. Accident years 2010 and prior do reflect paid MCCP costs.

**Developed Loss Ratios Adjusted for the Impact of Reforms and Changes in Claim Settlement Rates  
Based on 3-Year Average Selections  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Indemnity				Medical					
	Reported Paid Loss Ratio (a)	Annual Development Factor (b)	Cumulative Development Factor	Developed Loss Ratio (1) x (3)	Paid Loss Ratio (a)	Paid Loss Ratio (c)	Adjusted Annual Development Factor (d)	Adjusted Cumulative Development Factor	Adjusted Developed Loss Ratio (6) x (8)	Total Developed Loss Ratio (4) + (9)
2008	0.260	1.013	1.092	0.284	0.373	0.341	1.018	1.239	0.422	0.706
2009	0.301	1.016	1.109	0.333	0.429	0.397	1.021	1.264	0.502	0.835
2010	0.286	1.020	1.131	0.323	0.415	0.385	1.022	1.292	0.498	0.820
2011	0.261	1.023	1.156	0.302	0.349	0.326	1.027	1.328	0.433	0.736
2012	0.228	1.027	1.188	0.271	0.292	0.276	1.032	1.370	0.378	0.649
2013	0.190	1.035	1.229	0.234	0.229	0.218	1.043	1.429	0.312	0.545
2014	0.174	1.043	1.282	0.223	0.195	0.189	1.051	1.488	0.281	0.504
2015	0.161	1.059	1.358	0.218	0.173	0.170	1.070	1.579	0.268	0.486
2016	0.138	1.105	1.500	0.207	0.148	0.147	1.109	1.733	0.255	0.461
2017	0.116	1.219	1.830	0.212	0.129	0.129	1.202	2.055	0.264	0.476
2018	0.080	1.585	2.901	0.231	0.100	0.100	1.419	2.916	0.292	0.523
2019	0.029	3.185	9.240	0.272	0.045	0.045	2.424	7.069	0.320	0.592

- (a) Based on AC20-03-02, Exhibit 1. Accident years 2011 and subsequent do not reflect the paid cost of medical cost containment programs (MCCP). Accident years 2010 and prior do reflect paid MCCP costs.
- (b) Age-to-age factors for developing accident years 2014 to 2019 were adjusted for changes in claim settlement rates based on 3-year average selections (see AC20-03-02, Exhibit 2.5.8, Item Q).
- (c) See AC20-03-02, Exhibit 3.2, Column (2).
- (d) Based on AC20-03-02, Exhibits 2.6.1 and includes adjustments for SB 1160. Age-to-age factors for developing accident years 2014 to 2019 were adjusted for changes in claim settlement rates based on 3-year average selections (see AC20-03-02, Exhibit 2.6.8, Item R).

**Projected On-Level Accident Year  
Indemnity Loss to Industry Average Filed Pure Premium Ratios  
Adjusted for the Impact of Reforms and Changes in Claim Settlement Rates  
Based on 3-Year Average Selections  
Based on Experience as of December 31, 2019**

(1)	(2)	(3)	(4)	
Accident Year	Developed Indemnity Loss Ratio (a)	Composite Indemnity Adjustment Factor (b)	Composite Premium Adjustment Factor (c)	
			On-Level Indemnity to Industry Average Filed Pure Premium Ratio (1) x (2) ÷ (3)	
2008	0.284	1.375	1.293	0.302
2009	0.333	1.348	1.395	0.322
2010	0.323	1.323	1.268	0.337
2011	0.302	1.305	1.158	0.341
2012	0.271	1.289	1.031	0.339
2013	0.234	1.260	0.901	0.327
2014	0.223	1.154	0.830	0.310
2015	0.218	1.138	0.794	0.312
2016	0.207	1.123	0.821	0.283
2017	0.212	1.094	0.861	0.270
2018	0.231	1.063	0.903	0.272
2019	0.272	1.035	1.002	0.281
Projected (d)				
2020				0.270
4/1/2021				0.266

(a) See Exhibit 7.1.

(b) Based on AC20-03-02, Exhibit 4.1.

(c) See AC20-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC20-03-02, Exhibit 6.2, the actual frequency trend for accident year 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 to 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.

**Projected On-Level Accident Year  
Medical Loss to Industry Average Filed Pure Premium Ratios  
Adjusted for the Impact of Reforms and Changes in Claim Settlement Rates  
Based on 3-Year Average Selections  
Based on Experience as of December 31, 2019**

(1)	(2)	(3)	(4)	
Accident Year	Developed Medical Loss Ratio (a)	Composite Medical Adjustment Factor (b)	Composite Premium Adjustment Factor (c)	
			On-Level Medical to Industry Average Filed Pure Premium Ratio(e) (1) x (2) ÷ (3)	
2008	0.422	0.831	1.293	0.271
2009	0.502	0.820	1.395	0.295
2010	0.498	0.817	1.268	0.321
2011	0.433	0.831	1.158	0.311
2012	0.378	0.869	1.031	0.318
2013	0.312	0.944	0.901	0.326
2014	0.281	0.987	0.830	0.334
2015	0.268	1.005	0.794	0.339
2016	0.255	1.006	0.821	0.312
2017	0.264	1.008	0.861	0.309
2018	0.292	1.009	0.903	0.326
2019	0.320	1.005	1.002	0.321
Projected (d)				
2020				0.322
4/1/2021				0.321

(a) See Exhibit 7.1.

(b) Based on AC20-03-02, Exhibit 4.4.

(c) See AC20-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual medical severity trend from AC20-03-02, Exhibit 6.4, the actual frequency trend for accident year 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 to 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.

(e) Accident years 2011 and subsequent do not reflect paid MCCP costs. Accident years 2010 and prior do reflect paid MCCP costs.

**Projected On-Level Accident Year  
Indemnity Loss to Industry Average Filed Pure Premium Ratios  
Separate Applications of Frequency and Severity Trends  
Applied to Accident Year 2019  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)
	Developed Indemnity Loss Ratio (a)	Composite Indemnity Adjustment Factor (b)	Composite Premium Adjustment Factor (c)	On-Level Indemnity to Industry Average Filed Pure Premium Ratio (1) x (2) ÷ (3)
2008	0.284	1.375	1.293	0.302
2009	0.333	1.348	1.395	0.322
2010	0.323	1.323	1.268	0.337
2011	0.302	1.305	1.158	0.341
2012	0.271	1.289	1.031	0.339
2013	0.234	1.260	0.901	0.327
2014	0.222	1.154	0.830	0.309
2015	0.217	1.138	0.794	0.311
2016	0.206	1.123	0.821	0.282
2017	0.210	1.094	0.861	0.267
2018	0.226	1.063	0.903	0.266
2019	0.259	1.035	1.002	0.268
				Projected (d)
2020				0.261
4/1/2021				0.257

- (a) See AC20-03-02, Exhibit 3.1.
- (b) See AC20-03-02, Exhibit 4.1.
- (c) See AC20-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC20-03-02, Exhibit 6.2, and projected frequency trends for accident years 2020 and 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2019 on-level ratio.

**Projected On-Level Accident Year  
Medical Loss to Industry Average Filed Pure Premium Ratios  
Separate Applications of Frequency and Severity Trends  
Applied to Accident Year 2019  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)
	Developed Medical Loss Ratio (a)	Composite Medical Adjustment Factor (b)	Composite Premium Adjustment Factor (c)	On-Level Medical to Industry Average Filed Pure Premium Ratio(e) (1) x (2) ÷ (3)
2008	0.422	0.831	1.293	0.271
2009	0.502	0.820	1.395	0.295
2010	0.498	0.817	1.268	0.321
2011	0.433	0.831	1.158	0.311
2012	0.378	0.869	1.031	0.318
2013	0.312	0.944	0.901	0.326
2014	0.280	0.987	0.830	0.332
2015	0.267	1.005	0.794	0.338
2016	0.252	1.006	0.821	0.308
2017	0.258	1.008	0.861	0.302
2018	0.279	1.009	0.903	0.312
2019	0.301	1.005	1.002	0.302
				Projected (d)
2020				0.298
4/1/2021				0.297

- (a) See AC20-03-02, Exhibit 3.2.
- (b) See AC20-03-02, Exhibit 4.4.
- (c) See AC20-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC20-03-02, Exhibit 6.4, and projected frequency trends for accident years 2020 and 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2019 on-level ratio.
- (e) Accident years 2011 and subsequent do not reflect paid MCCP costs. Accident years 2010 and prior do reflect paid MCCP costs.

**Projected On-Level Accident Year  
Indemnity Loss to Industry Average Filed Pure Premium Ratios  
Separate Applications of Frequency and Long-Term Severity Trends  
Based on Experience as of December 31, 2019**

Accident Year	(1) Developed Indemnity Loss Ratio (a)	(2) Composite Indemnity Adjustment Factor (b)	(3) Composite Premium Adjustment Factor (c)	(4) On-Level Indemnity to Industry Average Filed Pure Premium Ratio (1) x (2) ÷ (3)
2008	0.284	1.375	1.293	0.302
2009	0.333	1.348	1.395	0.322
2010	0.323	1.323	1.268	0.337
2011	0.302	1.305	1.158	0.341
2012	0.271	1.289	1.031	0.339
2013	0.234	1.260	0.901	0.327
2014	0.222	1.154	0.830	0.309
2015	0.217	1.138	0.794	0.311
2016	0.206	1.123	0.821	0.282
2017	0.210	1.094	0.861	0.267
2018	0.226	1.063	0.903	0.266
2019	0.259	1.035	1.002	0.268
				Projected (d)
2020				0.265
4/1/2021				0.263

- (a) See AC20-03-02, Exhibit 3.1.
- (b) See AC20-03-02, Exhibit 4.1.
- (c) See AC20-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected based on the 1990-2019 annual indemnity severity trend of 1.2%, the actual frequency change for 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 and 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.

**Projected On-Level Accident Year  
Medical Loss to Industry Average Filed Pure Premium Ratios  
Separate Applications of Frequency and Long-Term Severity Trends  
Based on Experience as of December 31, 2019**

Accident Year	(1) Developed Medical Loss Ratio (a)	(2) Composite Medical Adjustment Factor (b)	(3) Composite Premium Adjustment Factor (c)	(4) On-Level Medical to Industry Average Filed Pure Premium Ratio(e) (1) x (2) ÷ (3)
2008	0.422	0.831	1.293	0.271
2009	0.502	0.820	1.395	0.295
2010	0.498	0.817	1.268	0.321
2011	0.433	0.831	1.158	0.311
2012	0.378	0.869	1.031	0.318
2013	0.312	0.944	0.901	0.326
2014	0.280	0.987	0.830	0.332
2015	0.267	1.005	0.794	0.338
2016	0.252	1.006	0.821	0.308
2017	0.258	1.008	0.861	0.302
2018	0.279	1.009	0.903	0.312
2019	0.301	1.005	1.002	0.302
				Projected (d)
2020				0.324
4/1/2021				0.332

- (a) See AC20-03-02, Exhibit 3.2.
- (b) See AC20-03-02, Exhibit 4.4.
- (c) See AC20-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected based on the 1990-2019 annual medical severity trend of 5.5%, the actual frequency change for 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 and 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.
- (e) Accident years 2011 and subsequent do not reflect paid MCCP costs. Accident years 2010 and prior do reflect paid MCCP costs.

**Projected On-Level Accident Year  
Indemnity Loss to Industry Average Filed Pure Premium Ratios  
Separate Applications of Frequency and Short-Term Severity Trends  
Based on Experience as of December 31, 2019**

Accident Year	(1) Developed Indemnity Loss Ratio (a)	(2) Composite Indemnity Adjustment Factor (b)	(3) Composite Premium Adjustment Factor (c)	(4) On-Level Indemnity to Industry Average Filed Pure Premium Ratio (1) x (2) ÷ (3)
2008	0.284	1.375	1.293	0.302
2009	0.333	1.348	1.395	0.322
2010	0.323	1.323	1.268	0.337
2011	0.302	1.305	1.158	0.341
2012	0.271	1.289	1.031	0.339
2013	0.234	1.260	0.901	0.327
2014	0.222	1.154	0.830	0.309
2015	0.217	1.138	0.794	0.311
2016	0.206	1.123	0.821	0.282
2017	0.210	1.094	0.861	0.267
2018	0.226	1.063	0.903	0.266
2019	0.259	1.035	1.002	0.268
				Projected (d)
2020				0.257
4/1/2021				0.251

- (a) See AC20-03-02, Exhibit 3.1.
- (b) See AC20-03-02, Exhibit 4.1.
- (c) See AC20-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected based on the 2015-2019 annual indemnity severity trend of -1.0%, the actual frequency change for 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 and 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.

**Projected On-Level Accident Year  
Medical Loss to Industry Average Filed Pure Premium Ratios  
Separate Applications of Frequency and Short-Term Severity Trends  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)
	Developed Medical Loss Ratio (a)	Composite Medical Adjustment Factor (b)	Composite Premium Adjustment Factor (c)	On-Level Medical to Industry Average Filed Pure Premium Ratio(e) (1) x (2) ÷ (3)
2008	0.422	0.831	1.293	0.271
2009	0.502	0.820	1.395	0.295
2010	0.498	0.817	1.268	0.321
2011	0.433	0.831	1.158	0.311
2012	0.378	0.869	1.031	0.318
2013	0.312	0.944	0.901	0.326
2014	0.280	0.987	0.830	0.332
2015	0.267	1.005	0.794	0.338
2016	0.252	1.006	0.821	0.308
2017	0.258	1.008	0.861	0.302
2018	0.279	1.009	0.903	0.312
2019	0.301	1.005	1.002	0.302
				Projected (d)
2020				0.299
4/1/2021				0.294

- (a) See AC20-03-02, Exhibit 3.2.
- (b) See AC20-03-02, Exhibit 4.4.
- (c) See AC20-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected based on the 2015-2019 annual medical severity trend of 0.0%, the actual frequency change for 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 and 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.
- (e) Accident years 2011 and subsequent do not reflect paid MCCP costs. Accident years 2010 and prior do reflect paid MCCP costs.

**Projected On-Level Accident Year  
Indemnity Loss to Industry Average Filed Pure Premium Ratios  
Separate Applications of Frequency and Severity Trends  
Based on Experience as of December 31, 2019**

Accident Year	(1) Developed Indemnity Loss Ratio (a)	(2) Composite Indemnity Adjustment Factor (b)	(3) Composite Premium Adjustment Factor (c)	(4) On-Level Indemnity to Industry Average Filed Pure Premium Ratio (1) x (2) ÷ (3)
2008	0.284	1.375	1.293	0.302
2009	0.333	1.348	1.395	0.322
2010	0.323	1.323	1.268	0.337
2011	0.302	1.305	1.158	0.341
2012	0.271	1.289	1.031	0.339
2013	0.234	1.260	0.901	0.327
2014	0.222	1.154	0.830	0.309
2015	0.217	1.138	0.794	0.311
2016	0.206	1.123	0.821	0.282
2017	0.210	1.094	0.861	0.267
2018	0.226	1.063	0.903	0.266
2019	0.259	1.035	1.002	0.268
				Projected (d)
2020				0.258
4/1/2021				0.254

- (a) See AC20-03-02, Exhibit 3.1.
- (b) See AC20-03-02, Exhibit 4.1.
- (c) See AC20-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected based on an estimated indemnity severity trend of -0.5%, the actual frequency change for 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 and 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.

**Projected On-Level Accident Year  
Medical Loss to Industry Average Filed Pure Premium Ratios  
Separate Applications of Frequency and Severity Trends  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)
	Developed Medical Loss Ratio (a)	Composite Medical Adjustment Factor (b)	Composite Premium Adjustment Factor (c)	On-Level Medical to Industry Average Filed Pure Premium Ratio(e) (1) x (2) ÷ (3)
2008	0.422	0.831	1.293	0.271
2009	0.502	0.820	1.395	0.295
2010	0.498	0.817	1.268	0.321
2011	0.433	0.831	1.158	0.311
2012	0.378	0.869	1.031	0.318
2013	0.312	0.944	0.901	0.326
2014	0.280	0.987	0.830	0.332
2015	0.267	1.005	0.794	0.338
2016	0.252	1.006	0.821	0.308
2017	0.258	1.008	0.861	0.302
2018	0.279	1.009	0.903	0.312
2019	0.301	1.005	1.002	0.302
				Projected (d)
2020				0.311
4/1/2021				0.312

- (a) See AC20-03-02, Exhibit 3.2.
- (b) See AC20-03-02, Exhibit 4.4.
- (c) See AC20-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected based on an estimated medical severity trend of 2.5%, the actual frequency change for 2019 from AC20-03-02, Exhibit 12, and projected frequency trends for accident years 2020 and 2021 from AC20-03-02, Exhibit 6.1; these trends were then separately applied to the 2018 and 2019 on-level ratios.
- (e) Accident years 2011 and subsequent do not reflect paid MCCP costs. Accident years 2010 and prior do reflect paid MCCP costs.

**Projected On-Level Accident Year  
Indemnity Loss to Industry Average Filed Pure Premium Ratios  
Long-Term Exponential Loss Ratio Trend  
Based on Experience as of December 31, 2019**

Accident Year	(1) Developed Indemnity Loss Ratio (a)	(2) Composite Indemnity Adjustment Factor (b)	(3) Composite Premium Adjustment Factor (c)	(4) On-Level Indemnity to Industry Average Filed Pure Premium Ratio (1) x (2) ÷ (3)
1990	0.400	1.197	1.556	0.307
1991	0.427	0.986	1.407	0.299
1992	0.352	1.039	1.282	0.286
1993	0.289	1.262	1.237	0.295
1994	0.330	1.319	1.401	0.310
1995	0.476	1.221	1.840	0.316
1996	0.534	1.141	1.903	0.320
1997	0.605	1.022	1.848	0.334
1998	0.657	0.943	1.856	0.334
1999	0.692	0.873	1.763	0.343
2000	0.598	0.815	1.395	0.350
2001	0.496	0.816	1.193	0.339
2002	0.369	0.836	0.919	0.336
2003	0.244	0.833	0.654	0.311
2004	0.146	1.141	0.588	0.283
2005	0.125	1.546	0.651	0.297
2006	0.162	1.519	0.838	0.294
2007	0.224	1.465	1.071	0.306
2008	0.284	1.375	1.293	0.302
2009	0.333	1.348	1.395	0.322
2010	0.323	1.323	1.268	0.337
2011	0.302	1.305	1.158	0.341
2012	0.271	1.289	1.031	0.339
2013	0.234	1.260	0.901	0.327
2014	0.222	1.154	0.830	0.309
2015	0.217	1.138	0.794	0.311
2016	0.206	1.123	0.821	0.282
2017	0.210	1.094	0.861	0.267
2018	0.226	1.063	0.903	0.266
2019	0.259	1.035	1.002	0.268
				Projected (d)
2020				0.266
4/1/2021				0.265

(a) See AC20-03-02, Exhibit 3.1.

(b) See AC20-03-02, Exhibit 4.1.

(c) See AC20-03-02, Exhibit 5.2.

(d) These on-level ratios were projected by separately applying an exponential trend of approximately -0.3% based on the 1990 to 2019 on-level indemnity to industry average filed pure premium ratios to each of the 2018 and 2019 on-level indemnity to industry average filed pure premium ratios. Each stated projection is equal to the average of the corresponding trended on-level ratios.

**Projected On-Level Accident Year  
Medical Loss to Industry Average Filed Pure Premium Ratios  
Long-Term Exponential Loss Ratio Trend  
Based on Experience as of December 31, 2019**

Accident Year	(1) Developed Medical Loss Ratio (a)	(2) Composite Medical Adjustment Factor (b)	(3) Composite Premium Adjustment Factor (c)	(4) On-Level Medical to Industry Average Filed Pure Premium Ratio(e) (1) x (2) ÷ (3)	(5) On-Level Medical to Industry Average Filed Pure Premium Ratio (f)
1990	0.376	0.608	1.556	0.147	0.147
1991	0.394	0.520	1.407	0.146	0.146
1992	0.328	0.549	1.282	0.140	0.140
1993	0.273	0.657	1.237	0.145	0.145
1994	0.317	0.688	1.401	0.156	0.156
1995	0.466	0.679	1.840	0.172	0.172
1996	0.498	0.669	1.903	0.175	0.175
1997	0.560	0.663	1.848	0.201	0.201
1998	0.676	0.585	1.856	0.213	0.213
1999	0.661	0.506	1.763	0.190	0.190
2000	0.601	0.465	1.395	0.200	0.200
2001	0.537	0.424	1.193	0.191	0.191
2002	0.419	0.441	0.919	0.201	0.201
2003	0.270	0.462	0.654	0.191	0.191
2004	0.185	0.699	0.588	0.220	0.220
2005	0.183	0.812	0.651	0.228	0.228
2006	0.237	0.853	0.838	0.242	0.242
2007	0.336	0.837	1.071	0.263	0.263
2008	0.422	0.831	1.293	0.271	0.271
2009	0.502	0.820	1.395	0.295	0.295
2010	0.498	0.817	1.268	0.321	0.321
2011	0.433	0.831	1.158	0.311	0.341
2012	0.378	0.869	1.031	0.318	0.348
2013	0.312	0.944	0.901	0.326	0.358
2014	0.280	0.987	0.830	0.332	0.364
2015	0.267	1.005	0.794	0.338	0.369
2016	0.252	1.006	0.821	0.308	0.336
2017	0.258	1.008	0.861	0.302	0.330
2018	0.279	1.009	0.903	0.312	0.343
2019	0.301	1.005	1.002	0.302	0.332
				Projected (d)	
2020				0.324	
4/1/2021				0.333	

(a) See AC20-03-02, Exhibit 3.2.

(b) See AC20-03-02, Exhibit 4.4.

(c) See AC20-03-02, Exhibit 5.2.

(d) These on-level ratios were projected by separately applying an exponential trend of approximately 3.6% based on the 1990 to 2019 on-level medical to industry average filed pure premium ratios (including MCCP costs) to each of the 2018 and 2019 on-level indemnity to industry average filed pure premium ratios. Each stated projection is equal to the average of the corresponding trended on-level ratios.

(e) Accident years 2011 and subsequent do not reflect paid MCCP costs. Accident years 2010 and prior do reflect paid MCCP costs.

(f) Medical costs include the MCCP cost for all accident years for selecting the loss ratio trend.

**Projected On-Level Accident Year  
Indemnity Loss to Industry Average Filed Pure Premium Ratios  
Short-Term Exponential Loss Ratio Trend  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)
	Developed Indemnity Loss Ratio (a)	Composite Indemnity Adjustment Factor (b)	Composite Premium Adjustment Factor (c)	On-Level Indemnity to Industry Average Filed Pure Premium Ratio (1) x (2) ÷ (3)
2008	0.284	1.375	1.293	0.302
2009	0.333	1.348	1.395	0.322
2010	0.323	1.323	1.268	0.337
2011	0.302	1.305	1.158	0.341
2012	0.271	1.289	1.031	0.339
2013	0.234	1.260	0.901	0.327
2014	0.222	1.154	0.830	0.309
2015	0.217	1.138	0.794	0.311
2016	0.206	1.123	0.821	0.282
2017	0.210	1.094	0.861	0.267
2018	0.226	1.063	0.903	0.266
2019	0.259	1.035	1.002	0.268
				Projected (d)
2020				0.253
4/1/2021				0.247

(a) See AC20-03-02, Exhibit 3.1.

(b) See AC20-03-02, Exhibit 4.1.

(c) See AC20-03-02, Exhibit 5.2.

(d) These on-level ratios were projected by separately applying an exponential trend of approximately -3.5% based on the 2015 to 2019 on-level indemnity to industry average filed pure premium ratios to each of the 2018 and 2019 on-level indemnity to industry average filed pure premium ratios. Each stated projection is equal to the average of the corresponding trended on-level ratios.

**Projected On-Level Accident Year  
Medical Loss to Industry Average Filed Pure Premium Ratios  
Short-Term Exponential Loss Ratio Trend  
Based on Experience as of December 31, 2019**

Accident Year	(1)	(2)	(3)	(4)
	Developed Medical Loss Ratio (a)	Composite Medical Adjustment Factor (b)	Composite Premium Adjustment Factor (c)	On-Level Medical to Industry Average Filed Pure Premium Ratio(e) (1) x (2) ÷ (3)
2008	0.422	0.831	1.293	0.271
2009	0.502	0.820	1.395	0.295
2010	0.498	0.817	1.268	0.321
2011	0.433	0.831	1.158	0.311
2012	0.378	0.869	1.031	0.318
2013	0.312	0.944	0.901	0.326
2014	0.280	0.987	0.830	0.332
2015	0.267	1.005	0.794	0.338
2016	0.252	1.006	0.821	0.308
2017	0.258	1.008	0.861	0.302
2018	0.279	1.009	0.903	0.312
2019	0.301	1.005	1.002	0.302
				Projected (d)
2020				0.297
4/1/2021				0.293

(a) See AC20-03-02, Exhibit 3.2.

(b) See AC20-03-02, Exhibit 4.4.

(c) See AC20-03-02, Exhibit 5.2.

(d) These on-level ratios were projected by separately applying an exponential trend of approximately -2.1% based on the 2015 to 2019 on-level medical to industry average filed pure premium ratios to each of the 2018 and 2019 on-level indemnity to industry average filed pure premium ratios. Each stated projection is equal to the average of the corresponding trended on-level ratios.

(e) Accident years 2011 and subsequent do not reflect paid MCCP costs. Accident years 2010 and prior do reflect paid MCCP costs.

## Item VI-B COVID-19 Pandemic

The COVID-19 pandemic crisis and the resultant Federal, State and Local stay-at-home orders are having a major impact on the workers' compensation system both nationally and in California. Below is a high level summary of the WCIRB's response to date.

### **WCIRB Business Operations**

In early March, in response to the emerging crisis, the WCIRB restructured all upcoming committee and working group meetings as teleconferences only, canceled non-essential business travel and accelerated the capability for all staff to be able to work remotely. Once the "shelter-in-place" order from the six Bay Area counties was issued on March 16, 2020, all WCIRB employees were instructed by management to begin to work remotely the next day. Since that time, there have been minimal impacts to WCIRB core business operations with the exception that, for the safety of Classification and Test Audit field staff, all on-site employer inspections were cancelled. Attached is a copy of the March 20, 2020 WCIRB Wire Story on the continuation of WCIRB business operations during this period.

### **Reporting of COVID-19 Claims**

WCIRB staff worked with the Workers Compensation Insurance Organizations (WCIO) Data Advisory Committee to identify a catastrophe code as well as nature of injury and cause of injury codes to facilitate the reporting of COVID-19 claims in unit statistical and transaction indemnity data in a consistent manner across all WCIO jurisdictions, (ICD-10 codes had already been established for these claims to facilitate their identification in medical transaction data.) Attached is a copy of the WCIRB Bulletin issued on March 24, 2020 specifying how claims involving a diagnosis of COVID-19 are to be reported.

### **Potential Regulatory Changes**

The COVID-19 crisis creates a number of issues including the treatment of such claims in experience rating, the reporting of payroll for employees who are no longer working but are continuing to be paid, the classification of working-at-home employees and potential challenges in completing policy audits. On March 27, 2020, WCIRB staff led a WCIO Policy Research Advisory Committee teleconference with all independent and NCCI rating bureaus to facilitate a dialogue on the consistent treatment of these issues across jurisdictions to the extent appropriate. Staff has also scheduled a special WCIRB Underwriting Working Group teleconference on April 1, 2020 to discuss potential regulatory changes in California, which will also be discussed by the WCIRB Classification and Rating (C & R) Committee during its April 14, 2020 teleconference. The WCIRB is also conducting several industry stakeholder outreach sessions with insurers, agents and brokers and employer groups. Any changes recommended by the C & R Committee will be considered by the WCIRB Governing Committee during the April 17, 2020 teleconference and, if adopted by the Committee, filed with the California Department of Insurance with a proposed July 1, 2020 effective date.

### **Ratemaking and Research**

To help assess the potential impact of COVID-19 on the workers' compensation claims environment, the WCIRB is in the process of studying how prior major economic downturns have impacted the frequency and duration of claims in consideration of recent trends in post-termination claims and work-at-home arrangements. The WCIRB will also study how the claim frequency and severity experience emerging during the current "stay-at-home" environment is or is not likely to be indicative of future cost levels. The Actuarial Committee will discuss these and other related ratemaking and research issues during its April 2, 2020 teleconference.

Attached is the March 24, 2020 WCIRB Wire Story providing a high level summary of our response to the crisis.

# WCIRB Wire

## WCIRB Continues to Provide Services During California Shelter-in-Place Order

With the quickly evolving coronavirus/COVID-19 situation, please know that the Workers' Compensation Insurance Rating Bureau of California (WCIRB) has taken proactive steps to protect our staff while also continuing to provide services to our customers. We send our best wishes of support to California's employers and their employees, insurers, agents and brokers and all fellow members of the workers' compensation industry impacted by the coronavirus/COVID-19.

While the WCIRB is following the shelter-in-place order for California, our team members are working remotely from their homes to provide continuous service to the workers' compensation stakeholders that depend upon us.

The shelter-in-place order is in effect through at least April 7, 2020, and the WCIRB remains committed to being responsive to our customers, including:

- Answering inquiries through our Contact Center
  - **Customers are encouraged to contact us at 888.CA.WCIRB (888.229.2472) or customerservice@wcirb.com with any questions.**
- Processing all incoming Policy, USR and MDC data received electronically
- Publishing experience modifications
- Maintaining our online websites and systems including wcirb.com, WCIRB Connect<sup>®</sup>, caworkcompcoverage.com, WCIRB AnalyticsPortal, eSCAD<sup>®</sup>, WCIRB Inquiry<sup>®</sup> and X-Mods and More<sup>®</sup>

Please note that although most WCIRB business is continuing uninterrupted, given the circumstances, our response time may be a bit longer than is typical for us. The WCIRB appreciates your patience as we navigate this fluid situation. We will provide updates as needed.

Go to the following wcirb.com page for the most up-to-date information about changes to WCIRB services during this shelter-in-place time period:

- [Notice of Service Changes Due to California Shelter-in-Place Order](#)

March 20, 2020

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# WCIRB Bulletin

Bulletin No. 2020-09

March 24, 2020

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## Coronavirus Disease – 2019 (COVID-19) Claim Reporting Requirements

The Workers' Compensation Insurance Organizations (WCIO) have established a Catastrophe Number and added a Nature of Injury Code and a Cause of Injury Code to track claims involving a diagnosis of Coronavirus Disease – 2019 (COVID-19) with Accident Dates on or after December 1, 2019. For purposes of unit statistical data reporting in California, the Loss Record for such claims must be reported as follows:

Catastrophe Number – 12  
Nature of Injury Code – 83 (COVID-19)  
Cause of Injury Code – 83 (Pandemic)

In addition, transaction indemnity data reported pursuant to the new WCIRB Indemnity Data Call being implemented later this year must be reported with nature of injury and cause of injury codes consistent with the unit statistical data for each claim.

Insurers should ensure that anyone responsible for reporting unit statistical or indemnity transaction data to the WCIRB is advised regarding the use of these codes.

The WCIRB is reviewing potential amendments to the *California Workers' Compensation Uniform Statistical Reporting Plan—1995* to incorporate these reporting requirements as well as evaluating potential updates to the *California Workers' Compensation Experience Rating Plan—1995* regarding the use of COVID-19 claims in experience rating. Any potential amendments will be included in a special Regulatory Filing with the California Insurance Commissioner.





# WCIRB Wire

## WCIRB Responds to the COVID-19 Crisis

The Workers' Compensation Insurance Rating Bureau of California (WCIRB) is taking the steps necessary to protect our staff while continuing to provide the vast majority of our regular services. The WCIRB is also committed to identifying and addressing some of the new challenges that the COVID-19 crisis has created for the California workers' compensation system. These new challenges include:

### COVID-19 Claims

The WCIRB is actively working with workers' compensation organizations around the country to create unique codes to identify claims directly arising from the COVID-19 virus. These new codes will allow the cost of these claims to be tracked, measured and treated appropriately in pure premium ratemaking and experience rating.

### Basis of Payroll Premium

We have also initiated efforts with the California Department of Insurance and our committees to identify potential regulatory changes with respect to experience rating, payroll reporting, classification and claims reporting to address the crisis.

### Impact on California's Economy

Finally, the COVID-19 crisis is expected to have a major impact on the California economy. To better understand the impact of this crisis on future claim cost levels, WCIRB actuaries and researchers are studying how prior economic downturns have impacted the frequency and duration of claims in light of recent trends in post-termination claims and work-from-home arrangements.

The WCIRB will continue to provide regular updates in these areas.

## Related Story

WCIRB Continues to Provide Services During California Shelter-in-Place Order

March 24, 2020

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