

Actuarial Committee

Meeting Agenda

Date	Time	Location	Staff Contact
March 21, 2022	9:00 AM	Webinar Teleconference	David M. Bellusci
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To Members of the Classification and Rating Committee, WCIRB Members and All Interested Parties:

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I. Approval of Minutes

Meeting held on February 15, 2022

II. Working Group Meeting Summaries

None

III. Unfinished Business

- A. AC20-08-04: Impact of Economic Slowdown on Pure Premium Rate Indications
- B. AC21-03-03: Review of COVID-19 Claim Diagnostics
- C. AC21-03-05: Pandemic Impact on Premium Measures
- D. AC21-12-07: Indemnity Claim Frequency Model

IV. New Business

- A. AC22-03-01: First Quarter 2022 Review of Diagnostics
- B. AC22-03-02: 12/31/2021 Experience Review

V. Matters Arising at Time of Meeting

VI. Next Meeting Date: April 21, 2022

VII. Adjournment

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Item AC20-08-04

Impact of Economic Slowdown on Pure Premium Rate Indications

At the August 4, 2020, March 16, 2021, and April 15, 2021 meetings, the Committee reviewed analyses of economic changes related to the COVID-19 pandemic and their impacts on the indicated January 1, 2021 and September 1, 2021 pure premium rates. This item presents an update of the analysis as it pertains to the WCIRB's upcoming September 1, 2022 Pure Premium Rate Filing.

Industrial Mix of Employment

The mix of employment by industry has direct impacts on measures of claim frequency, claim severity, and average wage. Impacts on each of these measures depend on both the extent of the change in the industry mix of employment as well as the magnitude of differences between the industries.

Exhibit 1 shows each industry's share of employment for historic and forecast years 2019 through 2024 from the March 2022 UCLA Anderson School of Business (UCLA) forecast. Industries are sorted by the cumulative change in employment share from 2019 to 2024.

Exhibit 2 shows each industry's 2019 employment along with cumulative changes from 2019 to 2020 through 2024 based on the March 2022 UCLA forecast. Industries are sorted by the cumulative change in employment from 2019 to 2024 (this sorting differs from Exhibit 1 due to the relative sizes of the industries). Employment pattern changes vary significantly. Over 80% of the remaining employment loss through 2021 arises from Public Administration, Other Services, Accommodation and Food Services, Retail Trade, and Arts, Entertainment and Recreation.

Given the economic uncertainty of the last two years, industry level employment forecasts have changed substantially over time. Exhibit 3 shows the forecast cumulative change in industry level employment from 2019 through the forecast horizon for UCLA forecasts from December 2019 through March 2022. Changes from forecasts with different horizons are not directly comparable as they include changes in previously forecast values as well as the inclusion of additional years.

The March 2022 UCLA forecast assumes a consistently decreasing impact of COVID-19 prevalence and government restrictions. Impacts of the Russia-Ukraine war are also incorporated into the forecast. While no specific timeline for the duration of the war is assumed, economic sanctions against Russia are assumed to be in place for the duration of the forecast.¹ Aside from the inflationary effects of the sanctions, the forecast also assumes an increase in defense spending. To the extent these assumptions influence industry employment, they are included in these employment projections. Other long term employment trends expected regardless of economic shocks noted in the forecast include a steady increase in the share of employment in scientific, logistics, and information technology. Retail trade is expected to continue to decline.

Indemnity Claim Severity

The WCIRB tracks changes in indemnity claim severity due to shifting class mix in Exhibit S15 of the standard set of diagnostic exhibits reviewed by the Committee (Item AC22-03-01). These changes have been very modest over time and have not historically been reflected in pure premium rate filing projections. Given the magnitude of recent economic changes, staff has calculated projected future changes in indemnity claim severity due to changes in the industrial mix. This method uses historic industry severity relativities from USR data and estimated future indemnity count distributions based on forecast changes in employment mix.

Exhibit 4 shows the derivation of projected indemnity count distributions by industry based solely on projected employment shifts by industry. Standard exception data has been allocated to industry using

¹ UCLA Anderson Forecast; March 2022 Economic Outlook

the methodology used in previous WCIRB studies. Some industries shown are collapsed in the forecast data and will have the same projected employment changes.

Calculations of change in indemnity and medical severity due to industry mix are shown in Exhibits 5.1 and 5.2. Neither is impacted significantly by the timeframe used to select the severity relativity. Both severities show modest increases due to industry mix in 2020 and modest decreases in 2022. Impacts are insignificant in other forecast years. Total claim severity is shown for reference in Exhibit 5.3 and follows the same pattern. These calculations implicitly assume that industry frequency and severity relativities are stable.

Indemnity Claim Frequency

The WCIRB's indemnity frequency model projects the change (as measured by a log difference) in the mix-adjusted non-cumulative indemnity claim frequency as a linear combination of the changes in the indemnity benefit level, the cumulative injury index (the ratio of cumulative trauma indemnity claims to all non-cumulative trauma indemnity claims), and economic variables. Projected changes in the economic variables are based on UCLA forecasts.

The economic variable used in the model is the first principal component decomposition of the changes in aggregate employment and the unemployment rate. At the December 9, 2021 Actuarial Committee meeting, staff also showed an alternative version of the economic variables using changes in employment rate in lieu of changes in the unemployment rate.² Forecast values of the unemployment rate and aggregate employment from UCLA forecasts from December 2019 through March 2022 are shown in Exhibit 6.1. Forecasts of both variables changed dramatically at the outset of the pandemic and have been relatively stable since the June 2021 forecast.

Exhibit 6.2 shows the projected change in frequency due to the forecasts of the underlying economic variables. The principal component decomposition of the two versions differ. The version using unemployment rate is heavily dependent on changes in the unemployment rate, with a small additional impact from changes in aggregate employment. The alternative version using employment rate is heavily dependent on changes in aggregate employment, with a moderate additional impact due to changes in the employment rate. The current UCLA forecast results in frequency projections that are directionally consistent between the two versions. The cumulative frequency increases due to the economic improvement in 2021 through 2024 are about 9.4% for the unemployment rate version and 10.2% for the employment rate version. The large projected frequency decrease in 2020 for either version is shown for reference, as actual data will be used.

The final frequency-related adjustment is for changing industrial mix. Exhibit 7 shows a contracted version of Exhibit C7.2 of the standard set of diagnostic exhibits reviewed by the Committee (Item AC22-03-01), which shows the history and projections of the frequency model. Changes in inter-class frequency show the change in overall frequency due to changes in industrial mix. Accident years up to 2020 use USR data at a class level to calculate the change. For AYs 2021 through 2024, inter-class changes use observed industry frequency relativities with industry exposure distributions adjusted for forecast employment changes from UCLA.

Statewide Average Wage

Changes in the statewide average wage flow directly into the proposed advisory pure premium rates and are also used for benefit on-leveling. Historical changes from the Bureau of Labor Statistics (BLS) are used for past years. For future years, projections reflect an average of forecasts made by the California Department of Finance (CDOF) and UCLA. In the September 1, 2021 Pure Premium Rate Filing, average wage changes for 2020 through 2023 were adjusted for shifting employment mix impacts. Two employment mix adjustments were made. The first was to adjust for wage changes due to the mix of employees by industry. The second adjusted for the distribution of employees by wage level within industry.

² See Item AC21-12-07 of the December 9, 2021 Actuarial Committee Agenda.

The most current forecast from CDOF is from November 2021, while the most recent forecast from UCLA is from March 2022. Current wage growth projections based on the average of these two projections are 11.0% for 2020, 8.0% for 2021, 2.8% for 2022, 2.0% for 2023 and 2.1% for 2024. Forecast average wages and annual changes for both UCLA and CDOF since late 2019 are shown in Exhibit 8. These forecasts have been quite volatile, and the 2020 annual change has changed significantly as the historic data sources continue to become available and be revised.

As in previous filing, staff has derived two potential adjustments to the average wage change to account for the changing industrial mix that were initially discussed at the August 4, 2020 meeting.

The first adjustment uses data through December 2021 from the BLS Current Employment Statistics data set. This method calculates overall average wages at the industrial mix from the current and previous year to determine the amount of change due to changes in the industrial mix. The largest change due to mix from 2007 through 2019 was -0.5% in 2009. The change due to shifting mix of employment in 2020 is 2.0%, i.e., the overall statewide average wage will be artificially inflated by 2.0% due solely to the change industrial mix. This method estimates the change in wage due to mix to be -0.2% in 2021. This data series does not include agriculture and no forecasts are available. The derivation of this index is shown in Exhibit 9.

The second adjustment combines historical annual industrial wage relativities through 2020 from the BLS Quarterly Census of Employment and Wages (QCEW) data series with industrial employment forecasts from UCLA. Staff calculated estimates via this methodology for 2021 through 2024 assuming future industry wage relativities remained equal to either the latest 1-, 3-, or 5-year average. The timeframe used to select the industry relativities was immaterial. The measured impact in 2020 using this method was 1.8%. Estimates for 2021 through 2024 are -0.3%, -0.5%, 0.3%, and 0.1% respectively. These calculations are shown in Exhibit 10.

In the September 1, 2021 Pure Premium Rate Filing, the WCIRB adjusted the 2020 wage change for measured impacts in wage distribution within industries.³ This measurement reflected estimated wage inflation due to within industry changes in wage distribution at 4.3%. The Current Population Survey (CPS) data that this estimate relied on was based on 12 monthly snapshots of data from 2019 and 2020. This data can be somewhat volatile, particularly at an industry level, due to sample size. Staff revisited this estimate using the same process, but instead using American Community Survey (ACS) data that is now available for 2020. ACS data is preferred as each record gives a full picture of weeks and hours worked and is more stable at an industry level. 2020 ACS data became available in February 2022.

Data Sets

The estimated impact of the intra-industry changes in the wage distribution calculated as described below relies on two data sets of California information. The March 2022 UCLA forecast is used to determine industry-level changes in employment and employment distributions. These employment levels and changes are shown for 2020 in Exhibit 11.

Distributions of employment by wage level and industry are derived from ACS data. This data set contains typical weeks and hours worked variables for each record. Hourly wages in this estimate are weighted by hours worked, as opposed to employee count in the CPS estimate used in the September 1, 2021 Pure Premium Rate Filing. California data for the mining, utilities, and management of companies' industrial sectors was sparse in this dataset. The data from these sectors has been combined with the agriculture, construction, and professional services sectors, respectively.

³ See Item AC20-08-04 of the April 15, 2021 Actuarial Committee Agenda.

Statewide Wage at 2019 Levels

To estimate the impact of intra-industry changes in wage distribution, the statewide average wage was first calculated using observed 2019 levels of industry mix, wage distribution within industry, and average wage by industry and wage quartile. This calculation is shown in Exhibit 12.

Employment Changes by Industry and Wage Quartile

The ACS data is used to calculate industry-level employment changes by wage quartile. Due to differences in the underlying data sets, the overall industry-level employment changes in the ACS data will not equal the changes from the UCLA forecast. Additionally, when the percentile cutoff falls on a wage that appears frequently in the data set, all employees with that exact wage will be placed in the same quartile.

Statewide Wage at 2020 Wage Distribution by Industry

To isolate the impact of intra-industry wage distribution changes, the statewide average wage is calculated using observed 2019 industry mix and average wages by industry and quartile. These values are combined with the 2020 wage distribution by industry. The resulting average wage reflects only changes in the wage distribution within industries, as the only difference between this value and the observed 2019 value is the distribution of employees by wage level within industries. The overall estimate of the impact of the changing wage distributions is 3.9%. This calculation is shown in Exhibit 13. This compares to last year's estimate of 4.3% using the CPS wage data.

Wage Distribution Impact in 2021

Given the consistency of the ACS and CPS measurements for 2020, staff believes the use of the CPS data is reasonable for these estimates. While the ACS data is preferred, the CPS data remains the only data source with wage level detail that is available to adjust the most recent prior year at this time.

Given the atypically large, 8.0%, average of UCLA and DOF forecasted, change in average wage in 2021, this calculation was carried out using CPS data to measure the impact of wage distribution shifts from 2020 to 2021. These analogous calculations are shown in Exhibits 14, 15, and 16. This method estimates an additional impact of 1.8% in 2021 due to intra-industry wage distribution changes.

Impact of Wage Distribution Shifts in Future Years

While the 2020 and 2021 changes in the statewide average wage are artificially inflated by either the loss of lower wage employees within industries from the workforce or the return of employees at higher-than-expected wage levels, changes in future years would be artificially deflated by the return of at least some of these employees to the workforce at lower wage levels. While there is general consensus that many of these workers will eventually return to the workforce, detailed forecasts of this type are not available.

Exhibit 17 shows the impact under various assumptions regarding the return of the workforce to the pre-2020 wage distribution within industries. The scenarios range from the complete return to the previous wage distribution to no future changes. The scenarios are defined as follows:

- Full Unwinding: Assumes that the measured 5.7% combined 2020-2021 impact would fully reverse over the 2022-2024 forecast horizon.
- No Unwinding: Assumes that changes to the wage distribution within industries are permanent.
- Proportional to Industry Mix: Assumes that impacts from the change in the wage distribution within industry will reverse in proportion to the reversal due solely to industrial mix.
- Midpoint: Assumes a reversal halfway between the Full Unwinding and Proportional to Industry Mix scenarios.

For the September 1, 2021 Pure Premium Rate Filing, staff recommended and the Committee adopted the midpoint scenario. There is considerable uncertainty in these estimates given the volatility

surrounding the underlying wage forecasts and labor market shifts. For example, 2021 saw no unwinding and actually experienced the reverse impact while the average forecast change of 1.7% at the time of the September 1, 2021 Pure Premium Rate Filing ballooned to 8.0% as the year unfolded.

Note that all of the scenarios shown assume that the total unwinding will be judgmentally distributed 50% in 2022, 35% in 2023, and 15% in 2024. The selection of this allocation will affect individual years but will not change the overall impact over the forecast horizon⁴. Also, it should be noted that any adjusted wage forecasts reflected in the September 1, 2022 Pure Premium Rate Filing will impact both the premium and indemnity loss on-leveling.

Staff will discuss the use of these adjustments, particularly the unwinding assumptions, at the meeting.

⁴ The projected 2024 change in the statewide average wage is only partially used in the September 1, 2022 Pure Premium Rate Filing since the average date of experience is approximately September 1, 2023 on September 1, 2022 through August 31, 2023 policies.

Exhibit 1: Industry Share of Employment

Industry	Industry Share of Total Employment by Year						Cumulative Percent Point Change from 2019				
	2019	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Professional, Scientific, and Technical	7.5%	7.9%	8.0%	8.1%	8.2%	8.2%	0.4%	0.5%	0.6%	0.7%	0.7%
Transportation and Warehousing	3.6%	4.0%	4.2%	4.2%	4.2%	4.2%	0.4%	0.6%	0.5%	0.5%	0.6%
Health Care and Social Assistance	13.6%	14.4%	14.4%	14.2%	14.1%	14.1%	0.8%	0.8%	0.6%	0.6%	0.6%
Information	3.2%	3.2%	3.2%	3.3%	3.4%	3.5%	0.0%	0.1%	0.1%	0.2%	0.3%
Admin, Support, Waste Mgmt/Remediation	6.4%	6.3%	6.4%	6.5%	6.6%	6.6%	0.0%	0.1%	0.1%	0.2%	0.2%
Construction	5.0%	5.2%	5.2%	5.1%	5.1%	5.1%	0.2%	0.3%	0.2%	0.1%	0.1%
Management of Companies and Enterprises	1.4%	1.5%	1.5%	1.5%	1.5%	1.5%	0.0%	0.1%	0.1%	0.1%	0.1%
Utilities	0.3%	0.4%	0.4%	0.4%	0.4%	0.4%	0.0%	0.1%	0.0%	0.0%	0.1%
Finance and Insurance	3.0%	3.2%	3.2%	3.1%	3.1%	3.0%	0.2%	0.1%	0.1%	0.0%	0.0%
Other Services (except Public Administration)	3.2%	2.9%	2.9%	3.0%	3.1%	3.2%	-0.4%	-0.4%	-0.2%	-0.1%	0.0%
Mining	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
Agriculture, Forestry, Fishing and Hunting	2.4%	2.5%	2.5%	2.4%	2.3%	2.3%	0.1%	0.1%	0.0%	0.0%	-0.1%
Educational Services	2.1%	2.1%	2.1%	2.1%	2.1%	2.1%	0.0%	0.0%	-0.1%	-0.1%	-0.1%
Real Estate and Rental and Leasing	1.7%	1.7%	1.6%	1.6%	1.6%	1.6%	0.0%	0.0%	-0.1%	-0.1%	-0.1%
Wholesale Trade	3.9%	3.9%	3.8%	3.7%	3.7%	3.7%	0.0%	-0.1%	-0.2%	-0.2%	-0.2%
Accommodation and Food Services	9.6%	7.7%	8.0%	9.0%	9.1%	9.3%	-1.9%	-1.6%	-0.6%	-0.4%	-0.3%
Public Administration	14.5%	15.0%	14.4%	14.1%	14.2%	14.3%	0.5%	-0.2%	-0.4%	-0.3%	-0.3%
Manufacturing	7.4%	7.6%	7.5%	7.3%	7.2%	7.1%	0.2%	0.0%	-0.1%	-0.2%	-0.3%
Arts, Entertainment, and Recreation	1.8%	1.2%	1.3%	1.5%	1.5%	1.5%	-0.6%	-0.5%	-0.4%	-0.4%	-0.3%
Retail Trade	9.3%	9.2%	9.3%	8.9%	8.6%	8.3%	-0.1%	0.1%	0.3%	-0.7%	-1.0%

Source: March 2022 UCLA Forecast

Exhibit 2: Cumulative Change in Employment from 2019 by Year

Industry	Cumulative Change in Employment from 2019					
	2019	2020	2021	2022	2023	2024
Total	17,854,825	-7.3%	-5.5%	-1.2%	1.4%	2.8%
Utilities	56,477	3.6%	9.8%	13.9%	16.5%	19.4%
Transportation and Warehousing	647,439	3.4%	9.6%	13.7%	16.3%	19.2%
Information	562,658	-6.1%	-3.5%	2.1%	8.7%	12.9%
Professional, Scientific, and Technical	1,332,194	-2.1%	1.3%	6.8%	11.1%	12.5%
Management of Companies and Enterprises	255,718	-4.6%	-1.3%	4.0%	8.2%	9.6%
Health Care and Social Assistance	2,424,985	-1.7%	0.0%	3.4%	5.5%	7.0%
Admin, Support, Waste Mgmt/Remediation	1,134,080	-7.6%	-4.3%	0.8%	4.9%	6.2%
Construction	885,742	-3.5%	-0.3%	1.8%	3.5%	5.4%
Finance and Insurance	538,987	-0.6%	-1.3%	0.7%	2.5%	3.9%
Other Services (except Public Administration)	576,533	-18.0%	-16.5%	-8.2%	-2.3%	2.4%
Public Administration	2,596,933	-4.2%	-6.5%	-3.9%	-0.7%	0.9%
Agriculture, Forestry, Fishing and Hunting	422,558	-3.6%	-0.4%	-0.1%	0.0%	0.2%
Accommodation and Food Services	1,706,570	-25.6%	-21.1%	-7.0%	-3.2%	0.1%
Educational Services	383,240	-9.2%	-7.6%	-4.5%	-2.5%	-1.2%
Manufacturing	1,326,892	-4.9%	-5.1%	-2.9%	-1.7%	-1.6%
Wholesale Trade	691,867	-7.0%	-6.8%	-5.2%	-3.6%	-2.8%
Real Estate and Rental and Leasing	302,405	-7.3%	-8.0%	-6.1%	-4.4%	-3.2%
Retail Trade	1,657,267	-8.1%	-4.9%	-4.8%	-6.3%	-8.4%
Mining	22,467	-11.9%	-16.1%	-14.8%	-13.4%	-10.1%
Arts, Entertainment, and Recreation	329,813	-37.3%	-33.5%	-21.7%	-18.5%	-15.7%

Source: March 2022 UCLA Forecast

Exhibit 3: Cumulative Change in Employment from 2019 by Forecast over Forecast Horizon

Industry	Cumulative Employment Change by Forecast													
	2019 - 2021				2019 - 2022				2019 - 2023				2019 - 2024	
	2019 12	2020 03	2020 06	2020 09	2020 12	2021 03	2021 06	2021 09	2021 12	2022 03	2022 06	2022 09	2022 12	2023 03
Total	2.4%	-0.5%	-2.9%	-2.7%	2.6%	2.0%	2.3%	1.1%	1.2%					
Utilities	-0.4%	-1.6%	-0.3%	1.7%	8.0%	8.0%	13.9%	14.0%	14.1%					
Transportation and Warehousing	-0.6%	-1.7%	-0.5%	1.5%	7.8%	7.8%	13.7%	13.8%	13.8%					
Information	3.9%	5.5%	13.5%	9.9%	10.0%	9.5%	8.7%	7.6%	9.6%					
Professional, Scientific, and Technical	10.9%	0.0%	3.5%	8.1%	13.7%	12.5%	13.1%	11.7%	10.6%					
Management of Companies and Enterprises	8.0%	-2.6%	0.7%	5.3%	10.8%	9.5%	10.2%	8.8%	7.7%					
Health Care and Social Assistance	4.8%	5.2%	3.6%	0.3%	4.4%	5.8%	5.5%	5.1%	5.1%					
Admin, Support, Waste Mgmt/Remediation	4.7%	-5.6%	-2.3%	2.1%	7.4%	6.2%	6.8%	5.5%	4.5%					
Construction	4.8%	0.5%	-1.5%	-2.8%	3.1%	3.7%	5.2%	4.8%	3.4%					
Finance and Insurance	3.9%	1.8%	5.3%	5.1%	7.6%	7.8%	5.7%	2.9%	2.7%					
Other Services (except Public Administration)	-1.4%	-0.5%	-4.9%	-3.2%	0.7%	1.0%	0.9%	-0.1%	-1.4%					
Public Administration	1.2%	-0.5%	-4.8%	-1.8%	1.9%	0.3%	0.3%	-0.5%	-0.6%					
Agriculture, Forestry, Fishing and Hunting	-1.5%	-0.1%	-1.1%	-6.2%	-2.2%	-1.6%	1.0%	0.6%	-0.3%					
Accommodation and Food Services	6.0%	0.4%	-12.9%	-16.2%	0.0%	-1.8%	-0.2%	-3.3%	-2.9%					
Educational Services	-3.2%	-2.8%	-4.3%	-7.3%	-3.6%	-2.3%	-2.6%	-2.9%	-2.9%					
Manufacturing	-1.5%	-2.2%	-3.3%	-4.3%	0.0%	-1.5%	-1.7%	-1.8%	-1.8%					
Wholesale Trade	-0.1%	-2.2%	-4.2%	-3.4%	-0.8%	-1.6%	-1.8%	-2.9%	-3.2%					
Real Estate and Rental and Leasing	-3.2%	-5.1%	-1.8%	-2.0%	0.3%	0.5%	-1.4%	-4.1%	-4.3%					
Retail Trade	-1.6%	-3.3%	-9.1%	-7.8%	-5.6%	-6.7%	-8.5%	-9.7%	-7.2%					
Mining	-0.5%	-0.8%	-15.9%	-5.4%	-2.5%	-1.4%	-1.8%	-8.1%	-8.7%					
Arts, Entertainment, and Recreation	-10.7%	-15.5%	-26.7%	-29.5%	-15.8%	-17.3%	-16.0%	-18.6%	-18.3%					

Source: December 2019 through March 2022 UCLA Forecasts

Note: Forecast horizon differs by forecast

Exhibit 4: Deviation of Projected Indemnity Count Distribution

NAICS	UCLA CY Employment				A				B				C				
	2019	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024	2019	2020	2021	2022	2023	2024
11&21	445,025	427,050	439,825	441,328	442,183	443,673	-4.0%	3.0%	0.3%	0.2%	0.3%	5.5%	5.8%	5.8%	5.6%	5.5%	5.4%
22&23	942,219	912,856	945,311	966,209	982,645	1,000,719	-3.1%	3.6%	2.2%	1.7%	1.8%	11.3%	11.9%	12.0%	11.7%	11.7%	11.7%
31	1,326,892	1,261,367	1,259,192	1,288,534	1,304,920	1,306,006	-4.9%	0.2%	2.3%	1.3%	0.1%	15.3%	15.8%	15.4%	15.0%	14.9%	14.7%
42	691,867	643,417	644,692	655,633	667,076	672,233	-7.0%	0.2%	1.7%	1.7%	0.8%	7.2%	7.3%	7.1%	6.9%	6.9%	6.9%
44	1,657,267	1,523,175	1,576,150	1,577,405	1,553,084	1,518,739	-8.1%	3.5%	0.1%	-1.5%	-2.2%	11.7%	11.7%	11.8%	11.3%	10.9%	10.5%
48	647,439	669,661	709,672	736,167	752,753	771,757	3.4%	6.0%	3.7%	2.3%	2.5%	7.9%	8.9%	9.2%	9.1%	9.1%	9.2%
51	562,658	528,175	542,917	574,509	611,500	635,316	-6.1%	2.8%	5.8%	6.4%	3.9%	1.8%	1.9%	1.9%	1.9%	2.0%	2.0%
52	538,987	535,632	531,978	543,020	552,640	559,791	-0.6%	-0.7%	2.1%	1.8%	1.3%	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%
53	302,405	280,226	278,314	284,091	289,124	292,865	-7.3%	-0.7%	2.1%	1.8%	1.3%	2.1%	2.2%	2.1%	2.0%	2.0%	2.0%
54	1,332,194	1,304,412	1,349,958	1,422,313	1,480,381	1,498,735	-2.1%	3.5%	5.4%	4.1%	1.2%	2.0%	2.2%	2.2%	2.2%	2.3%	2.3%
56	1,134,080	1,048,372	1,084,978	1,143,131	1,189,801	1,204,552	-7.6%	3.5%	5.4%	4.1%	1.2%	5.7%	5.7%	5.8%	5.8%	5.9%	5.9%
61	383,240	347,885	353,985	365,963	373,507	378,745	-9.2%	1.8%	3.4%	2.1%	1.4%	1.8%	1.8%	1.8%	1.7%	1.7%	1.8%
62	2,424,985	2,383,598	2,425,390	2,507,465	2,559,154	2,595,039	-1.7%	1.8%	3.4%	2.1%	1.4%	8.2%	8.8%	8.7%	8.6%	8.6%	8.6%
71	329,813	206,679	219,175	258,343	268,843	277,873	-37.3%	6.0%	17.9%	4.1%	3.4%	1.9%	1.3%	1.4%	1.5%	1.6%	1.6%
72	1,706,570	1,270,055	1,346,842	1,587,535	1,652,060	1,707,548	-25.6%	6.0%	17.9%	4.1%	3.4%	12.8%	10.4%	10.7%	12.1%	12.4%	12.6%
81	576,533	472,992	481,233	529,143	563,020	590,640	-18.0%	1.7%	10.0%	6.4%	4.9%	3.5%	3.1%	3.1%	3.2%	3.4%	3.5%
Total	17,854,825	16,546,217	16,868,958	17,642,259	18,098,036	18,354,127	-7.3%	2.0%	4.6%	2.6%	1.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Source: March 2022 UCLA Forecast and USR Data
Note: AY 2019 count distribution is taken from USR.
Example calculation for NAICS 11 & 21 in 2020:

$$5.8\% = \frac{5.5\% \times (1 - 4.0\%)}{\sum (B \times (1 + A))}$$

Exhibit 5.1: Change in Indemnity Severity due to Industry Mix

NAICS	Indemnity Severity Developed to 5th RL by PY						Severity Relativity	Severity Change Due to Industry Mix				
	2015	2016	2017	2018	2019			2020	2021	2022	2023	2024
11&21	17,132	17,770	18,428	18,221	22,034	0.895	1-Yr	1.42%	-0.03%	-0.54%	-0.01%	0.03%
22&23	32,699	33,856	35,712	38,982	44,674	1.814	3-Yr	1.48%	-0.04%	-0.55%	0.00%	0.03%
31	22,966	21,054	23,995	25,012	29,616	1.202	5-Yr	1.48%	-0.04%	-0.55%	-0.01%	0.03%
42	21,031	20,957	20,363	21,497	26,382	1.071						
44	18,738	18,986	18,654	20,137	24,091	0.978						
48	26,166	25,757	26,361	28,589	33,184	1.347						
51	28,886	28,602	30,523	32,728	33,373	1.355						
52	25,961	27,879	28,872	30,375	31,400	1.275						
53	22,411	22,790	24,085	25,196	27,874	1.132						
54	23,710	24,241	23,836	25,473	28,163	1.143						
56	22,046	23,310	23,300	26,020	31,704	1.287						
61	19,893	18,832	19,374	18,325	19,946	0.810						
62	20,044	20,099	20,284	21,053	22,857	0.928						
71	19,347	17,513	21,161	21,285	23,200	0.942						
72	13,651	13,766	13,971	14,894	17,894	0.726						
81	20,848	20,534	21,732	22,304	28,908	1.174						
Total	21,745	21,499	22,270	23,091	24,633	1.000						

$$\frac{\sum (D \times C)}{\sum (D \times B)}$$

1.48%

Source: March 2022 UCLA Forecast and USR Data

Exhibit 5.2: Change in Medical Severity due to Industry Mix

NAICS	Medical Severity Developed to 5th RL by PY							Severity Relativity	Severity Relativity	Severity Change Due to Industry Mix				
	2015	2016	2017	2018	2019	1-Yr	3-Yr	5-Yr		2020	2021	2022	2023	2024
11&21	20,819	20,927	24,857	23,281	24,262	1,058	1,060	1,009	1-Yr	1.39%	0.05%	-0.48%	0.02%	0.06%
22&23	32,793	35,438	35,774	33,681	31,565	1,377	1,479	1,498	3-Yr	1.17%	0.00%	-0.46%	-0.02%	0.02%
31	23,657	20,548	23,141	21,041	17,431	0.760	0.902	0.937	5-Yr	1.08%	-0.02%	-0.44%	-0.02%	0.02%
42	22,633	22,307	19,776	18,287	16,741	0.730	0.802	0.883						
44	19,321	19,929	18,927	18,492	14,469	0.631	0.760	0.807						
48	23,090	21,755	22,558	21,283	21,373	0.932	0.955	0.974						
51	22,508	19,865	21,630	23,798	24,371	1.063	1.022	0.992						
52	25,958	25,563	27,613	26,830	22,165	0.967	1.122	1.134						
53	21,448	22,694	23,888	23,014	24,372	1.063	1.043	1.021						
54	24,253	22,743	25,436	21,874	26,727	1.166	1.083	1.070						
56	23,095	24,350	23,143	24,844	23,587	1.029	1.048	1.054						
61	22,888	20,209	22,544	19,209	17,890	0.780	0.873	0.909						
62	20,364	20,091	19,740	19,093	15,133	0.660	0.790	0.836						
71	20,398	18,395	22,312	18,890	13,529	0.590	0.801	0.828						
72	17,055	16,861	16,007	16,052	14,030	0.612	0.675	0.708						
81	22,152	19,682	21,021	18,553	15,095	0.659	0.800	0.854						
Total	22,566	22,144	23,015	22,377	22,922	1.000	1.000	1.000						

$$\frac{\sum \text{1-Yr}}{\sum \text{3-Yr}} = \frac{(D \times C)}{(D \times B)}$$

1.17%

Source: March 2022 UCLA Forecast and USR Data

Exhibit 5.3: Change in Total Severity due to Industry Mix

NAICS	Total Severity Developed to 5th RL by PY					Severity Relativity	Severity Relativity	Severity Change Due to Industry Mix				
	2015	2016	2017	2018	2019	1-Yr	3-Yr	2020	2021	2022	2023	2024
11&21	37,951	38,697	43,285	41,502	46,296	0.974	0.947	1.41%	0.00%	-0.51%	0.01%	0.04%
22&23	65,492	69,294	71,486	72,663	76,239	1.603	1.593	1.33%	-0.02%	-0.51%	-0.01%	0.03%
31	46,623	41,602	47,136	46,054	47,047	0.989	1.014	1.29%	-0.03%	-0.50%	-0.01%	0.02%
42	43,664	43,264	40,140	39,784	43,124	0.907	0.889					
44	38,060	38,915	37,581	38,629	38,560	0.811	0.830					
48	49,256	47,511	48,919	49,872	54,557	1.147	1.108					
51	51,394	48,468	52,153	56,526	57,745	1.214	1.203					
52	51,919	53,442	56,485	57,205	53,565	1.126	1.211					
53	43,859	45,484	47,972	48,211	52,246	1.099	1.073					
54	47,963	46,984	49,272	47,347	54,890	1.154	1.095					
56	45,141	47,660	46,443	50,863	55,291	1.163	1.102					
61	42,780	39,042	41,918	37,534	37,835	0.796	0.849					
62	40,408	40,190	40,024	40,146	37,990	0.799	0.855					
71	39,745	35,907	43,473	40,175	36,729	0.772	0.872					
72	30,706	30,627	29,978	30,947	31,923	0.671	0.671					
81	43,000	40,216	42,753	40,857	44,003	0.925	0.923					
Total	44,311	43,643	45,285	45,468	47,554	1.000	1.000					

$$\frac{\sum (D \times C)}{\sum (D \times B)}$$

1.33%

Source: March 2022 UCLA Forecast and USR Data

Exhibit 6.1: UCLA Forecasts of Unemployment Rate and Aggregate Employment

Unemployment Rate by Forecast										
Year	2019 12	2020 03	2020 06	2020 09	2020 12	2021 03	2021 06	2021 09	2021 12	2022 03
2019	4.2%	4.1%	4.1%	4.1%	4.1%	4.1%	4.2%	4.2%	4.2%	4.1%
2020	4.3%	5.5%	10.5%	10.8%	10.3%	10.2%	10.2%	10.2%	10.2%	10.2%
2021	4.6%	6.6%	8.2%	8.6%	6.9%	6.8%	7.1%	7.6%	7.7%	7.7%
2022	---	---	6.8%	6.6%	5.2%	5.1%	5.2%	5.6%	5.6%	5.5%
2023	---	---	---	---	4.4%	4.1%	4.2%	4.4%	4.4%	4.5%
2024	---	---	---	---	---	---	---	---	---	4.3%

Aggregate Employment by Forecast (millions)										
Year	2019 12	2020 03	2020 06	2020 09	2020 12	2021 03	2021 06	2021 09	2021 12	2022 03
2019	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
2020	18.2	17.8	16.2	16.5	16.6	16.6	16.5	16.5	16.5	16.5
2021	18.4	17.8	16.3	16.8	17.2	17.3	17.0	16.9	16.9	16.9
2022	---	---	17.3	17.4	17.9	17.8	17.9	17.7	17.6	17.6
2023	---	---	---	---	18.3	18.2	18.3	18.1	18.1	18.1
2024	---	---	---	---	---	---	---	---	---	18.4

Source: December 2019 through March 2022 UCLA Forecasts

Note: Forecast horizon differs by forecast

Exhibit 6.2: Frequency Model Projection Impact of Economic Forecasts

Frequency Model Impact by Forecast											
Year	2019 12	2020 03	2020 06	2020 09	2020 12	2021 03	2021 06	2021 09	2021 12	2022 03	
2020	-0.2%	-3.0%	-9.9%	-10.1%	-9.6%	-9.6%	-9.3%	-9.3%	-9.3%	-9.4%	
2021	-0.8%	-1.9%	2.6%	2.3%	4.1%	4.3%	3.7%	3.1%	2.9%	2.9%	
2022	---	---	1.9%	2.8%	3.1%	3.0%	3.3%	3.1%	3.4%	3.5%	
2023	---	---	---	---	1.6%	2.2%	2.1%	2.6%	2.5%	2.2%	
2024	---	---	---	---	---	---	---	---	---	0.6%	
Horizon											

Frequency Model Impact by Forecast - Employment Rate Alternative											
Year	2019 12	2020 03	2020 06	2020 09	2020 12	2021 03	2021 06	2021 09	2021 12	2022 03	
2020	1.3%	-0.6%	-9.7%	-7.9%	-7.5%	-7.6%	-7.7%	-7.7%	-7.7%	-7.7%	
2021	0.5%	-0.5%	1.2%	1.6%	3.8%	4.2%	2.9%	2.2%	2.2%	2.2%	
2022	---	---	5.4%	3.4%	3.5%	2.9%	4.6%	4.2%	4.1%	4.2%	
2023	---	---	---	---	2.2%	2.0%	2.0%	2.1%	2.2%	2.3%	
2024	---	---	---	---	---	---	---	---	---	1.2%	

Source: December 2019 through March 2022 UCLA Forecasts

Note: Forecast horizon differs by forecast

Exhibit 7: Indemnity Claim Frequency History and Projections

AY	Intra-Class Indemnity Claim Frequency(a)	Inter-Class Indemnity Claim Frequency Index(b)	Overall Indemnity Claim Frequency	Annual Percent Changes		
				Intra-Class	Inter-Class	Overall
1979	0.316	0.921	0.508	---	---	---
1980	0.296	0.914	0.471	-6.54%	-0.75%	-7.24%
1981	0.285	0.900	0.447	-3.54%	-1.56%	-5.04%
1982	0.281	0.882	0.431	-1.59%	-2.00%	-3.56%
1983	0.298	0.873	0.454	6.20%	-0.98%	5.17%
1984	0.326	0.871	0.496	9.53%	-0.18%	9.32%
1985	0.333	0.867	0.504	2.05%	-0.51%	1.52%
1986	0.325	0.859	0.487	-2.38%	-0.92%	-3.28%
1987	0.330	0.854	0.492	1.53%	-0.56%	0.97%
1988	0.332	0.854	0.495	0.69%	-0.06%	0.64%
1989	0.341	0.853	0.507	2.47%	-0.08%	2.39%
1990	0.371	0.845	0.548	9.04%	-0.89%	8.07%
1991	0.372	0.832	0.540	0.28%	-1.58%	-1.30%
1992	0.334	0.813	0.474	-10.27%	-2.34%	-12.37%
1993	0.303	0.752	0.398	-9.21%	-7.46%	-15.98%
1994	0.271	0.733	0.347	-10.52%	-2.56%	-12.81%
1995	0.271	0.702	0.331	-0.28%	-4.22%	-4.49%
1996	0.252	0.693	0.305	-6.78%	-1.25%	-7.94%
1997	0.244	0.685	0.291	-3.29%	-1.23%	-4.48%
1998	0.235	0.680	0.279	-3.73%	-0.60%	-4.31%
1999	0.238	0.670	0.279	1.48%	-1.49%	-0.02%
2000	0.248	0.651	0.281	3.96%	-2.91%	0.93%
2001	0.231	0.652	0.262	-6.91%	0.13%	-6.78%
2002	0.225	0.660	0.260	-2.31%	1.34%	-1.00%
2003	0.219	0.662	0.253	-2.85%	0.20%	-2.66%
2004	0.182	0.660	0.210	-16.67%	-0.21%	-16.84%
2005	0.158	0.658	0.181	-13.59%	-0.31%	-13.86%
2006	0.149	0.653	0.170	-5.60%	-0.81%	-6.37%
2007	0.146	0.649	0.166	-1.71%	-0.68%	-2.38%
2008	0.142	0.641	0.159	-2.71%	-1.18%	-3.86%
2009	0.142	0.629	0.156	-0.20%	-1.82%	-2.02%
2010	0.155	0.617	0.167	8.87%	-1.87%	6.83%
2011	0.157	0.609	0.166	1.22%	-1.42%	-0.22%
2012	0.164	0.601	0.172	4.71%	-1.20%	3.46%
2013	0.164	0.599	0.172	0.36%	-0.36%	0.00%
2014	0.165	0.600	0.173	0.16%	0.21%	0.37%
2015	0.162	0.597	0.169	-1.45%	-0.59%	-2.03%
2016	0.158	0.593	0.163	-2.66%	-0.74%	-3.38%
2017	0.155	0.588	0.159	-1.83%	-0.72%	-2.53%
2018	0.154	0.586	0.158	-0.46%	-0.42%	-0.88%
2019(c)	0.153	0.573	0.153	-0.67%	-2.13%	-2.79%
2019(d)	0.154	0.573	0.154	---	---	---
2020(e)	0.148	0.563	0.145	-3.91%	-1.77%	-5.61%
2021	0.152	0.576	0.152	2.73%	2.27%	5.06%
2022	0.151	0.578	0.152	-0.40%	0.37%	-0.03%
2023	0.145	0.576	0.146	-4.13%	-0.37%	-4.49%
2024	0.136	0.575	0.136	-6.24%	-0.12%	-6.36%

Notes: (a) All frequencies are per \$M exposure at PY 2020 Level.
(b) Index is to AY 1961. Index has been revised due to on-leveling reassessments for Cal-OSHA inspections. See Actuarial Committee item AC21-12-09.
(c) 2019 accidents on 2019 and 2018 policies.
(d) 2019 accidents on 2018 policies only.
(e) AY 2020 percent changes are based on a comparison of 2020 accidents on 2019 policies to 2019 accidents on 2018 policies.
(f) Forecasts below thick solid line.

Source: WCIRB Indemnity Frequency Model

Exhibit 8: Average Wage Forecasts

UCLA Forecasts													Department of Finance Forecasts						Current Forecast Average
Year	2019 12	2020 03	2020 06	Average Wage by Forecast						Average Wage by Forecast									
				2020 09	2020 12	2021 03	2021 06	2021 09	2021 12	2022 03	2019 11	2020 04	2020 11	2021 04	2021 11				
2019	75,606	76,602	---	76,524	76,480	76,480	76,471	76,471	76,504	76,503	74,304	74,499	74,794	74,673	74,708				
2020	79,235	77,774	---	79,683	82,009	83,832	84,069	84,832	85,193	85,200	76,829	75,558	79,461	81,597	82,588				
2021	82,332	79,857	---	80,198	81,424	84,001	86,248	88,399	89,944	93,572	79,276	77,501	80,777	83,544	87,623				
2022	---	---	---	82,767	83,279	85,426	85,748	86,559	88,797	95,712	81,800	79,921	82,376	84,692	90,435				
2023	---	---	---	---	86,425	88,146	88,488	89,087	90,037	96,106	84,380	82,627	84,426	87,110	93,674				
2024	---	---	---	---	---	---	---	---	---	96,585	---	---	86,690	89,900	97,076				
Year	2019 12	2020 03	2020 06	Annual Change by Forecast						2019 11	2020 04	2020 11	2021 04	2021 11					
2020	4.8%	1.5%	---	4.1%	7.2%	9.6%	9.9%	10.9%	11.4%	11.4%	3.4%	1.4%	6.2%	9.3%	10.5%	11.0%			
2021	3.9%	2.7%	---	0.6%	-0.7%	0.2%	2.6%	4.2%	5.6%	9.8%	3.2%	2.6%	1.7%	2.4%	6.1%	8.0%			
2022	---	---	---	3.2%	2.3%	1.7%	-0.6%	-2.1%	-1.3%	2.3%	3.2%	3.1%	2.0%	1.4%	3.2%	2.8%			
2023	---	---	---	---	3.8%	3.2%	3.2%	2.9%	1.4%	0.4%	3.2%	3.4%	2.5%	2.9%	3.6%	2.0%			
2024	---	---	---	---	---	---	---	---	---	0.5%	---	---	2.7%	3.2%	3.6%	2.1%			

Source: December 2019 through March 2022 UCLA Forecasts & November 2019 through November 2021 Department of Finance Forecasts

Note: Forecast horizon differs by forecast

**Exhibit 9: Change in Average Wage Due to Industrial Mix
Bureau of Labor Statistics Current Employment Statistics Data Series**

Employment in Thousands	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Supersector															
Construction	892.8	787.9	623.3	560.0	561.5	590.2	637.7	674.4	732.1	775.7	810.3	860.2	885.2	855.1	882.8
Manufacturing	1,466.2	1,429.0	1,286.0	1,247.8	1,254.4	1,260.3	1,262.4	1,280.1	1,303.2	1,310.0	1,312.6	1,324.0	1,326.8	1,261.7	1,260.3
Trade, Transportation, and Utilities	2,897.9	2,834.9	2,628.7	2,612.5	2,661.9	2,713.5	2,768.4	2,834.8	2,908.0	2,966.0	3,016.1	3,046.9	3,053.7	2,894.9	2,992.8
Information	471.4	476.4	441.1	428.5	430.9	436.3	450.0	463.9	488.6	526.4	529.3	543.2	562.1	529.0	544.3
Financial Activities	897.8	843.0	783.9	760.9	762.3	773.7	783.0	782.8	802.6	823.3	832.7	837.9	841.1	815.3	810.6
Professional and Business Services	2,279.0	2,249.2	2,070.6	2,084.3	2,142.1	2,249.7	2,347.6	2,427.0	2,490.8	2,531.7	2,582.4	2,669.4	2,721.9	2,595.2	2,690.0
Education and Health Services	1,966.4	2,051.5	2,114.2	2,131.9	2,162.7	2,232.6	2,308.6	2,377.9	2,464.6	2,552.9	2,650.3	2,722.2	2,807.2	2,731.6	2,780.6
Leisure and Hospitality	1,560.1	1,572.4	1,502.9	1,500.8	1,534.8	1,597.4	1,675.2	1,757.1	1,829.3	1,902.9	1,953.6	1,993.2	2,036.3	1,477.6	1,574.7
Other Services	511.1	510.2	484.9	483.6	492.4	503.5	515.5	534.8	543.6	553.7	563.7	571.7	576.2	473.2	482.9
Mining and Logging	24.6	26.6	23.9	24.6	26.7	28.3	28.3	29.3	26.4	22.3	21.9	22.4	22.5	19.8	18.9
Average Weekly Wage															
Supersector															
Construction	922.7	929.4	965.8	979.8	979.2	1,073.8	1,139.2	1,143.5	1,156.2	1,189.5	1,258.4	1,308.5	1,380.2	1,405.4	1,436.6
Manufacturing	964.8	981.4	1,015.6	1,047.7	1,064.0	1,077.6	1,119.2	1,144.4	1,156.9	1,178.5	1,232.1	1,266.0	1,310.2	1,344.5	1,416.4
Trade, Transportation, and Utilities	720.8	717.1	725.8	804.6	803.9	761.9	757.7	765.5	801.8	826.2	841.7	839.3	865.8	942.3	996.7
Information	1,239.4	1,231.8	1,205.8	1,321.5	1,493.9	1,554.7	1,516.5	1,528.9	1,548.5	1,521.3	1,609.2	1,723.0	1,870.1	1,935.7	2,069.6
Financial Activities	1,298.5	1,136.7	1,127.7	1,114.1	1,110.8	1,121.2	1,152.1	1,226.5	1,250.8	1,270.6	1,325.6	1,411.4	1,462.7	1,530.7	1,631.4
Professional and Business Services	1,089.2	1,082.1	1,110.1	1,155.4	1,236.0	1,221.2	1,210.6	1,236.3	1,300.2	1,342.6	1,398.5	1,450.4	1,513.8	1,621.7	1,706.3
Education and Health Services	807.5	834.8	853.7	855.9	871.0	927.0	939.6	945.2	942.6	962.5	1,006.7	1,036.5	1,057.4	1,082.8	1,127.3
Leisure and Hospitality	367.4	374.2	374.5	385.2	391.9	392.6	394.7	416.3	438.8	457.8	488.2	485.6	511.5	536.8	602.8
Other Services	582.5	593.7	640.8	634.2	671.3	667.5	687.0	706.5	741.5	749.2	819.3	842.2	877.3	977.0	993.6
Mining and Logging	935.5	1,892.8	3,872.1	4,700.1	5,416.2	2,675.0	1,408.7	784.9	742.8	854.1	1,233.7	1,428.9	1,528.0	1,283.6	2,092.9
New Industry Mix x Old Wages															
Old Industry Mix x Old Wages	848.2	841.3	860.2	860.2	896.1	924.8	924.8	929.1	946.4	973.6	996.2	1,039.4	1,073.3	1,138.2	1,194.2
Laspeyres Index	0.996	0.996	0.996	0.999	1.000	1.000	0.999	0.999	1.000	1.000	0.999	1.001	1.001	1.020	0.998
New Industry Mix x New Wages															
Old Industry Mix x New Wages	845.0	845.0	861.4	896.1	924.6	925.3	930.4	946.3	973.8	997.2	1,037.9	1,072.7	1,116.1	1,197.1	1,259.3
Paasche Index	0.997	0.997	0.995	0.999	1.000	1.000	1.000	0.998	1.000	1.000	0.999	1.002	1.001	1.019	0.998
Geomean of Laspeyres and Paasche Indices															
	0.997	0.997	0.995	0.999	1.000	1.000	0.999	0.999	1.000	1.000	0.999	1.001	1.001	1.020	0.998

Source: BLS CES Data Set

Exhibit 10.1: Change in Average Wage Due to Industrial Mix
Bureau of Labor Statistics Quarterly Census of Employment and Wages Data Series/UCLA Anderson Forecast

NAICS	QCEW Average Annual Wage												Average Relativity				
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	1-Yr	3-Yr	5-Yr	2020	2020
11	24,773	25,563	26,636	27,740	28,751	30,283	32,316	33,299	34,521	36,212	39,314	39,314	0.495	0.502	0.505	0.495	0.495
21	129,811	128,432	134,410	135,181	138,053	136,862	134,266	121,769	123,590	124,226	117,665	117,665	1.483	1.676	1.802	1.483	1.483
22	100,108	104,672	107,762	114,079	114,900	124,352	123,633	131,945	138,608	145,107	145,107	145,107	1.828	1.899	1.928	1.828	1.828
23	54,865	56,206	57,999	58,211	59,464	62,257	64,472	67,561	70,084	73,343	76,740	76,740	0.967	1.006	1.013	0.967	0.967
31	72,561	74,882	77,364	77,916	81,368	83,868	87,160	92,246	95,627	98,222	109,888	109,888	1.385	1.386	1.388	1.385	1.385
42	64,348	66,794	68,407	68,871	71,780	75,654	75,496	78,610	78,293	80,979	86,519	86,519	0.530	0.533	0.537	0.530	0.530
44	30,893	31,552	32,560	32,412	33,175	34,630	34,527	35,466	36,669	38,129	42,092	42,092	0.790	0.834	0.835	0.790	0.790
48	46,212	47,426	48,609	49,300	50,140	51,582	53,153	54,446	56,960	62,833	62,833	62,833	2.745	2.725	2.625	2.745	2.745
51	99,973	106,238	113,046	132,339	136,214	145,627	147,264	172,309	188,173	191,278	217,892	217,892	1.872	1.879	1.872	1.872	1.872
52	92,300	95,702	101,367	101,804	108,366	113,062	116,415	123,665	128,085	135,130	148,594	148,594	0.976	1.002	1.009	0.976	0.976
53	48,610	51,329	54,309	55,792	59,119	62,541	63,903	67,607	68,901	72,964	77,460	77,460	1.785	1.785	1.783	1.785	1.785
54	89,642	93,421	102,250	97,589	103,921	111,771	111,856	116,802	122,460	127,874	141,647	141,647	0.881	0.881	0.881	0.881	0.881
55	94,264	100,545	105,363	110,264	118,880	123,826	127,534	128,485	134,943	135,414	151,888	151,888	0.881	0.881	0.881	0.881	0.881
56	36,553	37,777	39,322	38,769	39,477	41,402	42,513	44,781	45,463	48,062	52,454	52,454	0.967	1.006	1.013	0.967	0.967
61	44,426	45,413	46,134	47,197	48,787	50,571	51,782	53,389	54,989	56,271	62,532	62,532	1.385	1.386	1.388	1.385	1.385
62	52,389	53,506	54,406	46,218	46,848	48,396	49,321	50,401	51,795	53,580	57,046	57,046	0.530	0.533	0.537	0.530	0.530
71	49,369	51,591	53,066	52,164	53,678	54,527	55,447	57,842	59,737	61,870	77,303	77,303	0.790	0.834	0.835	0.790	0.790
72	19,010	19,422	19,827	19,944	20,570	21,778	23,022	23,858	25,006	26,675	29,377	29,377	0.976	1.002	1.009	0.976	0.976
81	25,919	26,178	24,209	34,171	35,023	36,446	37,701	40,412	40,668	42,293	47,080	47,080	0.976	1.002	1.009	0.976	0.976
92	57,002	58,575	59,506	60,189	62,175	64,138	65,787	67,701	70,128	72,662	78,041	78,041	0.976	1.002	1.009	0.976	0.976
Total	53,700	55,412	57,389	57,093	59,037	61,653	62,948	65,920	68,500	71,332	79,368	79,368	0.983	1.009	1.020	0.983	0.983

NAICS	Average Annual Wage Relativity												Average Relativity				
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	1-Yr	3-Yr	5-Yr	2020	2020
11	0.461	0.461	0.464	0.486	0.487	0.491	0.513	0.505	0.504	0.508	0.495	0.495	0.495	0.502	0.505	0.495	0.495
21	2.417	2.318	2.342	2.368	2.338	2.220	2.133	1.847	1.804	1.742	1.483	1.483	1.483	1.676	1.802	1.483	1.483
22	1.864	1.889	1.878	1.998	1.946	2.017	1.964	1.979	1.926	1.943	1.828	1.828	1.828	1.899	1.928	1.828	1.828
23	1.022	1.014	1.011	1.020	1.007	1.010	1.024	1.025	1.023	1.028	0.967	0.967	0.967	1.006	1.013	0.967	0.967
31	1.351	1.351	1.348	1.365	1.378	1.360	1.385	1.399	1.396	1.377	1.385	1.385	1.385	1.386	1.388	1.385	1.385
42	1.198	1.205	1.192	1.206	1.216	1.227	1.199	1.192	1.143	1.135	1.090	1.090	1.090	1.123	1.152	1.090	1.090
44	0.575	0.569	0.567	0.568	0.562	0.562	0.549	0.538	0.535	0.535	0.530	0.530	0.530	0.533	0.537	0.530	0.530
48	0.861	0.856	0.847	0.864	0.849	0.837	0.844	0.826	0.832	0.881	0.790	0.790	0.790	0.834	0.835	0.790	0.790
51	1.862	1.917	1.970	2.318	2.307	2.362	2.339	2.614	2.747	2.682	2.745	2.745	2.745	2.725	2.625	2.745	2.745
52	1.719	1.727	1.766	1.783	1.836	1.834	1.849	1.876	1.870	1.894	1.872	1.872	1.872	1.879	1.872	1.872	1.872
53	0.905	0.926	0.946	0.977	1.001	1.014	1.015	1.026	1.006	1.023	0.976	0.976	0.976	1.002	1.009	0.976	0.976
54	1.669	1.686	1.782	1.709	1.760	1.813	1.777	1.772	1.788	1.793	1.785	1.785	1.785	1.785	1.783	1.785	1.785
55	1.755	1.814	1.836	1.931	2.014	2.008	2.026	1.949	1.970	1.998	1.911	1.911	1.911	1.927	1.951	1.911	1.911
56	0.681	0.682	0.685	0.679	0.669	0.672	0.675	0.679	0.664	0.674	0.661	0.661	0.661	0.666	0.671	0.661	0.661
61	0.827	0.820	0.804	0.827	0.826	0.820	0.823	0.810	0.803	0.789	0.788	0.788	0.788	0.793	0.802	0.788	0.788
62	0.976	0.966	0.948	0.810	0.794	0.785	0.784	0.765	0.756	0.751	0.719	0.719	0.719	0.742	0.755	0.719	0.719
71	0.919	0.931	0.925	0.914	0.909	0.884	0.881	0.877	0.872	0.867	0.974	0.974	0.974	0.974	0.894	0.974	0.974
72	0.354	0.350	0.345	0.349	0.348	0.353	0.366	0.362	0.365	0.374	0.370	0.370	0.370	0.370	0.367	0.370	0.370
81	0.483	0.472	0.422	0.599	0.593	0.591	0.599	0.613	0.594	0.593	0.593	0.593	0.593	0.593	0.598	0.593	0.593
92	1.061	1.057	1.037	1.054	1.053	1.040	1.045	1.027	1.024	1.019	0.983	0.983	0.983	1.009	1.020	0.983	0.983

Source: BLS QCEW Data Set & UCLA Anderson Forecast

Exhibit 10.2: Change in Average Wage Due to Industrial Mix
Bureau of Labor Statistics Quarterly Census of Employment and Wages Data Series/UCLA Anderson Forecast

NAICS	UCLA Employment																Change Due to Mix*			
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2022	2023	2024		
11	382,925	389,650	399,808	412,733	416,667	422,458	425,342	422,408	421,658	422,558	407,267	420,975	422,182	422,737	423,482					
21	24,617	26,700	28,333	28,308	29,242	26,425	22,292	21,867	22,417	22,467	19,783	18,850	19,145	19,446	20,191					
22	57,788	58,603	59,611	59,097	58,170	58,250	59,361	58,077	56,587	56,477	58,523	62,019	64,335	65,784	67,445					
23	559,917	561,608	590,258	637,717	674,550	731,758	775,092	810,142	860,575	885,742	854,333	883,292	901,874	916,860	933,274					
31	1,247,825	1,254,433	1,260,217	1,262,342	1,280,233	1,303,283	1,310,117	1,312,708	1,324,092	1,326,892	1,261,367	1,259,192	1,288,534	1,304,920	1,306,006					
42	629,083	641,742	655,983	670,833	682,883	690,167	692,367	695,125	698,042	691,867	643,417	644,692	655,633	667,076	672,233					
44	1,516,675	1,545,258	1,568,875	1,593,225	1,627,667	1,660,292	1,680,033	1,688,592	1,683,842	1,657,267	1,523,175	1,576,150	1,577,405	1,553,084	1,518,739					
48	408,912	416,122	428,380	444,578	466,363	498,975	535,047	573,773	607,855	647,439	669,661	709,672	736,167	752,753	771,757					
51	428,342	431,383	436,633	450,200	463,475	488,167	526,375	530,142	543,850	562,658	528,175	542,917	574,509	611,500	635,316					
52	512,388	515,004	522,834	524,056	517,278	530,446	545,019	547,527	543,508	538,987	535,632	531,978	543,020	552,640	559,791					
53	248,346	247,154	250,916	259,028	265,489	271,921	277,856	285,214	294,659	302,405	280,226	278,314	284,091	289,124	292,865					
54	1,013,547	1,046,929	1,099,131	1,136,990	1,167,360	1,191,881	1,211,756	1,238,012	1,282,320	1,332,194	1,304,412	1,349,958	1,422,313	1,480,381	1,498,735					
55	208,727	213,465	219,786	231,539	236,012	237,656	236,772	246,963	255,804	255,718	243,833	252,347	265,872	276,727	280,158					
56	861,300	881,356	930,641	979,463	1,023,853	1,060,905	1,082,872	1,097,034	1,131,418	1,134,080	1,048,372	1,084,978	1,143,131	1,189,801	1,204,552					
61	292,676	307,751	317,176	327,414	339,630	347,367	354,581	363,616	373,654	383,240	347,885	353,985	365,963	373,507	378,745					
62	1,839,049	1,854,707	1,915,257	1,981,286	2,038,479	2,117,000	2,197,461	2,286,801	2,348,938	2,424,985	2,383,598	2,425,390	2,507,465	2,559,154	2,595,039					
71	242,062	245,829	254,931	264,929	274,644	284,787	299,984	306,851	316,257	329,813	206,679	219,175	258,343	268,843	277,873					
72	1,258,504	1,289,154	1,342,661	1,410,354	1,482,098	1,543,788	1,602,816	1,647,074	1,677,201	1,706,570	1,270,055	1,346,842	1,587,535	1,652,060	1,707,548					
81	483,442	492,367	503,550	515,658	534,842	543,442	553,492	563,808	571,942	576,533	472,992	481,233	529,143	563,020	590,640					
92	2,448,217	2,406,492	2,376,050	2,374,033	2,412,958	2,462,292	2,515,675	2,553,892	2,581,475	2,596,933	2,486,833	2,427,000	2,495,598	2,619,618	2,619,737					
Total	14,664,342	14,825,708	15,161,033	15,563,783	15,991,892	16,471,258	16,904,308	17,249,625	17,596,092	17,854,825	16,546,217	16,868,958	17,642,259	18,098,036	18,354,127					
Statewide Average Wages																				
Mix																				
New	New	55,412	57,389	57,093	59,037	61,653	62,948	65,920	68,500	71,332	79,368									
Old	New	55,465	57,452	57,238	59,238	61,739	62,963	66,035	68,443	71,204	77,977									
	Paasche Index	0.999	0.999	0.997	0.997	0.999	1.000	0.998	1.001	1.002	1.018									
New	Old	53,648	55,338	57,256	56,906	58,953	61,636	62,851	65,969	68,618	72,696									
Old	Old	53,700	55,412	57,389	57,093	59,037	61,653	62,948	65,920	68,500	71,332									
	Laspeyres Index	0.999	0.999	0.998	0.997	0.999	1.000	0.998	1.001	1.002	1.019									
Geomean Index		0.999	0.999	0.998	0.997	0.999	1.000	0.998	1.001	1.002	1.018									
* Change due to mix is calculated as the employment weighted average relativity in the stated year compared to the prior year.																				
												Avg. Relt.	2021	2022	2023	2024				
												1-Yr	0.997	0.996	1.003	1.001				
												3-Yr	0.997	0.995	1.003	1.001				
												5-Yr	0.997	0.995	1.003	1.001				

* Change due to mix is calculated as the employment weighted average
relativity in the stated year compared to the prior year.

Source: BLS QCEW Data Set & UCLA Anderson Forecast

Exhibit 11: Employment Changes and Distribution by Industry - March 2022 UCLA Forecast

Industry	Employment		A	B	
	2019	2020	Employment Change	Distribution	
	2019	2020		2019	2020
Agriculture & Mining	445,025	427,050	-4.0%	2.5%	2.6%
Utilities & Construction	942,219	912,856	-3.1%	5.3%	5.5%
Manufacturing	1,326,892	1,261,367	-4.9%	7.4%	7.6%
Wholesale	691,867	643,417	-7.0%	3.9%	3.9%
Retail	1,657,267	1,523,175	-8.1%	9.3%	9.2%
Transportation & Warehousing	647,439	669,661	3.4%	3.6%	4.0%
Information	562,658	528,175	-6.1%	3.2%	3.2%
Finance & Insurance	538,987	535,632	-0.6%	3.0%	3.2%
Real Estate	302,405	280,226	-7.3%	1.7%	1.7%
Prof. Services & Mgmt. of Companies	1,587,912	1,548,245	-2.5%	8.9%	9.4%
Administrative	1,134,080	1,048,372	-7.6%	6.4%	6.3%
Education	383,240	347,885	-9.2%	2.1%	2.1%
Health	2,424,985	2,383,598	-1.7%	13.6%	14.4%
Arts & Entertainment	329,813	206,679	-37.3%	1.8%	1.2%
Hospitality	1,706,570	1,270,055	-25.6%	9.6%	7.7%
Other	576,533	472,992	-18.0%	3.2%	2.9%
Public Administration	2,596,933	2,486,833	-4.2%	14.5%	15.0%
All Industries	17,854,825	16,546,217	-7.3%	100%	100%

Source: March 2022 UCLA Forecast

Exhibit 12: Derivation of Baseline Average Wage
2019 UCLA Industry Distribution, 2019 ACS Wages by Quartile, and 2019 ACS Wage Distribution

Industry	2019 Industry Distribution	C 2019 ACS Quartile Distribution				D 2019 ACS Average Wage by Quartile				E Total
		1	2	3	4	1	2	3	4	
Agriculture & Mining	2.5%	44.6%	34.2%	13.1%	8.1%	9.86	17.74	30.19	75.34	20.53
Utilities & Construction	5.3%	17.6%	25.4%	33.1%	23.9%	9.77	18.31	31.43	69.58	33.39
Manufacturing	7.4%	18.7%	24.8%	25.7%	30.8%	10.21	18.40	31.42	83.07	40.14
Wholesale	3.9%	21.2%	27.9%	28.1%	22.8%	10.22	18.41	31.09	84.06	35.22
Retail	9.3%	38.9%	30.1%	18.7%	12.4%	9.88	18.03	30.32	86.24	25.62
Transportation & Warehousing	3.6%	26.2%	30.3%	30.1%	13.4%	9.86	18.24	31.07	74.58	27.45
Information	3.2%	9.9%	13.9%	27.8%	48.4%	9.29	18.84	32.43	98.51	60.21
Finance & Insurance	3.0%	9.4%	19.6%	30.5%	40.4%	9.56	18.64	31.81	94.16	52.31
Real Estate	1.7%	19.1%	24.7%	27.5%	28.8%	9.01	18.42	31.34	97.90	43.02
Prof. Services & Mgmt. of Companies	8.9%	8.2%	13.0%	26.6%	52.2%	9.22	18.56	32.52	88.51	58.01
Administrative	6.4%	36.6%	30.5%	21.8%	11.2%	9.91	18.05	30.71	77.15	24.45
Education	2.1%	17.2%	23.1%	34.6%	25.1%	9.48	18.73	31.91	63.83	33.02
Health	13.6%	21.4%	26.6%	26.5%	25.4%	9.83	18.27	31.27	83.25	36.43
Arts & Entertainment	1.8%	30.5%	29.4%	24.1%	16.0%	9.08	18.19	30.84	88.64	29.70
Hospitality	9.6%	51.9%	29.9%	13.4%	4.8%	9.47	17.91	29.67	78.94	18.05
Other	3.2%	35.5%	31.3%	22.5%	10.6%	9.24	18.10	30.83	71.27	23.47
Public Administration	14.5%	15.0%	19.7%	33.2%	32.2%	9.44	18.91	32.20	61.67	35.66
All Industries	100%	24.9%	24.9%	25.5%	24.6%	9.68	18.29	31.44	80.35	34.79

Column E Calculation $18.05 = \sum(C \times D) = 51.9\% \times 9.47 + 29.9\% \times 17.91 + 13.4\% \times 29.67 + 4.8\% \times 78.94$

All Industries $34.79 = \sum(B \times E)$

Source: March 2022 UCLA Forecast (Column B)
2019 ACS Data Set (Columns C and D)

Exhibit 13: Derivation of Wage Level Adjusted Average Wage
2019 UCLA Industry Distribution, 2019 ACS Wages by Quartile, and Balanced 2020 ACS Wage Distribution

Industry	2019 Industry Distribution	2020 ACS Quartile Distribution				2019 ACS Average Wage by Quartile				Total
		1	2	3	4	1	2	3	4	
Agriculture & Mining	2.5%	44.8%	30.9%	16.0%	8.4%	9.86	17.74	30.19	75.34	21.02
Utilities & Construction	5.3%	14.0%	26.7%	31.9%	27.5%	9.77	18.31	31.43	69.58	35.40
Manufacturing	7.4%	16.9%	24.5%	25.9%	32.7%	10.21	18.40	31.42	83.07	41.51
Wholesale	3.9%	20.1%	28.6%	28.0%	23.3%	10.22	18.41	31.09	84.06	35.62
Retail	9.3%	35.4%	31.4%	20.1%	13.1%	9.88	18.03	30.32	86.24	26.54
Transportation & Warehousing	3.6%	24.0%	32.4%	30.0%	13.6%	9.86	18.24	31.07	74.58	27.74
Information	3.2%	9.4%	11.0%	26.1%	53.5%	9.29	18.84	32.43	98.51	64.15
Finance & Insurance	3.0%	8.2%	19.3%	29.3%	43.2%	9.56	18.64	31.81	94.16	54.37
Real Estate	1.7%	16.8%	24.9%	31.1%	27.2%	9.01	18.42	31.34	97.90	42.45
Prof. Services & Mgmt. of Companies	8.9%	7.1%	12.0%	26.2%	54.6%	9.22	18.56	32.52	88.51	59.76
Administrative	6.4%	33.5%	31.0%	22.5%	13.0%	9.91	18.05	30.71	77.15	25.87
Education	2.1%	14.9%	21.7%	35.9%	27.5%	9.48	18.73	31.91	63.83	34.47
Health	13.6%	19.6%	26.3%	26.8%	27.3%	9.83	18.27	31.27	83.25	37.88
Arts & Entertainment	1.8%	28.2%	25.7%	27.9%	18.2%	9.08	18.19	30.84	88.64	31.98
Hospitality	9.6%	48.2%	30.0%	15.7%	6.1%	9.47	17.91	29.67	78.94	19.39
Other	3.2%	33.1%	31.1%	24.3%	11.4%	9.24	18.10	30.83	71.27	24.35
Public Administration	14.5%	14.1%	17.7%	33.9%	34.3%	9.44	18.91	32.20	61.67	36.74
All Industries	100%	22.9%	24.5%	26.2%	26.4%	9.68	18.28	31.41	80.26	36.13
Column G Calculation		$19.39 = \sum(F \times D) = 48.2\% \times 9.47 + 30.0\% \times 17.91 + 15.7\% \times 29.67 + 6.1\% \times 78.94$								
All Industries		$36.13 = \sum(B \times G)$								

Impact of Changes in Intra-Industry Wage Level $3.9\% = J / E - 1 = 36.13 / 34.79 - 1$

Source: March 2022 UCLA Forecast (Column B)
2020 ACS Data Set (Column F)
2019 ACS Data Set (Column D)

Exhibit 14: Employment Changes and Distribution by Industry - March 2022 UCLA Forecast

Industry	Employment		A	B	
	2020	2021	Employment Change	Distribution	
	2020	2021		2020	2021
Agriculture & Mining	427,050	439,825	3.0%	2.6%	2.6%
Utilities & Construction	912,856	945,311	3.6%	5.5%	5.6%
Manufacturing	1,261,367	1,259,192	-0.2%	7.6%	7.5%
Wholesale	643,417	644,692	0.2%	3.9%	3.8%
Retail	1,523,175	1,576,150	3.5%	9.2%	9.3%
Transportation & Warehousing	669,661	709,672	6.0%	4.0%	4.2%
Information	528,175	542,917	2.8%	3.2%	3.2%
Finance & Insurance	535,632	531,978	-0.7%	3.2%	3.2%
Real Estate	280,226	278,314	-0.7%	1.7%	1.6%
Prof. Services & Mgmt. of Companies	1,548,245	1,602,305	3.5%	9.4%	9.5%
Administrative	1,048,372	1,084,978	3.5%	6.3%	6.4%
Education	347,885	353,985	1.8%	2.1%	2.1%
Health	2,383,598	2,425,390	1.8%	14.4%	14.4%
Arts & Entertainment	206,679	219,175	6.0%	1.2%	1.3%
Hospitality	1,270,055	1,346,842	6.0%	7.7%	8.0%
Other	472,992	481,233	1.7%	2.9%	2.9%
Public Administration	2,486,833	2,427,000	-2.4%	15.0%	14.4%
All Industries	16,546,217	16,868,958	2.0%	100%	100%

Source: March 2022 UCLA Forecast

**Exhibit 15: Derivation of Baseline Average Wage
2020 UCLA Industry Distribution, 2020 CPS Wages by Quartile, and 2020 CPS Wage Distribution**

Industry	2020 Industry Distribution	C 2020 CPS Quartile Distribution				D 2020 CPS Average Wage by Quartile				E Total
		1	2	3	4	1	2	3	4	
Agriculture & Mining	2.6%	53.9%	24.2%	12.8%	9.1%	12.55	18.35	30.80	62.17	20.78
Utilities & Construction	5.5%	16.0%	28.2%	33.3%	22.5%	12.91	19.54	30.55	63.31	31.98
Manufacturing	7.6%	19.8%	22.5%	25.6%	32.1%	12.80	19.40	30.34	77.71	39.61
Wholesale	3.9%	26.0%	28.8%	25.3%	19.9%	12.99	19.34	30.76	79.29	32.51
Retail	9.2%	40.3%	32.8%	17.4%	9.4%	13.17	18.97	29.88	72.33	23.57
Transportation & Warehousing	4.0%	28.0%	33.7%	25.2%	13.2%	13.13	19.58	31.26	69.08	27.24
Information	3.2%	9.3%	18.4%	25.7%	46.7%	11.71	19.85	32.02	88.17	54.10
Finance & Insurance	3.2%	8.5%	17.7%	31.8%	42.0%	12.88	19.69	31.02	73.78	45.44
Real Estate	1.7%	16.9%	26.8%	24.5%	31.9%	12.20	19.84	31.28	68.33	36.81
Prof. Services & Mgmt. of Companies	9.4%	6.1%	13.3%	29.4%	51.2%	12.67	19.70	31.79	81.81	54.64
Administrative	6.3%	34.8%	36.0%	20.1%	9.1%	12.96	19.21	29.41	76.41	24.29
Education	2.1%	15.8%	23.8%	32.9%	27.5%	12.86	19.72	31.41	63.85	34.61
Health	14.4%	22.9%	24.8%	24.3%	28.0%	13.20	19.40	31.10	67.59	34.33
Arts & Entertainment	1.2%	33.8%	27.1%	21.8%	17.3%	12.45	19.52	30.06	89.86	31.59
Hospitality	7.7%	59.2%	23.1%	12.9%	4.8%	12.78	19.15	29.81	59.53	18.68
Other	2.9%	38.1%	30.4%	18.5%	13.1%	11.59	19.73	31.63	61.20	24.24
Public Administration	15.0%	17.1%	19.5%	32.9%	30.5%	13.03	19.55	31.11	60.52	34.75
All Industries	100%	25.5%	24.5%	24.9%	25.0%	12.88	19.38	30.89	71.97	33.75

Column E Calculation Hospitality $18.68 = \sum(C \times D) = 59.2\% \times 12.78 + 23.1\% \times 19.15 + 12.9\% \times 29.81 + 4.8\% \times 59.53$

All Industries $33.75 = \sum(B \times E)$

Source: March 2022 UCLA Forecast (Column B)
2019 EPI CPS Data Set (Columns C and D)

**Exhibit 16: Derivation of Wage Level Adjusted Average Wage
2020 UCLA Industry Distribution, 2020 CPS Wages by Quartile, and 2021 CPS Wage Distribution**

Industry	2020 Industry Distribution	2021 CPS Quartile Distribution				2020 CPS Average Wage by Quartile				Total
		1	2	3	4	1	2	3	4	
Agriculture & Mining	2.6%	42.3%	30.7%	18.3%	8.8%	12.55	18.35	30.80	62.17	22.03
Utilities & Construction	5.5%	13.1%	28.4%	38.1%	20.3%	12.91	19.54	30.55	63.31	31.77
Manufacturing	7.6%	14.9%	25.6%	26.1%	33.3%	12.80	19.40	30.34	77.71	40.69
Wholesale	3.9%	19.6%	31.6%	30.0%	18.8%	12.99	19.34	30.76	79.29	32.81
Retail	9.2%	36.0%	33.3%	19.9%	10.8%	13.17	18.97	29.88	72.33	24.81
Transportation & Warehousing	4.0%	24.8%	37.5%	25.0%	12.8%	13.13	19.58	31.26	69.08	27.25
Information	3.2%	9.4%	15.0%	27.0%	48.6%	11.71	19.85	32.02	88.17	55.54
Finance & Insurance	3.2%	9.1%	18.6%	31.8%	40.6%	12.88	19.69	31.02	73.78	44.65
Real Estate	1.7%	16.7%	28.4%	29.4%	25.4%	12.20	19.84	31.28	68.33	34.25
Prof. Services & Mgmt. of Companies	9.4%	6.2%	13.7%	30.5%	49.7%	12.67	19.70	31.79	81.81	53.79
Administrative	6.3%	33.2%	32.1%	23.4%	11.3%	12.96	19.21	29.41	76.41	26.00
Education	2.1%	11.6%	22.5%	34.8%	31.1%	12.86	19.72	31.41	63.85	36.73
Health	14.4%	16.8%	28.0%	27.2%	28.1%	13.20	19.40	31.10	67.59	35.06
Arts & Entertainment	1.2%	31.4%	26.8%	26.6%	15.3%	12.45	19.52	30.06	89.86	30.85
Hospitality	7.7%	46.4%	35.2%	13.1%	5.3%	12.78	19.15	29.81	59.53	19.74
Other	2.9%	28.0%	34.5%	24.9%	12.6%	11.59	19.73	31.63	61.20	25.63
Public Administration	15.0%	13.5%	19.8%	35.4%	31.2%	13.03	19.55	31.11	60.52	35.56
All Industries	100%	21.0%	26.5%	27.3%	25.1%	12.88	19.37	30.88	71.94	34.37

Column G Calculation Hospitality $19.74 = \sum(F \times D) = 46.4\% \times 12.78 + 35.2\% \times 19.15 + 13.1\% \times 29.81 + 5.3\% \times 59.53$

All Industries $34.37 = \sum(B \times G)$

Impact of Changes in Intra-Industry Wage Level $1.8\% = J / E - 1 = 34.37 / 33.75 - 1$

Source: March 2022 UCLA Forecast (Column B)
2021 EPI ACS Data Set (Column F)
2020 CPS Data Set (Column D)

Exhibit 17: Derivation of Adjusted Average Wage Change

	2020	2021	2022	2023	2024	Cumulative Annualized
Average Wage Change						
UCLA	11.4%	9.8%	2.3%	0.4%	0.5%	4.8%
Department of Finance	10.5%	6.1%	3.2%	3.6%	3.6%	5.4%
Average of UCLA and DoF	11.0%	8.0%	2.8%	2.0%	2.1%	5.1%
Industry Mix Adjustment						
	-1.8%	0.3%	0.5%	-0.3%	-0.1%	-0.3%
Wage Mix Adjustments						
Full Unwinding	-3.9%	-1.8%	3.0%	2.1%	0.9%	0.0%
Midpoint	-3.9%	-1.8%	1.6%	1.1%	0.5%	-0.5%
Proportional to Industry Mix	-3.9%	-1.8%	0.2%	0.1%	0.1%	-1.1%
No Unwinding	-3.9%	-1.8%	0.0%	0.0%	0.0%	-1.2%
Adjusted Average Wage Change						
Industry Mix Only	9.0%	8.3%	3.3%	1.7%	1.9%	4.8%
Full Unwinding	4.7%	6.3%	6.3%	3.8%	2.8%	4.8%
Midpoint	4.7%	6.3%	4.9%	2.8%	2.4%	4.2%
Proportional to Industry Mix	4.7%	6.3%	3.5%	1.8%	2.0%	3.6%
No Unwinding	4.7%	6.3%	3.3%	1.7%	1.9%	3.6%
Assumed Unwinding Share			50%	35%	15%	

Total Unwinding	Change Factor Due to Mix	
	2020 - 2021	Cumulative 2022 - 2024
0.064	0.985	0.986
1.000	0.943	1.000
0.532	0.943	0.973
0.064	0.943	0.947
0.000	0.943	0.943
		1.001

$$0.064 = (0.986 - 0.985) / (1 - 0.985)$$

$$0.947 = 0.064 \times (1 - 0.943) + 0.943$$

$$1.004 = 0.947 / 0.943$$

$$0.2\% = 1.004 \times 50\% - 1$$

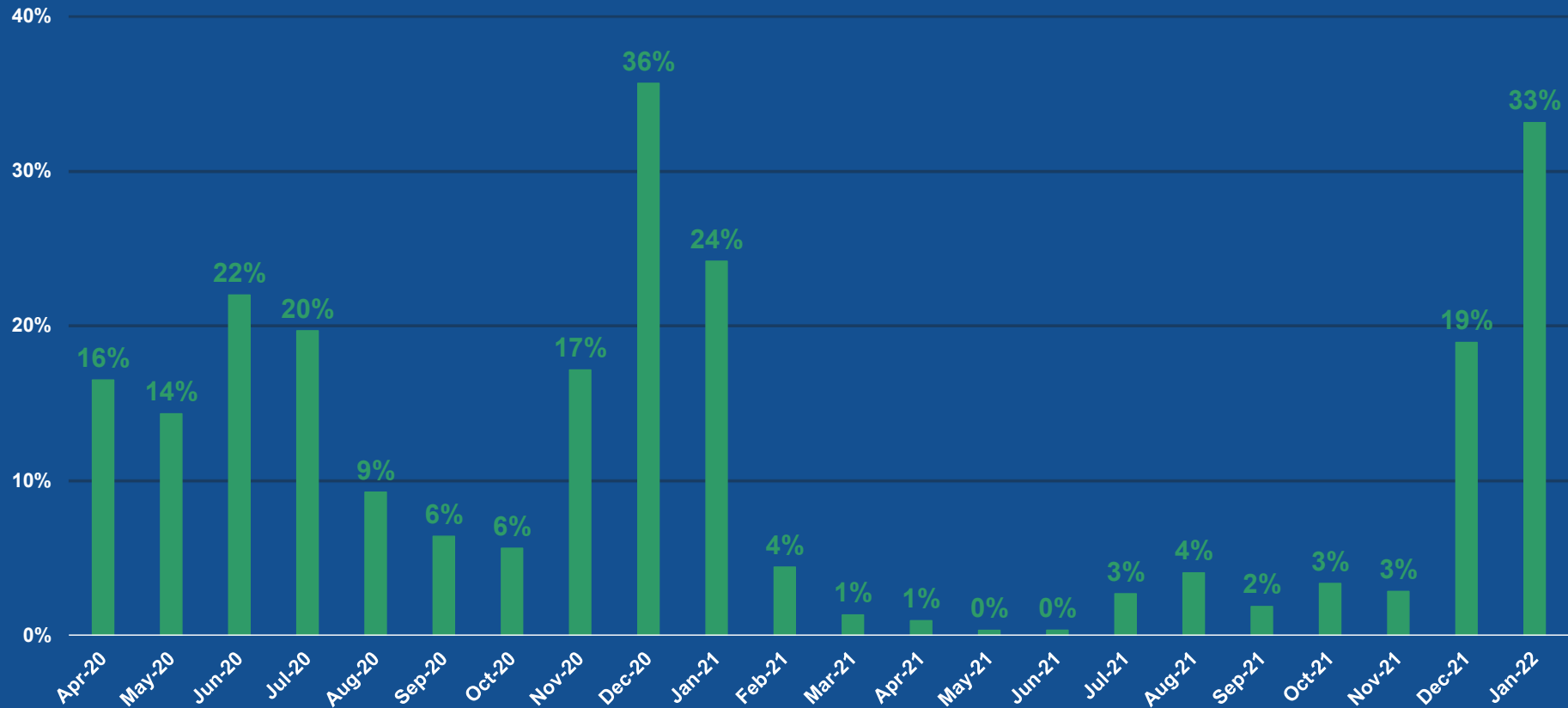
Source: March 2022 UCLA Forecast (Average Wage Change, Employment in Industry and Wage Mix Adjustments)
November 2021 Department of Finance Forecast (Average Wage Change)
BLS QCEW Data (Wages in Industry Mix Adjustment)
2020 ACS Data (Wages in 2020 Wage Mix Adjustment)

Item AC21-03-03
Review of COVID-19 Claim Diagnostics

The COVID-19 pandemic has had significant impact on many components of experience emerging in 2020 and 2021. At the meeting, staff will present information on emerging COVID-19 claim experience based on WCIRB aggregate financial calls, unit statistical data and transactional indemnity data. Draft slides summarizing this information are attached for review.

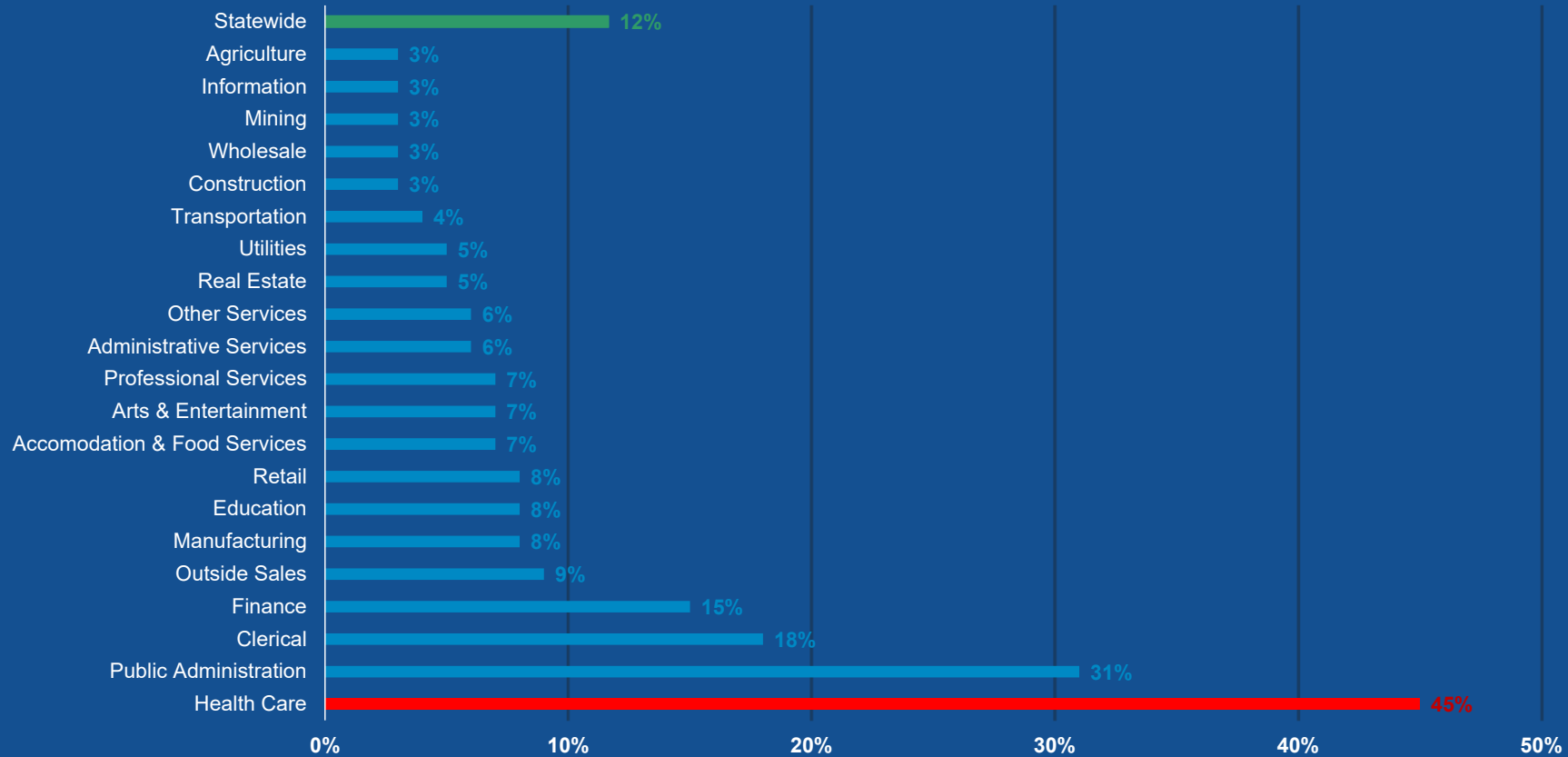
COVID-19 Share of Indemnity Claims

As of February 14, 2022



Share of COVID-19 Indemnity Claims By Industry

As of February 14, 2022



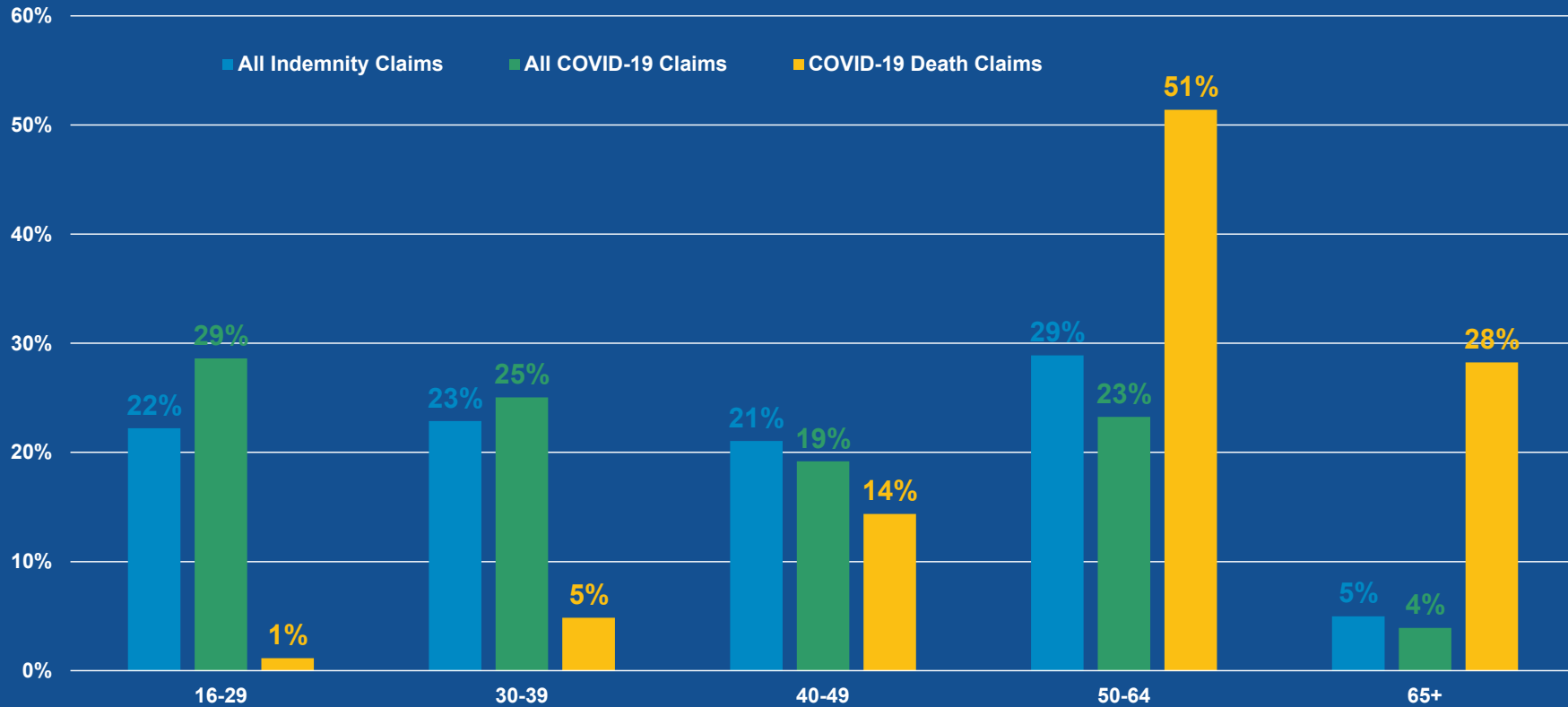
Industry Distribution of COVID-19 Indemnity Claims by Accident Quarter

As of February 14, 2022

Industry	2020 Q2	2020 Q3	2020 Q4	2021 Q1	2021 Q2	2021 Q3	2021 Q4	2022 Q1
Health Care	51%	57%	54%	56%	50%	49%	50%	49%
Manufacturing	11%	8%	9%	9%	13%	10%	4%	6%
Retail	6%	5%	7%	7%	5%	5%	12%	13%
Accommodation & Food Services	4%	6%	4%	4%	2%	7%	15%	13%
Clerical	5%	3%	6%	8%	8%	6%	6%	6%
Transportation	3%	5%	5%	2%	1%	1%	0%	0%
Construction	3%	3%	3%	4%	6%	5%	3%	2%
Administrative Services	4%	4%	1%	1%	1%	2%	1%	2%
Wholesale	3%	2%	3%	2%	3%	1%	2%	2%
Agriculture	3%	2%	0%	1%	1%	2%	0%	0%
Other Services	2%	1%	1%	1%	0%	1%	1%	1%
Real Estate	1%	1%	1%	1%	2%	2%	0%	0%
Outside Sales	1%	1%	1%	1%	0%	0%	0%	1%
Education	0%	1%	1%	1%	3%	1%	2%	1%
Professional Services	1%	1%	1%	1%	0%	2%	1%	1%
Arts & Entertainment	1%	0%	0%	0%	0%	1%	2%	3%
Public Administration	1%	0%	1%	1%	6%	2%	1%	0%
Finance	0%	0%	1%	0%	0%	1%	0%	1%
Information	0%	0%	1%	0%	0%	1%	0%	0%
Utilities	0%	0%	0%	0%	0%	0%	0%	0%
Mining	0%	0%	0%	0%	0%	0%	0%	0%

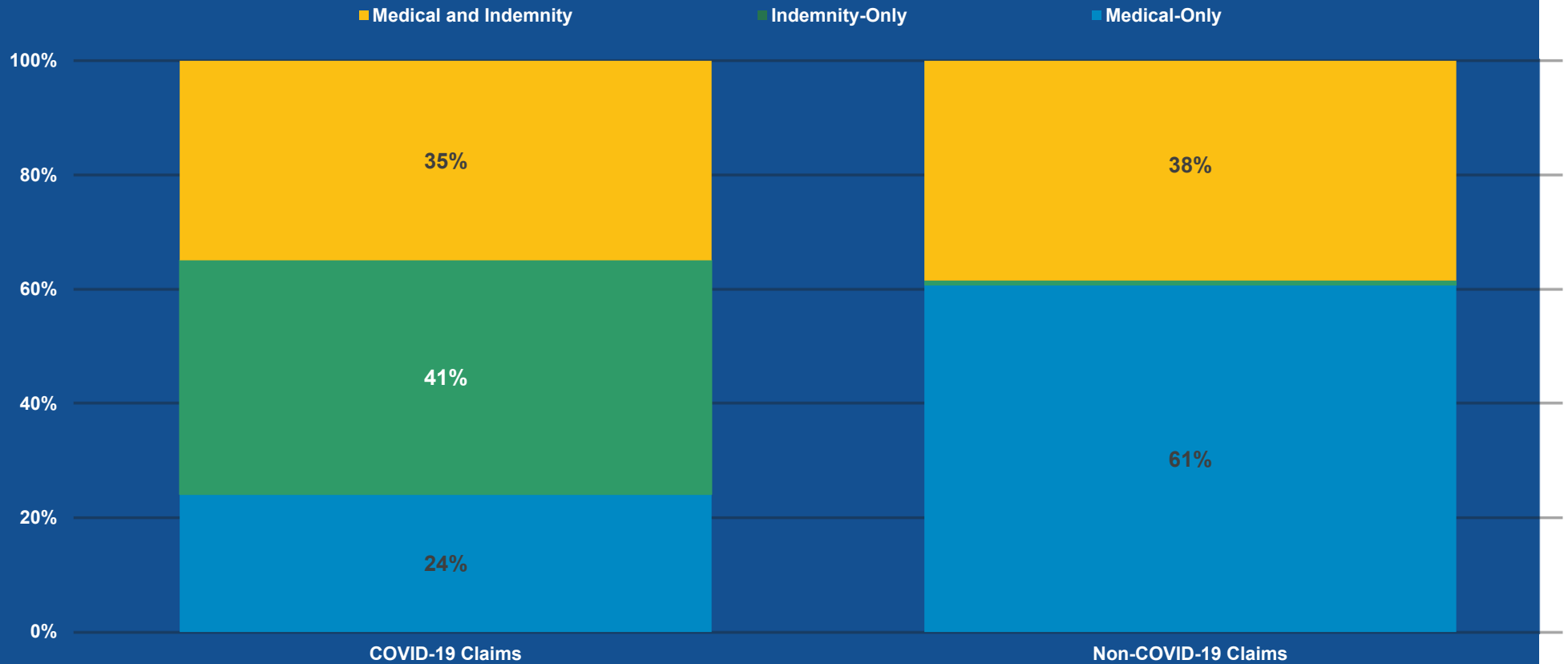
Injured Worker Age Distribution

As of February 14, 2022



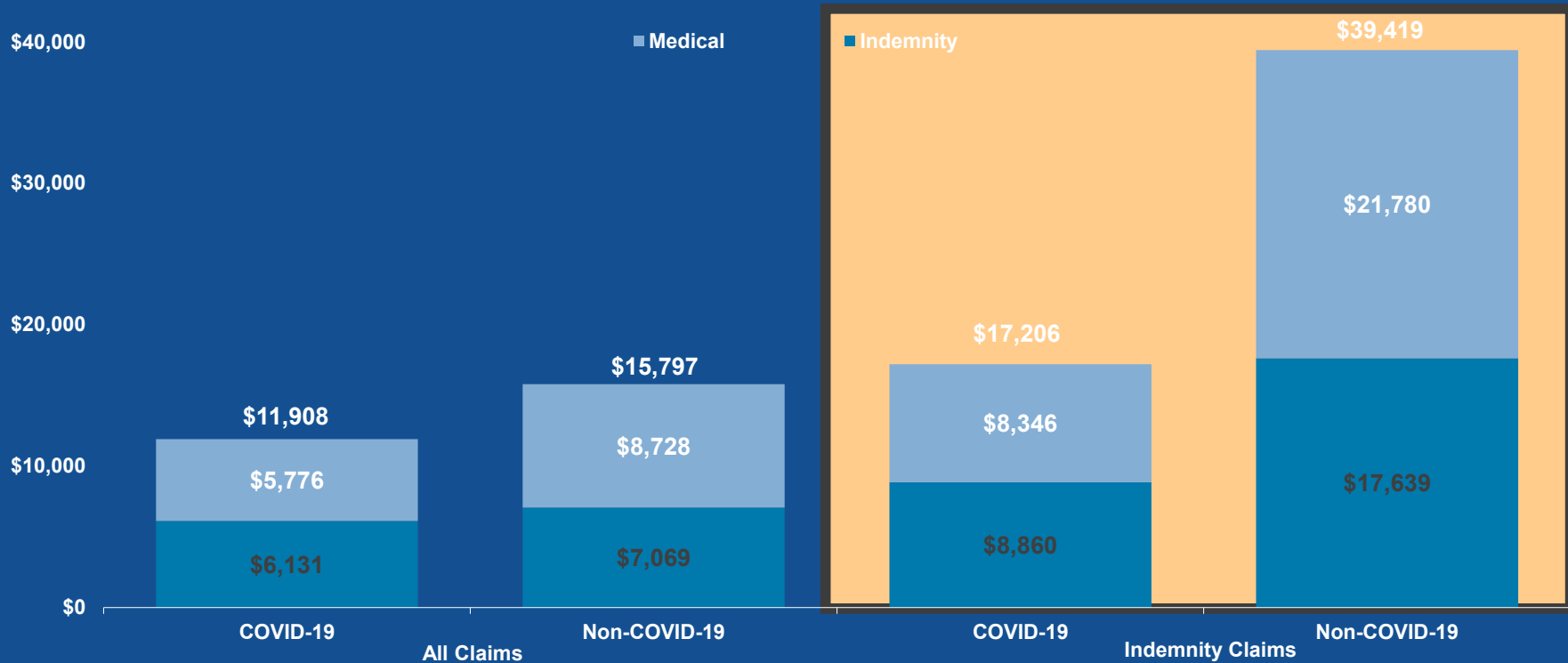
Share of Claims by Type of Claim Accident Year 2020

As of February 14, 2022



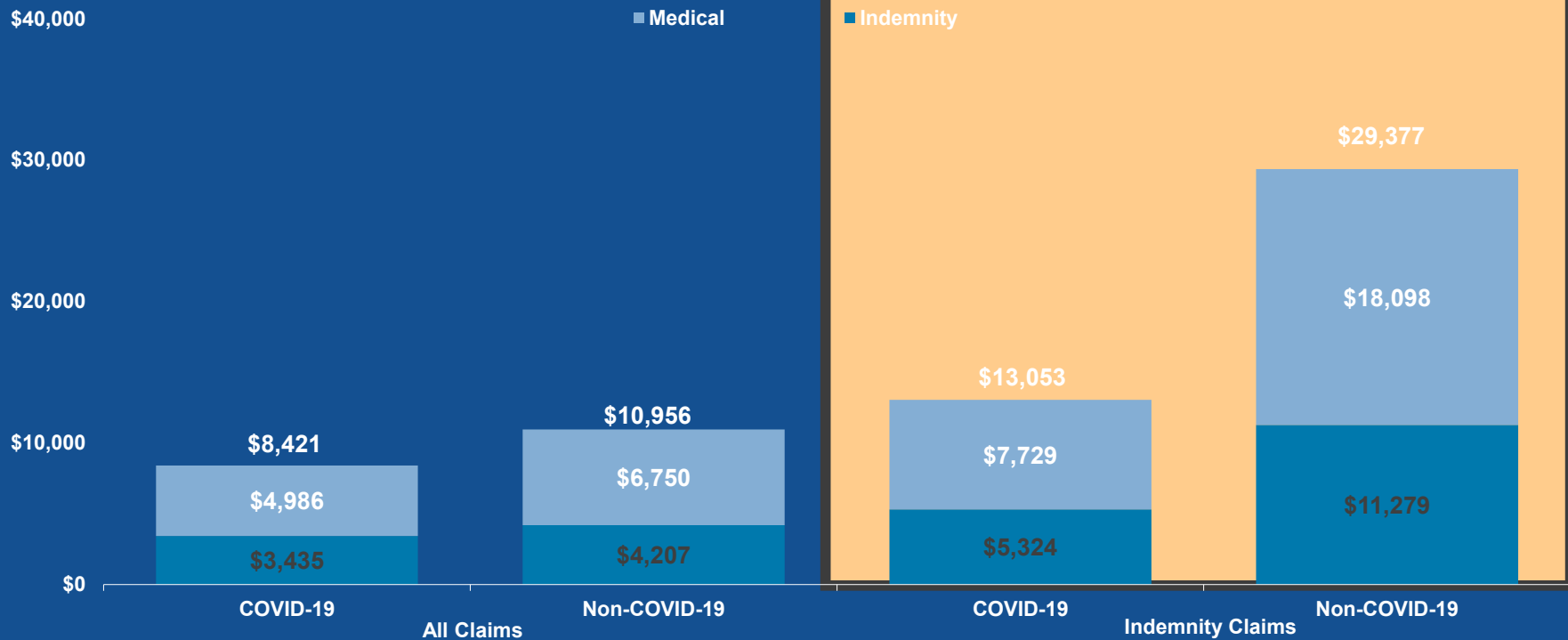
Accident Year 2020 Incurred Severities

As of December 31, 2021



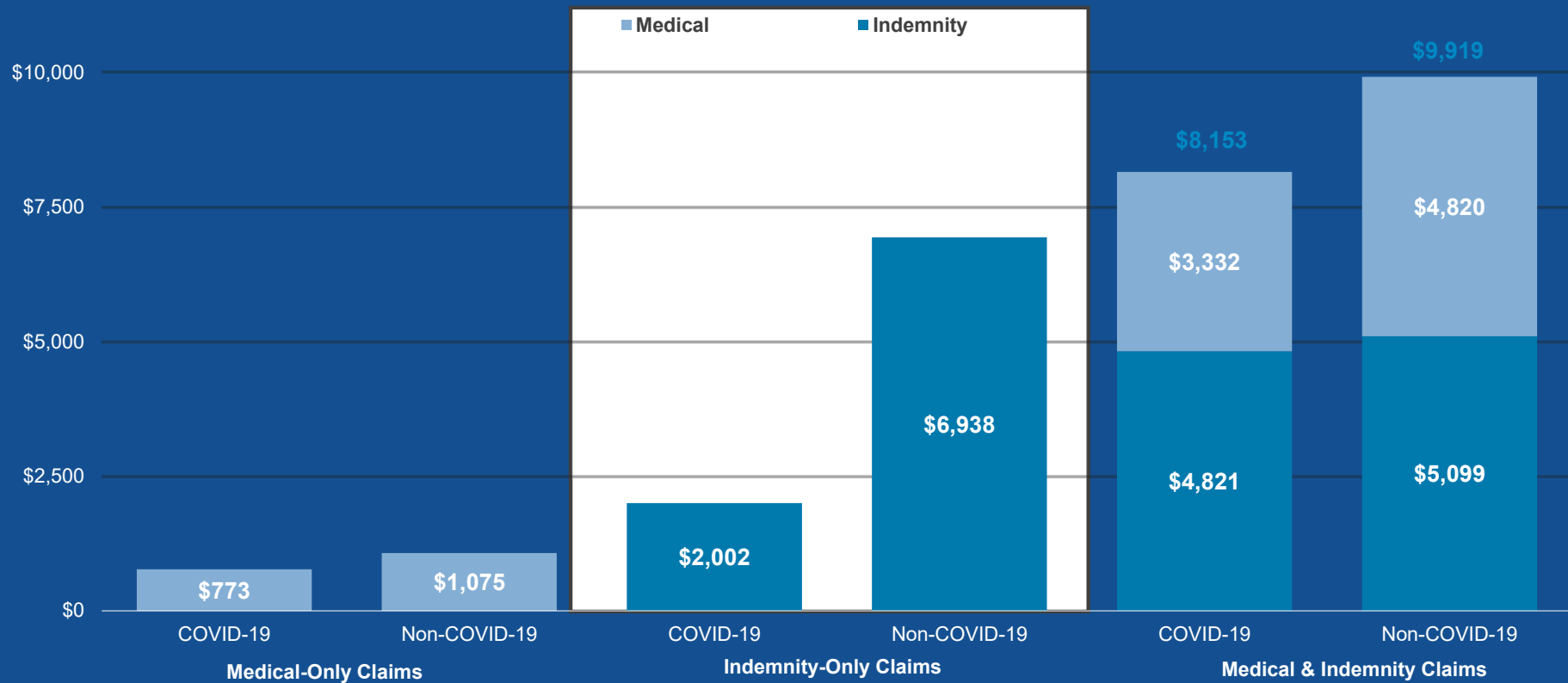
Accident Year 2021 Incurred Severities

As of December 31, 2021



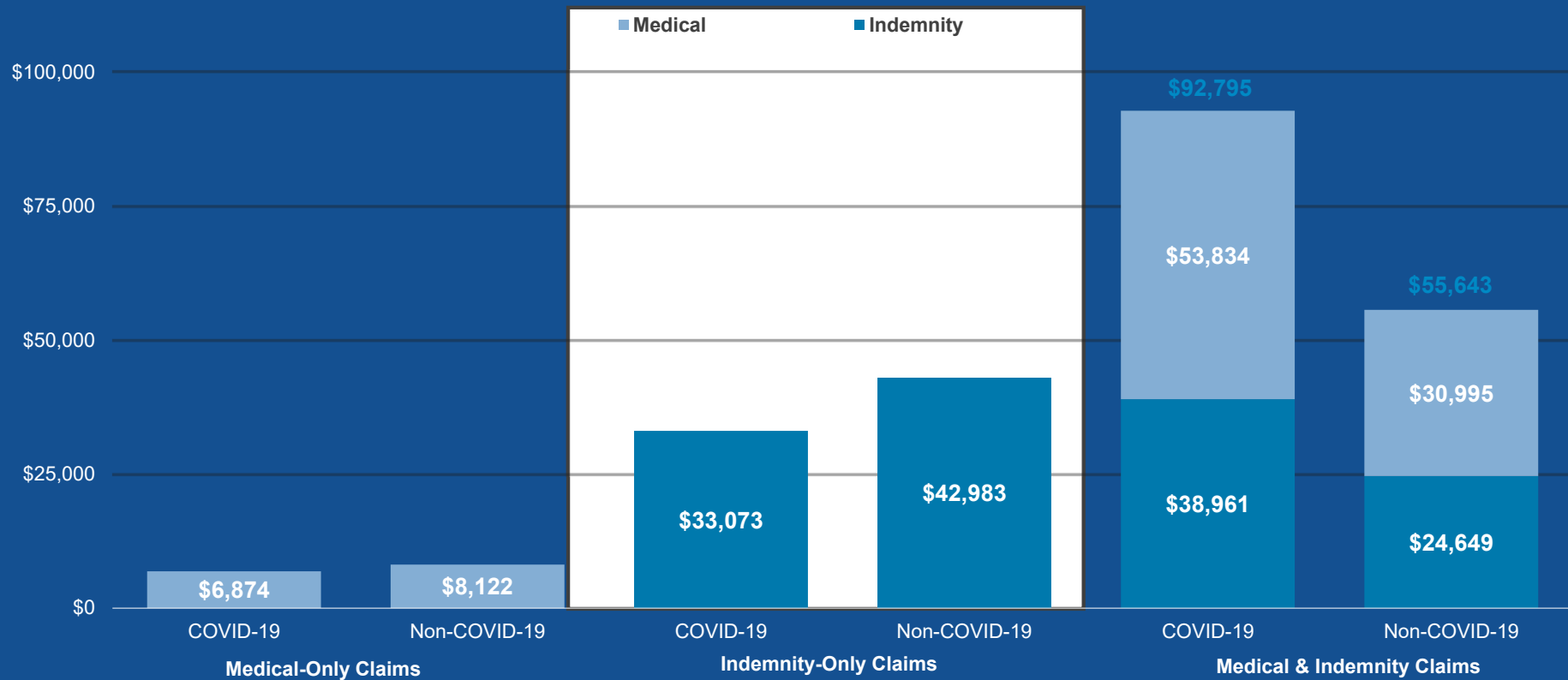
Closed Claim Severity by Type of Claim Accident Year 2020

As of February 14, 2022



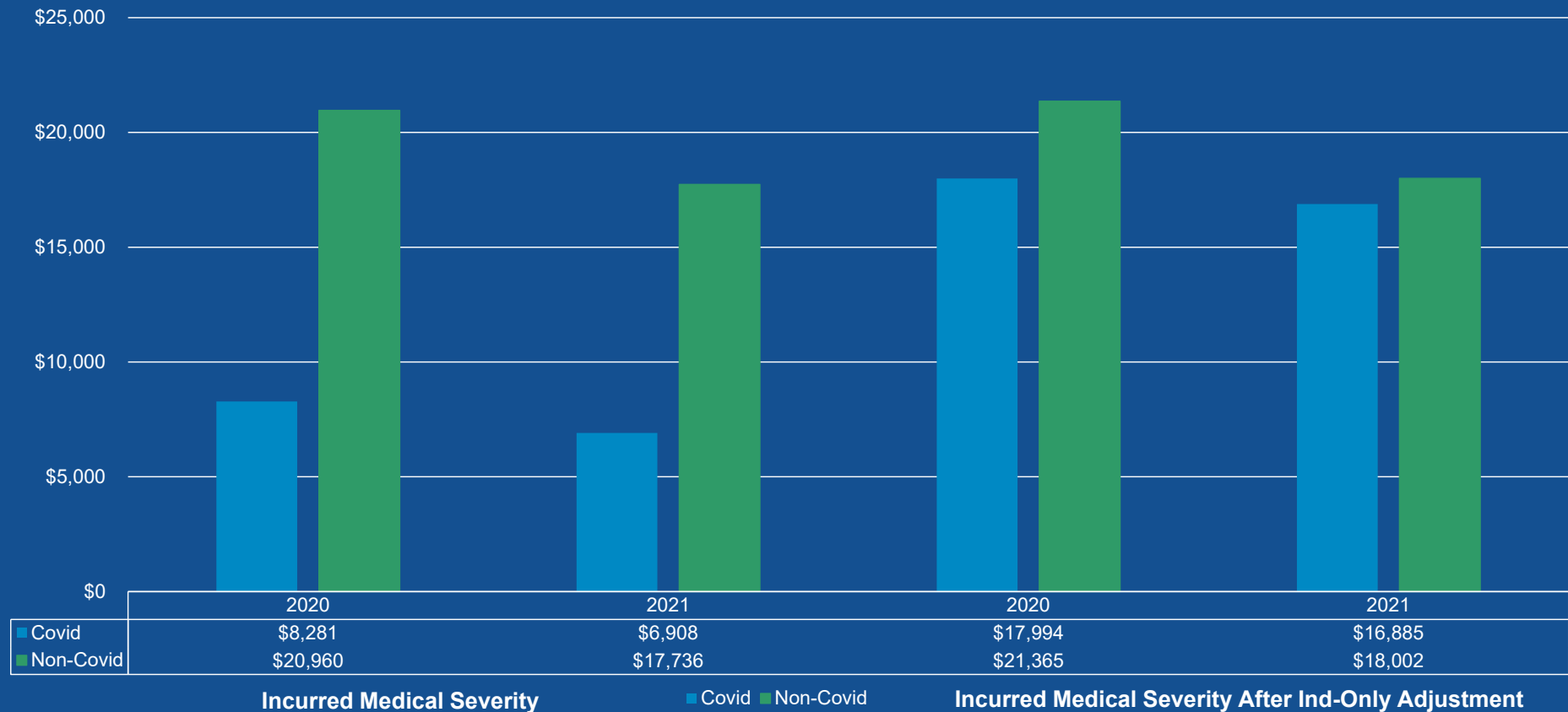
Open Claim Severity by Type of Claim Accident Year 2020

As of February 14, 2022



Comparison of Incurred Medical Severity on COVID-19 and Non-COVID-19 Claims Adjusted for the Share of Indemnity-Only Claims

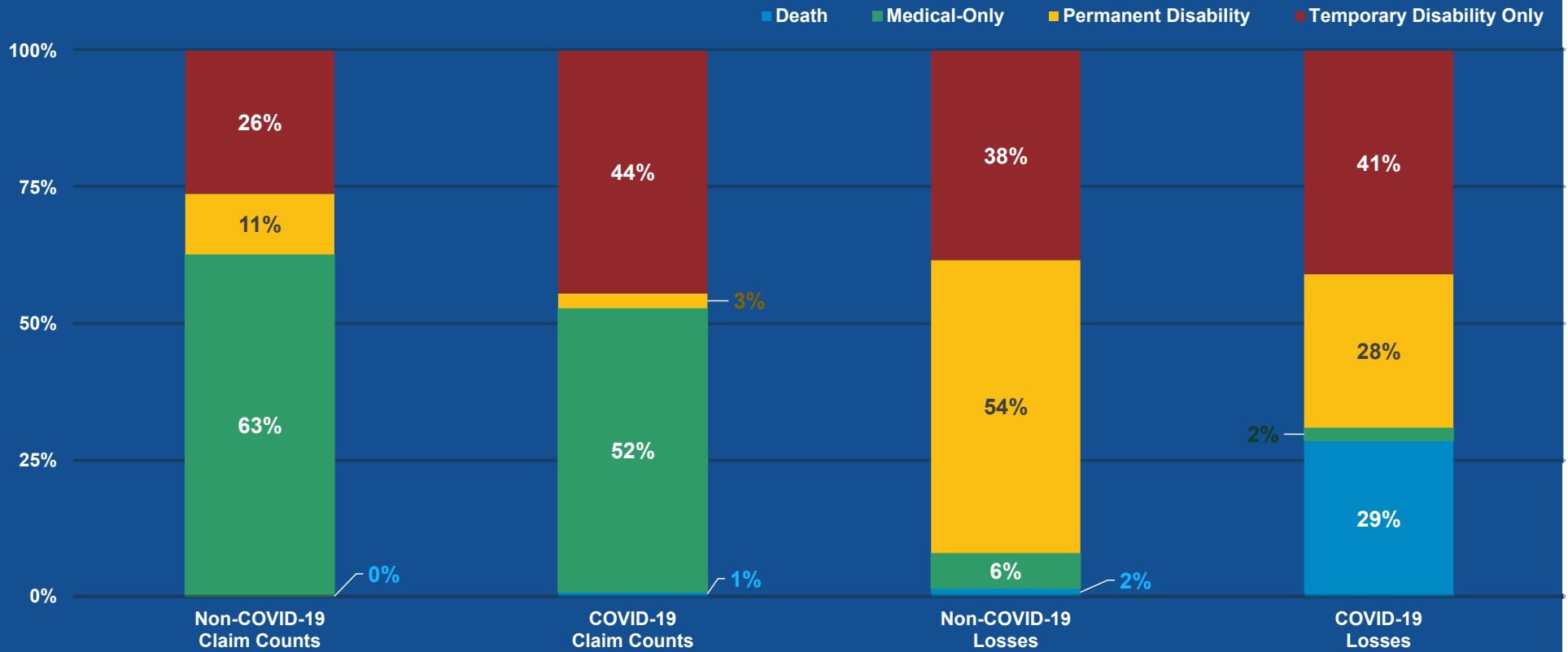
As of September 30, 2021



Distribution of Claims and Incurred Losses by Claim Type

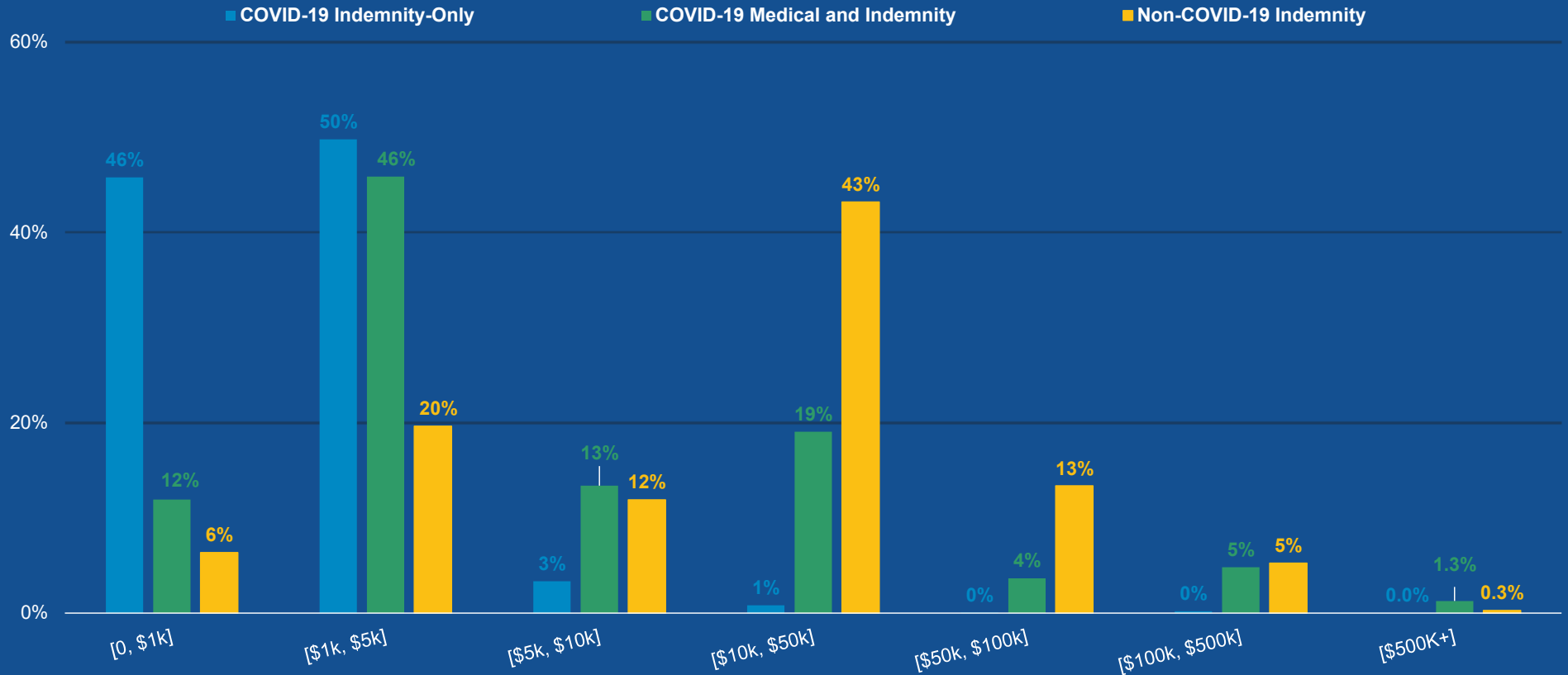
Accident Year 2020

As of February 14, 2022



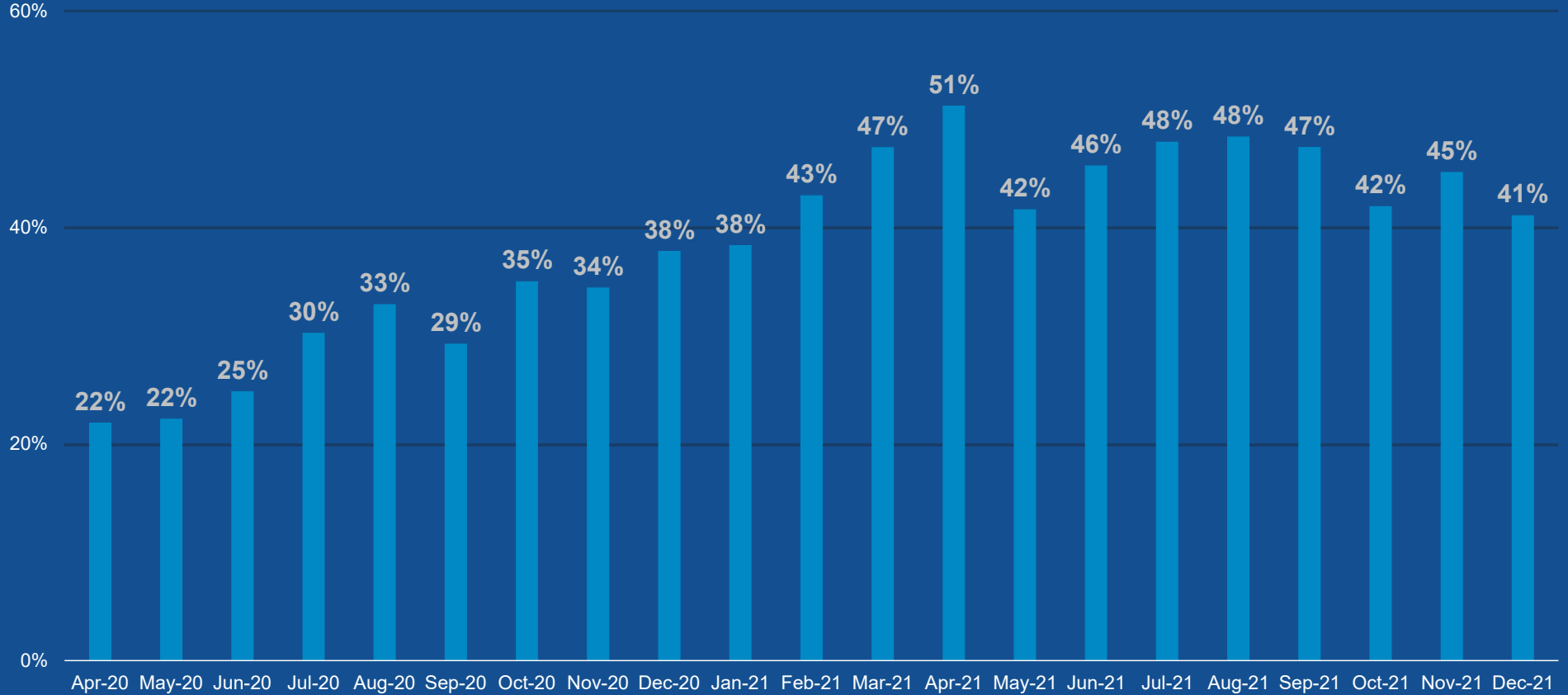
Indemnity Claim Distribution by Incurred Loss Size Accident Year 2020

As of February 14, 2022



COVID-19 Claim Denial Rates By Accident Month

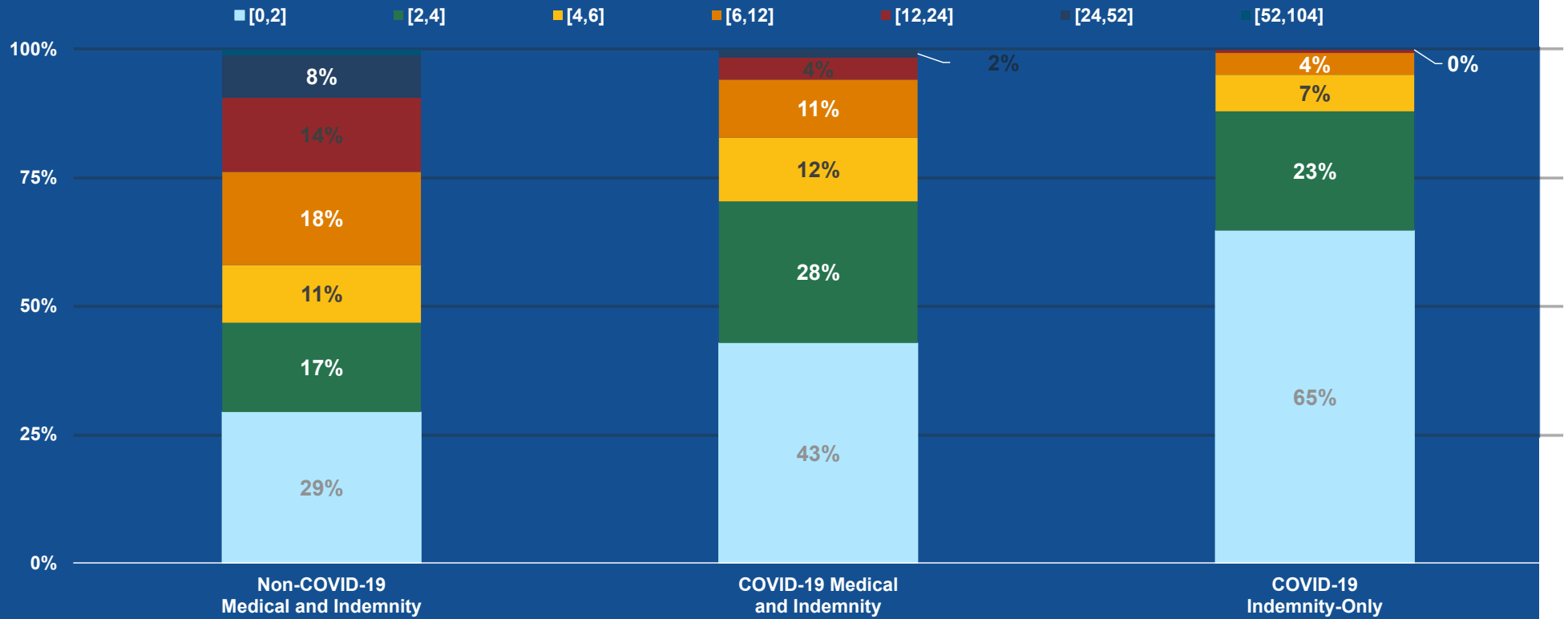
As of February 14, 2022



Weeks of Temporary Disability by Claim Type

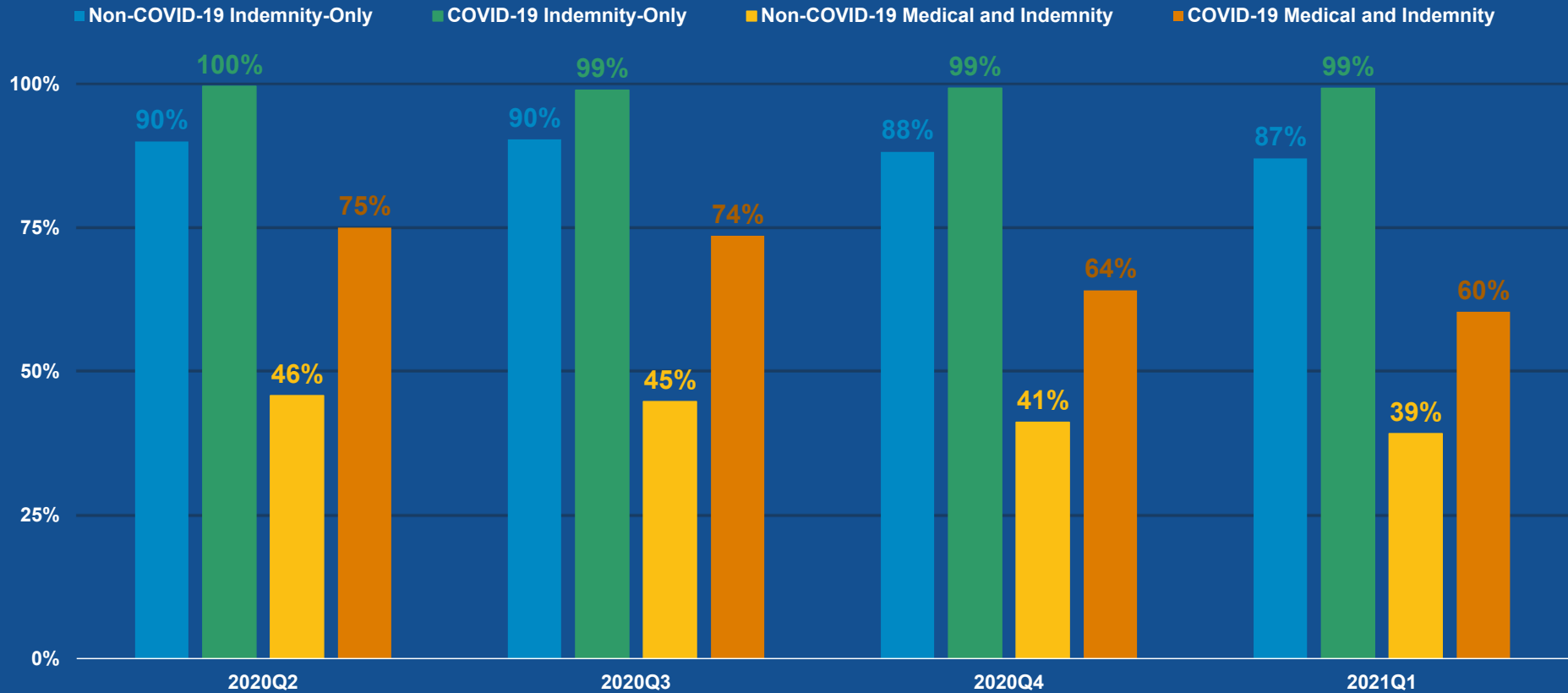
Closed Claims Only

As of February 14, 2022



Indemnity Claims Closing Rates

As of February 14, 2022



Item AC21-03-05

Pandemic Impact on Premium Measures

Calendar year earned premium is used as the basis for the ultimate accident year loss ratios and reflects (a) premiums earned from policies incepting during the same year as the accident year, (b) premiums earned from policies incepting in the prior calendar year, and (c) audit adjustments on older policies reflected in that calendar year. Although the audit amounts on older policies (incepting more than one year prior to the accident year) do not reflect the exposure period when the claims occur, they are typically a small percentage of the total earned premium and stable from year to year. During the Great Recession, audits on recession-era policies resulted in atypical amounts of return premiums reflected in earned premium amounts for recovery era calendar years. As a result, the WCIRB reflected an adjustment to the calendar year earned premium amounts from these years to better align with the accident year exposure period. This adjustment was 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.

At the March 16, 2021 meeting, the Committee reviewed the potential impact of the COVID-19 pandemic on calendar year earned premium amounts given the sharp and sudden drop in exposure levels during the 2020 economic downturn. Based on that review, given that there was no clear indication of reduced calendar year 2020 premiums arising from audit adjustments on 2019 policies due to reduced 2019 exposure, the Committee agreed that an adjustment to earned premium for 2020 for the impact of the pandemic was not appropriate at that time. Staff has updated the analysis to include calendar year 2021 premium amounts which will reflect audits from 2020 policies as well as those from 2019 policies with exposure in 2020.

Exhibits 1 and 2 show quarterly written and earned premium development factors by policy year, respectively. The premium development factor for policy year 2019 from 24 to 36 months, which is earned in 2021, is below 1.000. The development for this period is typically around a 2% increase in premium and there has not been a decrease since the Great Recession period in 2007. This suggests the reported earned premium for calendar year 2021 may be understated due to atypically large return premium amounts on 2019 policies in 2021. As a result, an adjustment to 2021 earned premium similar to what was applied during the Great Recession period is likely appropriate.

Exhibit 3 shows the comparison of reported earned premium for calendar years 2020 and 2021 to the estimated earned premium after developing the component policy years within the calendar year to 36 months. Although audit premiums are reported after 36 months, they are typically small and fluctuate between positive and negative amounts. The premium development factor for policy year 2020 was estimated based on the average of the most recent four years including the pandemic period. The premium development factor for policy year 2021 was estimated based on the average of the four years prior to the pandemic period (development in 2016 to 2019) as 2021 is less impacted by the economic downturns and is assumed to develop more like a typical year. The estimated audit premium for each policy year was allocated to the two calendar/accident years based on the distribution observed through 24 months. For example, the estimated audit premium for policy year 2020 was distributed to calendar/accident year 2020 based on the ratio of [earned premium in 2020 from 2020 policies] to [total earned premium from 2020 policies through 24 months].

As shown in Exhibit 3, this approach results in a -1.0% difference between estimated and reported earned premium for calendar year 2020 and a +2.5% difference for calendar year 2021. Staff believes adjusting for the difference in at least the 2021 earned premium amounts is appropriate given the atypical return premium amounts experienced during the pandemic and to ensure the accident year losses correspond with the exposure period in the projected loss ratios.

Insurer Level Written Premium Development Factor by Policy Year

PY	Age-to-Age (in months)												
	<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>12-24</u>	<u>24-36</u>
2006	2.031	1.538	1.338	1.108	1.057	1.038	1.026	1.002	1.002	0.999	1.001	1.248	1.004
2007	1.871	1.520	1.316	1.083	1.047	1.036	1.027	0.998	1.001	0.996	0.999	1.206	0.993
2008	1.929	1.556	1.293	1.073	1.033	1.015	1.010	0.999	0.999	1.004	0.999	1.137	1.000
2009	1.880	1.568	1.333	1.090	1.039	1.027	1.024	1.008	1.003	0.996	1.001	1.191	1.008
2010	1.849	1.535	1.334	1.084	1.053	1.035	1.017	1.008	1.005	1.001	0.999	1.201	1.014
2011	1.854	1.574	1.356	1.090	1.052	1.039	1.024	1.016	1.014	1.002	1.002	1.220	1.035
2012	1.969	1.589	1.389	1.090	1.054	1.045	1.017	1.015	1.010	1.001	1.001	1.222	1.027
2013	2.001	1.570	1.380	1.099	1.054	1.041	1.024	1.013	1.003	1.003	1.000	1.235	1.020
2014	2.000	1.594	1.379	1.094	1.056	1.038	1.021	1.013	1.006	1.000	1.000	1.224	1.019
2015	1.945	1.590	1.378	1.090	1.056	1.038	1.022	1.015	1.007	1.003	1.000	1.222	1.024
2016	1.967	1.574	1.366	1.085	1.050	1.033	1.021	1.019	1.005	1.000	0.999	1.201	1.023
2017	1.934	1.564	1.368	1.083	1.049	1.037	1.019	1.011	1.008	1.002	1.000	1.199	1.022
2018	1.959	1.516	1.356	1.084	1.050	1.032	1.016	1.008	1.000	1.001	1.000	1.193	1.010
2019	2.038	1.518	1.360	1.088	1.035	1.021	1.006	1.003	0.998	0.998	0.998	1.157	0.996
2020	1.985	1.475	1.353	1.071	1.034	1.025	1.018					1.156	
2021	2.110	1.528	1.361										

Blue - Written in CY 2019

Green - Written in CY 2020

Yellow - Written in CY 2021

Source: WCIRB aggregate financial data.

Insurer Level Earned Premium Development Factor by Policy Year

PY	Age-to-Age (in months)												
	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	30-33	33-36	12-24	24-36
2006	2.969	1.978	1.646	1.311	1.176	1.092	1.026	1.001	1.002	0.999	0.999	1.729	1.001
2007	2.997	2.007	1.644	1.291	1.192	1.096	1.029	0.997	1.001	0.996	0.999	1.736	0.993
2008	3.119	2.024	1.640	1.315	1.175	1.082	1.010	0.998	0.999	1.004	0.999	1.690	1.000
2009	2.846	2.024	1.654	1.332	1.187	1.096	1.034	1.007	1.001	0.996	1.001	1.792	1.004
2010	2.758	2.040	1.673	1.333	1.198	1.103	1.034	1.007	1.004	1.001	0.999	1.823	1.011
2011	2.905	2.072	1.671	1.352	1.208	1.105	1.042	1.015	1.013	1.000	1.001	1.881	1.029
2012	3.056	2.133	1.727	1.357	1.209	1.116	1.035	1.010	1.009	1.001	1.001	1.896	1.021
2013	3.120	2.107	1.704	1.355	1.200	1.106	1.040	1.010	1.002	1.002	1.000	1.870	1.014
2014	3.101	2.108	1.716	1.340	1.198	1.099	1.031	1.010	1.004	0.999	0.999	1.820	1.013
2015	3.033	2.099	1.706	1.346	1.201	1.102	1.036	1.013	1.006	1.003	0.999	1.846	1.021
2016	3.044	2.087	1.689	1.337	1.196	1.099	1.035	1.017	1.005	1.000	0.998	1.819	1.020
2017	3.137	2.072	1.694	1.345	1.197	1.104	1.035	1.009	1.008	1.002	1.000	1.839	1.019
2018	3.044	2.063	1.698	1.332	1.193	1.096	1.030	1.006	1.000	1.001	1.000	1.793	1.007
2019	3.109	2.049	1.677	1.333	1.181	1.089	1.024	1.000	0.999	0.998	0.998	1.757	0.995
2020	2.917	2.037	1.693	1.348	1.182	1.097	1.039					1.816	
2021	3.186	2.128	1.701										

Blue - Earned in CY 2019

Green - Earned in CY 2020

Yellow - Earned in CY 2021

Source: WCIRB aggregate financial data.

Adjustment to Earned Premium Amounts for Pandemic Era Audits

Earned Premium Development Factor by Policy Year		
PY	12-24	24-36
2014	1.820	1.013
2015	1.846	1.021
2016	1.819	1.020
2017	1.839	1.019
2018	1.793	1.007
2019	1.757	0.995
2020	1.816	
2021		
Selected for 2020*		1.010
Selected for 2021**	1.824	1.018

*Selection for 2020 is the average of the latest 4 years' factors
**Selection for 2021 is the average of the 4 pre-pandemic years' factors

Incremental Earned Premium by Age			
PY	0-12	12-24	24-36
2019	8,447,728,930	6,392,747,417	-70,274,690
2020	7,476,966,673	6,097,578,277	139,697,897
2021	7,656,815,389	6,311,334,800	252,711,905

CY	Reported Earned Premium Before Audits (1)	Estimated Audit Premium (2)	Estimated Final Earned Premium (3)=(1)+(2)	Reported Earned Premium (4)	Factor to be applied to Adjust for Audit Premiums (5)=(3)/(4)
2020	13,869,714,090	46,674,879	13,916,388,969	14,050,534,459	0.990
2021	13,754,393,666	201,278,367	13,955,672,033	13,618,275,197	1.025

(1) is based on the 0-12 month earned premium from the PY equal to the CY and the 12-24 month earned premium from the PY prior to the CY and excludes the later period audit adjustments.

(2) is equal to the estimated earned audit premium from 24-36 months from the PY equal to the CY and the PY prior to the CY, distributed to calendar years based on the reported distribution of earned premium between policy and calendar years through 24 months.

(4) is based on reported calendar year data as of December 31, 2021.

Source: WCIRB aggregate financial data

Item AC21-12-07

Indemnity Claim Frequency Model

At the December 9, 2021 Actuarial Committee meeting, WCIRB staff presented a report summarizing the comprehensive review of the WCIRB Indemnity Claim Frequency Model used to forecast future indemnity claim frequency changes. This report was accepted by the Committee which agreed that the recommendations should be reflected in the updated model forecast for December 31, 2021 experience to be reviewed at the March 21, 2022 Actuarial Committee meeting.

Key changes to the model included using a non-leading benefit level term which does not include cost of living adjustments instead of a leading benefit level term which includes cost of living adjustments, incorporating the Cal-OSHA variable into the hazardousness adjustment instead of as a standalone variable, forecasting the changes in the cumulative injury index (CII) using a time series model instead of assuming no change during the projection period, and using the fitted constant term without adjustments instead of adjusting the fitted constant term. The recommended model continues to use the same economic variables, to include all years of data and to be based on changes in the underlying variables rather than the variable levels. Staff also recommended reviewing a model with an alternative specification for the economic variables and excluding outlier accident years from the estimation of the linear model. Staff has implemented the recommended changes from the December Committee meeting.

In the prior implementation of the model, the predicted change was the same for both non-cumulative and cumulative frequency as there was no forecast available for the CII, implying changes in cumulative and non-cumulative frequency were equal to maintain a constant CII. In the current implementation of the model, the projected total frequency change is calculated based on the projected non-cumulative frequency change and the projected CII.

Exhibit 1 shows the calculation of the change in total frequency and the change in the CII using a full accident year of unit statistical report (USR) data based on accident years 2018 and 2019. Exhibit 2 shows the calculation of the change in total frequency based on the projected change in non-cumulative frequency and the forecasted CII using two partial accident years of USR data for accident years 2019 and 2020. As the CII calculated based on the partial accident year is consistently higher than that based on the total accident year, the calculation uses the annual change in cumulative and non-cumulative frequencies based on the partial accident year to project the frequency for the complete year as well as the frequency estimates used in the time series forecast. Exhibit 3 shows that the CII for the complete year is, on average, 16% lower than the CII based on the partial year. As the linear regression model relies on changes in the variables, this continues the existing practice of using the change in the CII for the partial year of data as an estimate of the change for the complete accident year. Estimation of the time series forecast uses the level of the CII so the latest data point is adjusted to be on the same basis as the earlier points in the series by applying the annual changes in the cumulative and non-cumulative frequency for the partial year to the cumulative and non-cumulative frequency for the most recent complete accident year. Exhibits 4.1 through 4.4 show the calculation of the forecast indemnity claim frequency change for each of the four projection years used in the indication.

Exhibit 5 shows the projected change in indemnity claim frequency for accident years 2021 through 2024 based on the updated model. Exhibit 6 shows the projected change based on the alternative specification of the model using a different specification for the economic variables and excluding outlier accident years.

1: AYs with complete year of USR data

AY 2018

Non-Cumulative Frequency	0.134	(1)
Cumulative Frequency	0.020	(2)
Total Frequency	0.154	(3)
Cumulative Injury Index	0.152	(4)

AY 2019

Non-Cumulative Frequency	0.132	(5)
Cumulative Frequency	0.021	(6)
Total Frequency	0.153	(7)
Cumulative Injury Index	0.159	(8)

Annual Log Differences for AY 2019

Non-Cumulative Frequency	-0.013	(9)
Cumulative Frequency	0.037	(10)
Total Frequency	-0.007	(11)
Cumulative Injury Index	0.050	(12)

(1), (2): USR Policy Year 2018 (Final)

(5), (6): USR Policy Year 2019 (Prelim)

(3) = (1) + (2)

(4) = (2) / (1)

(7) = (5) + (6)

(8) = (6) / (5)

(9) = LN ((5) / (1))

(10) = LN ((6) / (2))

(11) = LN ((7) / (3))

(12) = LN ((8) / (4))

2: AY with partial year of USR data

AY 2019 (PY 2018 only)

Non-Cumulative Frequency	0.130	(1)
Cumulative Frequency	0.024	(2)
Total Frequency	0.154	(3)
Cumulative Injury Index	0.181	(4)

AY 2020 (PY 2019 only)

Non-Cumulative Frequency	0.119	(5)
Cumulative Frequency	0.028	(6)
Total Frequency	0.148	(7)
Cumulative Injury Index	0.237	(8)

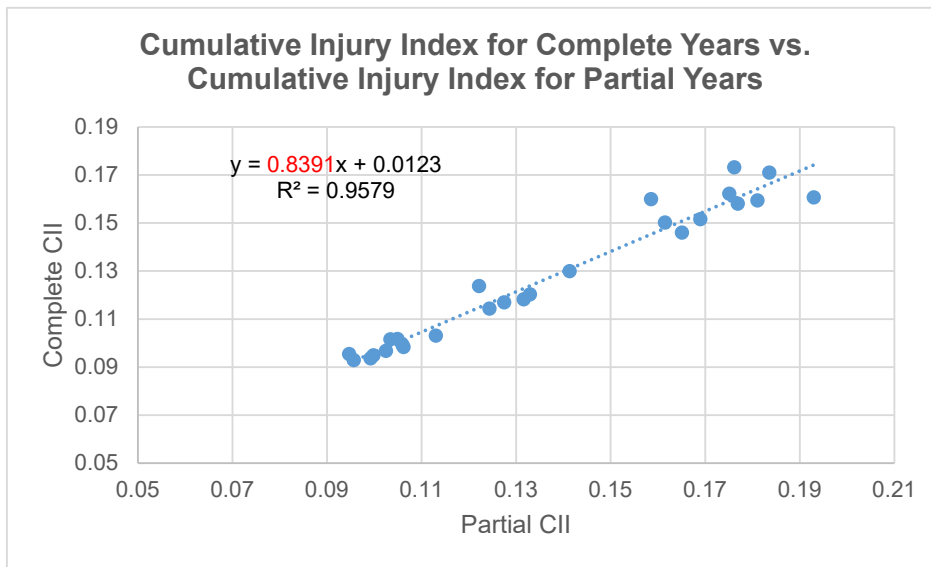
Annual Log Differences for AY 2020

Non-Cumulative Frequency	-0.086	(9)
Cumulative Frequency	0.183	(10)
Total Frequency	-0.040	(11)
Cumulative Injury Index	0.269	(12)

AY 2020 (Adjusted to a completed year basis)

Non-Cumulative Frequency	0.121	(13)
Cumulative Frequency	0.025	(14)
Total Frequency	0.147	(15)
Cumulative Injury Index	0.209	(16)

- (1) - (12): Calculated as Exhibit 1
 (13) = Exhibit 1 (5) * EXP ((9))
 (14) = Exhibit 1 (6) * EXP ((10))
 (15) = (13) + (14)
 (16) = (14) / (13)



3. Forecasted AYs

AY 2021

Frequency Model Forecasts

	Model Coefficient	Annual Log Differences	
Constant	-0.034		
Benefit Level	0.187	0.000	
CII	0.209	0.098	(1)
Econ Variable	0.103	0.278	
	Non-Cumulative Frequency Annual Change	0.016	(2)
	Non-Cumulative Frequency	0.123	(3)
	Cumulative Injury Index	0.230	(4)
	Cumulative Frequency	0.028	(5)
	Total Frequency	0.152	(6)

Annual Log Differences for AY 2021			
	Non-Cumulative Frequency	0.016	(7)
	Cumulative Frequency	0.114	(8)
	Total Frequency	0.033	(9)

- (2) = Constant + Benefit Level Coefficient * Benefit Level Change +
CII Coefficient * CII Change + Econ Variable Coefficient * Econ Variable Change
- (3) = EXP((2)) * Exhibit 2 (13)
- (4) = EXP((1)) * Exhibit 2 (16)
- (5) = (3) * (4)
- (6) = (3) + (5)
- (7) = (2)
- (8) = (5) / Exhibit 2 (14)
- * (8) = (1) + (7) according to Law of Exponents and Logarithms
- (9) = (6) / Exhibit 2 (15)

**AY 2022
Frequency Model Forecasts**

	Model Coefficient	Annual Log Differences	
Constant	-0.034		
Benefit Level	0.187	0.000	
CII	0.209	-0.013	(1)
Econ Variable	0.103	0.335	
Non-Cumulative Frequency Annual Change			
		-0.002	(2)
Non-Cumulative Frequency			
		0.123	(3)
Cumulative Injury Index			
		0.227	(4)
Cumulative Frequency			
		0.028	(5)
Total Frequency			
		0.151	(6)

Annual Log Differences for AY 2022			
	Non-Cumulative Frequency	-0.002	(7)
	Cumulative Frequency	-0.014	(8)
	Total Frequency	-0.004	(9)

- (2) = Constant + Benefit Level Coefficient * Benefit Level Change +
CII Coefficient * CII Change + Econ Variable Coefficient * Econ Variable Change
- (3) = EXP((2)) * Exhibit 4.1 (3)
- (4) = EXP((1)) * Exhibit 4.1 (4)
- (5) = (3) * (4)
- (6) = (3) + (5)
- (7) = (2)
- (8) = (5) / Exhibit 4.1 (5)
- * (8) = (1) + (7) according to Law of Exponents and Logarithms
- (9) = (6) / Exhibit 4.1 (6)

**AY 2023
Frequency Model Forecasts**

	Model Coefficient	Annual Log Differences	
Constant	-0.034		
Benefit Level	0.187	0.000	
CII	0.209	-0.078	(1)
Econ Variable	0.103	0.209	
	Non-Cumulative Frequency Annual Change	-0.028	(2)
	Non-Cumulative Frequency	0.120	(3)
	Cumulative Injury Index	0.210	(4)
	Cumulative Frequency	0.025	(5)
	Total Frequency	0.145	(6)

Annual Log Differences for AY 2023			
	Non-Cumulative Frequency	-0.028	(7)
	Cumulative Frequency	-0.106	(8)
	Total Frequency	-0.042	(9)

(2) - (9) : Calculated as Exhibit 4.2

**AY 2024
Frequency Model Forecasts**

	Model Coefficient	Annual Log Differences	
Constant	-0.034		
Benefit Level	0.187	0.000	
CII	0.209	-0.097	(1)
Econ Variable	0.103	0.055	
	Non-Cumulative Frequency Annual Change	-0.048	(2)
	Non-Cumulative Frequency	0.114	(3)
	Cumulative Injury Index	0.191	(4)
	Cumulative Frequency	0.022	(5)
	Total Frequency	0.136	(6)

Annual Log Differences for AY 2024			
	Non-Cumulative Frequency	-0.048	(7)
	Cumulative Frequency	-0.145	(8)
	Total Frequency	-0.064	(9)

(2) - (9) : Calculated as Exhibit 4.2

2021 Accident Year Indemnity Claim Frequency Model
As of PY 2019 Preliminary 1st Set & March 2022 UCLA

AY	Annual %	Annual Log Differences					
	Changes Intra- Class Ind Freq	Intra-Class Indemnity Frequency per \$M Exposure at PY 2020 Level			AY+1 Indemnity	Cumulative	Economic Variables
	Total	Total	Cumulative	Non-cum.	Benefit Level	Injury Index	(1st Prin. Comp.)
1979	0.5%	0.005	-0.053	0.007	0.000	-0.060	0.129
1980	-6.5%	-0.068	-0.132	-0.066	0.000	-0.066	-0.078
1981	-3.5%	-0.036	-0.028	-0.036	0.033	0.008	-0.076
1982	-1.6%	-0.016	0.153	-0.022	0.000	0.175	-0.285
1983	6.2%	0.060	0.214	0.054	0.352	0.160	0.028
1984	9.5%	0.091	0.235	0.084	0.081	0.151	0.215
1985	2.0%	0.020	0.138	0.014	0.000	0.124	0.078
1986	-2.4%	-0.024	0.039	-0.028	0.000	0.067	0.075
1987	1.5%	0.015	0.053	0.013	0.000	0.041	0.145
1988	0.7%	0.007	0.104	0.000	0.000	0.104	0.084
1989	2.5%	0.024	0.212	0.009	0.000	0.203	0.043
1990	9.0%	0.087	0.337	0.061	0.046	0.276	-0.116
1991	0.3%	0.003	0.166	-0.018	0.071	0.184	-0.282
1992	-10.3%	-0.108	-0.263	-0.089	0.023	-0.174	-0.181
1993	-9.2%	-0.097	-0.175	-0.088	0.013	-0.088	-0.021
1994	-10.5%	-0.111	-0.167	-0.105	-0.057	-0.061	0.103
1995	-0.3%	-0.003	0.009	-0.004	0.061	0.013	0.089
1996	-6.8%	-0.070	-0.165	-0.061	0.053	-0.104	0.072
1997	-3.3%	-0.033	-0.026	-0.034	0.096	0.008	0.132
1998	-3.7%	-0.038	-0.020	-0.040	0.066	0.019	0.075
1999	1.5%	0.015	0.010	0.015	0.058	-0.005	0.122
2000	4.0%	0.039	0.101	0.033	0.040	0.068	0.063
2001	-6.9%	-0.072	0.106	-0.091	-0.003	0.197	-0.096
2002	-2.3%	-0.023	0.202	-0.055	-0.007	0.257	-0.194
2003	-2.9%	-0.029	0.028	-0.038	0.060	0.067	-0.022
2004	-16.7%	-0.182	-0.318	-0.161	-0.065	-0.158	0.090
2005	-13.6%	-0.146	-0.342	-0.120	-0.398	-0.222	0.135
2006	-5.6%	-0.058	-0.204	-0.042	0.051	-0.163	0.090
2007	-1.7%	-0.017	-0.042	-0.015	0.016	-0.027	-0.081
2008	-2.7%	-0.027	-0.012	-0.029	0.049	0.017	-0.296
2009	-0.2%	-0.002	0.134	-0.016	0.069	0.150	-0.414
2010	8.9%	0.085	0.115	0.081	0.016	0.034	-0.090
2011	1.2%	0.012	0.028	0.010	0.000	0.017	0.047
2012	4.7%	0.046	0.115	0.037	0.003	0.077	0.126
2013	0.4%	0.004	0.131	-0.014	0.019	0.145	0.154
2014	0.2%	0.002	0.046	-0.005	0.070	0.051	0.179
2015	-1.4%	-0.015	0.008	-0.018	0.000	0.026	0.195
2016	-2.7%	-0.027	0.029	-0.036	0.000	0.066	0.128
2017	-1.8%	-0.018	-0.083	-0.008	0.000	-0.075	0.133
2018	-0.5%	-0.005	-0.055	0.003	0.000	-0.058	0.122
2019	-0.7%	-0.007	0.037	-0.013	0.000	0.050	0.037
2020*	-3.9%	-0.040	0.183	-0.086	0.000	0.269	-0.905
2021	2.7%	0.033	0.114	0.016	0.000	0.098	0.278
2022	-0.4%	-0.004	-0.014	-0.002	0.000	-0.013	0.335
2023	-4.1%	-0.042	-0.106	-0.028	0.000	-0.078	0.209
2024	-6.2%	-0.064	-0.145	-0.048	0.000	-0.097	0.055

Y = Hazardousness-Adjusted Noncumulative Indemnity Claim Frequency

Constant	-0.034
Std Err of Y Est	0.039
R Squared	0.464
No. of Observations	42
Degrees of Freedom	38

X Coefficient(s)	0.187	0.209	0.103
Std Err of Coef.	0.075	0.061	0.044

Notes:

The Indemnity Benefit Level variable is concurrent. The AY 2004 benefit level change is related to the AY 2004 change in non-cumulative frequency.
The Indemnity Benefit Level variable excludes indemnity benefit utilization, cost-of-living adjustments, 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 Actuarial Committee item AC14-03-19.
The definition of cumulative claims has been further amended to include claims coded with certain nature of injury codes in USR. See Actuarial Committee item AC21-12-09.
The cumulative injury index is forecasted using a time series model with an autoregressive term of degree 2. See Actuarial Committee item AC21-12-09.
Economic variables are historical through 2021; March 2022 UCLA Anderson Forecasts for 2022 on.
The indicator variable for Cal-OSHA inspections has been moved into an on-level adjustment. See Actuarial Committee item AC21-12-09.
Regression is over AY 1979 through AY 2020. AY 2021 through AY 2024 are projections.
The constant term is unadjusted and no longer includes measured offsets of -0.020 that recognized annual changes in real benefit levels relative to nominal benefit levels and long-term economic growth. Future studies showed that the inclusion of the offset was only necessary because projections of changes in the cumulative injury index were not included as part of forecast frequency changes. See Actuarial Committee item AC21-12-09.
*AY 2020 is preliminary and change is based on a comparison of 2020 accidents on 2019 policies to 2019 accidents on 2018 policies.

2021 Accident Year Indemnity Claim Frequency Model
As of PY 2019 Preliminary 1st Set & March 2022 UCLA
Employment Rate Alternative

AY	Annual %	Annual Log Differences					
	Changes Intra- Class Ind Freq	Intra-Class Indemnity Frequency per \$M Exposure at PY 2020 Level			AY+1 Indemnity	Cumulative	Economic Variables
	Total	Total	Cumulative	Non-cum.	Benefit Level	Injury Index	(1st Prin. Comp.)
1979	0.5%	0.005	-0.053	0.007	0.000	-0.060	0.045
1980	-6.5%	-0.068	-0.132	-0.066	0.000	-0.066	0.060
1981	-3.5%	-0.036	-0.028	-0.036	0.033	0.008	0.011
1982	-1.6%	-0.016	0.153	-0.022	0.000	0.175	-0.024
1983	6.2%	0.060	0.214	0.054	0.352	0.160	0.010
1984	9.5%	0.091	0.235	0.084	0.081	0.151	0.050
1985	2.0%	0.020	0.138	0.014	0.000	0.124	0.032
1986	-2.4%	-0.024	0.039	-0.028	0.000	0.067	0.028
1987	1.5%	0.015	0.053	0.013	0.000	0.041	0.036
1988	0.7%	0.007	0.104	0.000	0.000	0.104	0.038
1989	2.5%	0.024	0.212	0.009	0.000	0.203	0.026
1990	9.0%	0.087	0.337	0.061	0.046	0.276	0.017
1991	0.3%	0.003	0.166	-0.018	0.071	0.184	-0.018
1992	-10.3%	-0.108	-0.263	-0.089	0.023	-0.174	-0.020
1993	-9.2%	-0.097	-0.175	-0.088	0.013	-0.088	-0.008
1994	-10.5%	-0.111	-0.167	-0.105	-0.057	-0.061	0.013
1995	-0.3%	-0.003	0.009	-0.004	0.061	0.013	0.022
1996	-6.8%	-0.070	-0.165	-0.061	0.053	-0.104	0.028
1997	-3.3%	-0.033	-0.026	-0.034	0.096	0.008	0.031
1998	-3.7%	-0.038	-0.020	-0.040	0.066	0.019	0.033
1999	1.5%	0.015	0.010	0.015	0.058	-0.005	0.029
2000	4.0%	0.039	0.101	0.033	0.040	0.068	0.034
2001	-6.9%	-0.072	0.106	-0.091	-0.003	0.197	0.005
2002	-2.3%	-0.023	0.202	-0.055	-0.007	0.257	-0.012
2003	-2.9%	-0.029	0.028	-0.038	0.060	0.067	-0.002
2004	-16.7%	-0.182	-0.318	-0.161	-0.065	-0.158	0.013
2005	-13.6%	-0.146	-0.342	-0.120	-0.398	-0.222	0.021
2006	-5.6%	-0.058	-0.204	-0.042	0.051	-0.163	0.018
2007	-1.7%	-0.017	-0.042	-0.015	0.016	-0.027	0.007
2008	-2.7%	-0.027	-0.012	-0.029	0.049	0.017	-0.015
2009	-0.2%	-0.002	0.134	-0.016	0.069	0.150	-0.068
2010	8.9%	0.085	0.115	0.081	0.016	0.034	-0.013
2011	1.2%	0.012	0.028	0.010	0.000	0.017	0.012
2012	4.7%	0.046	0.115	0.037	0.003	0.077	0.026
2013	0.4%	0.004	0.131	-0.014	0.019	0.145	0.030
2014	0.2%	0.002	0.046	-0.005	0.070	0.051	0.031
2015	-1.4%	-0.015	0.008	-0.018	0.000	0.026	0.032
2016	-2.7%	-0.027	0.029	-0.036	0.000	0.066	0.027
2017	-1.8%	-0.018	-0.083	-0.008	0.000	-0.075	0.021
2018	-0.5%	-0.005	-0.055	0.003	0.000	-0.058	0.021
2019	-0.7%	-0.007	0.037	-0.013	0.000	0.050	0.014
2020*	-3.9%	-0.040	0.183	-0.086	0.000	0.269	-0.092
2021	0.8%	0.015	0.095	-0.003	0.000	0.098	0.026
2022	-1.0%	-0.010	-0.020	-0.008	0.000	-0.013	0.050
2023	-5.3%	-0.054	-0.118	-0.040	0.000	-0.078	0.028
2024	-6.9%	-0.072	-0.152	-0.055	0.000	-0.097	0.014

Y = Hazardousness-Adjusted Noncumulative Indemnity Claim Frequency

Constant	-0.046
Std Err of Y Est	0.032
R Squared	0.604
No. of Observations	40
Degrees of Freedom	36

X Coefficient(s)	0.173	0.217	0.826
Std Err of Coef.	0.061	0.048	0.186

Notes:

The Indemnity Benefit Level variable is concurrent. The AY 2004 benefit level change is related to the AY 2004 change in non-cumulative frequency.
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The cumulative injury index is forecasted using a time series model with an autoregressive term of degree 2. See Actuarial Committee item AC21-12-09.
Economic variables are historical through 2021; March 2022 UCLA Anderson Forecasts for 2022 on.
The indicator variable for Cal-OSHA inspections has been moved into an on-level adjustment. See Actuarial Committee item AC21-12-09.
Regression is over AY 1979 through AY 2020 excluding AY 2001 and AY 2010. See Actuarial Committee item AC21-12-09. AY 2021 through AY 2024 are projections.
The constant term is unadjusted and no longer includes measured offsets of -0.020 that recognized annual changes in real benefit levels relative to nominal benefit levels and long-term economic growth. Future studies showed that the inclusion of the offset was only necessary because projections of changes in the cumulative injury index were not included as part of forecast frequency changes. See Actuarial Committee item AC21-12-09.
*AY 2020 is preliminary and change is based on a comparison of 2020 accidents on 2019 policies to 2019 accidents on 2018 policies.

Item AC22-03-01

First Quarter 2022 Review of Diagnostics

Twice a year, staff compiles a comprehensive list of measures to be reviewed by the Claims Working Group and Actuarial Committee in order to identify and quantify changes in claim patterns and trends and help determine the most appropriate methodologies to be used in the development of pure premium rates. The diagnostics are segregated into the following areas:

1. Market and claim characteristic information (exhibit numbers start with M)
2. Claim count information (exhibit numbers start with C)
3. Loss development information (exhibit numbers start with D)
4. Claim severity information (exhibit numbers start with S)
5. Loss adjustment expense information (exhibit numbers start with E)

Please note the following:

1. In 2020, the share of medical-only claims decreased sharply in 2020 and is at a historical low. The share of indemnity claims involving permanent disability has been relatively stable over the last several years. (Exhibit M4)
2. After dropping sharply over the last decade, the number of lien filings increased in 2021. (Exhibit M9.2)
3. The number of eligible independent medical reviews (IMR) continued to decrease in 2021. (Exhibit M14)
4. Through September 30, 2021, the rate of indemnity claims closing continues to decline. (Exhibit C3.2)
5. The cumulative injury share of total indemnity counts for 2020 increased sharply. (Exhibit C15)
6. From 2019 to 2020, the ratio of indemnity claims to total claims increased due to a sharp decline in the number of medical-only claims during the pandemic. The increase in cumulative injury claims per 100 indemnity claims in 2020 was experienced in all regions. (Exhibit C17)
7. Retrospective evaluations of the performance of alternative loss development methodologies indicate that the latest year reform and claim settlement rate adjusted methodology for projecting ultimate loss ratios is consistently closer to actual loss ratio than the other methodologies reviewed. (Exhibits D6.1 to D6.5)
8. The number and share of claims in excess of \$1 million incurred in policy year 2019 at the first report level increased significantly in policy year 2019 and is at a historical high. (Exhibit S16.3)
9. The payments on medical-legal reports by service year in 2021 increased considerably, particularly in the latter three quarters of the year following the implementation of the 2021 Medical-Legal Fee Schedule changes. (Exhibit E13.2)

Exhibit Numbering Guide March 2022

Exhibit #	Exhibit Name
Market/Claim Characteristics	
M4	Distribution of Estimated Ultimate Number of Claims by Injury Type
M5	Percentage of Claims Closed by Injury Type and Region - First through Third Report Level
M8	Quarterly Expedited Hearings by Region
M9	Number of Division of Workers' Compensation (DWC) Lien Decisions
M14	IMR Filed Counts
Claim Count	
C1	Reported Indemnity Claim Count Development - Statewide
C3	Ratio of Incremental Closed Indemnity Claims to Prior Open Indemnity Claims
C7	Accident Year Indemnity Claim Frequency Model & Indemnity Claim Frequency History and Projections
C10	Annual Changes in Indemnity Frequency Attributable to Changes in Hazardousness
C11	Changes in Incremental Indemnity Claim Counts and Medical Only Claim Counts
C12	Economic Variables
C15	Accident Year Cumulative Injury Indemnity Claim Counts by Policy Year and Report Level
C17	Claim Count Ratios by Region Based on Unit Statistical Data at 1st Report Level
C21	Indemnity Claim Frequency by Geographic Region
Loss Development	
D4	Ratios of Incremental Paid Losses to Prior Outstanding Losses by Accident Year
D6	Comparison of Projected Loss Ratios
Claim Severity	
S2	Average Incurred Indemnity Loss per Reported Indemnity Claim & Incurred Medical Loss per Reported Claim
S3	Average Indemnity & Medical Case Outstanding Per Open Indemnity Claim
S4	Average Paid Losses per Indemnity Claim & Average Paid Medical Loss Per Claim
S5	Average Paid Losses per Closed Indemnity Claim
S6	Ratio of Incremental Paid Indemnity & Medical to Indemnity Claims Open During Period
S7	Ratio of Quarterly Paid Medical to Indemnity Claims Inventory
S8	Estimated Ultimate Severities by Injury Type
S10	Changes in the Number of Weeks of Temporary Disability Benefits
S11	Average Permanent Disability Ratings by Type of Loss
S15	Annual Changes in Indemnity Severity Attributable to Changes in Hazardousness
S16	Claim Counts and Losses on Claims in Excess of \$250,000 & \$500,000 & \$1,000,000
Loss Adjustment Expense	
E5	Average Paid ALAE Per Reported Indemnity Claim - Private Insurers
E7	Percentage of Represented Permanent Disability Claims by Region and Loss Type
E13	Changes in the Number and Cost of Medical-Legal Reports by Service Year
E15	Average Paid MCCP per Reported Indemnity Claim - Statewide

Distribution of Estimated Ultimate Number of Claims by Injury Type

I. Distribution of Ultimate Number of Indemnity Claims

<u>Accident Year</u>	<u>Permanent Indemnity</u>	<u>Temporary Indemnity</u>	<u>Total</u>
2004	49.7%	50.3%	100%
2005	46.2%	53.8%	100%
2006	47.2%	52.8%	100%
2007	48.3%	51.7%	100%
2008	50.4%	49.6%	100%
2009	51.8%	48.2%	100%
2010	51.3%	48.7%	100%
2011	51.1%	48.9%	100%
2012	50.2%	49.8%	100%
2013	49.9%	50.1%	100%
2014	50.0%	50.0%	100%
2015	50.2%	49.8%	100%
2016	49.2%	50.8%	100%
2017	47.5%	52.5%	100%
2018	46.4%	53.6%	100%
2019	46.7%	53.3%	100%
2020*	47.4%	52.6%	100%

II. Distribution of Ultimate Number of All Claims

<u>Accident Year</u>	<u>Permanent Indemnity**</u>	<u>Temporary Indemnity</u>	<u>Medical Only</u>	<u>Total</u>
2004	15.6%	15.8%	68.6%	100%
2005	13.4%	15.7%	70.9%	100%
2006	13.6%	15.2%	71.2%	100%
2007	14.3%	15.3%	70.4%	100%
2008	15.5%	15.2%	69.3%	100%
2009	17.2%	16.0%	66.8%	100%
2010	17.7%	16.9%	65.4%	100%
2011	18.2%	17.4%	64.4%	100%
2012	18.3%	18.1%	63.6%	100%
2013	18.7%	18.8%	62.5%	100%
2014	18.7%	18.7%	62.6%	100%
2015	18.7%	18.5%	62.8%	100%
2016	18.3%	18.9%	62.8%	100%
2017	17.0%	18.8%	64.2%	100%
2018	16.6%	19.2%	64.2%	100%
2019	16.7%	19.1%	64.2%	100%
2020*	19.5%	21.6%	58.9%	100%

* Accident year 2020 experience is partial in that it only reflects experience from policy year 2019.

** Permanent indemnity consists of the death, permanent total, and permanent partial injury types.

Source: WCIRB unit statistical data

***COVID-19 claims have been excluded

Percentage of Claims Closed by Injury Type and Region

Permanent Partial & Temporary

Permanent Partial		Policy Year							Latest Year Reported Claim Distribution
Report Level	Region*	2013	2014	2015	2016	2017	2018	2019	
1	Bay Area	15%	16%	18%	19%	20%	19%	21%	10%
1	Los Angeles	16%	17%	21%	24%	25%	26%	24%	63%
1	San Diego	20%	20%	23%	26%	27%	27%	25%	7%
1	Remainder of CA	17%	17%	20%	22%	23%	24%	21%	20%
	ALL REGIONS COMBINED	16%	17%	20%	23%	24%	25%	23%	100%
2	Bay Area	38%	41%	45%	47%	48%	44%		14%
2	Los Angeles	37%	40%	45%	51%	50%	48%		59%
2	San Diego	44%	46%	50%	53%	53%	50%		7%
2	Remainder of CA	39%	42%	47%	48%	48%	48%		20%
	ALL REGIONS COMBINED	38%	41%	46%	50%	50%	48%		100%
3	Bay Area	59%	62%	65%	66%	65%			14%
3	Los Angeles	55%	59%	65%	69%	67%			56%
3	San Diego	65%	67%	70%	75%	69%			7%
3	Remainder of CA	59%	62%	67%	68%	67%			23%
	ALL REGIONS COMBINED	58%	61%	66%	69%	67%			100%
Temporary		Policy Year							Latest Year Reported Claim Distribution
Report Level	Region*	2013	2014	2015	2016	2017	2018	2019	
1	Bay Area	56%	59%	60%	61%	62%	64%	63%	13%
1	Los Angeles	47%	50%	51%	52%	54%	53%	54%	59%
1	San Diego	55%	56%	57%	60%	62%	60%	62%	7%
1	Remainder of CA	55%	59%	60%	61%	61%	64%	65%	20%
	ALL REGIONS COMBINED	52%	55%	55%	57%	58%	58%	58%	100%
2	Bay Area	77%	77%	79%	79%	80%	82%		16%
2	Los Angeles	68%	70%	72%	73%	74%	71%		55%
2	San Diego	75%	76%	77%	80%	79%	76%		7%
2	Remainder of CA	74%	76%	77%	78%	81%	79%		22%
	ALL REGIONS COMBINED	72%	73%	75%	76%	77%	75%		100%
3	Bay Area	87%	89%	89%	89%	89%			16%
3	Los Angeles	81%	82%	84%	86%	84%			51%
3	San Diego	87%	88%	89%	88%	89%			7%
3	Remainder of CA	86%	86%	88%	90%	89%			26%
	ALL REGIONS COMBINED	84%	85%	86%	88%	87%			100%

*Los Angeles Includes Los Angeles County and remainder of Los Angeles Basin

Source: WCIRB unit statistical data

Quarterly Expedited Hearings by Region

<u>Time Period</u>	<u>Northern California</u>	<u>Central California</u>	<u>Southern California</u>	<u>Expedited Hearing</u>	<u>Change from Same Quarter in Prior Year</u>
1st Qtr 2011	---	---	---	2,503	---
2nd Qtr 2011	---	---	---	2,098	---
3rd Qtr 2011	---	---	---	2,462	---
4th Qtr 2011	---	---	---	2,439	---
1st Qtr 2012	---	---	---	2,480	-0.9%
2nd Qtr 2012	---	---	---	2,525	20.4%
3rd Qtr 2012	---	---	---	3,786	53.8%
4th Qtr 2012	---	---	---	2,673	9.6%
1st Qtr 2013	---	---	---	3,480	40.3%
2nd Qtr 2013	---	---	---	3,615	43.2%
3rd Qtr 2013	---	---	---	4,109	8.5%
4th Qtr 2013	---	---	---	4,013	50.1%
1st Qtr 2014	---	---	---	3,813	9.6%
2nd Qtr 2014	14.4%	24.6%	60.9%	4,463	23.5%
3rd Qtr 2014	16.6%	23.5%	59.8%	4,404	7.2%
4th Qtr 2014	16.9%	16.8%	66.3%	3,926	-2.2%
1st Qtr 2015	15.9%	18.2%	65.9%	4,062	6.5%
2nd Qtr 2015	18.0%	18.0%	63.9%	3,993	-10.5%
3rd Qtr 2015	17.6%	20.1%	62.3%	4,222	-4.1%
4th Qtr 2015	19.1%	20.3%	60.6%	4,252	8.3%
1st Qtr 2016	18.4%	20.7%	60.8%	4,507	11.0%
2nd Qtr 2016	16.7%	20.5%	62.8%	4,631	16.0%
3rd Qtr 2016	17.5%	20.3%	62.2%	4,764	12.8%
4th Qtr 2016	18.3%	20.1%	61.6%	4,569	7.5%
1st Qtr 2017	19.1%	20.3%	60.6%	4,983	10.6%
2nd Qtr 2017	16.8%	17.8%	65.4%	4,990	7.8%
3rd Qtr 2017	16.8%	15.3%	67.9%	5,041	5.8%
4th Qtr 2017	16.5%	15.3%	68.2%	5,155	12.8%
1st Qtr 2018	20.0%	16.4%	63.6%	5,633	13.0%
2nd Qtr 2018	19.7%	14.8%	65.5%	5,768	15.6%
3rd Qtr 2018	20.7%	13.8%	65.5%	5,594	11.0%
4th Qtr 2018	20.3%	12.5%	67.2%	5,537	7.4%
1st Qtr 2019	20.1%	14.6%	65.3%	5,705	1.3%
2nd Qtr 2019	17.8%	12.0%	70.2%	5,831	1.1%
3rd Qtr 2019	17.7%	14.8%	67.5%	6,380	14.1%
4th Qtr 2019	15.8%	12.7%	71.5%	5,793	4.6%
1st Qtr 2020	17.8%	13.7%	68.5%	5,773	1.2%
2nd Qtr 2020	18.3%	13.3%	68.4%	4,773	-18.1%
3rd Qtr 2020	19.3%	13.5%	67.1%	5,638	-11.6%
4th Qtr 2020	19.9%	15.2%	64.8%	5,992	3.4%
1st Qtr 2021	17.5%	12.7%	69.9%	6,414	11.1%
2nd Qtr 2021	19.1%	9.0%	72.0%	6,773	41.9%
3rd Qtr 2021	16.5%	11.6%	71.9%	5,292	-6.1%
4th Qtr 2021	13.0%	11.7%	75.3%	4,694	-21.7%

Source: DWC

Quarterly Expedited Hearings - DOR Reasons by Region

Northern California

<u>Time Period</u>	<u>Medical Treatment</u>	<u>TD</u>	<u>Other</u>
2Q14-4Q14	77.4%	18.1%	4.5%
2015	76.4%	19.9%	3.7%
2016	77.6%	19.2%	3.2%
2017	77.5%	20.5%	2.0%
2018	80.8%	17.3%	1.9%
2019	81.1%	17.1%	1.8%
2020	81.4%	17.2%	1.4%
2021	82.9%	16.0%	1.1%

Central California

<u>Time Period</u>	<u>Medical Treatment</u>	<u>TD</u>	<u>Other</u>
2Q14-4Q14	86.8%	12.2%	1.0%
2015	84.6%	14.2%	1.2%
2016	87.3%	12.0%	0.7%
2017	84.8%	14.3%	0.9%
2018	84.7%	14.9%	0.4%
2019	82.7%	17.0%	0.3%
2020	81.9%	17.7%	0.5%
2021	82.1%	17.4%	0.5%

Southern California

<u>Time Period</u>	<u>Medical Treatment</u>	<u>TD</u>	<u>Other</u>
2Q14-4Q14	70.0%	19.4%	10.7%
2015	65.4%	20.5%	14.1%
2016	69.1%	18.9%	12.0%
2017	71.5%	18.6%	9.9%
2018	74.2%	17.0%	8.8%
2019	77.7%	16.0%	6.3%
2020	79.7%	15.1%	5.3%
2021	82.6%	13.6%	3.8%

Source: DWC

Number of Division of Workers' Compensation (DWC) Lien Decisions

<u>Calendar Year</u>	<u>Number of Lien Decisions (in 000s)</u>	<u>Year-to-Year Change</u>
1993	18.4	---
1994	26.3	42.9%
1995	33.6	27.8%
1996	33.9	0.9%
1997	27.1	-20.1%
1998	19.3	-28.8%
1999	17.6	-8.8%
2000	15.1	-14.2%
2001	14.8	-2.0%
2002	16.6	12.2%
2003	16.5	-0.6%
2004	21.2	28.5%
2005	24.3	14.6%
2006	28.3	16.5%
2007	35.2	24.4%
2008*	34.5	-2.0%
2009	28.5	-17.4%
2010	37.1	30.2%
2011	41.4	11.6%
2012	64.3	55.3%
2013	65.8	2.3%
2014	58.3	-11.4%
2015	64.4	10.5%
2016	56.1	-12.9%
2017	52.1	-7.1%
2018	49.7	-4.6%
2019	42.1	-15.3%
2020	16.4	-60.9%

*Prior to 8/9/2008, DWC's workload adjudication data was available from the legacy system. DWC transitioned to a new computer-based system, the Electronic Adjudication Management System (EAMS), at the end of August 2008. Therefore, data for 2008 are comprised of data both from the legacy and from the EAMS system and may not be directly comparable to previous years due to transition issues.

Source: DWC via Commission on Health and Safety & Workers' Compensation 2021 Annual Report

Liens Filed Counts*								
Counts by Region**								
<u>Time Period</u>	<u>Bay Area</u>	<u>Central Coast/ Valley</u>	<u>Los Angeles County</u>	<u>Remainder of LA Basin</u>	<u>Remaining CA Zip Codes</u>	<u>Sacramento</u>	<u>San Diego County</u>	<u>Total</u>
2011	18,723	24,414	283,774	114,554	2,535	3,934	15,922	463,856
1st Qtr 2012	5,490	7,245	97,245	38,034	895	1,248	4,936	155,093
2nd Qtr 2012	5,467	8,970	122,040	44,065	1,102	1,322	4,991	187,957
3rd Qtr 2012	6,434	15,289	207,639	85,152	698	1,407	6,611	323,230
4th Qtr 2012	10,397	25,730	342,549	123,129	1,119	1,557	8,523	513,004
1st Qtr 2013	1,232	2,193	46,830	17,032	230	268	1,312	69,097
2nd Qtr 2013	1,450	1,562	18,947	6,917	211	339	684	30,110
3rd Qtr 2013	1,607	1,795	25,999	9,855	247	410	991	40,904
4th Qtr 2013	1,928	2,025	29,537	10,893	276	358	1,136	46,153
1st Qtr 2014	1,841	2,029	25,668	10,117	239	384	1,165	41,443
2nd Qtr 2014	1,697	2,306	29,417	11,942	265	354	1,263	47,244
3rd Qtr 2014	1,941	1,996	29,665	12,198	355	424	1,378	47,957
4th Qtr 2014	1,690	2,371	34,772	12,469	374	384	1,488	53,548
1st Qtr 2015	2,071	3,058	45,827	18,016	431	488	2,133	72,024
2nd Qtr 2015	2,370	4,218	54,147	22,198	501	500	2,787	86,721
3rd Qtr 2015	2,428	4,977	61,619	24,827	691	526	3,047	98,115
4th Qtr 2015	2,338	4,991	68,843	26,571	686	495	3,085	107,009
1st Qtr 2016	2,884	5,410	67,259	27,326	672	538	3,931	108,020
2nd Qtr 2016	2,543	5,112	66,511	26,852	536	506	3,912	105,972
3rd Qtr 2016	2,243	4,167	45,707	20,136	420	462	3,404	76,539
4th Qtr 2016	1,872	4,433	66,169	25,942	506	397	4,400	103,719
1st Qtr 2017	1,228	1,872	24,947	9,594	334	312	1,380	39,667
2nd Qtr 2017	1,537	2,211	33,194	11,969	349	369	1,764	51,393
3rd Qtr 2017	1,700	2,047	29,215	10,487	298	419	1,149	45,315
4th Qtr 2017	1,535	1,804	26,566	9,914	313	366	1,176	41,674
1st Qtr 2018	1,501	1,575	28,754	10,848	312	406	1,314	44,710
2nd Qtr 2018	1,264	1,538	23,697	9,034	312	338	986	37,169
3rd Qtr 2018	1,156	1,178	18,596	6,340	241	309	702	28,522
4th Qtr 2018	1,276	1,217	19,034	6,108	230	308	690	28,863
1st Qtr 2019	1,206	1,044	17,863	5,664	268	336	577	26,958
2nd Qtr 2019	1,447	1,049	15,862	5,073	244	334	445	24,454
3rd Qtr 2019	1,246	1,195	16,354	4,731	319	381	549	24,775
4th Qtr 2019	1,206	948	15,597	4,496	286	334	434	23,301
1st Qtr 2020	1,189	1,108	14,627	4,095	260	360	461	22,100
2nd Qtr 2020	1,059	878	11,743	3,548	213	288	480	18,209
3rd Qtr 2020	1,462	825	13,277	3,875	260	420	408	20,527
4th Qtr 2020	1,368	706	13,494	4,128	261	255	325	20,537
1st Qtr 2021	1,111	806	14,407	4,134	277	288	353	21,376
2nd Qtr 2021	1,107	904	14,143	3,857	360	277	345	20,993
3rd Qtr 2021	1,056	807	16,129	4,140	386	275	324	23,117
4th Qtr 2021	1,056	752	12,745	3,691	324	289	272	19,129
Counts by Type								
<u>Time Period</u>	<u>Interpreter</u>	<u>Medical</u>	<u>Medical-Legal</u>	<u>Copy Service</u>	<u>Other***</u>	<u>Total</u>		
2011	28,721	292,982	39,569	539	102,045	463,856		
1st Qtr 2012	12,937	85,152	22,931	139	33,934	155,093		
2nd Qtr 2012	17,162	106,336	37,440	65	26,954	187,957		
3rd Qtr 2012	46,095	182,474	64,912	91	29,658	323,230		
4th Qtr 2012	47,427	317,241	80,916	62	67,358	513,004		
1st Qtr 2013	2,397	45,631	11,411	11	9,647	69,097		
2nd Qtr 2013	831	22,480	587	20	6,192	30,110		
3rd Qtr 2013	484	32,356	653	23	7,388	40,904		
4th Qtr 2013	378	37,515	537	8	7,715	46,153		
1st Qtr 2014	421	33,105	397	16	7,504	41,443		
2nd Qtr 2014	275	38,534	320	10	8,105	47,244		
3rd Qtr 2014	140	39,810	179	7	7,821	47,957		
4th Qtr 2014	156	45,440	160	4	7,788	53,548		
1st Qtr 2015	143	60,155	216	18	11,492	72,024		
2nd Qtr 2015	152	74,037	268	7	12,257	86,721		
3rd Qtr 2015	134	84,290	191	7	13,493	98,115		
4th Qtr 2015	101	91,820	236	15	14,837	107,009		
1st Qtr 2016	60	93,393	233	5	14,329	108,020		
2nd Qtr 2016	90	89,781	467	6	15,628	105,972		
3rd Qtr 2016	64	64,924	262	11	11,278	76,539		
4th Qtr 2016	94	91,867	68	4	11,686	103,719		
1st Qtr 2017	29	33,952	19	3	5,664	39,667		
2nd Qtr 2017	33	43,470	34	5	7,851	51,393		
3rd Qtr 2017	77	37,815	31	0	7,392	45,315		
4th Qtr 2017	65	33,876	18	1	7,714	41,674		
1st Qtr 2018	64	36,674	29	2	7,941	44,710		
2nd Qtr 2018	103	29,276	22	0	7,768	37,169		
3rd Qtr 2018	79	21,334	14	4	7,091	28,522		
4th Qtr 2018	60	21,595	22	1	7,185	28,863		
1st Qtr 2019	75	19,887	12	1	6,983	26,958		
2nd Qtr 2019	54	18,497	17	1	5,885	24,454		
3rd Qtr 2019	43	17,721	9	1	6,674	24,775		
4th Qtr 2019	48	15,977	14	0	7,262	23,301		
1st Qtr 2020	38	15,775	16	0	6,271	22,100		
2nd Qtr 2020	16	12,693	8	0	5,492	18,209		
3rd Qtr 2020	15	14,211	12	0	6,289	20,527		
4th Qtr 2020	10	14,460	10	0	6,057	20,537		
1st Qtr 2021	24	14,869	15	0	6,468	21,376		
2nd Qtr 2021	15	14,598	15	0	6,365	20,993		
3rd Qtr 2021	14	17,289	1	0	5,813	23,117		
4th Qtr 2021	38	14,146	4	0	4,941	19,129		

* Lien Counts exclude SDI/EDD Liens

** Regions reflect the following WCAB Office mapping: Bay Area - Oakland, San Jose, San Francisco; Central Coast/Valley - Bakersfield, Fresno, Goleta, Grover Beach, Salinas, Stockton; Los Angeles County - Long Beach, Los Angeles, Marina Del Rey, Pomona, Van Nuys; Remainder of LA Basin - Anaheim, Oxnard, Riverside, San Bernardino, Santa Ana; Remaining CA Zip Codes - Eureka, Redding, San Luis Obispo, Santa Barbara, Santa Rosa; Sacramento - Sacramento; San Diego County - San Diego

***Other includes Attorney Fees, Family Support, Living Expense, PFL, Transport, Wage Replace Liens

Source: EAMS Liens Data

Liens Filed Counts*								
Counts by Region**								
Month	Bay Area	Central Coast/ Valley	Los Angeles County	Remainder of LA Basin	Remaining CA Zip Codes	Sacramento	San Diego County	Total
Jan-17	210	347	5,362	2,380	69	64	316	8,748
Feb-17	421	598	8,251	3,112	122	118	453	13,075
Mar-17	597	927	11,334	4,102	143	130	611	17,844
Apr-17	474	764	11,573	4,118	110	106	640	17,785
May-17	519	835	11,395	4,175	121	132	573	17,750
Jun-17	544	612	10,226	3,676	118	131	551	15,858
Jul-17	530	548	10,092	3,636	101	130	426	15,463
Aug-17	594	703	10,712	3,690	109	146	412	16,366
Sep-17	576	796	8,411	3,161	88	143	311	13,486
Oct-17	514	773	9,856	3,585	100	128	413	15,369
Nov-17	451	496	8,506	3,214	110	119	371	13,267
Dec-17	570	535	8,204	3,115	103	119	392	13,038
Jan-18	473	565	9,986	3,636	98	123	457	15,338
Feb-18	490	479	8,982	3,451	101	140	481	14,124
Mar-18	538	531	9,786	3,761	113	143	376	15,248
Apr-18	387	546	8,851	3,375	97	90	361	13,707
May-18	477	513	8,380	3,433	112	126	308	13,349
Jun-18	400	479	6,466	2,226	103	122	317	10,113
Jul-18	386	414	6,101	2,109	79	124	229	9,442
Aug-18	406	422	7,039	2,338	76	91	275	10,647
Sep-18	364	342	5,456	1,893	86	94	198	8,433
Oct-18	476	454	6,645	2,270	74	106	271	10,296
Nov-18	454	431	6,436	2,097	81	117	237	9,853
Dec-18	346	332	5,953	1,741	75	85	182	8,714
Jan-19	434	371	6,394	1,918	78	113	191	9,499
Feb-19	407	385	5,581	1,802	120	116	205	8,616
Mar-19	365	288	5,888	1,944	70	107	181	8,843
Apr-19	449	374	5,683	1,903	99	121	188	8,817
May-19	535	366	5,352	1,734	82	113	152	8,334
Jun-19	463	309	4,827	1,436	63	100	105	7,303
Jul-19	444	389	5,595	1,685	96	139	167	8,515
Aug-19	457	483	5,717	1,580	115	122	202	8,676
Sep-19	345	323	5,042	1,466	108	120	180	7,584
Oct-19	453	379	5,941	1,778	112	135	161	8,959
Nov-19	394	294	5,056	1,461	86	107	150	7,548
Dec-19	359	275	4,600	1,257	88	92	123	6,794
Jan-20	477	296	5,126	1,402	117	157	169	7,744
Feb-20	396	420	4,720	1,323	76	114	159	7,208
Mar-20	316	392	4,781	1,370	67	89	133	7,148
Apr-20	324	237	4,111	1,322	71	76	163	6,304
May-20	374	226	3,469	1,025	73	81	113	5,361
Jun-20	361	415	4,163	1,201	69	131	204	6,544
Jul-20	445	305	4,659	1,354	98	122	157	7,140
Aug-20	430	260	4,198	1,212	77	195	133	6,505
Sep-20	587	260	4,420	1,309	85	103	118	6,882
Oct-20	518	286	4,963	1,457	86	91	122	7,523
Nov-20	447	220	4,103	1,343	96	81	118	6,408
Dec-20	403	200	4,428	1,328	79	83	85	6,606
Jan-21	305	231	4,666	1,319	75	78	116	6,790
Feb-21	378	300	4,474	1,361	83	118	126	6,840
Mar-21	428	275	5,267	1,454	119	92	111	7,746
Apr-21	371	303	4,784	1,283	133	104	113	7,091
May-21	331	271	4,570	1,258	101	77	103	6,711
Jun-21	405	330	4,789	1,316	126	96	129	7,191
Jul-21	399	291	5,275	1,377	127	94	136	7,699
Aug-21	307	264	5,416	1,434	118	85	104	7,728
Sep-21	350	252	5,438	1,329	141	96	84	7,690
Oct-21	393	267	4,674	1,273	117	107	78	6,909
Nov-21	318	231	3,888	1,181	122	84	97	5,921
Dec-21	345	254	4,183	1,237	85	98	97	6,299

Counts by Type						
Month	Interpreter	Medical	Medical- Legal	Copy Service	Other***	Total
Jan-17	9	7,460	5	2	1,272	8,748
Feb-17	8	11,103	10	1	1,953	13,075
Mar-17	12	15,389	4	0	2,439	17,844
Apr-17	13	15,188	12	3	2,569	17,785
May-17	7	14,838	14	1	2,890	17,750
Jun-17	13	13,444	8	1	2,392	15,858
Jul-17	37	13,022	9	0	2,395	15,463
Aug-17	24	13,599	11	0	2,732	16,366
Sep-17	16	11,194	11	0	2,265	13,486
Oct-17	13	12,692	5	1	2,658	15,369
Nov-17	19	10,666	5	0	2,577	13,267
Dec-17	33	10,518	8	0	2,479	13,038
Jan-18	41	12,695	12	1	2,589	15,338
Feb-18	17	11,551	9	1	2,546	14,124
Mar-18	6	12,428	8	0	2,806	15,248
Apr-18	18	10,714	11	0	2,964	13,707
May-18	25	10,744	8	0	2,572	13,349
Jun-18	60	7,818	3	0	2,232	10,113
Jul-18	44	7,056	0	3	2,339	9,442
Aug-18	23	7,914	8	1	2,701	10,647
Sep-18	12	6,364	6	0	2,051	8,433
Oct-18	23	7,720	9	0	2,544	10,296
Nov-18	24	7,309	7	1	2,512	9,853
Dec-18	13	6,566	6	0	2,129	8,714
Jan-19	26	6,759	7	1	2,706	9,499
Feb-19	38	6,011	3	0	2,564	8,616
Mar-19	11	7,117	2	0	1,713	8,843
Apr-19	27	6,707	4	1	2,078	8,817
May-19	22	6,357	10	0	1,945	8,334
Jun-19	5	5,433	3	0	1,862	7,303
Jul-19	22	6,307	2	1	2,183	8,515
Aug-19	8	6,265	4	0	2,399	8,676
Sep-19	13	5,149	3	0	2,419	7,584
Oct-19	38	5,957	4	0	2,960	8,959
Nov-19	2	5,280	8	0	2,258	7,548
Dec-19	8	4,740	2	0	2,044	6,794
Jan-20	5	5,335	7	0	2,397	7,744
Feb-20	20	5,157	7	0	2,024	7,208
Mar-20	13	5,283	2	0	1,850	7,148
Apr-20	6	4,447	2	0	1,849	6,304
May-20	5	3,774	5	0	1,577	5,361
Jun-20	5	4,472	1	0	2,066	6,544
Jul-20	4	4,994	8	0	2,134	7,140
Aug-20	8	4,423	1	0	2,073	6,505
Sep-20	3	4,794	3	0	2,082	6,882
Oct-20	9	5,229	6	0	2,279	7,523
Nov-20	0	4,510	2	0	1,896	6,408
Dec-20	1	4,721	2	0	1,882	6,606
Jan-21	4	4,832	3	1	1,950	6,790
Feb-21	10	4,671	8	0	2,151	6,840
Mar-21	10	5,366	4	0	2,366	7,746
Apr-21	3	4,786	5	0	2,297	7,091
May-21	7	4,647	0	0	2,057	6,711
Jun-21	5	5,165	10	0	2,011	7,191
Jul-21	3	5,650	0	0	2,046	7,699
8/1/202	0	5,728	0	0	2,000	7,728
Sep-21	11	5,911	1	0	1,767	7,690
Oct-21	1	5,172	0	1	1,735	6,909
Nov-21	9	4,419	1	0	1,492	5,921
Dec-21	28	4,555	3	0	1,713	6,299

* Lien Counts exclude SDI/EDD Liens

** Regions reflect the following WCAB Office mapping: Bay Area - Oakland, San Jose, San Francisco; Central Coast/Valley - Bakersfield, Fresno, Goleta, Grover Beach, Salinas, Stockton; Los Angeles County - Long Beach, Los Angeles, Marina Del Rey, Pomona, Van Nuys; Remainder of LA Basin - Anaheim, Oxnard, Riverside, San Bernardino, Santa Ana; Remaining CA Zip Codes - Eureka, Redding, San Luis Obispo, Santa Barbara, Santa Rosa; Sacramento - Sacramento; San Diego County - San Diego

***Other includes Attorney Fees, Family Support, Living Expense, PFL, Transport, Wage Replace Liens

Source: EAMS Liens Data

IMR Filed Counts

Quarterly IMRs Filed

<u>Year & Quarter</u>	<u>IMRs Filed</u>	Change from	<u>Eligible IMRs</u>	Change from
		Same Quarter in <u>Prior Year</u>		Same Quarter in <u>Prior Year</u>
2013 1Q & 2Q	878	---	---	---
2013 3Q	31,950	---	---	---
2013 4Q	51,092	---	---	---
2014 1Q	49,929	---	17,421	---
2014 2Q	60,023	---	24,417	---
2014 3Q	59,678	86.8%	54,959	---
2014 4Q	58,577	14.7%	46,512	---
2015 1Q	61,142	22.5%	36,314	108.4%
2015 2Q	65,418	9.0%	48,628	99.2%
2015 3Q	65,889	10.4%	40,603	-26.1%
2015 4Q	61,330	4.7%	39,950	-14.1%
2016 1Q	60,772	-0.6%	41,023	13.0%
2016 2Q	64,852	-0.9%	44,287	-8.9%
2016 3Q	62,411	-5.3%	43,892	8.1%
2016 4Q	61,318	0.0%	43,618	9.2%
2017 1Q	61,253	0.8%	43,194	5.3%
2017 2Q	62,773	-3.2%	42,866	-3.2%
2017 3Q	63,380	1.6%	42,836	-2.4%
2017 4Q	60,125	-1.9%	43,298	-0.7%
2018 1Q	64,533	5.4%	47,336	9.6%
2018 2Q	66,647	6.2%	48,175	12.4%
2018 3Q	61,658	-2.7%	45,775	6.9%
2018 4Q	59,539	-1.0%	44,941	3.8%
2019 1Q	56,083	-13.1%	42,334	-10.6%
2019 2Q	57,498	-13.7%	43,658	-9.4%
2019 3Q	55,759	-9.6%	43,873	-4.2%
2019 4Q	52,759	-11.4%	42,489	-5.5%
2020 1Q	51,925	-7.4%	38,405	-9.3%
2020 2Q	40,642	-29.3%	31,524	-27.8%
2020 3Q	45,183	-19.0%	34,674	-21.0%
2020 4Q	46,270	-12.3%	35,467	-16.5%
2021 1Q	45,406	-12.6%	34,354	-10.5%
2021 2Q	46,130	13.5%	35,250	11.8%
2021 3Q	44,748	-1.0%	34,559	-0.3%
2021 4Q	42,645	-7.8%	32,482	-8.4%

Yearly IMR Counts

	<u>Original IMR Applications</u>	<u>Duplicates</u>	<u>Ineligible</u>	<u>Total Rejected</u>	<u>Eligible IMRs</u>	<u>Eligible IMR Yearly Change</u>
2013 IMR Counts	83,920	15,560	15,516	31,076	52,844	---
2014 IMR Counts	228,084	56,503	28,272	84,775	143,309	171.2%
2015 IMR Counts	253,776	58,106	30,175	88,281	165,495	15.5%
2016 IMR Counts	249,353	53,314	23,219	76,533	172,820	4.4%
2017 IMR Counts	247,531	54,993	20,344	75,337	172,194	-0.4%
2018 IMR Counts	252,377	52,294	13,856	66,150	186,227	8.1%
2019 IMR Counts	222,099	44,773	4,972	49,745	172,354	-7.4%
2020 IMR Counts	184,020	35,133	8,817	43,950	140,070	-18.7%
2021 IMR Counts	178,929	33,238	9,046	42,284	136,645	-2.4%

Source: DWC Collected from IMR Vendor

DWC Via Commission on Health and Safety & Workers' Compensation 2021 Annual Report

Reported Indemnity Claim Count Development – Statewide

Accident Year	<u>21-33</u>	<u>33-45</u>	<u>45-57</u>	<u>57-69</u>	<u>69-81</u>	<u>81-93</u>	<u>93-105</u>	<u>105-117</u>
2002								
2003								0.999
2004							0.999	0.999
2005						1.000	1.000	1.000
2006					1.000	1.001	1.000	1.002
2007				1.002	1.001	1.000	1.001	1.001
2008			1.006	1.003	1.002	1.002	1.001	1.001
2009		1.014	1.007	1.004	1.003	1.001	1.001	1.001
2010	1.040	1.015	1.007	1.005	1.002	1.002	1.001	1.000
2011	1.046	1.016	1.010	1.003	1.001	1.002	1.000	1.000
2012	1.050	1.019	1.006	1.003	1.002	1.001	1.000	1.001
2013	1.051	1.011	1.006	1.002	1.001	1.001	1.001	
2014	1.040	1.012	1.005	1.002	1.001	1.000		
2015	1.039	1.007	1.004	1.003	1.001			
2016	1.041	1.009	1.004	1.001				
2017	1.033	1.010	1.003					
2018	1.038	1.007						
2019	1.040							
Latest Year								
I. <u>Age-to-Age</u>								
1.040	1.007	1.003	1.001	1.001	1.000	1.001	1.001	
II. <u>Age-to-Ultimate</u>								
1.057	1.017	1.010	1.006	1.006	1.005	1.004	1.004	1.004
III. <u>Estimated Percent of Ultimate Indemnity Claims Reported</u>								
94.6%	98.3%	99.0%	99.4%	99.4%	99.5%	99.6%	99.6%	99.6%

Reported Total Claim Count Development – Statewide

Accident Year	<u>21-33</u>	<u>33-45</u>	<u>45-57</u>	<u>57-69</u>	<u>69-81</u>	<u>81-93</u>	<u>93-105</u>	<u>105-117</u>
2002								
2003								1.000
2004							1.000	1.000
2005						1.001	1.001	1.000
2006					1.001	1.001	1.001	1.001
2007				1.002	1.001	1.001	1.001	1.001
2008			1.004	1.002	1.002	1.001	1.001	1.000
2009		1.008	1.004	1.003	1.002	1.001	1.001	1.001
2010	1.022	1.008	1.004	1.003	1.002	1.002	1.000	1.000
2011	1.023	1.009	1.006	1.002	1.001	1.000	1.001	1.000
2012	1.025	1.010	1.004	1.002	1.001	1.001	1.000	1.002
2013	1.027	1.007	1.004	1.002	1.001	1.001	1.002	
2014	1.022	1.007	1.004	1.002	1.001	1.002		
2015	1.021	1.006	1.003	1.002	1.002			
2016	1.022	1.007	1.004	1.002				
2017	1.016	1.006	1.003					
2018	1.017	1.003						
2019	1.016							
Latest Year								
I. <u>Age-to-Age</u>								
1.016	1.003	1.003	1.002	1.002	1.002	1.002	1.002	
II. <u>Age-to-Ultimate</u>								
1.034	1.018	1.015	1.012	1.010	1.008	1.006	1.004	1.004
III. <u>Estimated Percent of Ultimate Total Claims Reported</u>								
96.7%	98.2%	98.5%	98.8%	99.0%	99.2%	99.4%	99.6%	99.6%

Source: WCIRB quarterly calls for experience.

Ratio of Incremental Closed Indemnity Claims to Prior Open Indemnity Claims

Accident Year	Development								
	<u>9-21</u>	<u>21-33</u>	<u>33-45</u>	<u>45-57</u>	<u>57-69</u>	<u>69-81</u>	<u>81-93</u>	<u>93-105</u>	<u>105-117</u>
2002									16.3%
2003								18.2%	17.4%
2004							20.4%	18.5%	22.1%
2005						21.9%	19.4%	22.8%	20.5%
2006					23.0%	20.6%	23.5%	21.7%	19.4%
2007				26.2%	22.4%	25.3%	24.3%	21.7%	23.3%
2008			27.3%	25.7%	26.5%	26.4%	24.4%	24.9%	23.3%
2009		24.9%	27.0%	27.6%	27.0%	26.6%	27.2%	24.7%	24.5%
2010	31.9%	25.9%	28.9%	29.8%	28.3%	28.9%	28.5%	25.5%	24.9%
2011	32.0%	27.2%	30.6%	31.0%	29.7%	29.6%	30.1%	26.9%	23.2%
2012	32.2%	29.2%	31.7%	31.9%	32.1%	31.4%	29.4%	24.6%	22.2%
2013	33.1%	30.7%	33.8%	34.7%	33.3%	32.1%	29.0%	23.5%	
2014	34.2%	32.1%	35.4%	36.7%	33.3%	30.1%	25.6%		
2015	35.4%	35.2%	37.7%	37.2%	31.2%	27.3%			
2016	37.7%	37.0%	39.8%	34.8%	28.6%				
2017	40.1%	38.5%	36.7%	32.9%					
2018	40.3%	35.6%	34.9%						
2019	38.4%	33.3%							
2020	37.5%								

Source: WCIRB quarterly calls for experience

Ratio of Incremental Closed Indemnity Claims to Prior Open Indemnity Claims

Accident Year	Development														
	<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>
2009	4.0%	7.9%	10.3%	10.6%	8.5%	6.8%	6.6%	6.5%	6.9%	7.6%	7.8%	7.2%	7.9%	7.1%	7.7%
2010	4.1%	7.5%	10.4%	11.1%	8.5%	6.8%	7.1%	6.8%	7.6%	7.3%	7.9%	7.8%	9.1%	8.8%	9.3%
2011	4.3%	7.2%	10.6%	10.7%	8.7%	7.0%	7.3%	7.0%	8.4%	8.3%	9.2%	8.4%	8.5%	9.2%	9.1%
2012	4.3%	7.4%	10.4%	10.5%	9.1%	7.5%	8.2%	7.6%	8.6%	9.2%	9.3%	8.9%	9.3%	9.5%	9.6%
2013	4.2%	7.1%	10.4%	10.6%	9.4%	8.4%	8.6%	8.5%	9.2%	9.3%	9.9%	9.8%	10.4%	10.1%	10.6%
2014	4.1%	7.3%	10.3%	11.2%	9.6%	9.1%	9.0%	9.1%	9.6%	9.9%	10.5%	9.9%	11.4%	10.4%	11.5%
2015	4.0%	7.6%	10.4%	11.8%	10.6%	9.1%	9.7%	10.2%	11.2%	10.7%	11.3%	11.1%	11.8%	11.0%	11.9%
2016	4.2%	7.6%	10.9%	12.5%	11.6%	10.0%	10.7%	10.3%	11.8%	11.1%	12.6%	11.9%	12.1%	10.8%	11.9%
2017	4.7%	8.2%	12.2%	13.1%	12.1%	10.8%	11.5%	10.7%	11.8%	11.6%	12.1%	11.0%	9.6%	10.0%	9.7%
2018	4.8%	8.4%	12.3%	13.2%	11.9%	10.7%	11.0%	10.6%	9.7%	9.9%	10.2%	9.7%	10.1%	9.8%	
2019	4.7%	8.4%	12.4%	13.4%	10.0%	9.3%	9.4%	9.0%	9.8%	9.6%					
2020	--	--	--	12.4%	11.0%	8.5%									
2021	5.4%	9.0%													

Note: 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 83% to 100% of the total California workers' compensation insured market measured using 2020 earned premium levels).

Source: WCIRB quarterly calls for experience, excluding COVID-19 claims.

2021 Accident Year Indemnity Claim Frequency Model
As of PY 2019 Preliminary 1st Set & March 2022 UCLA

AY	Annual % Changes Intra- Class Ind Freq	Annual Log Differences					
		Intra-Class Indemnity Frequency per \$M Exposure at PY 2020 Level			AY+1 Indemnity	Cumulative Injury Index	Economic Variables (1st Prin. Comp.)
		Total	Cumulative	Non-cum.			
1979	0.5%	0.005	-0.053	0.007	0.000	-0.060	0.129
1980	-6.5%	-0.068	-0.132	-0.066	0.000	-0.066	-0.078
1981	-3.5%	-0.036	-0.028	-0.036	0.033	0.008	-0.076
1982	-1.6%	-0.016	0.153	-0.022	0.000	0.175	-0.285
1983	6.2%	0.060	0.214	0.054	0.352	0.160	0.028
1984	9.5%	0.091	0.235	0.084	0.081	0.151	0.215
1985	2.0%	0.020	0.138	0.014	0.000	0.124	0.078
1986	-2.4%	-0.024	0.039	-0.028	0.000	0.067	0.075
1987	1.5%	0.015	0.053	0.013	0.000	0.041	0.145
1988	0.7%	0.007	0.104	0.000	0.000	0.104	0.084
1989	2.5%	0.024	0.212	0.009	0.000	0.203	0.043
1990	9.0%	0.087	0.337	0.061	0.046	0.276	-0.116
1991	0.3%	0.003	0.166	-0.018	0.071	0.184	-0.282
1992	-10.3%	-0.108	-0.263	-0.089	0.023	-0.174	-0.181
1993	-9.2%	-0.097	-0.175	-0.088	0.013	-0.088	-0.021
1994	-10.5%	-0.111	-0.167	-0.105	-0.057	-0.061	0.103
1995	-0.3%	-0.003	0.009	-0.004	0.061	0.013	0.089
1996	-6.8%	-0.070	-0.165	-0.061	0.053	-0.104	0.072
1997	-3.3%	-0.033	-0.026	-0.034	0.096	0.008	0.132
1998	-3.7%	-0.038	-0.020	-0.040	0.066	0.019	0.075
1999	1.5%	0.015	0.010	0.015	0.058	-0.005	0.122
2000	4.0%	0.039	0.101	0.033	0.040	0.068	0.063
2001	-6.9%	-0.072	0.106	-0.091	-0.003	0.197	-0.096
2002	-2.3%	-0.023	0.202	-0.055	-0.007	0.257	-0.194
2003	-2.9%	-0.029	0.028	-0.038	0.060	0.067	-0.022
2004	-16.7%	-0.182	-0.318	-0.161	-0.065	-0.158	0.090
2005	-13.6%	-0.146	-0.342	-0.120	-0.398	-0.222	0.135
2006	-5.6%	-0.058	-0.204	-0.042	0.051	-0.163	0.090
2007	-1.7%	-0.017	-0.042	-0.015	0.016	-0.027	-0.081
2008	-2.7%	-0.027	-0.012	-0.029	0.049	0.017	-0.296
2009	-0.2%	-0.002	0.134	-0.016	0.069	0.150	-0.414
2010	8.9%	0.085	0.115	0.081	0.016	0.034	-0.090
2011	1.2%	0.012	0.028	0.010	0.000	0.017	0.047
2012	4.7%	0.046	0.115	0.037	0.003	0.077	0.126
2013	0.4%	0.004	0.131	-0.014	0.019	0.145	0.154
2014	0.2%	0.002	0.046	-0.005	0.070	0.051	0.179
2015	-1.4%	-0.015	0.008	-0.018	0.000	0.026	0.195
2016	-2.7%	-0.027	0.029	-0.036	0.000	0.066	0.128
2017	-1.8%	-0.018	-0.083	-0.008	0.000	-0.075	0.133
2018	-0.5%	-0.005	-0.055	0.003	0.000	-0.058	0.122
2019	-0.7%	-0.007	0.037	-0.013	0.000	0.050	0.037
2020*	-3.9%	-0.040	0.183	-0.086	0.000	0.269	-0.305
2021	2.7%	0.033	0.114	0.016	0.000	0.098	0.278
2022	-0.4%	-0.004	-0.014	-0.002	0.000	-0.013	0.335
2023	-4.1%	-0.042	-0.106	-0.028	0.000	-0.078	0.209
2024	-6.2%	-0.064	-0.145	-0.048	0.000	-0.097	0.055

Y = Hazardousness-Adjusted Noncumulative Indemnity Claim Frequency

Constant -0.034

Std Err of Y Est 0.039

R Squared 0.464

No. of Observations 42

Degrees of Freedom 38

X Coefficient(s) 0.187 0.209 0.103

Std Err of Coef. 0.075 0.061 0.044

Notes:

The Indemnity Benefit Level variable is concurrent. The AY 2004 benefit level change is related to the AY 2004 change in non-cumulative frequency.

The Indemnity Benefit Level variable excludes indemnity benefit utilization, cost-of-living adjustments, 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 Actuarial Committee item AC14-03-19.

The definition of cumulative claims has been further amended to include claims coded with certain nature of injury codes in USR. See Actuarial Committee item AC21-12-09.

The cumulative injury index is forecasted using a time series model with an autoregressive term of degree 2. See Actuarial Committee item AC21-12-09.

Economic variables are historical through 2021; March 2022 UCLA Anderson Forecasts for 2022 on.

The indicator variable for Cal-OSHA inspections has been moved into an on-level adjustment. See Actuarial Committee item AC21-12-09.

Regression is over AY 1979 through AY 2020. AY 2021 through AY 2024 are projections.

The constant term is unadjusted and no longer includes measured offsets of -0.020 that recognized annual changes in real benefit levels relative to nominal benefit levels and long-term economic growth. Future studies showed that the inclusion of the offset was only necessary because projections of changes in the cumulative injury index were not included as part of forecast frequency changes. See Actuarial Committee Item AC21-12-09.

*AY 2020 is preliminary and change is based on a comparison of 2020 accidents on 2019 policies to 2019 accidents on 2018 policies.

2021 Accident Year Indemnity Claim Frequency Model
As of PY 2019 Preliminary 1st Set & March 2022 UCLA
Employment Rate Alternative

AY	Annual % Changes Intra- Class Ind Freq	Annual Log Differences					
		Intra-Class Indemnity Frequency per \$M Exposure at PY 2020 Level			AY+1 Indemnity	Cumulative Injury Index	Economic Variables (1st Prin. Comp.)
		Total	Cumulative	Non-cum.			
1979	0.5%	0.005	-0.053	0.007	0.000	-0.060	0.045
1980	-6.5%	-0.068	-0.132	-0.066	0.000	-0.066	0.060
1981	-3.5%	-0.036	-0.028	-0.036	0.033	0.008	0.011
1982	-1.6%	-0.016	0.153	-0.022	0.000	0.175	-0.024
1983	6.2%	0.060	0.214	0.054	0.352	0.160	0.010
1984	9.5%	0.091	0.235	0.084	0.081	0.151	0.050
1985	2.0%	0.020	0.138	0.014	0.000	0.124	0.032
1986	-2.4%	-0.024	0.039	-0.028	0.000	0.067	0.028
1987	1.5%	0.015	0.053	0.013	0.000	0.041	0.036
1988	0.7%	0.007	0.104	0.000	0.000	0.104	0.038
1989	2.5%	0.024	0.212	0.009	0.000	0.203	0.026
1990	9.0%	0.087	0.337	0.061	0.046	0.276	0.017
1991	0.3%	0.003	0.166	-0.018	0.071	0.184	-0.018
1992	-10.3%	-0.108	-0.263	-0.089	0.023	-0.174	-0.020
1993	-9.2%	-0.097	-0.175	-0.088	0.013	-0.088	-0.008
1994	-10.5%	-0.111	-0.167	-0.105	-0.057	-0.061	0.013
1995	-0.3%	-0.003	0.009	-0.004	0.061	0.013	0.022
1996	-6.8%	-0.070	-0.165	-0.061	0.053	-0.104	0.028
1997	-3.3%	-0.033	-0.026	-0.034	0.096	0.008	0.031
1998	-3.7%	-0.038	-0.020	-0.040	0.066	0.019	0.033
1999	1.5%	0.015	0.010	0.015	0.058	-0.005	0.029
2000	4.0%	0.039	0.101	0.033	0.040	0.068	0.034
2001	-6.9%	-0.072	0.106	-0.091	-0.003	0.197	0.005
2002	-2.3%	-0.023	0.202	-0.055	-0.007	0.257	-0.012
2003	-2.9%	-0.029	0.028	-0.038	0.060	0.067	-0.002
2004	-16.7%	-0.182	-0.318	-0.161	-0.065	-0.158	0.013
2005	-13.6%	-0.146	-0.342	-0.120	-0.398	-0.222	0.021
2006	-5.6%	-0.058	-0.204	-0.042	0.051	-0.163	0.018
2007	-1.7%	-0.017	-0.042	-0.015	0.016	-0.027	0.007
2008	-2.7%	-0.027	-0.012	-0.029	0.049	0.017	-0.015
2009	-0.2%	-0.002	0.134	-0.016	0.069	0.150	-0.068
2010	8.9%	0.085	0.115	0.081	0.016	0.034	-0.013
2011	1.2%	0.012	0.028	0.010	0.000	0.017	0.012
2012	4.7%	0.046	0.115	0.037	0.003	0.077	0.026
2013	0.4%	0.004	0.131	-0.014	0.019	0.145	0.030
2014	0.2%	0.002	0.046	-0.005	0.070	0.051	0.031
2015	-1.4%	-0.015	0.008	-0.018	0.000	0.026	0.032
2016	-2.7%	-0.027	0.029	-0.036	0.000	0.066	0.027
2017	-1.8%	-0.018	-0.083	-0.008	0.000	-0.075	0.021
2018	-0.5%	-0.005	-0.055	0.003	0.000	-0.058	0.021
2019	-0.7%	-0.007	0.037	-0.013	0.000	0.050	0.014
2020*	-3.9%	-0.040	0.183	-0.086	0.000	0.269	-0.092
2021	0.8%	0.015	0.095	-0.003	0.000	0.098	0.026
2022	-1.0%	-0.010	-0.020	-0.008	0.000	-0.013	0.050
2023	-5.3%	-0.054	-0.118	-0.040	0.000	-0.078	0.028
2024	-6.9%	-0.072	-0.152	-0.055	0.000	-0.097	0.014

Y = Hazardousness-Adjusted Noncumulative Indemnity Claim Frequency

Constant -0.046

Std Err of Y Est 0.032

R Squared 0.604

No. of Observations 40

Degrees of Freedom 36

X Coefficient(s) 0.173 0.217 0.826

Std Err of Coef. 0.061 0.048 0.186

Notes:

The Indemnity Benefit Level variable is concurrent. The AY 2004 benefit level change is related to the AY 2004 change in non-cumulative frequency.

The Indemnity Benefit Level variable excludes indemnity benefit utilization, cost-of-living adjustments, 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 Actuarial Committee item AC14-03-19.

The definition of cumulative claims has been further amended to include claims coded with certain nature of injury codes in USR. See Actuarial Committee item AC21-12-09.

The cumulative injury index is forecasted using a time series model with an autoregressive term of degree 2. See Actuarial Committee item AC21-12-09.

Economic variables are historical through 2021; March 2022 UCLA Anderson Forecasts for 2022 on.

The indicator variable for Cal-OSHA inspections has been moved into an on-level adjustment. See Actuarial Committee item AC21-12-09.

Regression is over AY 1979 through AY 2020 excluding AY 2001 and AY 2010. See Actuarial Committee item AC21-12-09. AY 2021 through AY 2024 are projections.

The constant term is unadjusted and no longer includes measured offsets of -0.020 that recognized annual changes in real benefit levels relative to nominal

benefit levels and long-term economic growth. Future studies showed that the inclusion of the offset was only necessary because projections

of changes in the cumulative injury index were not included as part of forecast frequency changes. See Actuarial Committee Item AC21-12-09.

*AY 2020 is preliminary and change is based on a comparison of 2020 accidents on 2019 policies to 2019 accidents on 2018 policies.

Indemnity Claim Frequency History and Projections

AY	Intra-Class Indemnity Claim Frequency(a)	Inter-Class Indemnity Claim Frequency Index(b)	Overall Indemnity Claim Frequency	Annual Percent Changes		
				Intra-Class	Inter-Class	Overall
1979	0.316	0.921	0.508	---	---	---
1980	0.296	0.914	0.471	-6.54%	-0.75%	-7.24%
1981	0.285	0.900	0.447	-3.54%	-1.56%	-5.04%
1982	0.281	0.882	0.431	-1.59%	-2.00%	-3.56%
1983	0.298	0.873	0.454	6.20%	-0.98%	5.17%
1984	0.326	0.871	0.496	9.53%	-0.18%	9.32%
1985	0.333	0.867	0.504	2.05%	-0.51%	1.52%
1986	0.325	0.859	0.487	-2.38%	-0.92%	-3.28%
1987	0.330	0.854	0.492	1.53%	-0.56%	0.97%
1988	0.332	0.854	0.495	0.69%	-0.06%	0.64%
1989	0.341	0.853	0.507	2.47%	-0.08%	2.39%
1990	0.371	0.845	0.548	9.04%	-0.89%	8.07%
1991	0.372	0.832	0.540	0.28%	-1.58%	-1.30%
1992	0.334	0.813	0.474	-10.27%	-2.34%	-12.37%
1993	0.303	0.752	0.398	-9.21%	-7.46%	-15.98%
1994	0.271	0.733	0.347	-10.52%	-2.56%	-12.81%
1995	0.271	0.702	0.331	-0.28%	-4.22%	-4.49%
1996	0.252	0.693	0.305	-6.78%	-1.25%	-7.94%
1997	0.244	0.685	0.291	-3.29%	-1.23%	-4.48%
1998	0.235	0.680	0.279	-3.73%	-0.60%	-4.31%
1999	0.238	0.670	0.279	1.48%	-1.49%	-0.02%
2000	0.248	0.651	0.281	3.96%	-2.91%	0.93%
2001	0.231	0.652	0.262	-6.91%	0.13%	-6.78%
2002	0.225	0.660	0.260	-2.31%	1.34%	-1.00%
2003	0.219	0.662	0.253	-2.85%	0.20%	-2.66%
2004	0.182	0.660	0.210	-16.67%	-0.21%	-16.84%
2005	0.158	0.658	0.181	-13.59%	-0.31%	-13.86%
2006	0.149	0.653	0.170	-5.60%	-0.81%	-6.37%
2007	0.146	0.649	0.166	-1.71%	-0.68%	-2.38%
2008	0.142	0.641	0.159	-2.71%	-1.18%	-3.86%
2009	0.142	0.629	0.156	-0.20%	-1.82%	-2.02%
2010	0.155	0.617	0.167	8.87%	-1.87%	6.83%
2011	0.157	0.609	0.166	1.22%	-1.42%	-0.22%
2012	0.164	0.601	0.172	4.71%	-1.20%	3.46%
2013	0.164	0.599	0.172	0.36%	-0.36%	0.00%
2014	0.165	0.600	0.173	0.16%	0.21%	0.37%
2015	0.162	0.597	0.169	-1.45%	-0.59%	-2.03%
2016	0.158	0.593	0.163	-2.66%	-0.74%	-3.38%
2017	0.155	0.588	0.159	-1.83%	-0.72%	-2.53%
2018	0.154	0.586	0.158	-0.46%	-0.42%	-0.88%
2019(c)	0.153	0.573	0.153	-0.67%	-2.13%	-2.79%
2019(d)	0.154	0.573	0.154	---	---	---
2020(e)	0.148	0.563	0.145	-3.91%	-1.77%	-5.61%
2021	0.152	0.576	0.152	2.73%	2.27%	5.06%
2022	0.151	0.578	0.152	-0.40%	0.37%	-0.03%
2023	0.145	0.576	0.146	-4.13%	-0.37%	-4.49%
2024	0.136	0.575	0.136	-6.24%	-0.12%	-6.36%
PY						
2008	0.142	0.636	0.158			
2009	0.148	0.624	0.161	3.88%	-1.84%	1.92%
2010	0.155	0.614	0.166	5.26%	-1.67%	3.54%
2011	0.160	0.605	0.169	2.80%	-1.32%	1.43%
2012	0.164	0.600	0.172	2.70%	-0.82%	1.87%
2013	0.165	0.600	0.172	0.27%	-0.10%	0.17%
2014	0.164	0.599	0.171	-0.56%	-0.15%	-0.71%
2015	0.160	0.595	0.167	-1.99%	-0.66%	-2.63%
2016	0.156	0.589	0.161	-2.49%	-0.92%	-3.39%
2017	0.154	0.580	0.156	-1.57%	-1.58%	-3.13%
2018	0.154	0.573	0.154	-0.29%	-1.18%	-1.48%
2019	0.151	0.569	0.150	-1.67%	-0.80%	-2.43%
2020	0.149	0.569	0.148	-0.99%	0.03%	-0.95%
2021	0.151	0.577	0.152	1.30%	1.40%	2.71%
2022	0.148	0.577	0.149	-2.08%	0.04%	-2.04%
2023	0.141	0.576	0.141	-5.06%	-0.26%	-5.31%

Notes: (a) All frequencies are per \$M exposure at PY 2020 Level.
(b) Index is to AY 1961. Index has been revised due to on-leveling reassessments for Cal-OSHA inspections. See Actuarial Committee item AC21-12-09.
(c) 2019 accidents on 2019 and 2018 policies.
(d) 2019 accidents on 2018 policies only.
(e) AY 2020 percent changes are based on a comparison of 2020 accidents on 2019 policies to 2019 accidents on 2018 policies.
(f) Forecasts below thick solid line.

Source: WCIRB Indemnity Frequency Model

Annual Changes in Indemnity Frequency Attributable to Changes in Hazardousness

Policy Year	Report Level	Change in Frequency Hazardousness	Indemnity Frequency Hazardousness Index	Annual % Change in Ind Frequency Attributable to Change in Mix of Exposures
1961	3	1.000000	1.000000	-----
1962	3	0.990262	0.990262	-0.9738
1963	3	0.998718	0.988992	-0.1282
1964	3	0.994304	0.983359	-0.5696
1965	3	0.993875	0.977336	-0.6125
1966	3	0.983584	0.961292	-1.6416
1967	3	0.987626	0.949397	-1.2374
1968	3	0.997512	0.947035	-0.2488
1969	3	0.986390	0.934146	-1.3610
1970	3	0.989966	0.924773	-1.0034
1971	3	1.000824	0.925535	0.0824
1972	3	1.000505	0.926002	0.0505
1973	3	0.998631	0.924734	-0.1369
1974	3	0.986017	0.911804	-1.3983
1975	3	0.984110	0.897315	-1.5890
1976	3	1.004996	0.901798	0.4996
1977	3	1.009490	0.910356	0.9490
1978	3	1.012494	0.921730	1.2494
1979	3	0.997841	0.919740	-0.2159
1980	3	0.988843	0.909479	-1.1157
1981	3	0.981336	0.892504	-1.8664
1982	3	0.979033	0.873791	-2.0967
1983	3	0.997989	0.872034	-0.2011
1984	3	0.998272	0.870527	-0.1728
1985	3	0.992516	0.864012	-0.7484
1986	3	0.989667	0.855084	-1.0333
1987	3	0.997751	0.853161	-0.2249
1988	3	1.000574	0.853651	0.0574
1989	5	0.998212	0.852124	-0.1788
1990	5	0.986184	0.840352	-1.3816
1991	5	0.982822	0.825916	-1.7178
1992	5	0.987393	0.815504	-1.2607
1993	5	0.987562	0.805360	-1.2438
1994	5	1.007382	0.811306	0.7382
1995	5	0.997625	0.809379	-0.2375
1996	5	0.980288	0.793424	-1.9712
1997	5	0.993034	0.787897	-0.6966
1998	5	0.994743	0.783755	-0.5257
1999	5	0.978134	0.766618	-2.1866
2000	5	0.965472	0.740148	-3.4528
2001	5	1.027926	0.760817	2.7926
2002	5	1.002823	0.762965	0.2823
2003	5	1.001398	0.764032	0.1398
2004	5	0.995209	0.760371	-0.4791
2005	5	0.998285	0.759067	-0.1715
2006	5	0.986896	0.749120	-1.3104
2007	5	0.998047	0.747657	-0.1953
2008	5	0.980684	0.733216	-1.9316
2009	5	0.982600	0.720458	-1.7400
2010	5	0.980260	0.706236	-1.9740
2011	5	0.990176	0.699298	-0.9824
2012	5	0.986305	0.689721	-1.3695
2013	5	1.004725	0.692980	0.4725
2014	5	0.999869	0.692889	-0.0131
2015	5	0.989253	0.685443	-1.0747
2016	Proj to 5th	0.995412	0.682298	-0.4588
2017	Proj to 5th	0.990641	0.675912	-0.9359
2018	Proj to 5th	1.000143	0.676009	0.0143
2019	Proj to 5th	0.960794	0.649505	-3.9206

Source: WCIRB unit statistical data

Changes in Incremental Indemnity Claim Counts and Medical-Only Claim Counts

Calendar Quarter Evaluation	Change in Statewide Incremental Number of Indemnity Claims		Change in Statewide Incremental Number of Medical-Only Claims	
	Change in	Change in	Change in	Change in
	Quarterly Increment	4-Quarter Increment	Quarterly Increment	4-Quarter Increment
	from Same Quarter at Prior Calendar Year	from Same Quarter at Prior Calendar Year	from Same Quarter at Prior Calendar Year	from Same Quarter at Prior Calendar Year
3/31/2015	-2.3%	-0.4%	4.2%	0.2%
6/30/2015	2.4%	0.2%	2.7%	2.4%
9/30/2015	18.4%	4.8%	8.2%	4.3%
12/31/2015	2.7%	5.5%	0.7%	4.0%
3/31/2016	5.0%	7.3%	6.3%	4.5%
6/30/2016	2.7%	7.3%	4.6%	5.0%
9/30/2016	-13.7%	-1.6%	-3.6%	1.7%
12/31/2016	0.3%	-2.2%	-1.3%	1.2%
3/31/2017	3.8%	-2.4%	1.3%	0.1%
6/30/2017	3.8%	-2.1%	6.3%	0.6%
9/30/2017	0.9%	2.2%	5.2%	3.0%
12/31/2017	2.1%	2.6%	13.2%	6.5%
3/31/2018	-3.1%	0.9%	3.2%	7.0%
6/30/2018	-1.9%	-0.5%	-1.4%	5.0%
9/30/2018	-5.2%	-2.1%	17.6%	8.3%
12/31/2018	3.6%	-1.7%	5.0%	6.3%
3/31/2019	18.3%	3.3%	-4.9%	4.4%
6/30/2019	2.7%	4.6%	7.3%	6.6%
9/30/2019	2.5%	6.6%	-2.9%	1.0%
12/31/2019	5.4%	7.0%	2.5%	0.4%
3/31/2020	2.7%	3.3%	-6.1%	0.2%
6/30/2020	-13.3%	-0.7%	-30.9%	-9.1%
9/30/2020	6.4%	0.2%	-27.1%	-16.0%
12/31/2020	6.2%	0.5%	-18.3%	-21.4%
3/31/2021	-2.8%	-0.9%	-7.6%	-21.9%
6/30/2021	11.9%	5.1%	20.9%	-11.4%
9/30/2021	5.9%	4.9%	10.5%	-0.7%
12/31/2021	-11.5%	0.2%	-2.4%	4.7%

Source: WCIRB quarterly calls for experience

Economic Variables (Unemployment Rate)

CY	Aggregate Employment	Unemployment Rate	Annual Log Differences		Economic Variables 1st Prin. Comp.
			Aggregate Employment	Unemployment Rate	
1961	3,961,338	6.90			
1962	4,144,757	5.80	0.045	-0.174	
1963	4,291,903	6.00	0.035	0.034	-0.029
1964	4,424,242	6.00	0.030	0.000	0.004
1965	4,544,534	5.90	0.027	-0.017	0.020
1966	4,791,661	4.90	0.053	-0.186	0.191
1967	4,926,789	5.70	0.028	0.151	-0.147
1968	5,132,135	5.40	0.041	-0.054	0.059
1969	5,366,691	5.20	0.045	-0.038	0.043
1970	5,333,981	7.30	-0.006	0.339	-0.337
1971	5,282,523	9.03	-0.010	0.213	-0.213
1972	6,019,741	7.85	0.131	-0.140	0.155
1973	6,497,582	7.26	0.076	-0.078	0.087
1974	6,706,276	7.55	0.032	0.038	-0.034
1975	6,682,018	10.12	-0.004	0.293	-0.291
1976	7,257,720	9.41	0.083	-0.072	0.082
1977	7,678,280	8.50	0.056	-0.102	0.108
1978	9,198,677	7.35	0.181	-0.144	0.165
1979	9,617,192	6.49	0.044	-0.125	0.129
1980	10,264,396	7.08	0.065	0.087	-0.078
1981	10,403,247	7.66	0.013	0.079	-0.076
1982	10,230,154	10.19	-0.017	0.285	-0.285
1983	10,329,819	9.92	0.010	-0.027	0.028
1984	10,820,803	8.03	0.046	-0.211	0.215
1985	11,172,958	7.46	0.032	-0.074	0.078
1986	11,483,753	6.94	0.027	-0.072	0.075
1987	11,887,987	6.02	0.035	-0.141	0.145
1988	12,355,132	5.56	0.039	-0.080	0.084
1989	12,686,697	5.34	0.026	-0.040	0.043
1990	12,940,654	6.02	0.020	0.119	-0.116
1991	12,776,185	7.98	-0.013	0.283	-0.282
1992	12,576,216	9.56	-0.016	0.180	-0.181
1993	12,477,219	9.76	-0.008	0.020	-0.021
1994	12,609,758	8.81	0.011	-0.103	0.103
1995	12,867,222	8.07	0.020	-0.087	0.089
1996	13,225,265	7.53	0.027	-0.069	0.072
1997	13,619,492	6.61	0.029	-0.130	0.132
1998	14,082,798	6.16	0.033	-0.072	0.075
1999	14,479,594	5.47	0.028	-0.119	0.122
2000	14,992,087	5.15	0.035	-0.059	0.063
2001	15,097,869	5.68	0.007	0.098	-0.096
2002	14,972,362	6.90	-0.008	0.194	-0.194
2003	14,950,524	7.05	-0.001	0.022	-0.022
2004	15,130,288	6.45	0.012	-0.089	0.090
2005	15,422,033	5.65	0.019	-0.133	0.135
2006	15,697,769	5.17	0.018	-0.089	0.090
2007	15,843,839	5.61	0.009	0.082	-0.081
2008	15,689,235	7.55	-0.010	0.297	-0.296
2009	14,807,776	11.38	-0.058	0.410	-0.414
2010	14,664,342	12.45	-0.010	0.089	-0.090
2011	14,825,708	11.89	0.011	-0.046	0.047
2012	15,161,033	10.51	0.022	-0.124	0.126
2013	15,563,783	9.03	0.026	-0.152	0.154
2014	15,991,892	7.56	0.027	-0.177	0.179
2015	16,471,258	6.24	0.030	-0.192	0.195
2016	16,904,308	5.50	0.026	-0.125	0.128
2017	17,249,625	4.82	0.020	-0.132	0.133
2018	17,596,092	4.28	0.020	-0.120	0.122
2019	17,854,825	4.13	0.015	-0.035	0.037
2020	16,546,217	10.17	-0.076	0.902	-0.905
2021	16,868,958	7.71	0.019	-0.277	0.278
2022	17,642,259	5.53	0.045	-0.332	0.335
2023	18,098,036	4.49	0.026	-0.207	0.209
2024	18,354,127	4.26	0.014	-0.053	0.055

Notes: The first principal component is of the annual log difference data from 1962-2021.
The first principal component of the annual log difference of the economic variables is:
1st PC of Econ Variables = 0.1234601 x Aggregate Employment + -0.9923495 x Unemployment Rate

Sources: Government historical labor statistics through 2020
UCLA Anderson forecasts through 2024 are as of March 2022

Economic Variables (Employment Rate)

CY	Aggregate Employment	Employment Rate	Annual Log Differences		Economic Variables 1st Prin. Comp.
			Aggregate Employment	Employment Rate	
1961	3,961,338	93.10			
1962	4,144,757	94.20	0.045	0.012	
1963	4,291,903	94.00	0.035	-0.002	0.033
1964	4,424,242	94.00	0.030	0.000	0.029
1965	4,544,534	94.10	0.027	0.001	0.026
1966	4,791,661	95.10	0.053	0.011	0.054
1967	4,926,789	94.30	0.028	-0.008	0.024
1968	5,132,135	94.60	0.041	0.003	0.040
1969	5,366,691	94.80	0.045	0.002	0.043
1970	5,333,981	92.70	-0.006	-0.022	-0.012
1971	5,282,523	90.97	-0.010	-0.019	-0.015
1972	6,019,741	92.15	0.131	0.013	0.129
1973	6,497,582	92.74	0.076	0.006	0.075
1974	6,706,276	92.45	0.032	-0.003	0.029
1975	6,682,018	89.88	-0.004	-0.028	-0.012
1976	7,257,720	90.59	0.083	0.008	0.081
1977	7,678,280	91.50	0.056	0.010	0.057
1978	9,198,677	92.65	0.181	0.012	0.176
1979	9,617,192	93.51	0.044	0.009	0.045
1980	10,264,396	92.92	0.065	-0.006	0.060
1981	10,403,247	92.34	0.013	-0.006	0.011
1982	10,230,154	89.81	-0.017	-0.028	-0.024
1983	10,329,819	90.08	0.010	0.003	0.010
1984	10,820,803	91.97	0.046	0.021	0.050
1985	11,172,958	92.54	0.032	0.006	0.032
1986	11,483,753	93.06	0.027	0.006	0.028
1987	11,887,987	93.98	0.035	0.010	0.036
1988	12,355,132	94.44	0.039	0.005	0.038
1989	12,686,697	94.66	0.026	0.002	0.026
1990	12,940,654	93.98	0.020	-0.007	0.017
1991	12,776,185	92.02	-0.013	-0.021	-0.018
1992	12,576,216	90.44	-0.016	-0.017	-0.020
1993	12,477,219	90.24	-0.008	-0.002	-0.008
1994	12,609,758	91.19	0.011	0.011	0.013
1995	12,867,222	91.93	0.020	0.008	0.022
1996	13,225,265	92.47	0.027	0.006	0.028
1997	13,619,492	93.39	0.029	0.010	0.031
1998	14,082,798	93.84	0.033	0.005	0.033
1999	14,479,594	94.53	0.028	0.007	0.029
2000	14,992,087	94.85	0.035	0.003	0.034
2001	15,097,869	94.32	0.007	-0.006	0.005
2002	14,972,362	93.10	-0.008	-0.013	-0.012
2003	14,950,524	92.95	-0.001	-0.002	-0.002
2004	15,130,288	93.55	0.012	0.006	0.013
2005	15,422,033	94.35	0.019	0.009	0.021
2006	15,697,769	94.83	0.018	0.005	0.018
2007	15,843,839	94.39	0.009	-0.005	0.007
2008	15,689,235	92.45	-0.010	-0.021	-0.015
2009	14,807,776	88.62	-0.058	-0.042	-0.068
2010	14,664,342	87.55	-0.010	-0.012	-0.013
2011	14,825,708	88.11	0.011	0.006	0.012
2012	15,161,033	89.49	0.022	0.016	0.026
2013	15,563,783	90.97	0.026	0.016	0.030
2014	15,991,892	92.44	0.027	0.016	0.031
2015	16,471,258	93.76	0.030	0.014	0.032
2016	16,904,308	94.50	0.026	0.008	0.027
2017	17,249,625	95.18	0.020	0.007	0.021
2018	17,596,092	95.72	0.020	0.006	0.021
2019	17,854,825	95.87	0.015	0.002	0.014
2020	16,546,217	89.83	-0.076	-0.065	-0.092
2021	16,868,958	92.29	0.019	0.027	0.026
2022	17,642,259	94.47	0.045	0.023	0.050
2023	18,098,036	95.51	0.026	0.011	0.028
2024	18,354,127	95.74	0.014	0.002	0.014

Notes: The first principal component is of the annual log difference data from 1962-2021 excluding 2001 and 2010.
The first principal component of the annual log difference of the economic variables is:
- 1st PC of Econ Variables = -0.9567379 x Aggregate Employment + -0.2909513 x Employment Rate
Sources: Government historical labor statistics through 2020
UCLA Anderson forecasts through 2024 are as of March 2022

Accident Year Cumulative Injury Indemnity Claim Counts by Accident Year and Report Level

Cumulative Injury Indemnity Claim Counts by Accident Year and Report Level (excluding COVID claims)

AY/RL	1	2	3	4	5	6	7	8	9	10
2006	6,766	7,821	8,411	8,883	9,159	9,240	9,298	9,331	9,376	9,412
2007	6,991	8,143	8,838	9,251	9,427	9,534	9,551	9,532	9,595	9,646
2008	6,938	8,200	9,023	9,396	9,596	9,638	9,712	9,787	9,819	9,816
2009	7,362	8,877	9,672	9,999	10,151	10,219	10,324	10,382	10,402	10,424
2010	8,166	9,459	9,988	10,260	10,360	10,532	10,666	10,661	10,660	10,688
2011	8,057	9,720	10,279	10,510	10,756	10,907	10,964	10,959	11,035	11,093
2012	8,931	10,733	11,332	11,791	12,111	12,265	12,286	12,290	12,303	
2013	10,875	12,760	13,674	14,169	14,385	14,364	14,494	14,571		
2014	11,555	13,788	14,569	14,970	15,062	15,087	15,175			
2015	11,891	14,208	14,805	15,007	15,131	15,272				
2016	12,132	15,425	16,044	16,318	16,476					
2017	11,670	13,951	14,684	15,080						
2018	11,512	13,862	14,579							
2019	12,283	15,520								
2020	13,433									

Cumulative Injury Share of Total Indemnity Count (excluding COVID claims)

AY/RL	1	2	3	4	5	6	7	8	9	10
2006	6.7%	7.5%	8.1%	8.5%	8.8%	8.8%	8.9%	8.9%	8.9%	9.0%
2007	7.2%	8.2%	8.8%	9.2%	9.4%	9.5%	9.5%	9.5%	9.5%	9.6%
2008	7.8%	8.9%	9.6%	10.0%	10.1%	10.1%	10.2%	10.3%	10.3%	10.3%
2009	9.1%	10.5%	11.3%	11.6%	11.7%	11.8%	11.9%	11.9%	11.9%	12.0%
2010	10.1%	11.2%	11.6%	11.8%	11.9%	12.1%	12.2%	12.2%	12.2%	12.2%
2011	9.7%	11.1%	11.6%	11.7%	11.9%	12.1%	12.1%	12.1%	12.2%	12.3%
2012	10.2%	11.6%	12.0%	12.4%	12.7%	12.9%	12.9%	12.9%	12.9%	
2013	11.6%	12.9%	13.6%	14.0%	14.2%	14.2%	14.2%	14.3%		
2014	12.0%	13.6%	14.2%	14.5%	14.5%	14.5%	14.6%			
2015	12.3%	14.0%	14.4%	14.5%	14.6%	14.7%				
2016	12.6%	15.1%	15.5%	15.7%	15.8%					
2017	12.1%	13.8%	14.3%	14.6%						
2018	11.8%	13.5%	13.9%							
2019	12.7%	14.9%								
2020	16.1%									

Source: WCIRB unit statistical data, excluding COVID-19 claims

Claim Count Ratios by Region Based on Unit Statistical Data at 1st Report Level

Region	Ratio of Permanent Disability Claims to Indemnity Claims for Accident Year														
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Bay Area	0.303	0.283	0.296	0.305	0.313	0.323	0.309	0.293	0.302	0.310	0.299	0.284	0.278	0.276	<i>0.284</i>
Los Angeles/LA Basin	0.382	0.388	0.405	0.405	0.397	0.403	0.398	0.369	0.374	0.392	0.381	0.375	0.350	0.337	<i>0.342</i>
San Diego	0.330	0.329	0.336	0.362	0.356	0.357	0.361	0.327	0.348	0.360	0.345	0.353	0.333	0.312	<i>0.319</i>
All Other	0.315	0.299	0.320	0.315	0.325	0.320	0.314	0.290	0.302	0.315	0.301	0.293	0.296	0.309	<i>0.313</i>
All Regions	0.344	0.339	0.357	0.360	0.360	0.363	0.358	0.332	0.341	0.355	0.343	0.334	0.323	0.322	<i>0.328</i>

Region	Annual Change														
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Bay Area	---	-6.6%	4.4%	3.1%	2.5%	3.3%	-4.4%	-5.2%	3.0%	2.7%	-3.5%	-4.9%	-2.2%	-0.8%	<i>3.0%</i>
Los Angeles/LA Basin	---	1.7%	4.3%	-0.1%	-2.1%	1.6%	-1.3%	-7.2%	1.4%	4.8%	-2.8%	-1.5%	-6.6%	-3.6%	<i>1.4%</i>
San Diego	---	-0.1%	2.2%	7.6%	-1.5%	0.2%	1.1%	-9.3%	6.2%	3.4%	-4.1%	2.3%	-5.7%	-6.1%	<i>2.2%</i>
All Other	---	-5.2%	7.1%	-1.6%	3.3%	-1.7%	-1.8%	-7.8%	4.2%	4.4%	-4.4%	-2.9%	1.1%	4.4%	<i>1.3%</i>
All Regions	---	-1.5%	5.3%	0.9%	0.0%	0.8%	-1.5%	-7.3%	2.7%	4.2%	-3.5%	-2.5%	-3.3%	-0.4%	<i>2.0%</i>

Region	Ratio of Indemnity Claims to Total Claims for Accident Year														
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Bay Area	0.285	0.289	0.295	0.307	0.315	0.323	0.322	0.331	0.328	0.333	0.334	0.333	0.341	0.335	<i>0.384</i>
Los Angeles/LA Basin	0.297	0.305	0.316	0.341	0.352	0.359	0.372	0.389	0.393	0.391	0.391	0.371	0.369	0.362	<i>0.409</i>
San Diego	0.259	0.260	0.272	0.285	0.303	0.313	0.327	0.329	0.329	0.327	0.327	0.315	0.318	0.311	<i>0.365</i>
All Other	0.289	0.294	0.300	0.313	0.321	0.329	0.330	0.343	0.339	0.331	0.332	0.319	0.313	0.324	<i>0.372</i>
All Regions	0.290	0.295	0.304	0.323	0.333	0.340	0.348	0.361	0.361	0.358	0.358	0.344	0.345	0.346	<i>0.395</i>

Region	Annual Change														
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Bay Area	---	1.1%	2.3%	3.9%	2.7%	2.4%	-0.2%	2.8%	-0.8%	1.4%	0.3%	-0.4%	2.4%	-1.5%	<i>14.6%</i>
Los Angeles/LA Basin	---	2.5%	3.8%	7.9%	3.3%	1.7%	3.7%	4.7%	0.9%	-0.4%	-0.2%	-5.1%	-0.5%	-1.7%	<i>12.9%</i>
San Diego	---	0.2%	4.7%	4.6%	6.4%	3.5%	4.3%	0.5%	0.0%	-0.6%	0.1%	-3.5%	0.8%	-2.2%	<i>17.5%</i>
All Other	---	1.6%	2.2%	4.2%	2.7%	2.3%	0.4%	3.9%	-1.3%	-2.3%	0.3%	-3.9%	-1.8%	3.3%	<i>15.0%</i>
All Regions	---	1.8%	3.2%	6.0%	3.3%	2.1%	2.2%	3.8%	0.0%	-0.8%	0.0%	-4.0%	0.3%	0.4%	<i>14.3%</i>

Region	Cumulative Injury Claims per 100 Indemnity Claims for Accident Year														
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Bay Area	6.51	7.51	7.55	8.20	8.18	8.21	7.73	9.12	8.74	8.04	8.05	8.11	7.34	8.11	<i>11.55</i>
Los Angeles/LA Basin	7.86	8.50	8.90	10.60	11.63	11.26	12.52	14.89	15.62	16.18	16.58	16.62	15.13	15.40	<i>19.64</i>
San Diego	6.00	6.43	6.96	7.30	9.20	8.51	8.77	11.76	12.44	12.22	12.17	12.08	11.79	12.81	<i>13.56</i>
All Other	4.92	4.86	4.86	5.77	6.30	5.94	6.15	7.02	7.12	6.79	6.66	6.43	7.15	6.33	<i>6.65</i>
All Regions	6.60	7.09	7.37	8.61	9.39	9.04	9.69	11.51	11.90	11.89	12.02	11.77	11.46	12.36	<i>15.69</i>

Region	Annual Change														
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Bay Area	---	15.4%	0.5%	8.7%	-0.3%	0.4%	-5.8%	18.0%	-4.1%	-8.0%	0.1%	0.7%	-9.4%	10.4%	<i>42.5%</i>
Los Angeles/LA Basin	---	8.1%	4.8%	19.1%	9.6%	-3.1%	11.2%	18.9%	4.9%	3.6%	2.5%	0.2%	-9.0%	1.8%	<i>27.6%</i>
San Diego	---	7.1%	8.4%	4.8%	26.1%	-7.6%	3.0%	34.2%	5.8%	-1.8%	-0.4%	-0.8%	-2.4%	8.6%	<i>5.9%</i>
All Other	---	-1.2%	-0.1%	18.8%	9.2%	-5.8%	3.6%	14.1%	1.5%	-4.7%	-1.9%	-3.4%	11.1%	-11.4%	<i>5.1%</i>
All Regions	---	7.4%	4.0%	16.9%	9.1%	-3.8%	7.2%	18.8%	3.3%	0.0%	1.0%	-2.1%	-2.6%	7.9%	<i>26.9%</i>

Figures in italics are based on preliminary partial data. Cumulative injury claims include occupational disease.
Excludes COVID-19 claims.

Indemnity Claim Frequency by Geographic Region

Bay Area

Indemnity Claim Frequency per \$100M of Exposure at AY 2019 Level						Annual Change					
AY/RL	1	2	3	4	5	AY/RL	1	2	3	4	5
2003	20.00	20.34	20.47	20.56	20.83	2003	---	---	---	---	---
2004	17.56	17.77	17.85	18.08	18.13	2004	-12.2%	-12.6%	-12.8%	-12.1%	-13.0%
2005	15.49	15.53	15.78	15.85	15.82	2005	-11.8%	-12.6%	-11.6%	-12.4%	-12.8%
2006	14.16	14.44	14.57	14.59	14.58	2006	-8.6%	-7.0%	-7.7%	-8.0%	-7.8%
2007	13.29	13.53	13.61	13.67	13.70	2007	-6.2%	-6.3%	-6.6%	-6.3%	-6.1%
2008	12.22	12.46	12.60	12.69	12.74	2008	-8.0%	-7.9%	-7.4%	-7.2%	-7.0%
2009	11.61	11.98	12.11	12.20	12.24	2009	-5.0%	-3.9%	-3.9%	-3.8%	-3.9%
2010	11.60	12.11	12.26	12.34	12.37	2010	-0.1%	1.2%	1.2%	1.1%	1.1%
2011	11.30	11.82	12.03	12.13	12.17	2011	-2.6%	-2.4%	-1.9%	-1.7%	-1.6%
2012	11.17	11.65	11.85	11.92	11.97	2012	-1.1%	-1.5%	-1.5%	-1.7%	-1.7%
2013	10.86	11.31	11.44	11.51	11.54	2013	-2.8%	-2.9%	-3.4%	-3.5%	-3.6%
2014	10.75	11.18	11.28	11.34	11.41	2014	-1.0%	-1.2%	-1.4%	-1.5%	-1.1%
2015	10.60	11.21	10.92	11.66	11.71	2015	-1.5%	0.3%	-3.2%	2.8%	2.6%
2016	10.26	10.30	10.71	11.22	11.25	2016	-3.1%	-8.1%	-1.9%	-3.8%	-3.9%
2017	9.83	9.69	10.19	10.23		2017	-4.3%	-5.9%	-4.8%	-8.8%	
2018	9.88	10.01	10.13			2018	0.5%	3.3%	-0.6%		
2019	8.83	9.11				2019	-10.6%	-9.0%			
2020	7.19					2020	-18.6%				

Los Angeles/L.A. Basin

Indemnity Claim Frequency per \$100M of Exposure at AY 2019 Level						Annual Change					
AY/RL	1	2	3	4	5	AY/RL	1	2	3	4	5
2003	29.04	29.99	29.78	29.76	29.61	2003	---	---	---	---	---
2004	25.34	25.50	25.53	25.49	25.53	2004	-12.7%	-15.0%	-14.3%	-14.4%	-13.8%
2005	21.75	21.73	21.81	21.95	22.02	2005	-14.2%	-14.8%	-14.6%	-13.9%	-13.7%
2006	20.13	20.31	20.51	20.67	20.72	2006	-7.5%	-6.5%	-5.9%	-5.8%	-5.9%
2007	19.37	19.92	20.21	20.37	20.45	2007	-3.8%	-1.9%	-1.5%	-1.5%	-1.3%
2008	18.73	19.65	20.00	20.22	20.32	2008	-3.3%	-1.4%	-1.0%	-0.7%	-0.6%
2009	18.85	19.92	20.37	20.57	20.66	2009	0.7%	1.4%	1.9%	1.7%	1.7%
2010	19.79	21.01	21.51	21.70	21.77	2010	5.0%	5.4%	5.6%	5.5%	5.4%
2011	20.34	21.79	22.27	22.49	22.58	2011	2.8%	3.7%	3.6%	3.6%	3.7%
2012	21.27	22.84	23.29	23.48	23.62	2012	4.5%	4.8%	4.6%	4.4%	4.6%
2013	21.81	23.31	23.71	23.90	24.02	2013	2.6%	2.0%	1.8%	1.8%	1.7%
2014	22.35	23.85	24.24	24.40	24.29	2014	2.5%	2.3%	2.2%	2.1%	1.1%
2015	22.33	23.77	24.12	23.39	23.39	2015	-0.1%	-0.3%	-0.5%	-4.1%	-3.7%
2016	21.72	23.27	22.03	21.67	21.73	2016	-2.7%	-2.1%	-8.7%	-7.4%	-7.1%
2017	21.44	22.42	21.65	21.81		2017	-1.3%	-3.7%	-1.7%	0.7%	
2018	20.35	21.47	21.79			2018	-5.1%	-4.2%	0.6%		
2019	18.78	20.12				2019	-7.7%	-6.3%			
2020	17.40					2020	-7.3%				

San Diego

Indemnity Claim Frequency per \$100M of Exposure at AY 2019 Level						Annual Change					
AY/RL	1	2	3	4	5	AY/RL	1	2	3	4	5
2003	26.84	27.02	26.80	26.72	26.83	2003	---	---	---	---	---
2004	23.47	23.38	23.42	23.31	22.90	2004	-12.5%	-13.5%	-12.6%	-12.8%	-14.6%
2005	20.43	20.49	20.50	19.84	19.61	2005	-13.0%	-12.4%	-12.5%	-14.9%	-14.4%
2006	19.09	18.98	18.43	18.11	18.13	2006	-6.5%	-7.4%	-10.1%	-8.7%	-7.5%
2007	18.42	17.94	17.66	17.38	17.43	2007	-3.5%	-5.5%	-4.2%	-4.0%	-3.9%
2008	16.91	16.97	17.12	16.91	16.99	2008	-8.2%	-5.4%	-3.0%	-2.7%	-2.5%
2009	15.95	16.59	16.76	16.88	16.97	2009	-5.7%	-2.2%	-2.1%	-0.1%	-0.1%
2010	16.57	17.27	17.50	17.68	17.75	2010	3.9%	4.1%	4.4%	4.8%	4.6%
2011	16.86	17.50	17.76	17.93	17.99	2011	1.7%	1.3%	1.5%	1.4%	1.4%
2012	17.01	17.64	17.87	17.98	18.04	2012	0.9%	0.8%	0.6%	0.2%	0.3%
2013	16.77	17.41	17.56	17.65	17.72	2013	-1.4%	-1.3%	-1.7%	-1.8%	-1.8%
2014	17.08	17.80	17.93	18.03	18.22	2014	1.9%	2.3%	2.1%	2.2%	2.8%
2015	17.31	18.08	18.21	18.48	18.64	2015	1.3%	1.6%	1.5%	2.5%	2.3%
2016	17.00	17.70	19.06	19.27	19.30	2016	-1.7%	-2.1%	4.6%	4.3%	3.6%
2017	16.42	16.47	17.43	17.49		2017	-3.4%	-6.9%	-8.5%	-9.2%	
2018	15.94	16.15	16.32			2018	-2.9%	-1.9%	-6.4%		
2019	15.47	16.13				2019	-3.0%	-0.2%			
2020	14.65					2020	-5.3%				

Figures in italics are based on preliminary partial data.
Source: WCIRB unit statistical data

Indemnity Claim Frequency by Geographic Region

All Other

Indemnity Claim Frequency per \$100M of Exposure at AY 2019 Level						Annual Change					
AY/RL	1	2	3	4	5	AY/RL	1	2	3	4	5
2003	34.52	35.75	36.22	36.39	36.53	2003	---	---	---	---	---
2004	31.50	32.23	32.35	32.53	32.66	2004	-8.8%	-9.8%	-10.7%	-10.6%	-10.6%
2005	27.56	27.97	28.17	28.41	28.57	2005	-12.5%	-13.2%	-12.9%	-12.7%	-12.5%
2006	25.21	25.55	25.86	26.09	26.17	2006	-8.5%	-8.7%	-8.2%	-8.2%	-8.4%
2007	23.90	24.44	24.89	25.13	25.18	2007	-5.2%	-4.3%	-3.8%	-3.7%	-3.8%
2008	22.53	23.25	23.56	23.75	23.82	2008	-5.7%	-4.9%	-5.3%	-5.5%	-5.4%
2009	22.01	22.74	22.93	23.07	23.16	2009	-2.3%	-2.2%	-2.7%	-2.8%	-2.7%
2010	22.40	23.28	23.60	23.71	23.85	2010	1.8%	2.4%	2.9%	2.7%	3.0%
2011	22.62	23.73	24.10	24.25	24.35	2011	1.0%	1.9%	2.1%	2.3%	2.1%
2012	23.16	24.24	24.60	24.77	24.82	2012	2.4%	2.2%	2.1%	2.2%	1.9%
2013	23.03	24.05	24.38	24.51	24.57	2013	-0.6%	-0.8%	-0.9%	-1.1%	-1.0%
2014	22.81	23.81	24.18	24.31	24.37	2014	-1.0%	-1.0%	-0.8%	-0.8%	-0.8%
2015	22.74	23.70	24.05	24.20	24.17	2015	-0.3%	-0.5%	-0.6%	-0.5%	-0.8%
2016	21.70	22.64	24.40	24.55	24.61	2016	-4.6%	-4.5%	1.5%	1.5%	1.8%
2017	21.64	23.74	25.11	25.25		2017	-0.2%	4.9%	2.9%	2.8%	
2018	21.54	23.02	23.26			2018	-0.5%	-3.0%	-7.4%		
2019	22.19	22.92				2019	3.0%	-0.4%			
2020	24.50					2020	10.4%				

All Regions

Indemnity Claim Frequency per \$100M of Exposure at AY 2019 Level						Annual Change					
AY/RL	1	2	3	4	5	AY/RL	1	2	3	4	5
2003	27.94	28.65	28.66	28.70	28.74	2003	---	---	---	---	---
2004	24.65	24.91	24.96	25.01	25.02	2004	-11.8%	-13.0%	-12.9%	-12.9%	-12.9%
2005	21.39	21.48	21.60	21.67	21.70	2005	-13.2%	-13.8%	-13.5%	-13.4%	-13.3%
2006	19.68	19.89	20.04	20.13	20.17	2006	-8.0%	-7.4%	-7.2%	-7.1%	-7.1%
2007	18.76	19.16	19.37	19.48	19.55	2007	-4.7%	-3.7%	-3.3%	-3.2%	-3.1%
2008	17.75	18.37	18.64	18.79	18.88	2008	-5.4%	-4.2%	-3.8%	-3.5%	-3.4%
2009	17.46	18.26	18.56	18.72	18.79	2009	-1.6%	-0.6%	-0.4%	-0.4%	-0.5%
2010	17.97	18.90	19.25	19.40	19.47	2010	2.9%	3.5%	3.7%	3.6%	3.6%
2011	18.17	19.24	19.62	19.79	19.86	2011	1.1%	1.8%	1.9%	2.0%	2.0%
2012	18.60	19.69	20.03	20.19	20.27	2012	2.4%	2.3%	2.1%	2.0%	2.1%
2013	18.68	19.72	20.01	20.14	20.22	2013	0.4%	0.1%	-0.1%	-0.2%	-0.3%
2014	18.80	19.82	20.11	20.23	20.41	2014	0.6%	0.5%	0.5%	0.4%	0.9%
2015	18.64	19.75	19.81	19.96	19.91	2015	-0.8%	-0.4%	-1.5%	-1.4%	-2.4%
2016	18.08	18.93	19.21	19.27	19.33	2016	-3.0%	-4.2%	-3.1%	-3.4%	-2.9%
2017	17.63	18.73	18.81	18.93		2017	-2.5%	-1.1%	-2.1%	-1.8%	
2018	17.29	17.92	18.15			2018	-1.9%	-4.3%	-3.5%		
2019	16.71	17.66				2019	-3.4%	-1.4%			
2020	15.57					2020	-6.8%				

Ratios of Incremental Paid Losses to Prior Outstanding Losses by Accident Year

Accident Year	Paid Indemnity								
	9-21	21-33	33-45	45-57	57-69	69-81	81-93	93-105	105-117
1996							0.278	0.233	0.195
1997						0.321	0.284	0.216	0.182
1998					0.360	0.309	0.249	0.225	0.215
1999				0.440	0.395	0.316	0.273	0.243	0.214
2000			0.520	0.461	0.366	0.319	0.310	0.261	0.226
2001		0.731	0.589	0.487	0.401	0.367	0.292	0.266	0.228
2002	1.123	0.714	0.562	0.482	0.432	0.365	0.326	0.266	0.251
2003	1.033	0.698	0.596	0.505	0.411	0.337	0.276	0.260	0.251
2004	0.959	0.605	0.536	0.423	0.377	0.322	0.307	0.282	0.299
2005	1.141	0.706	0.566	0.483	0.399	0.341	0.301	0.308	0.267
2006	1.229	0.760	0.558	0.468	0.407	0.362	0.313	0.287	0.245
2007	1.391	0.778	0.569	0.473	0.423	0.379	0.339	0.264	0.292
2008	1.475	0.804	0.632	0.518	0.443	0.383	0.329	0.273	0.258
2009	1.547	0.808	0.637	0.529	0.447	0.389	0.349	0.331	0.303
2010	1.632	0.838	0.661	0.554	0.482	0.436	0.383	0.342	0.326
2011	1.657	0.814	0.626	0.517	0.456	0.414	0.401	0.367	0.302
2012	1.657	0.803	0.638	0.548	0.523	0.417	0.385	0.337	0.255
2013	1.604	0.817	0.678	0.586	0.512	0.425	0.360	0.331	
2014	1.609	0.883	0.706	0.593	0.489	0.399	0.346		
2015	1.629	0.867	0.677	0.564	0.442	0.400			
2016	1.665	0.859	0.682	0.537	0.445				
2017	1.641	0.841	0.624	0.504					
2018	1.618	0.793	0.581						
2019	1.632	0.769							
2020	1.589								

Accident Year	Paid Medical								
	9-21	21-33	33-45	45-57	57-69	69-81	81-93	93-105	105-117
1996							0.251	0.217	0.164
1997						0.291	0.267	0.176	0.158
1998					0.322	0.268	0.195	0.201	0.165
1999				0.408	0.353	0.249	0.209	0.191	0.201
2000			0.491	0.404	0.297	0.231	0.227	0.241	0.179
2001		0.743	0.529	0.399	0.310	0.283	0.275	0.213	0.204
2002	1.453	0.688	0.429	0.372	0.335	0.325	0.263	0.237	0.190
2003	1.271	0.560	0.439	0.376	0.356	0.266	0.255	0.218	0.190
2004	1.050	0.542	0.442	0.402	0.335	0.294	0.247	0.230	0.229
2005	1.062	0.491	0.444	0.400	0.358	0.294	0.239	0.281	0.205
2006	1.078	0.556	0.453	0.391	0.338	0.296	0.261	0.226	0.189
2007	1.152	0.578	0.468	0.395	0.354	0.331	0.278	0.218	0.199
2008	1.187	0.572	0.492	0.432	0.386	0.320	0.261	0.216	0.190
2009	1.212	0.583	0.502	0.466	0.377	0.303	0.259	0.214	0.197
2010	1.232	0.597	0.542	0.443	0.377	0.333	0.288	0.240	0.239
2011	1.142	0.561	0.466	0.394	0.349	0.290	0.265	0.238	0.187
2012	1.095	0.519	0.453	0.401	0.369	0.290	0.272	0.228	0.178
2013	1.061	0.507	0.455	0.411	0.337	0.294	0.242	0.204	
2014	1.056	0.530	0.474	0.406	0.351	0.297	0.264		
2015	1.021	0.520	0.444	0.375	0.300	0.275			
2016	1.067	0.508	0.421	0.368	0.311				
2017	1.012	0.490	0.402	0.343					
2018	1.020	0.479	0.420						
2019	0.997	0.495							
2020	1.013								

Note: Entries for paid medical from accident years 2011 and prior reflect the paid cost of medical cost containment programs attributable to policies with effective dates prior to July 1, 2010. Entries for accident years 2012 and subsequent exclude the paid cost of medical cost containment programs.

Source: WCIRB quarterly calls for experience

**Comparison of Projected Loss Ratios as of September 30, 2021
Accident Year 2015 Projected to 81 Months^[1]**

Indemnity

Methodology	Based on Experience Evaluated as of (in months):					
	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>69</u>	<u>Current</u>
3-Year Avg. Incurred	0.203	0.203	0.200	0.196	0.192	0.190
Latest Year Incurred	0.201	0.200	0.198	0.195	0.192	0.190
3-Year Avg. Paid	0.205	0.207	0.205	0.200	0.194	0.190
Latest Year Paid	0.206	0.205	0.202	0.199	0.194	0.190
Reform-Adj. Paid ^[2]	0.206	0.205	0.202	0.199	0.194	0.190
Latest Yr. Pd. Adj. for Settlement ^[3]	0.199	0.198	0.198	0.196	0.193	0.190
Difference from Actual 81-Month Loss Ratio						
	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>69</u>	<u>Current</u>
3-Year Avg. Incurred	6.5%	6.5%	4.8%	2.9%	1.0%	0.0%
Latest Year Incurred	5.8%	5.0%	3.8%	2.2%	0.9%	0.0%
3-Year Avg. Paid	7.9%	8.8%	7.5%	5.1%	2.1%	0.0%
Latest Year Paid	8.3%	7.5%	6.3%	4.7%	2.0%	0.0%
Reform-Adj. Paid ^[2]	8.3%	7.5%	6.3%	4.7%	2.0%	0.0%
Latest Yr. Pd. Adj. for Settlement ^[3]	4.3%	4.2%	3.9%	3.2%	1.3%	0.0%

Medical

Methodology	Based on Experience Evaluated as of (in months):					
	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>69</u>	<u>Current</u>
3-Year Avg. Incurred	0.247	0.244	0.237	0.227	0.220	0.215
Latest Year Incurred	0.233	0.233	0.230	0.223	0.219	0.215
3-Year Avg. Paid	0.245	0.242	0.236	0.229	0.221	0.215
Latest Year Paid	0.238	0.236	0.233	0.227	0.220	0.215
Reform-Adj. Paid ^[2]	0.238	0.236	0.233	0.227	0.220	0.215
Latest Yr. Pd. Adj. for Settlement ^[3]	0.232	0.231	0.228	0.224	0.219	0.215
Difference from Actual 81-Month Loss Ratio						
	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>69</u>	<u>Current</u>
3-Year Avg. Incurred	15.1%	13.6%	10.1%	5.7%	2.5%	0.0%
Latest Year Incurred	8.2%	8.3%	6.7%	3.8%	1.8%	0.0%
3-Year Avg. Paid	13.9%	12.4%	9.8%	6.5%	2.6%	0.0%
Latest Year Paid	10.9%	10.0%	8.2%	5.7%	2.3%	0.0%
Reform-Adj. Paid ^[2]	10.9%	10.0%	8.2%	5.7%	2.3%	0.0%
Latest Yr. Pd. Adj. for Settlement ^[3]	7.9%	7.2%	6.0%	4.3%	1.7%	0.0%

^[1] Each loss ratio is projected to incurred losses at 81 months. Loss ratios projected under paid methods are converted to an incurred basis causing the ratio of incurred losses to paid losses reported at 81 months.

^[2] The Reform-Adjusted Paid Methodology reflects adjustments for 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.

^[3] The Latest Year Claim-Settlement Methodology for projecting ultimate loss ratios also contemplates adjustments for reforms. See [2] above.

Source: WCIRB quarterly calls for experience

**Comparison of Projected Loss Ratios as of September 30, 2021
Accident Year 2016 Projected to 69 Months^[1]**

Indemnity

Methodology	Based on Experience Evaluated as of (in months):				
	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>Current</u>
3-Year Avg. Incurred	0.189	0.186	0.182	0.180	0.177
Latest Year Incurred	0.189	0.185	0.181	0.180	0.177
3-Year Avg. Paid	0.196	0.192	0.187	0.182	0.177
Latest Year Paid	0.196	0.191	0.187	0.182	0.177
Reform-Adj. Paid ^[2]	0.196	0.191	0.187	0.182	0.177
Latest Yr. Pd. Adj. for Settlement ^[3]	0.187	0.184	0.183	0.180	0.177
Difference from Actual 69-Month Loss Ratio					
	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>Current</u>
3-Year Avg. Incurred	6.7%	4.9%	3.1%	1.8%	0.0%
Latest Year Incurred	6.8%	4.7%	2.5%	1.9%	0.0%
3-Year Avg. Paid	10.6%	8.3%	5.9%	2.8%	0.0%
Latest Year Paid	10.7%	8.0%	5.6%	2.9%	0.0%
Reform-Adj. Paid ^[2]	10.7%	8.0%	5.6%	2.9%	0.0%
Latest Yr. Pd. Adj. for Settlement ^[3]	5.5%	4.1%	3.4%	1.6%	0.0%

Medical

Methodology	Based on Experience Evaluated as of (in months):				
	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>Current</u>
3-Year Avg. Incurred	0.223	0.218	0.210	0.205	0.200
Latest Year Incurred	0.218	0.214	0.206	0.204	0.200
3-Year Avg. Paid	0.228	0.222	0.213	0.206	0.200
Latest Year Paid	0.224	0.219	0.212	0.206	0.200
Reform-Adj. Paid ^[2]	0.224	0.219	0.212	0.206	0.200
Latest Yr. Pd. Adj. for Settlement ^[3]	0.216	0.213	0.208	0.204	0.200
Difference from Actual 69-Month Loss Ratio					
	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>Current</u>
3-Year Avg. Incurred	11.7%	9.3%	5.1%	2.6%	0.0%
Latest Year Incurred	9.4%	7.1%	3.3%	2.2%	0.0%
3-Year Avg. Paid	14.2%	11.0%	6.8%	3.2%	0.0%
Latest Year Paid	12.0%	9.6%	6.2%	3.0%	0.0%
Reform-Adj. Paid ^[2]	12.0%	9.6%	6.2%	3.0%	0.0%
Latest Yr. Pd. Adj. for Settlement ^[3]	8.2%	6.5%	4.3%	1.9%	0.0%

^[1] Each loss ratio is projected to incurred losses at 69 months. Loss ratios projected under paid methods are converted to an incurred basis causing the ratio of incurred losses to paid losses reported at 69 months.

^[2] The Reform-Adjusted Paid Methodology reflects adjustments for 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.

^[3] The Latest Year Claim-Settlement Methodology for projecting ultimate loss ratios also contemplates adjustments for reforms. See [2] above.

Source: WCIRB quarterly calls for experience

**Comparison of Projected Loss Ratios as of September 30, 2021
Accident Year 2017 Projected to 57 Months^[1]**

Indemnity

<u>Methodology</u>	Based on Experience Evaluated as of (in months):			
	<u>21</u>	<u>33</u>	<u>45</u>	<u>Current</u>
3-Year Avg. Incurred	0.189	0.184	0.181	0.178
Latest Year Incurred	0.184	0.183	0.181	0.178
3-Year Avg. Paid	0.194	0.189	0.182	0.178
Latest Year Paid	0.188	0.187	0.181	0.178
Reform-Adj. Paid ^[2]	0.188	0.187	0.181	0.178
Latest Yr. Pd. Adj. for Settlement ^[3]	0.179	0.181	0.178	0.178
Difference from Actual 57-Month Loss Ratio				
	<u>21</u>	<u>33</u>	<u>45</u>	<u>Current</u>
3-Year Avg. Incurred	6.2%	3.6%	1.9%	0.0%
Latest Year Incurred	3.7%	2.8%	2.0%	0.0%
3-Year Avg. Paid	9.0%	6.2%	2.3%	0.0%
Latest Year Paid	5.8%	5.1%	2.1%	0.0%
Reform-Adj. Paid ^[2]	5.8%	5.1%	2.1%	0.0%
Latest Yr. Pd. Adj. for Settlement ^[3]	0.9%	1.9%	0.4%	0.0%

Medical

	Based on Experience Evaluated as of (in months):			
	<u>21</u>	<u>33</u>	<u>45</u>	<u>Current</u>
3-Year Avg. Incurred	0.218	0.212	0.207	0.203
Latest Year Incurred	0.211	0.208	0.205	0.203
3-Year Avg. Paid	0.226	0.218	0.209	0.203
Latest Year Paid	0.219	0.214	0.207	0.203
Reform-Adj. Paid ^[2]	0.219	0.214	0.207	0.203
Latest Yr. Pd. Adj. for Settlement ^[3]	0.215	0.212	0.206	0.203
Difference from Actual 57-Month Loss Ratio				
	<u>21</u>	<u>33</u>	<u>45</u>	<u>Current</u>
3-Year Avg. Incurred	7.7%	4.6%	2.2%	0.0%
Latest Year Incurred	4.2%	2.6%	1.3%	0.0%
3-Year Avg. Paid	11.6%	7.5%	3.0%	0.0%
Latest Year Paid	7.8%	5.7%	2.2%	0.0%
Reform-Adj. Paid ^[2]	7.8%	5.7%	2.2%	0.0%
Latest Yr. Pd. Adj. for Settlement ^[3]	6.2%	4.5%	1.6%	0.0%

^[1] Each loss ratio is projected to incurred losses at 57 months. Loss ratios projected under paid methods are converted to an incurred basis causing the ratio of incurred losses to paid losses reported at 57 months.

^[2] The Reform-Adjusted Paid Methodology reflects adjustments for 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.

^[3] The Latest Year Claim-Settlement Methodology for projecting ultimate loss ratios also contemplates adjustments for reforms. See [2] above.

Source: WCIRB quarterly calls for experience

**Comparison of Projected Loss Ratios as of September 30, 2021
Accident Year 2018 Projected to 45 Months^[1]**

Indemnity

<u>Methodology</u>	<u>Based on Experience Evaluated as of (in months):</u>		
	<u>21</u>	<u>33</u>	<u>Current</u>
3-Year Avg. Incurred	0.188	0.186	0.181
Latest Year Incurred	0.184	0.184	0.181
3-Year Avg. Paid	0.192	0.186	0.181
Latest Year Paid	0.188	0.184	0.181
Reform-Adj. Paid ^[2]	0.188	0.184	0.181
Latest Yr. Pd. Adj. for Settlement ^[3]	0.184	0.181	0.181
Difference from Actual 45-Month Loss Ratio			
	<u>21</u>	<u>33</u>	<u>Current</u>
3-Year Avg. Incurred	3.9%	2.7%	0.0%
Latest Year Incurred	1.7%	1.7%	0.0%
3-Year Avg. Paid	6.3%	2.7%	0.0%
Latest Year Paid	3.8%	1.6%	0.0%
Reform-Adj. Paid ^[2]	3.8%	1.6%	0.0%
Latest Yr. Pd. Adj. for Settlement ^[3]	2.0%	0.0%	0.0%

Medical

	<u>Based on Experience Evaluated as of (in months):</u>		
	<u>21</u>	<u>33</u>	<u>Current</u>
3-Year Avg. Incurred	0.219	0.214	0.211
Latest Year Incurred	0.211	0.210	0.211
3-Year Avg. Paid	0.220	0.215	0.211
Latest Year Paid	0.212	0.212	0.211
Reform-Adj. Paid ^[2]	0.212	0.212	0.211
Latest Yr. Pd. Adj. for Settlement ^[3]	0.210	0.210	0.211
Difference from Actual 45-Month Loss Ratio			
	<u>21</u>	<u>33</u>	<u>Current</u>
3-Year Avg. Incurred	3.7%	1.4%	0.0%
Latest Year Incurred	0.0%	-0.6%	0.0%
3-Year Avg. Paid	4.1%	1.9%	0.0%
Latest Year Paid	0.2%	0.2%	0.0%
Reform-Adj. Paid ^[2]	0.6%	0.4%	0.0%
Latest Yr. Pd. Adj. for Settlement ^[3]	-0.5%	-0.6%	0.0%

^[1] Each loss ratio is projected to incurred losses at 45 months. Loss ratios projected under paid methods are converted to an incurred basis causing the ratio of incurred losses to paid losses reported at 45 months.

^[2] The Reform-Adjusted Paid Methodology reflects adjustments for 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.

^[3] The Latest Year Claim-Settlement Methodology for projecting ultimate loss ratios also contemplates adjustments for reforms. See [2] above.

Source: WCIRB quarterly calls for experience

**Comparison of Projected Loss Ratios as of September 30, 2021
Accident Year 2019 Projected to 33 Months^[1]**

Indemnity

<u>Methodology</u>	<u>Based on Experience Evaluated as of (in months):</u>	
	<u>21</u>	<u>Current</u>
3-Year Avg. Incurred	0.191	0.189
Latest Year Incurred	0.191	0.189
3-Year Avg. Paid	0.192	0.189
Latest Year Paid	0.189	0.189
Reform-Adj. Paid ^[2]	0.189	0.189
Latest Yr. Pd. Adj. for Settlement ¹	0.192	0.189

Difference from Actual 33-Month Loss Ratio

	<u>21</u>	<u>Current</u>
3-Year Avg. Incurred	1.3%	0.0%
Latest Year Incurred	1.0%	0.0%
3-Year Avg. Paid	1.9%	0.0%
Latest Year Paid	0.2%	0.0%
Reform-Adj. Paid ^[2]	0.2%	0.0%
Latest Yr. Pd. Adj. for Settlement ¹	1.6%	0.0%

Medical

	<u>Based on Experience Evaluated as of (in months):</u>	
	<u>21</u>	<u>Current</u>
3-Year Avg. Incurred	0.218	0.220
Latest Year Incurred	0.217	0.220
3-Year Avg. Paid	0.216	0.220
Latest Year Paid	0.215	0.220
Reform-Adj. Paid ^[2]	0.215	0.220
Latest Yr. Pd. Adj. for Settlement ¹	0.216	0.220

Difference from Actual 33-Month Loss Ratio

	<u>21</u>	<u>Current</u>
3-Year Avg. Incurred	-0.7%	0.0%
Latest Year Incurred	-1.6%	0.0%
3-Year Avg. Paid	-1.6%	0.0%
Latest Year Paid	-2.3%	0.0%
Reform-Adj. Paid ^[2]	-2.3%	0.0%
Latest Yr. Pd. Adj. for Settlement ¹	-1.7%	0.0%

^[1] Each loss ratio is projected to incurred losses at 33 months. Loss ratios projected under paid methods are converted to an incurred basis causing the ratio of incurred losses to paid losses reported at 33 months.

^[2] The Reform-Adjusted Paid Methodology reflects adjustments for 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.

^[3] The Latest Year Claim-Settlement Methodology for projecting ultimate loss ratios also contemplates adjustments for reforms. See [2] above.

Source: WCIRB quarterly calls for experience

Average Incurred Indemnity Loss per Reported Indemnity Claim
As of September 30, 2021

Accident	Evaluated as of (in months):									
Year	9	21	33	45	57	69	81	93	105	117
1996										16,691
1997									18,976	19,005
1998								20,868	20,885	20,992
1999							22,357	22,438	22,619	22,720
2000						22,985	23,150	23,481	23,670	23,803
2001					24,167	24,639	25,222	25,561	25,879	26,060
2002				21,680	22,452	23,269	23,691	24,056	24,297	24,568
2003			19,447	21,029	22,303	23,069	23,683	24,118	24,584	24,987
2004		13,210	15,513	17,079	17,835	18,640	19,159	19,735	20,111	20,421
2005	7,728	10,507	13,257	14,700	15,835	16,647	17,385	17,960	18,275	18,499
2006	7,556	10,992	14,331	16,134	17,385	18,418	19,169	19,622	19,896	20,064
2007	7,400	11,721	15,582	17,688	18,935	19,959	20,677	21,242	21,472	21,713
2008	7,688	12,721	16,951	19,546	21,104	22,056	22,716	23,137	23,440	23,612
2009	7,948	13,262	17,577	20,289	21,903	22,929	23,519	23,936	24,303	24,529
2010	7,894	13,016	17,451	19,897	21,380	22,279	22,895	23,312	23,589	23,863
2011	7,984	13,473	17,568	19,924	21,119	21,909	22,436	22,839	23,092	23,304
2012	8,255	13,502	17,396	19,317	20,615	21,507	21,974	22,380	22,700	22,874
2013	8,454	13,416	17,027	19,111	20,183	20,891	21,371	21,631	21,801	
2014	8,490	13,393	17,570	19,805	21,066	21,755	22,102	22,382		
2015	8,665	14,009	18,231	20,328	21,402	21,965	22,379			
2016	8,811	14,098	17,954	19,851	20,892	21,421				
2017	8,944	14,388	18,321	20,201	21,105					
2018	9,450	15,098	19,138	20,841						
2019	9,828	15,879	19,891							
2020	10,899	16,301								
2021	10,126									

Accident	Annual Change									
Year	9	21	33	45	57	69	81	93	105	117
1997										13.9%
1998									10.1%	10.5%
1999								7.5%	8.3%	8.2%
2000							3.5%	4.7%	4.6%	4.8%
2001						7.2%	9.0%	8.9%	9.3%	9.5%
2002					-7.1%	-5.6%	-6.1%	-5.9%	-6.1%	-5.7%
2003				-3.0%	-0.7%	-0.9%	0.0%	0.3%	1.2%	1.7%
2004			-20.2%	-18.8%	-20.0%	-19.2%	-19.1%	-18.2%	-18.2%	-18.3%
2005		-20.5%	-14.5%	-13.9%	-11.2%	-10.7%	-9.3%	-9.0%	-9.1%	-9.4%
2006	-2.2%	4.6%	8.1%	9.8%	9.8%	10.6%	10.3%	9.2%	8.9%	8.5%
2007	-2.1%	6.6%	8.7%	9.6%	8.9%	8.4%	7.9%	8.3%	7.9%	8.2%
2008	3.9%	8.5%	8.8%	10.5%	11.5%	10.5%	9.9%	8.9%	9.2%	8.7%
2009	3.4%	4.2%	3.7%	3.8%	3.8%	4.0%	3.5%	3.5%	3.7%	3.9%
2010	-0.7%	-1.9%	-0.7%	-1.9%	-2.4%	-2.8%	-2.7%	-2.6%	-2.9%	-2.7%
2011	1.1%	3.5%	0.7%	0.1%	-1.2%	-1.7%	-2.0%	-2.0%	-2.1%	-2.3%
2012	3.4%	0.2%	-1.0%	-3.0%	-2.4%	-1.8%	-2.1%	-2.0%	-1.7%	-1.8%
2013	2.4%	-0.6%	-2.1%	-1.1%	-2.1%	-2.9%	-2.7%	-3.3%	-4.0%	
2014	0.4%	-0.2%	3.2%	3.6%	4.4%	4.1%	3.4%	3.5%		
2015	2.1%	4.6%	3.8%	2.6%	1.6%	1.0%	1.3%			
2016	1.7%	0.6%	-1.5%	-2.3%	-2.4%	-2.5%				
2017	1.5%	2.1%	2.0%	1.8%	1.0%					
2018	5.7%	4.9%	4.5%	3.2%						
2019	4.0%	5.2%	3.9%							
2020	10.9%	2.7%								
2021	-7.1%									

Annual Trend*										
All-Year	2.1%	2.0%	1.3%	0.7%	0.2%	-0.1%	-0.1%	-0.1%	0.3%	0.9%
R ²	0.896	0.767	0.395	0.127	0.007	0.002	0.006	0.001	0.022	0.151
5-Year	4.0%	4.0%	2.4%	1.0%	0.8%	0.4%	0.0%	-1.3%	-2.5%	-1.1%
R ²	0.694	0.982	0.802	0.536	0.340	0.124	0.000	0.597	0.981	0.480

*Trend is based on an exponential distribution.

Source: WCIRB quarterly calls for experience, excluding COVID-19 claims.

Average Incurred Medical Loss per Reported Claim
As of September 30, 2021

Accident	Evaluated as of (in months):									
Year	9	21	33	45	57	69	81	93	105	117
2000										8,237
2001									9,546	9,865
2002								9,604	9,914	10,189
2003							9,033	9,393	9,763	10,054
2004						7,178	7,628	7,968	8,241	8,464
2005					6,354	6,907	7,303	7,658	7,957	8,052
2006				6,627	7,176	7,674	8,082	8,418	8,605	8,720
2007			6,707	7,557	8,207	8,786	9,253	9,574	9,752	9,828
2008		6,177	7,543	8,557	9,401	10,020	10,433	10,726	10,854	10,904
2009	5,047	6,887	8,555	9,726	10,706	11,337	11,698	11,920	12,019	12,087
2010	5,146	7,121	8,942	10,242	11,014	11,537	11,857	12,000	12,097	12,220
2011	5,196	7,350	9,040	10,142	10,864	11,241	11,448	11,556	11,630	11,648
2012	5,427	7,385	8,831	9,614	10,154	10,523	10,691	10,833	10,909	10,934
2013	5,456	7,355	8,530	9,241	9,657	9,861	10,023	10,066	10,083	
2014	5,449	7,028	8,167	8,855	9,184	9,458	9,558	9,636		
2015	5,609	7,086	8,249	8,834	9,095	9,253	9,335			
2016	5,569	7,157	8,154	8,535	8,834	8,962				
2017	5,765	7,025	7,927	8,378	8,587					
2018	5,888	7,388	8,282	8,754						
2019	5,926	7,384	8,420							
2020	6,825	8,352								
2021	6,611									

Accident	Annual Change									
Year	9	21	33	45	57	69	81	93	105	117
2001										19.8%
2002									3.8%	3.3%
2003								-2.2%	-1.5%	-1.3%
2004							-15.6%	-15.2%	-15.6%	-15.8%
2005						-3.8%	-4.3%	-3.9%	-3.4%	-4.9%
2006					12.9%	11.1%	10.7%	9.9%	8.1%	8.3%
2007				14.0%	14.4%	14.5%	14.5%	13.7%	13.3%	12.7%
2008			12.5%	13.2%	14.5%	14.0%	12.7%	12.0%	11.3%	10.9%
2009		11.5%	13.4%	13.7%	13.9%	13.1%	12.1%	11.1%	10.7%	10.9%
2010	2.0%	3.4%	4.5%	5.3%	2.9%	1.8%	1.4%	0.7%	0.6%	1.1%
2011	1.0%	3.2%	1.1%	-1.0%	-1.4%	-2.6%	-3.5%	-3.7%	-3.9%	-4.7%
2012	4.4%	0.5%	-2.3%	-5.2%	-6.5%	-6.4%	-6.6%	-6.3%	-6.2%	-6.1%
2013	0.5%	-0.4%	-3.4%	-3.9%	-4.9%	-6.3%	-6.2%	-7.1%	-7.6%	
2014	-0.1%	-4.5%	-4.3%	-4.2%	-4.9%	-4.1%	-4.6%	-4.3%		
2015	2.9%	0.8%	1.0%	-0.2%	-1.0%	-2.2%	-2.3%			
2016	-0.7%	1.0%	-1.1%	-3.4%	-2.9%	-3.1%				
2017	3.5%	-1.9%	-2.8%	-1.8%	-2.8%					
2018	2.1%	5.2%	4.5%	4.5%						
2019	0.6%	-0.1%	1.7%							
2020	15.2%	13.1%								
2021	-3.1%									

Annual Trend*										
All-Year	2.2%	1.1%	0.5%	0.8%	1.6%	2.3%	2.2%	2.1%	2.1%	2.5%
R ²	0.871	0.453	0.072	0.072	0.148	0.265	0.292	0.304	0.340	0.454
5-Year	4.3%	3.7%	0.6%	-0.8%	-2.7%	-3.8%	-5.1%	-5.6%	-4.4%	-0.3%
R ²	0.761	0.704	0.158	0.250	0.962	0.958	0.969	0.989	0.880	0.008

*Trend is based on an exponential distribution.

Source: WCIRB quarterly calls for experience, excluding COVID-19 claims.

Average Indemnity Case Outstanding per Open Indemnity Claim
As of September 30, 2021

Accident	Evaluated as of (in months):									
Year	9	21	33	45	57	69	81	93	105	117
1996										32,261
1997									31,957	34,937
1998								31,929	32,304	33,606
1999							27,957	28,492	30,253	31,207
2000						23,525	24,059	25,012	25,790	26,821
2001					19,437	19,555	20,785	21,984	23,677	24,764
2002				16,628	16,044	17,474	18,060	19,077	20,307	22,314
2003			15,529	15,038	16,302	17,868	20,251	22,597	26,262	30,081
2004		12,429	12,775	13,929	15,051	17,467	19,064	22,469	24,604	27,482
2005	7,429	9,241	10,943	12,169	14,386	16,601	20,272	23,637	25,659	27,603
2006	6,936	9,725	12,021	14,279	16,622	19,577	21,996	24,598	26,288	27,565
2007	6,665	10,195	13,115	15,589	17,361	19,383	22,252	25,856	27,759	30,296
2008	6,823	10,842	13,794	16,199	17,908	19,814	22,521	25,021	29,097	31,867
2009	7,092	11,378	13,908	16,201	18,216	20,383	22,184	24,887	27,979	30,674
2010	7,064	11,043	13,908	15,491	17,327	18,949	21,102	24,032	26,400	30,475
2011	7,198	11,756	14,099	16,436	18,151	20,035	22,372	25,472	27,488	31,253
2012	7,465	11,703	14,190	15,391	17,631	19,837	22,654	26,766	31,264	35,469
2013	7,645	11,588	13,643	15,247	16,573	18,847	22,804	26,169	27,668	
2014	7,727	11,609	14,246	16,289	19,198	21,889	24,231	27,190		
2015	7,959	12,371	15,715	18,224	21,098	23,679	26,137			
2016	8,033	12,742	16,031	18,772	21,942	23,229				
2017	8,336	13,710	17,775	21,029	23,014					
2018	8,859	14,619	18,786	20,833						
2019	9,195	15,060	18,354							
2020	9,975	14,598								
2021	9,137									

Accident	Annual Change									
Year	9	21	33	45	57	69	81	93	105	117
1997										8.3%
1998									1.1%	-3.8%
1999								-10.8%	-6.4%	-7.1%
2000							-13.9%	-12.2%	-14.8%	-14.1%
2001						-16.9%	-13.6%	-12.1%	-8.2%	-7.7%
2002					-17.5%	-10.6%	-13.1%	-13.2%	-14.2%	-9.9%
2003				-9.6%	1.6%	2.3%	12.1%	18.5%	29.3%	34.8%
2004			-17.7%	-7.4%	-7.7%	-2.2%	-5.9%	-0.6%	-6.3%	-8.6%
2005		-25.7%	-14.3%	-12.6%	-4.4%	-5.0%	6.3%	5.2%	4.3%	0.4%
2006	-6.6%	5.2%	9.9%	17.3%	15.5%	17.9%	8.5%	4.1%	2.4%	-0.1%
2007	-3.9%	4.8%	9.1%	9.2%	4.5%	-1.0%	1.2%	5.1%	5.6%	9.9%
2008	2.4%	6.3%	5.2%	3.9%	3.1%	2.2%	1.2%	-3.2%	4.8%	5.2%
2009	4.0%	4.9%	0.8%	0.0%	1.7%	2.9%	-1.5%	-0.5%	-3.8%	-3.7%
2010	-0.4%	-3.0%	0.0%	-4.4%	-4.9%	-7.0%	-4.9%	-3.4%	-5.6%	-0.6%
2011	1.9%	6.5%	1.4%	6.1%	4.8%	5.7%	6.0%	6.0%	4.1%	2.6%
2012	3.7%	-0.5%	0.6%	-6.4%	-2.9%	-1.0%	1.3%	5.1%	13.7%	13.5%
2013	2.4%	-1.0%	-3.9%	-0.9%	-6.0%	-5.0%	0.7%	-2.2%	-11.5%	
2014	1.1%	0.2%	4.4%	6.8%	15.8%	16.1%	6.3%	3.9%		
2015	3.0%	6.6%	10.3%	11.9%	9.9%	8.2%	7.9%			
2016	0.9%	3.0%	2.0%	3.0%	4.0%	-1.9%				
2017	3.8%	7.6%	10.9%	12.0%	4.9%					
2018	6.3%	6.6%	5.7%	-0.9%						
2019	3.8%	3.0%	-2.3%							
2020	8.5%	-3.1%								
2021	-8.4%									

Annual Trend*										
All-Year	2.2%	2.4%	2.3%	2.1%	1.8%	1.0%	0.5%	0.2%	0.0%	0.2%
R ²	0.840	0.721	0.614	0.560	0.483	0.213	0.059	0.007	0.000	0.009
5-Year	3.1%	3.7%	4.8%	6.6%	8.2%	5.6%	3.9%	2.8%	1.5%	2.4%
R ²	0.538	0.748	0.844	0.911	0.925	0.752	0.851	0.795	0.134	0.355

*Trend is based on an exponential distribution.

Source: WCIRB quarterly calls for experience, excluding COVID-19 claims.

Average Medical Case Outstanding per Open Indemnity Claim
As of September 30, 2021

Accident	Evaluated as of (in months):									
Year	9	21	33	45	57	69	81	93	105	117
1996										48,058
1997									50,201	59,548
1998								47,328	55,465	70,074
1999							36,915	44,145	58,284	71,319
2000						29,088	34,685	45,190	54,104	61,316
2001					21,414	26,007	31,923	40,837	54,031	66,272
2002				17,204	19,682	24,661	31,765	40,312	49,297	60,243
2003			14,626	16,767	20,286	27,347	35,395	43,654	55,575	68,190
2004		12,463	13,816	17,575	23,349	29,748	38,000	47,417	56,582	68,757
2005	12,232	13,125	16,357	20,321	24,419	32,612	40,990	51,690	62,423	68,735
2006	11,432	14,390	18,701	23,496	28,882	36,157	43,839	54,517	63,259	69,741
2007	12,535	15,738	20,289	25,400	31,652	38,538	47,978	58,211	66,688	75,053
2008	12,850	17,119	21,101	26,235	32,605	40,015	48,579	58,061	67,551	74,664
2009	13,912	17,633	22,196	26,892	33,475	40,043	47,077	56,043	63,715	72,064
2010	14,096	17,674	22,669	27,681	32,644	38,518	45,139	50,873	56,981	67,047
2011	14,730	19,271	23,646	28,928	35,604	40,790	47,558	54,314	61,783	68,520
2012	15,492	19,337	23,308	26,658	31,681	37,860	44,804	53,322	60,736	67,778
2013	14,722	18,853	21,780	25,747	30,125	35,417	43,263	49,799	54,475	
2014	14,798	17,847	20,943	25,022	29,725	36,681	41,638	46,877		
2015	15,220	18,288	22,802	28,179	33,922	39,741	43,975			
2016	15,151	18,991	23,445	28,255	34,234	37,742				
2017	16,378	20,113	25,399	30,891	35,321					
2018	16,849	21,563	25,376	29,086						
2019	17,102	20,959	24,176							
2020	17,522	20,396								
2021	17,463									

Accident	Annual Change									
Year	9	21	33	45	57	69	81	93	105	117
1997										23.9%
1998									10.5%	17.7%
1999								-6.7%	5.1%	1.8%
2000							-6.0%	2.4%	-7.2%	-14.0%
2001						-10.6%	-8.0%	-9.6%	-0.1%	8.1%
2002					-8.1%	-5.2%	-0.5%	-1.3%	-8.8%	-9.1%
2003				-2.5%	3.1%	10.9%	11.4%	8.3%	12.7%	13.2%
2004			-5.5%	4.8%	15.1%	8.8%	7.4%	8.6%	1.8%	0.8%
2005		5.3%	18.4%	15.6%	4.6%	9.6%	7.9%	9.0%	10.3%	0.0%
2006	-6.5%	9.6%	14.3%	15.6%	18.3%	10.9%	7.0%	5.5%	1.3%	1.5%
2007	9.7%	9.4%	8.5%	8.1%	9.6%	6.6%	9.4%	6.8%	5.4%	7.6%
2008	2.5%	8.8%	4.0%	3.3%	3.0%	3.8%	1.3%	-0.3%	1.3%	-0.5%
2009	8.3%	3.0%	5.2%	2.5%	2.7%	0.1%	-3.1%	-3.5%	-5.7%	-3.5%
2010	1.3%	0.2%	2.1%	2.9%	-2.5%	-3.8%	-4.1%	-9.2%	-10.6%	-7.0%
2011	4.5%	9.0%	4.3%	4.5%	9.1%	5.9%	5.4%	6.8%	8.4%	2.2%
2012	5.2%	0.3%	-1.4%	-7.8%	-11.0%	-7.2%	-5.8%	-1.8%	-1.7%	-1.1%
2013	-5.0%	-2.5%	-6.6%	-3.4%	-4.9%	-6.5%	-3.4%	-6.6%	-10.3%	
2014	0.5%	-5.3%	-3.8%	-2.8%	-1.3%	3.6%	-3.8%	-5.9%		
2015	2.8%	2.5%	8.9%	12.6%	14.1%	8.3%	5.6%			
2016	-0.4%	3.8%	2.8%	0.3%	0.9%	-5.0%				
2017	8.1%	5.9%	8.3%	9.3%	3.2%					
2018	2.9%	7.2%	-0.1%	-5.8%						
2019	1.5%	-2.8%	-4.7%							
2020	2.5%	-2.7%								
2021	-0.3%									

Annual Trend*										
All-Year	2.5%	2.8%	3.1%	3.3%	3.4%	2.6%	2.1%	1.3%	1.0%	1.2%
R ²	0.919	0.797	0.722	0.722	0.695	0.617	0.530	0.330	0.284	0.333
5-Year	1.7%	1.9%	2.0%	4.0%	4.7%	1.1%	-2.3%	-2.5%	-2.5%	-2.4%
R ²	0.909	0.371	0.421	0.655	0.839	0.164	0.551	0.460	0.385	0.712

*Trend is based on an exponential distribution.

Source: WCIRB quarterly calls for experience, excluding COVID-19 claims.

Average Paid Indemnity Loss per Reported Indemnity Claim
As of September 30, 2021

Accident Year	Evaluated as of (in months):									
	9	21	33	45	57	69	81	93	105	117
1996										15,390
1997									17,319	17,521
1998								18,581	18,983	19,383
1999							19,599	20,219	20,752	21,157
2000						19,563	20,501	21,325	21,903	22,310
2001					19,577	21,290	22,509	23,335	23,948	24,394
2002				16,177	18,758	20,340	21,428	22,180	22,683	23,098
2003			12,100	16,166	18,599	20,141	21,165	21,881	22,480	23,024
2004		5,935	10,040	12,938	14,699	15,901	16,781	17,518	18,160	18,748
2005	1,888	5,445	8,885	11,332	12,955	14,073	14,930	15,668	16,360	16,878
2006	2,016	5,712	9,615	12,163	13,974	15,331	16,431	17,286	17,960	18,405
2007	2,122	6,177	10,325	13,199	15,246	16,761	17,946	18,863	19,470	20,044
2008	2,321	6,702	11,215	14,645	17,082	18,799	20,005	20,852	21,459	21,948
2009	2,363	6,726	11,541	15,150	17,722	19,519	20,783	21,711	22,431	22,977
2010	2,330	6,705	11,514	15,189	17,690	19,372	20,602	21,442	22,066	22,558
2011	2,373	6,815	11,696	15,165	17,459	19,071	20,218	21,074	21,717	22,125
2012	2,458	6,919	11,683	15,044	17,282	18,970	19,988	20,742	21,282	21,631
2013	2,462	6,921	11,634	15,133	17,358	18,768	19,646	20,247	20,688	
2014	2,435	6,953	12,152	15,799	18,090	19,503	20,380	20,970		
2015	2,437	7,281	12,622	16,310	18,508	19,738	20,609			
2016	2,574	7,488	12,641	16,114	18,050	19,298				
2017	2,602	7,623	12,888	16,121	18,118					
2018	2,783	7,970	13,122	16,501						
2019	2,909	8,277	13,583							
2020	3,364	8,760								
2021	3,316									

Accident Year	Annual Change									
	9	21	33	45	57	69	81	93	105	117
1997										13.9%
1998									9.6%	10.6%
1999								8.8%	9.3%	9.2%
2000							4.6%	5.5%	5.5%	5.5%
2001						8.8%	9.8%	9.4%	9.3%	9.3%
2002					-4.2%	-4.5%	-4.8%	-4.9%	-5.3%	-5.3%
2003				-0.1%	-0.8%	-1.0%	-1.2%	-1.3%	-0.9%	-0.3%
2004			-17.0%	-20.0%	-21.0%	-21.1%	-20.7%	-19.9%	-19.2%	-18.6%
2005		-8.3%	-11.5%	-12.4%	-11.9%	-11.5%	-11.0%	-10.6%	-9.9%	-10.0%
2006	6.8%	4.9%	8.2%	7.3%	7.9%	8.9%	10.1%	10.3%	9.8%	9.0%
2007	5.3%	8.1%	7.4%	8.5%	9.1%	9.3%	9.2%	9.1%	8.4%	8.9%
2008	9.3%	8.5%	8.6%	11.0%	12.0%	12.2%	11.5%	10.5%	10.2%	9.5%
2009	1.8%	0.4%	2.9%	3.4%	3.7%	3.8%	3.9%	4.1%	4.5%	4.7%
2010	-1.4%	-0.3%	-0.2%	0.3%	-0.2%	-0.8%	-0.9%	-1.2%	-1.6%	-1.8%
2011	1.8%	1.6%	1.6%	-0.2%	-1.3%	-1.5%	-1.9%	-1.7%	-1.6%	-1.9%
2012	3.6%	1.5%	-0.1%	-0.8%	-1.0%	-0.5%	-1.1%	-1.6%	-2.0%	-2.2%
2013	0.1%	0.0%	-0.4%	0.6%	0.4%	-1.1%	-1.7%	-2.4%	-2.8%	
2014	-1.1%	0.5%	4.5%	4.4%	4.2%	3.9%	3.7%	3.6%		
2015	0.1%	4.7%	3.9%	3.2%	2.3%	1.2%	1.1%			
2016	5.6%	2.8%	0.2%	-1.2%	-2.5%	-2.2%				
2017	1.1%	1.8%	2.0%	0.0%	0.4%					
2018	7.0%	4.6%	1.8%	2.4%						
2019	4.5%	3.9%	3.5%							
2020	15.6%	5.8%								
2021	-1.4%									

Annual Trend*										
All-Year	2.9%	2.4%	1.8%	1.2%	0.5%	0.2%	0.1%	0.2%	0.4%	1.0%
R ²	0.883	0.919	0.648	0.282	0.059	0.012	0.003	0.006	0.043	0.165
5-Year	7.0%	4.0%	1.9%	0.8%	0.8%	0.9%	0.6%	-0.8%	-2.0%	-0.7%
R ²	0.914	0.974	0.914	0.542	0.322	0.431	0.247	0.397	0.984	0.200

*Trend is based on an exponential distribution.

Source: WCIRB quarterly calls for experience, excluding COVID-19 claims.

Average Paid Medical Loss per Indemnity Claim
As of September 30, 2021

Accident Year	Evaluated as of (in months):									
	9	21	33	45	57	69	81	93	105	117
2003										22,763
2004									20,098	21,117
2005								19,487	20,862	21,819
2006							20,620	22,055	23,223	24,049
2007						21,274	23,307	24,924	26,044	26,969
2008					21,176	23,881	25,925	27,367	28,476	29,311
2009				18,985	22,704	25,526	27,444	28,897	29,929	30,732
2010			14,488	19,311	22,907	25,368	27,264	28,598	29,513	30,283
2011		8,557	13,897	18,255	21,310	23,717	25,330	26,521	27,393	27,945
2012	3,099	8,407	13,393	17,280	20,090	22,200	23,533	24,571	25,288	25,752
2013	3,273	8,065	12,679	16,364	18,951	20,620	21,745	22,490	22,993	
2014	3,051	7,808	12,451	15,980	18,362	19,917	20,997	21,757		
2015	3,107	7,887	12,467	15,924	18,151	19,465	20,458			
2016	3,167	8,090	12,460	15,531	17,501	18,832				
2017	3,358	8,306	12,641	15,560	17,518					
2018	3,524	8,598	13,013	16,234						
2019	3,294	8,333	12,908							
2020	3,432	8,683								
2021	3,417									

Accident Year	Annual Change									
	9	21	33	45	57	69	81	93	105	117
2004										-7.2%
2005									3.8%	3.3%
2006								13.2%	11.3%	10.2%
2007							13.0%	13.0%	12.1%	12.1%
2008						12.3%	11.2%	9.8%	9.3%	8.7%
2009					7.2%	6.9%	5.9%	5.6%	5.1%	4.8%
2010				1.7%	0.9%	-0.6%	-0.7%	-1.0%	-1.4%	-1.5%
2011**			-4.1%	-5.5%	-7.0%	-6.5%	-7.1%	-7.3%	-7.2%	-7.7%
2012**		-1.7%	-3.6%	-5.3%	-5.7%	-6.4%	-7.1%	-7.4%	-7.7%	-7.8%
2013	5.6%	-4.1%	-5.3%	-5.3%	-5.7%	-7.1%	-7.6%	-8.5%	-9.1%	
2014	-6.8%	-3.2%	-1.8%	-2.4%	-3.1%	-3.4%	-3.4%	-3.3%		
2015	1.8%	1.0%	0.1%	-0.4%	-1.1%	-2.3%	-2.6%			
2016	1.9%	2.6%	-0.1%	-2.5%	-3.6%	-3.2%				
2017	6.0%	2.7%	1.5%	0.2%	0.1%					
2018	4.9%	3.5%	2.9%	4.3%						
2019	-6.5%	-3.1%	-0.8%							
2020	4.2%	4.2%								
2021	-0.5%									

Annual Trend*										
All-Year	1.2%	0.4%	-1.1%	-2.4%	-3.1%	-2.7%	-1.3%	0.6%	2.3%	3.4%
R ²	0.570	0.091	0.428	0.793	0.857	0.551	0.128	0.018	0.245	0.546
5-Year	0.1%	1.5%	1.1%	0.1%	-2.0%	-3.8%	-5.3%	-6.9%	-6.6%	-3.5%
R ²	0.003	0.646	0.806	0.005	0.931	0.945	0.951	0.985	0.953	0.613

*Trend is based on an exponential distribution.

**Entries for accident years 2010 and 2011 only reflect the paid cost of medical cost containment programs attributable to policies with effective dates prior to July 1, 2010. Entries for accident years 2012 and subsequent exclude the paid cost of medical cost containment programs.

Source: WCIRB quarterly calls for experience, excluding COVID-19 claims.

Average Paid Medical Loss per Claim**
As of September 30, 2021

Accident Year	Evaluated as of (in months):									
	9	21	33	45	57	69	81	93	105	117
2000										7,088
2001									8,048	8,350
2002								8,193	8,521	8,780
2003							7,476	7,867	8,193	8,487
2004						5,697	6,124	6,487	6,822	7,142
2005					4,924	5,428	5,852	6,194	6,597	6,874
2006				4,734	5,459	6,023	6,504	6,921	7,258	7,505
2007			4,299	5,386	6,212	6,899	7,505	7,985	8,324	8,602
2008		3,299	4,855	6,117	7,145	7,992	8,629	9,089	9,434	9,699
2009	1,582	3,611	5,392	6,909	8,164	9,118	9,773	10,258	10,605	10,877
2010	1,593	3,710	5,615	7,330	8,603	9,483	10,152	10,624	10,953	11,221
2011	1,468	3,563	5,546	7,150	8,288	9,167	9,756	10,203	10,519	10,719
2012	1,452	3,552	5,445	6,919	7,969	8,756	9,256	9,641	9,904	10,067
2013	1,528	3,509	5,323	6,732	7,734	8,367	8,797	9,080	9,264	
2014	1,483	3,438	5,227	6,574	7,473	8,058	8,460	8,734		
2015	1,511	3,476	5,243	6,538	7,375	7,871	8,235			
2016	1,541	3,579	5,279	6,448	7,189	7,684				
2017	1,596	3,558	5,171	6,241	6,953					
2018	1,669	3,699	5,373	6,575						
2019	1,595	3,631	5,404							
2020	1,804	4,154								
2021	1,759									

Accident Year	Annual Change									
	9	21	33	45	57	69	81	93	105	117
2001										17.8%
2002									5.9%	5.1%
2003								-4.0%	-3.8%	-3.3%
2004							-18.1%	-17.5%	-16.7%	-15.9%
2005						-4.7%	-4.4%	-4.5%	-3.3%	-3.7%
2006					10.9%	11.0%	11.1%	11.7%	10.0%	9.2%
2007				13.8%	13.8%	14.5%	15.4%	15.4%	14.7%	14.6%
2008			12.9%	13.6%	15.0%	15.8%	15.0%	13.8%	13.3%	12.8%
2009		9.5%	11.1%	12.9%	14.3%	14.1%	13.3%	12.9%	12.4%	12.1%
2010	0.7%	2.8%	4.1%	6.1%	5.4%	4.0%	3.9%	3.6%	3.3%	3.2%
2011	-7.9%	-4.0%	-1.2%	-2.5%	-3.7%	-3.3%	-3.9%	-4.0%	-4.0%	-4.5%
2012	-1.1%	-0.3%	-1.8%	-3.2%	-3.9%	-4.5%	-5.1%	-5.5%	-5.9%	-6.1%
2013	5.2%	-1.2%	-2.2%	-2.7%	-3.0%	-4.4%	-5.0%	-5.8%	-6.5%	
2014	-2.9%	-2.0%	-1.8%	-2.3%	-3.4%	-3.7%	-3.8%	-3.8%		
2015	1.9%	1.1%	0.3%	-0.5%	-1.3%	-2.3%	-2.7%			
2016	2.0%	3.0%	0.7%	-1.4%	-2.5%	-2.4%				
2017	3.6%	-0.6%	-2.0%	-3.2%	-3.3%					
2018	4.6%	4.0%	3.9%	5.4%						
2019	-4.4%	-1.8%	0.6%							
2020	13.0%	14.4%								
2021	-2.4%									

Annual Trend*										
All-Year	1.2%	0.8%	0.8%	1.4%	2.3%	3.1%	3.1%	2.9%	2.9%	3.3%
R ²	0.476	0.314	0.181	0.197	0.281	0.414	0.431	0.416	0.447	0.547
5-Year	2.8%	3.2%	0.8%	-0.5%	-2.5%	-3.2%	-4.2%	-5.0%	-3.6%	0.6%
R ²	0.593	0.623	0.473	0.110	0.983	0.977	0.984	0.995	0.781	0.025

*Trend is based on an exponential distribution.

**All entries reflect the paid cost of medical cost containment programs.

Source: WCIRB quarterly calls for experience, excluding COVID-19 claims.

Average Paid Indemnity Loss per Closed Indemnity Claim**
As of September 30, 2021

Accident	Evaluated as of (in months):									
Year	9	21	33	45	57	69	81	93	105	117
1996										13,749
1997									15,237	15,520
1998								16,138	16,634	17,192
1999							16,647	17,499	18,236	18,903
2000						16,054	17,462	18,267	19,204	19,921
2001					15,323	17,213	18,351	19,670	20,546	21,148
2002				11,653	14,716	16,365	17,948	18,941	19,678	20,214
2003			7,626	12,038	14,345	16,505	17,719	18,570	19,248	19,867
2004		2,740	6,265	8,986	11,510	12,892	13,858	14,646	15,422	16,308
2005	964	2,439	4,700	7,803	9,896	11,125	12,090	12,961	13,994	14,770
2006	1,223	2,458	5,576	8,433	10,518	12,032	13,293	14,587	15,586	16,353
2007	1,075	2,742	5,996	8,987	11,289	13,014	14,649	15,997	16,963	17,884
2008	1,207	3,139	6,507	9,898	12,583	14,930	16,671	17,987	18,986	19,812
2009	1,450	3,248	6,845	10,397	13,498	15,871	17,713	19,175	20,153	20,991
2010	1,203	3,225	6,970	10,887	13,950	16,259	18,002	19,359	20,263	20,970
2011	1,273	3,578	7,497	11,402	14,297	16,481	18,073	19,253	20,180	20,800
2012	1,458	3,921	8,098	11,815	14,510	16,617	18,011	19,129	19,896	20,418
2013	1,637	4,373	8,426	12,169	14,896	16,700	17,922	18,826	19,430	
2014	1,629	4,544	9,040	12,961	15,773	17,580	18,771	19,564		
2015	1,724	4,994	9,808	13,718	16,380	17,965	19,017			
2016	1,851	5,368	9,913	13,684	16,002	17,485				
2017	1,969	5,399	10,078	13,642	15,955					
2018	2,136	5,795	10,319	13,865						
2019	2,312	6,043	10,346							
2020	3,373	6,308								
2021	2,333									

Accident	Annual Change									
Year	9	21	33	45	57	69	81	93	105	117
1997										12.9%
1998									9.2%	10.8%
1999								8.4%	9.6%	10.0%
2000							4.9%	4.4%	5.3%	5.4%
2001						7.2%	5.1%	7.7%	7.0%	6.2%
2002					-4.0%	-4.9%	-2.2%	-3.7%	-4.2%	-4.4%
2003				3.3%	-2.5%	0.9%	-1.3%	-2.0%	-2.2%	-1.7%
2004			-17.8%	-25.4%	-19.8%	-21.9%	-21.8%	-21.1%	-19.9%	-17.9%
2005		-11.0%	-25.0%	-13.2%	-14.0%	-13.7%	-12.8%	-11.5%	-9.3%	-9.4%
2006	26.8%	0.8%	18.6%	8.1%	6.3%	8.2%	10.0%	12.6%	11.4%	10.7%
2007	-12.1%	11.5%	7.5%	6.6%	7.3%	8.2%	10.2%	9.7%	8.8%	9.4%
2008	12.3%	14.5%	8.5%	10.1%	11.5%	14.7%	13.8%	12.4%	11.9%	10.8%
2009	20.1%	3.5%	5.2%	5.0%	7.3%	6.3%	6.3%	6.6%	6.1%	6.0%
2010	-17.0%	-0.7%	1.8%	4.7%	3.4%	2.4%	1.6%	1.0%	0.5%	-0.1%
2011	5.8%	10.9%	7.6%	4.7%	2.5%	1.4%	0.4%	-0.6%	-0.4%	-0.8%
2012	14.6%	9.6%	8.0%	3.6%	1.5%	0.8%	-0.3%	-0.6%	-1.4%	-1.8%
2013	12.2%	11.5%	4.0%	3.0%	2.7%	0.5%	-0.5%	-1.6%	-2.3%	
2014	-0.5%	3.9%	7.3%	6.5%	5.9%	5.3%	4.7%	3.9%		
2015	5.8%	9.9%	8.5%	5.8%	3.9%	2.2%	1.3%			
2016	7.4%	7.5%	1.1%	-0.2%	-2.3%	-2.7%				
2017	6.3%	0.6%	1.7%	-0.3%	-0.3%					
2018	8.5%	7.3%	2.4%	1.6%						
2019	8.3%	4.3%	0.3%							
2020	45.9%	4.4%								
2021	-30.8%									

Annual Trend*										
All-Year	6.3%	6.5%	4.2%	2.7%	1.6%	1.1%	0.8%	0.7%	0.9%	1.4%
R ²	0.887	0.971	0.770	0.525	0.267	0.149	0.094	0.090	0.137	0.261
5-Year	8.3%	4.5%	1.5%	1.3%	1.5%	1.8%	1.4%	0.0%	-0.9%	0.5%
R ²	0.372	0.961	0.960	0.600	0.458	0.659	0.701	0.000	0.715	0.111

*Trend is based on an exponential distribution.

**Paid indemnity losses used in the severity calculations above represent paid indemnity losses on closed claims only.

Source: WCIRB quarterly calls for experience, excluding COVID-19 claims.

Average Paid Medical Loss per Closed Indemnity Claim***
As of September 30, 2021

Accident Year	Evaluated as of (in months):									
	9	21	33	45	57	69	81	93	105	117
2003										18,576
2004									15,595	16,919
2005								14,669	16,272	17,634
2006							15,229	17,048	18,568	19,872
2007						15,079	17,399	19,535	21,229	22,834
2008					14,439	17,675	20,215	22,220	23,915	25,258
2009				12,272	16,109	19,395	22,141	24,295	25,838	27,298
2010			8,605	13,133	17,028	20,097	22,733	24,857	26,275	27,316
2011		4,169	8,427	12,850	16,426	19,664	21,884	23,641	24,930	25,738
2012	1,817	4,479	8,868	12,912	16,192	18,776	20,601	22,046	23,112	23,751
2013	1,999	4,791	8,842	12,746	15,925	18,075	19,530	20,597	21,276	
2014	1,941	4,834	9,051	12,825	15,753	17,707	19,053	19,877		
2015	2,012	5,159	9,483	13,108	15,715	17,394	18,486			
2016	2,161	5,459	9,473	12,782	15,055	16,529				
2017	2,243	5,579	9,769	12,846	14,985					
2018	2,416	5,761	10,022	13,302						
2019	2,381	5,770	9,875							
2020	2,324	5,839								
2021	2,344									

Accident Year	Annual Change									
	9	21	33	45	57	69	81	93	105	117
2004										-8.9%
2005									4.3%	4.2%
2006								16.2%	14.1%	12.7%
2007							14.3%	14.6%	14.3%	14.9%
2008						17.2%	16.2%	13.7%	12.6%	10.6%
2009					11.6%	9.7%	9.5%	9.3%	8.0%	8.1%
2010				7.0%	5.7%	3.6%	2.7%	2.3%	1.7%	0.1%
2011**			-2.1%	-2.2%	-3.5%	-2.2%	-3.7%	-4.9%	-5.1%	-5.8%
2012**		7.4%	5.2%	0.5%	-1.4%	-4.5%	-5.9%	-6.7%	-7.3%	-7.7%
2013	10.0%	7.0%	-0.3%	-1.3%	-1.7%	-3.7%	-5.2%	-6.6%	-7.9%	
2014	-2.9%	0.9%	2.4%	0.6%	-1.1%	-2.0%	-2.4%	-3.5%		
2015	3.7%	6.7%	4.8%	2.2%	-0.2%	-1.8%	-3.0%			
2016	7.4%	5.8%	-0.1%	-2.5%	-4.2%	-5.0%				
2017	3.8%	2.2%	3.1%	0.5%	-0.5%					
2018	7.7%	3.3%	2.6%	3.6%						
2019	-1.4%	0.2%	-1.5%							
2020	-2.4%	1.2%								
2021	0.9%									

Annual Trend*										
All-Year	3.0%	3.8%	2.0%	0.4%	-0.4%	-0.1%	1.2%	3.0%	4.6%	5.2%
R ²	0.847	0.940	0.934	0.251	0.066	0.001	0.086	0.291	0.533	0.710
5-Year	0.5%	1.7%	1.4%	0.5%	-1.7%	-2.9%	-4.1%	-5.7%	-5.0%	-1.8%
R ²	0.076	0.911	0.759	0.236	0.881	0.966	0.965	0.990	0.872	0.241

*Trend is based on an exponential distribution.

**Entries for accident years 2010 and 2011 only reflect the paid cost of medical cost containment programs attributable to policies with effective dates prior to July 1, 2010. Entries for accident years 2012 and subsequent exclude the paid cost of medical cost containment programs.

***Paid medical losses used in the severity calculations above represent paid medical losses on closed indemnity claims only.

Source: WCIRB quarterly calls for experience, excluding COVID-19 claims.

Ratio of Incremental Paid Indemnity to Indemnity Claims Open During the Period
As of September 30, 2021

Accident	Evaluated as of (in months):									
Year	0-9	9-21	21-33	33-45	45-57	57-69	69-81	81-93	93-105	105-117
1996										6,566
1997									6,927	4,478
1998								7,893	6,167	6,895
1999							8,508	6,591	6,914	6,642
2000						8,655	6,840	7,517	6,711	5,911
2001					9,534	7,532	7,185	6,200	5,963	5,402
2002				9,678	8,001	6,935	6,464	5,943	5,081	5,124
2003			9,843	8,723	7,569	6,758	6,099	5,616	5,905	6,635
2004		5,398	7,123	6,808	5,921	5,724	5,610	5,847	6,393	7,342
2005	1,888	4,914	6,352	6,157	5,856	5,652	5,580	6,085	7,173	6,927
2006	2,016	5,067	7,234	6,572	6,576	6,670	6,996	6,944	7,110	6,307
2007	2,122	5,547	7,702	7,291	7,227	7,239	7,259	7,495	6,756	8,054
2008	2,321	6,023	8,279	8,431	8,222	7,795	7,502	7,289	6,768	7,402
2009	2,363	6,066	8,566	8,523	8,306	8,023	7,802	7,665	8,178	8,367
2010	2,330	6,091	8,619	8,828	8,433	8,157	8,171	7,953	8,142	8,569
2011	2,373	6,232	8,849	8,578	8,240	8,162	8,218	8,839	9,332	8,160
2012	2,458	6,315	8,729	8,649	8,257	9,082	8,157	8,674	8,858	7,868
2013	2,462	6,293	8,677	9,017	8,738	8,394	7,938	8,055	8,529	
2014	2,435	6,347	9,560	9,772	9,483	9,265	8,622	8,352		
2015	2,437	6,716	10,008	10,444	10,109	9,162	9,371			
2016	2,574	6,891	10,134	10,631	9,887	9,699				
2017	2,602	7,092	10,808	10,751	10,425					
2018	2,783	7,412	10,752	10,682						
2019	2,909	7,691	10,736							
2020	3,364	7,957								
2021	3,316									

Accident	Annual Change									
Year	0-9	9-21	21-33	33-45	45-57	57-69	69-81	81-93	93-105	105-117
1997										-31.8%
1998									-11.0%	54.0%
1999								-16.5%	12.1%	-3.7%
2000							-19.6%	14.0%	-2.9%	-11.0%
2001						-13.0%	5.0%	-17.5%	-11.1%	-8.6%
2002					-16.1%	-7.9%	-10.0%	-4.1%	-14.8%	-5.2%
2003				-9.9%	-5.4%	-2.6%	-5.6%	-5.5%	16.2%	29.5%
2004			-27.6%	-21.9%	-21.8%	-15.3%	-8.0%	4.1%	8.3%	10.7%
2005		-9.0%	-10.8%	-9.6%	-1.1%	-1.3%	-0.5%	4.1%	12.2%	-5.7%
2006	6.8%	3.1%	13.9%	6.7%	12.3%	18.0%	25.4%	14.1%	-0.9%	-9.0%
2007	5.3%	9.5%	6.5%	10.9%	9.9%	8.5%	3.7%	7.9%	-5.0%	27.7%
2008	9.3%	8.6%	7.5%	15.6%	13.8%	7.7%	3.3%	-2.8%	0.2%	-8.1%
2009	1.8%	0.7%	3.5%	1.1%	1.0%	2.9%	4.0%	5.2%	20.8%	13.0%
2010	-1.4%	0.4%	0.6%	3.6%	1.5%	1.7%	4.7%	3.8%	-0.4%	2.4%
2011	1.8%	2.3%	2.7%	-2.8%	-2.3%	0.1%	0.6%	11.1%	14.6%	-4.8%
2012	3.6%	1.3%	-1.3%	0.8%	0.2%	11.3%	-0.7%	-1.9%	-5.1%	-3.6%
2013	0.1%	-0.4%	-0.6%	4.3%	5.8%	-7.6%	-2.7%	-7.1%	-3.7%	
2014	-1.1%	0.9%	10.2%	8.4%	8.5%	10.4%	8.6%	3.7%		
2015	0.1%	5.8%	4.7%	6.9%	6.6%	-1.1%	8.7%			
2016	5.6%	2.6%	1.3%	1.8%	-2.2%	5.9%				
2017	1.1%	2.9%	6.7%	1.1%	5.4%					
2018	7.0%	4.5%	-0.5%	-0.6%						
2019	4.5%	3.8%	-0.2%							
2020	15.6%	3.5%								
2021	-1.4%									

Annual Trend*										
All-Year	2.9%	2.7%	2.5%	2.4%	2.2%	2.1%	1.8%	1.8%	2.3%	2.6%
R ²	0.883	0.930	0.625	0.498	0.404	0.437	0.356	0.379	0.535	0.528
5-Year	7.0%	3.8%	2.0%	2.1%	4.0%	2.2%	3.2%	0.0%	1.7%	1.0%
R ²	0.914	0.997	0.732	0.705	0.834	0.438	0.594	0.000	0.216	0.072

*Trend is based on an exponential distribution.

Source: WCIRB quarterly calls for experience

Ratio of Incremental Paid Medical to Indemnity Claims Open During the Period**
As of September 30, 2021

Accident	Evaluated as of (in months):									
Year	0-9	9-21	21-33	33-45	45-57	57-69	69-81	81-93	93-105	105-117
2003										10,548
2004									10,882	12,804
2005								9,703	14,201	12,808
2006							10,553	11,611	12,310	11,488
2007						10,950	12,401	13,203	12,336	12,943
2008					11,018	12,209	12,610	12,255	12,285	12,516
2009				10,600	11,945	12,516	11,761	11,953	11,698	12,277
2010			9,655	11,564	12,069	11,871	12,540	12,536	11,916	13,402
2011		7,687	9,763	10,746	10,908	12,115	11,526	12,255	12,656	11,042
2012	3,099	7,600	9,230	9,997	10,333	11,328	10,640	11,920	11,746	10,426
2013	3,273	7,070	8,603	9,506	10,128	9,922	10,129	9,964	9,723	
2014	3,051	6,921	8,645	9,476	9,853	10,177	10,573	10,747		
2015	3,107	6,966	8,693	9,799	10,234	9,759	10,656			
2016	3,167	7,188	8,725	9,434	10,046	10,332				
2017	3,358	7,372	9,026		10,217					
2018	3,524	7,638	9,341	10,194						
2019	3,294	7,494	9,344							
2020	3,432	7,823								
2021	3,417									

Accident	Annual Change									
Year	0-9	9-21	21-33	33-45	45-57	57-69	69-81	81-93	93-105	105-117
2004										21.4%
2005									30.5%	0.0%
2006								19.7%	-13.3%	-10.3%
2007							17.5%	13.7%	0.2%	12.7%
2008						11.5%	1.7%	-7.2%	-0.4%	-3.3%
2009					8.4%	2.5%	-6.7%	-2.5%	-4.8%	-1.9%
2010				9.1%	1.0%	-5.2%	6.6%	4.9%	1.9%	9.2%
2011**			1.1%	-7.1%	-9.6%	2.1%	-8.1%	-2.2%	6.2%	-17.6%
2012**		-1.1%	-5.5%	-7.0%	-5.3%	-6.5%	-7.7%	-2.7%	-7.2%	-5.6%
2013	5.6%	-7.0%	-6.8%	-4.9%	-2.0%	-12.4%	-4.8%	-16.4%	-17.2%	
2014	-6.8%	-2.1%	0.5%	-0.3%	-2.7%	2.6%	4.4%	7.9%		
2015	1.8%	0.6%	0.6%	3.4%	3.9%	-4.1%	0.8%			
2016	1.9%	3.2%	0.4%	-3.7%	-1.8%	5.9%				
2017	6.0%	2.6%	3.5%	3.2%	1.7%					
2018	4.9%	3.6%	3.5%	4.7%						
2019	-6.5%	-1.9%	0.0%							
2020	4.2%	4.4%								
2021	-0.5%									

Annual Trend*										
All-Year	1.2%	0.4%	-0.4%	-1.4%	-1.8%	-2.2%	-1.5%	-0.4%	-1.4%	-0.5%
R ²	0.570	0.078	0.069	0.397	0.599	0.540	0.310	0.013	0.192	0.023
5-Year	0.1%	1.9%	2.2%	1.4%	0.4%	-2.0%	-1.6%	-5.0%	-3.8%	-4.6%
R ²	0.003	0.819	0.916	0.505	0.142	0.298	0.306	0.702	0.375	0.546

*Trend is based on an exponential distribution.

**Entries for accident years 2010 and 2011 only reflect the paid cost of medical cost containment programs attributable to policies with effective dates prior to July 1, 2010. Entries for accident years 2012 and subsequent exclude the paid cost of medical cost containment programs.

Source: WCIRB quarterly calls for experience

Ratio of Quarterly Paid Medical to Indemnity Claims Inventory*
Through September 30, 2021

Development Period	Evaluation Years									
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
3/0	1,396	1,403	1,511	1,675	1,582	1,938	1,951	2,085	2,055	1,410
6/3	2,661	2,690	2,572	2,885	2,869	3,088	3,196	2,993	2,929	3,108
9/6	2,803	2,930	2,768	2,765	2,920	3,019	3,305	2,997	2,663	2,916
12/9	2,900	2,700	2,672	2,638	2,875	3,064	3,178	3,198	2,820	
12/0	5,466	5,414	5,294	5,382	5,662	5,984	6,236	5,970	5,192	
12/0 (Excl COVID)									5,483	
15/12	3,005	2,942	2,752	2,811	2,817	3,090	3,145	3,238	3,144	2,906
18/15	2,903	2,843	2,535	2,542	2,705	2,781	2,874	2,875	2,693	3,042
21/18	2,713	2,626	2,537	2,525	2,555	2,544	2,705	2,811	2,638	2,939
24/21	2,783	2,658	2,473	2,449	2,567	2,638	2,689	2,987	2,765	
24/12	9,250	8,930	8,335	8,302	8,473	8,654	8,881	9,213	8,838	
27/24	2,689	2,775	2,620	2,526	2,548	2,669	2,614	2,879	2,881	2,792
30/27	2,948	2,924	2,777	2,762	2,814	2,816	2,876	2,887	2,704	3,067
33/30	3,041	2,970	2,933	2,742	2,763	2,723	2,919	2,981	3,027	3,022
36/33	3,370	3,093	2,883	2,851	2,874	2,861	2,885	3,083	3,149	
36/24	10,497	10,198	9,635	9,277	9,299	9,211	9,275	9,652	9,748	
39/36	3,019	3,217	2,973	3,011	2,796	2,849	2,927	2,921	3,079	3,000
42/39	3,124	3,488	3,255	3,108	2,896	3,080	3,274	3,016	2,716	3,182
45/42	3,246	3,387	3,477	3,117	3,011	2,817	3,055	3,091	3,056	3,234
48/45	3,411	3,579	3,226	3,027	3,236	2,965	3,208	3,302	3,076	
48/36	11,224	11,867	11,148	10,535	10,060	9,842	10,305	10,033	9,949	

Development Period	Year-to-Year Change									
	11-to-12	12-to-13	13-to-14	14-to-15	15-to-16	16-to-17	17-to-18	18-to-19	19-to-20	20-to-21
3/0	-11.4%	0.5%	7.7%	10.9%	-5.5%	22.5%	0.7%	6.9%	-1.5%	-31.4%
6/3	-7.0%	1.1%	-4.4%	12.2%	-0.5%	7.7%	3.5%	-6.4%	-2.1%	6.1%
9/6	0.4%	4.5%	-5.6%	-0.1%	5.6%	3.4%	9.5%	-9.3%	-11.2%	9.5%
12/9	5.3%	-6.9%	-1.0%	-1.3%	9.0%	6.6%	3.7%	0.6%	-11.8%	
12/0	-0.3%	-1.0%	-2.2%	1.7%	5.2%	5.7%	4.2%	-4.3%	-13.0%	
12/0 (Excl COVID)										
15/12	-3.3%	-2.1%	-6.5%	2.1%	0.2%	9.7%	1.8%	3.0%	-2.9%	-7.6%
18/15	0.0%	-2.1%	-10.8%	0.3%	6.4%	2.8%	3.4%	0.0%	-6.3%	13.0%
21/18	-1.2%	-3.2%	-3.4%	-0.5%	1.2%	-0.4%	6.3%	3.9%	-6.2%	11.4%
24/21	3.4%	-4.5%	-6.9%	-1.0%	4.8%	2.8%	1.9%	11.1%	-7.4%	
24/12	-1.5%	-3.5%	-6.7%	-0.4%	2.1%	2.1%	2.6%	3.7%	-4.1%	
27/24	4.9%	3.2%	-5.6%	-3.6%	0.9%	4.8%	-2.1%	10.1%	0.1%	-3.1%
30/27	3.2%	-0.8%	-5.0%	-0.5%	1.9%	0.1%	2.1%	0.4%	-6.3%	13.4%
33/30	4.4%	-2.3%	-1.2%	-6.5%	0.8%	-1.4%	7.2%	2.1%	1.6%	-0.1%
36/33	16.6%	-8.2%	-6.8%	-1.1%	0.8%	-0.5%	0.9%	6.8%	2.1%	
36/24	6.5%	-2.9%	-5.5%	-3.7%	0.2%	-1.0%	0.7%	4.1%	1.0%	
39/36	12.6%	6.6%	-7.6%	1.3%	-7.1%	1.9%	2.7%	-0.2%	5.4%	-2.6%
42/39	6.1%	11.7%	-6.7%	-4.5%	-6.8%	6.3%	6.3%	-7.9%	-9.9%	17.2%
45/42	5.3%	4.4%	2.7%	-10.4%	-3.4%	-6.4%	8.5%	1.1%	-1.1%	5.8%
48/45	11.0%	4.9%	-9.9%	-6.2%	6.9%	-8.4%	8.2%	2.9%	-6.9%	
48/36	8.8%	5.7%	-6.1%	-5.5%	-4.5%	-2.2%	4.7%	-2.6%	-0.8%	

* Indemnity claim inventory is the sum of indemnity claims open at the beginning of the development period and newly-reported indemnity claims during that period.

Source: WCIRB accident year experience calls. Evaluation year 2021 excludes COVID-19 claim experience.

Estimated Ultimate Severities by Injury Type

Accident Year	Ultimate Indemnity Severity		Indemnity Severity Adjusted to Sept 1, 2021 Benefit Level		Accident Year	Ultimate Medical Severity**			Medical Severity Adjusted to Sept 1, 2021 Benefit Level**		
	Permanent	Temporary	Permanent	Temporary		Permanent	Temporary	Medical	Permanent	Temporary	Medical
	Partial		Partial			Partial		Only	Partial		Only
2004	35,999	4,186	38,751	6,329	2004	47,488	5,550	840	26,611	3,110	471
2005	34,740	3,876	39,469	5,721	2005	53,513	5,482	852	31,144	3,191	496
2006	37,432	3,901	67,882	5,596	2006	57,603	5,669	879	35,171	3,461	537
2007	39,978	4,193	66,433	5,832	2007	62,610	6,476	960	50,567	5,230	775
2008	42,146	4,753	67,625	6,507	2008	64,542	7,289	1,036	52,127	5,887	837
2009	42,037	5,441	61,256	7,338	2009	63,662	8,287	1,154	51,212	6,666	928
2010	40,889	6,327	58,516	8,365	2010	61,714	9,325	1,180	48,718	7,361	932
2011	39,145	6,778	55,050	8,794	2011	55,660	9,322	1,135	43,763	7,329	892
2012	38,356	7,298	52,832	9,274	2012	51,220	9,345	1,131	40,112	7,319	886
2013	36,473	7,736	49,804	9,738	2013	45,935	9,164	1,162	35,865	7,155	907
2014	38,549	7,720	50,128	9,526	2014	44,428	8,779	1,220	35,655	7,045	979
2015	38,869	7,799	45,114	9,248	2015	43,109	8,699	1,248	36,343	7,334	1,052
2016	38,467	8,098	44,098	9,458	2016	42,345	8,682	1,303	39,233	8,044	1,207
2017	39,796	8,225	44,540	9,355	2017	43,782	8,617	1,310	43,116	8,486	1,290
2018	42,349	8,802	46,192	9,716	2018	46,308	9,090	1,376	46,632	9,154	1,386
2019	43,643	9,582	46,224	10,230	2019	46,198	9,642	1,361	46,475	9,700	1,370
2020*	43,709	10,115	45,377	10,551	2020*	44,933	9,461	1,535	45,203	9,518	1,544

Accident Year	Annual Change		Annual Change		Accident Year	Annual Change			Annual Change		
2004	---	---	---	---	2004	---	---	---	---	---	---
2005	-3.5%	-7.4%	1.9%	-9.6%	2005	12.7%	-1.2%	1.5%	17.0%	2.6%	5.4%
2006	7.8%	0.7%	72.0%	-2.2%	2006	7.6%	3.4%	3.1%	12.9%	8.5%	8.2%
2007	6.8%	7.5%	-2.1%	4.2%	2007	8.7%	14.2%	9.2%	43.8%	51.1%	44.5%
2008	5.4%	13.4%	1.8%	11.6%	2008	3.1%	12.6%	7.9%	3.1%	12.6%	7.9%
2009	-0.3%	14.5%	-9.4%	12.8%	2009	-1.4%	13.7%	11.4%	-1.8%	13.2%	10.9%
2010	-2.7%	16.3%	-4.5%	14.0%	2010	-3.1%	12.5%	2.3%	-4.9%	10.4%	0.4%
2011	-4.3%	7.1%	-5.9%	5.1%	2011	-9.8%	0.0%	-3.9%	-10.2%	-0.4%	-4.2%
2012	-2.0%	7.7%	-4.0%	5.4%	2012	-8.0%	0.3%	-0.4%	-8.3%	-0.1%	-0.8%
2013	-4.9%	6.0%	-5.7%	5.0%	2013	-10.3%	-1.9%	2.7%	-10.6%	-2.2%	2.4%
2014	5.7%	-0.2%	0.7%	-2.2%	2014	-3.3%	-4.2%	5.0%	-0.6%	-1.5%	7.9%
2015	0.8%	1.0%	-10.0%	-2.9%	2015	-3.0%	-0.9%	2.3%	1.9%	4.1%	7.5%
2016	-1.0%	3.8%	-2.3%	2.3%	2016	-1.8%	-0.2%	4.4%	8.0%	9.7%	14.7%
2017	3.5%	1.6%	1.0%	-1.1%	2017	3.4%	-0.7%	0.5%	9.9%	5.5%	6.9%
2018	6.4%	7.0%	3.7%	3.9%	2018	5.8%	5.5%	5.1%	8.2%	7.9%	7.5%
2019	3.1%	8.9%	0.1%	5.3%	2019	-0.2%	6.1%	-1.1%	-0.3%	6.0%	-1.2%
2020*	0.2%	5.6%	-1.8%	3.1%	2020*	-2.7%	-1.9%	12.7%	-2.7%	-1.9%	12.7%

* Accident year 2020 experience is partial in that it only reflects experience from policy year 2019.

** Entries for accident years 2010 and 2011 only reflect the paid cost of medical cost containment programs attributable to policies with effective dates prior to July 1, 2010. Entries for accident year 2012 and forward exclude the paid cost of medical cost containment programs.

Source: WCIRB unit statistical data

***COVID-19 claims have been excluded

Changes in the Number of Weeks of Temporary Disability Benefits On Open Claims

First Survey Level

Accident Year	Average TD Duration	Change	Median TD Duration	Change
2004	51.4	-----	39.2	-----
2005	56.7	10.3%	46.5	18.5%
2006	59.0	4.2%	49.6	6.8%
2007	63.1	6.9%	56.2	13.3%
2008	67.4	6.8%	63.4	12.8%
2009	64.8	-3.8%	58.5	-7.7%
2010	61.7	-4.7%	55.0	-6.1%
2011	59.6	-3.6%	48.8	-11.2%
2012	58.7	-1.4%	49.6	1.6%
2013	56.0	-4.6%	49.5	0.0%
2014	55.9	-0.2%	50.3	1.6%
2015	43.2	-22.8%	36.5	-27.5%
2016	42.3	-2.0%	33.4	-8.3%
2017	45.2	6.8%	36.5	9.3%
2018	46.9	3.8%	39.0	6.7%
2019	44.7	-4.7%	36.3	-6.9%

Second Survey Level

Accident Year	Average TD Duration	Change	Median TD Duration	Change
2003	54.5	-----	43.3	-----
2004	51.9	-4.7%	41.8	-3.5%
2005	57.1	9.9%	50.4	20.8%
2006	58.6	2.6%	51.2	1.4%
2007	64.0	9.2%	58.4	14.1%
2008	69.2	8.2%	66.7	14.4%
2009	66.2	-4.3%	61.9	-7.3%
2010	60.8	-8.2%	56.0	-9.5%
2011	62.4	2.5%	52.8	-5.7%
2012	58.1	-6.8%	52.0	-1.5%
2013	59.4	2.3%	52.8	1.5%
2014	52.9	-11.0%	46.9	-11.2%
2015	48.7	-7.9%	41.9	-10.7%
2016	50.1	2.9%	45.8	9.3%

Source: WCIRB Permanent Disability Claim Survey
Data is recast from survey proportions to true proportions.

Average Permanent Disability Ratings by Type of Loss

All Permanent Disability Claims						Cumulative Permanent Disability Claims						Non-Cumulative Permanent Disability Claims					
Average Permanent Disability Rating						Average Permanent Disability Rating						Average Permanent Disability Rating					
PY/RL	1	2	3	4	5	PY/RL	1	2	3	4	5	PY/RL	1	2	3	4	5
2002	18.7	23.5	24.7	25.4	25.2	2002	16.9	20.4	21.4	22.0	22.1	2002	18.9	23.9	25.2	25.8	25.6
2003	19.8	22.0	23.2	23.0	22.6	2003	17.4	19.1	20.2	20.1	19.9	2003	20.0	22.3	23.6	23.3	23.0
2004	16.3	18.2	18.8	18.4	18.2	2004	15.0	16.0	16.7	16.4	16.7	2004	16.4	18.4	19.1	18.6	18.4
2005	12.5	14.6	15.8	16.1	16.9	2005	11.0	12.7	14.4	15.3	16.4	2005	12.6	14.8	15.9	16.2	16.9
2006	11.8	14.2	15.5	16.6	17.2	2006	10.3	12.7	14.6	16.0	16.7	2006	12.0	14.4	15.6	16.7	17.2
2007	12.0	14.6	16.6	17.5	18.1	2007	10.9	13.5	15.5	16.7	17.6	2007	12.1	14.7	16.7	17.6	18.2
2008	12.8	15.5	17.3	18.2	18.3	2008	12.4	14.4	16.1	17.4	17.6	2008	12.9	15.7	17.4	18.3	18.4
2009	12.5	15.2	16.8	17.3	17.3	2009	11.5	14.0	15.8	16.2	16.6	2009	12.6	15.3	16.9	17.4	17.4
2010	12.7	15.0	15.8	16.1	16.6	2010	12.4	14.9	15.4	15.7	16.4	2010	12.7	15.0	15.9	16.2	16.6
2011	12.6	14.4	15.1	15.8	16.3	2011	11.8	13.4	14.2	14.8	15.6	2011	12.7	14.5	15.2	15.9	16.5
2012	11.7	13.0	14.1	14.9	15.3	2012	10.9	12.1	13.1	13.9	14.3	2012	11.8	13.2	14.3	15.1	15.5
2013	11.2	12.8	13.8	14.4	14.8	2013	10.3	11.5	12.4	13.0	13.6	2013	11.3	13.1	14.1	14.7	15.1
2014	10.7	12.2	13.4	14.0	14.4	2014	10.1	10.9	12.0	12.8	13.4	2014	10.9	12.5	13.7	14.3	14.7
2015	10.1	12.0	13.1	13.7	14.1	2015	9.4	11.0	12.0	12.8	13.3	2015	10.3	12.2	13.3	13.9	14.3
2016	10.1	11.7	12.7	13.2		2016	9.0	10.1	10.8	11.5		2016	10.4	12.1	13.2	13.7	
2017	10.0	11.7	12.9			2017	9.2	10.6	11.7			2017	10.2	12.0	13.1		
2018	10.0	11.6				2018	9.2	10.4				2018	10.2	11.9			
2019	10.2					2019	9.2					2019	10.4				

Count of Permanent Disability Claims						Count of Permanent Disability Claims						Count of Permanent Disability Claims					
PY/RL	1	2	3	4	5	PY/RL	1	2	3	4	5	PY/RL	1	2	3	4	5
2002	84,211	96,994	101,877	102,617	103,228	2002	9,284	11,078	11,784	11,975	12,161	2002	74,927	85,916	90,093	90,642	91,067
2003	72,753	83,307	85,811	87,080	88,430	2003	7,824	9,320	9,756	10,101	10,348	2003	64,929	73,987	76,055	76,979	78,082
2004	55,724	62,004	65,470	67,410	70,372	2004	5,130	6,060	6,722	7,227	7,958	2004	50,594	55,944	58,748	60,183	62,414
2005	45,067	53,120	56,970	60,958	61,722	2005	3,463	4,592	5,383	6,197	6,621	2005	41,604	48,528	51,587	54,761	55,101
2006	42,384	51,362	57,892	59,647	60,965	2006	3,324	4,721	5,677	6,216	6,585	2006	39,060	46,641	52,215	53,431	54,380
2007	40,159	53,324	57,504	60,145	61,007	2007	3,256	4,816	5,797	6,326	6,596	2007	36,903	48,508	51,707	53,819	54,411
2008	39,867	50,766	56,318	58,294	59,068	2008	3,414	5,047	6,109	6,595	6,925	2008	36,453	45,719	50,209	51,699	52,143
2009	38,727	50,679	55,149	56,650	58,566	2009	3,782	5,585	6,624	7,273	7,823	2009	34,945	45,094	48,525	49,377	50,743
2010	39,833	51,715	56,323	58,831	59,820	2010	3,985	5,767	6,780	7,643	8,197	2010	35,848	45,948	49,543	51,188	51,623
2011	41,715	53,010	57,939	60,117	61,957	2011	4,230	6,243	7,635	8,495	9,176	2011	37,485	46,767	50,304	51,622	52,781
2012	41,005	53,428	59,482	62,494	64,484	2012	4,991	7,478	9,052	10,091	10,686	2012	36,014	45,950	50,430	52,403	53,798
2013	41,949	56,146	63,704	66,925	67,728	2013	6,327	9,358	11,179	12,012	12,233	2013	35,622	46,788	52,525	54,913	55,495
2014	45,032	59,647	66,334	68,430	69,542	2014	7,173	10,608	11,918	12,437	12,693	2014	37,859	49,039	54,416	55,993	56,849
2015	46,233	60,767	66,093	68,641	69,819	2015	7,905	11,031	12,081	12,574	12,800	2015	38,328	49,736	54,012	56,067	57,019
2016	45,982	59,967	66,245	68,846		2016	8,387	12,670	14,023	14,575		2016	37,595	47,297	52,222	54,271	
2017	43,749	57,642	63,520			2017	7,351	9,947	10,912			2017	36,398	47,695	52,608		
2018	44,114	58,422				2018	7,507	10,190				2018	36,607	48,232			
2019	41,615					2019	8,054					2019	33,561				

Median Permanent Disability Rating						Median Permanent Disability Rating						Median Permanent Disability Rating					
PY/RL	1	2	3	4	5	PY/RL	1	2	3	4	5	PY/RL	1	2	3	4	5
2002	15.0	19.5	22.0	22.0	21.5	2002	14.5	15.5	17.5	18.0	19.0	2002	16.0	20.5	22.0	22.5	23.0
2003	17.0	19.0	20.0	19.5	19.5	2003	14.5	14.5	14.5	15.0	14.5	2003	17.0	19.0	20.0	20.0	19.5
2004	12.5	14.5	14.5	14.5	14.5	2004	10.5	11.5	12.5	12.0	12.5	2004	12.5	14.5	14.5	15.0	14.5
2005	10.0	9.5	11.5	11.5	12.5	2005	8.0	9.5	10.0	11.0	12.0	2005	9.5	10.5	12.0	12.0	13.0
2006	8.5	9.5	11.5	13.0	13.0	2006	6.5	9.0	10.0	10.5	12.0	2006	8.5	10.0	12.0	13.0	12.5
2007	9.0	10.5	12.5	13.0	14.0	2007	7.5	9.5	11.0	11.5	11.5	2007	9.0	10.5	13.0	14.0	14.0
2008	10.0	10.5	12.5	13.5	13.5	2008	8.5	10.0	11.0	12.0	12.0	2008	10.0	12.0	13.0	14.0	14.0
2009	10.0	11.0	13.0	12.5	12.5	2009	9.5	10.0	10.5	12.0	12.0	2009	10.0	10.5	13.0	14.0	14.0
2010	10.0	11.0	12.0	13.0	12.5	2010	10.0	11.0	10.5	12.0	12.0	2010	9.5	10.5	12.0	12.5	13.0
2011	10.0	10.5	12.0	13.0	13.0	2011	9.5	10.0	11.0	11.0	11.5	2011	10.0	11.0	11.5	12.5	13.0
2012	10.0	9.5	10.5	11.5	11.5	2012	9.0	9.5	9.5	10.0	9.5	2012	9.5	9.5	10.5	12.0	11.5
2013	9.0	9.5	9.5	11.0	10.5	2013	8.0	8.5	10.0	9.5	10.0	2013	8.5	9.5	11.0	11.0	12.0
2014	7.5	10.0	9.5	9.5	10.5	2014	8.0	7.5	8.5	10.0	10.0	2014	9.0	10.0	9.5	11.0	11.0
2015	8.0	10.0	10.0	10.0	10.0	2015	7.0	8.0	9.0	9.5	9.5	2015	7.5	9.5	9.5	10.0	10.0
2016	7.5	10.0	10.0	9.5		2016	7.0	7.5	9.0	9.0		2016	8.0	10.0	9.5	10.0	
2017	8.0	9.5	9.5			2017	7.0	8.0	8.5			2017	7.5	10.0	9.5		
2018	7.5	9.5				2018	8.0	7.5				2018	8.0	9.5			
2019	8.0					2019	7.5					2019	9.0				

Note: Cumulative claims include both cumulative and occupational disease claims.

Source: WCIRB unit statistical data

Annual Changes in Indemnity Severity Attributable to Changes in Hazardousness

Policy Year	Report Level	Indemnity Claim Severity			Total Claim Severity		
		Change in Severity Hazardousness	Severity Hazardousness Index	Annual % Change	Change in Severity Hazardousness	Severity Hazardousness Index	Annual % Change
				Attributable to Change in Industrial Mix			Attributable to Change in Industrial Mix
1993	5	1.0000	1.0000	---	1.0000	1.0000	---
1994	5	1.0010	1.0010	0.10%	0.9986	0.9986	-0.14%
1995	5	1.0007	1.0017	0.07%	1.0013	0.9998	0.13%
1996	5	0.9988	1.0005	-0.12%	0.9993	0.9991	-0.07%
1997	5	1.0032	1.0036	0.32%	1.0045	1.0036	0.45%
1998	5	1.0037	1.0074	0.37%	1.0050	1.0086	0.50%
1999	5	1.0023	1.0096	0.23%	1.0011	1.0097	0.11%
2000	5	1.0016	1.0112	0.16%	1.0009	1.0107	0.09%
2001	5	1.0031	1.0144	0.31%	1.0001	1.0108	0.01%
2002	5	0.9984	1.0128	-0.16%	0.9996	1.0104	-0.04%
2003	5	1.0042	1.0170	0.42%	1.0071	1.0176	0.71%
2004	5	1.0020	1.0190	0.20%	1.0048	1.0224	0.48%
2005	5	1.0010	1.0201	0.10%	1.0027	1.0252	0.27%
2006	5	0.9965	1.0165	-0.35%	0.9917	1.0167	-0.83%
2007	5	0.9935	1.0098	-0.65%	0.9861	1.0025	-1.39%
2008	5	0.9908	1.0005	-0.92%	0.9845	0.9870	-1.55%
2009	5	0.9884	0.9889	-1.16%	0.9832	0.9704	-1.68%
2010	5	0.9961	0.9851	-0.39%	0.9938	0.9644	-0.62%
2011	5	0.9996	0.9847	-0.04%	1.0014	0.9657	0.14%
2012	5	0.9972	0.9819	-0.28%	0.9978	0.9636	-0.22%
2013	5	1.0012	0.9830	0.12%	1.0030	0.9665	0.30%
2014	5	1.0012	0.9842	0.12%	1.0058	0.9721	0.58%
2015	5	1.0002	0.9844	0.02%	1.0027	0.9748	0.27%
2016	Proj 5	0.9982	0.9826	-0.18%	0.9972	0.9720	-0.28%
2017	Proj 5	1.0034	0.9859	0.34%	1.0039	0.9757	0.39%
2018	Proj 5	0.9988	0.9848	-0.12%	1.0002	0.9759	0.02%
2019	Proj 5	1.0028	0.9875	0.28%	1.0071	0.9828	0.71%

Note: Changes in industrial mix are based on indemnity claim severity by collapsed NAICS industrial sector.

Source: WCIRB unit statistical data

Claim Counts and Losses on Claims in Excess of \$250,000 with COVID-19 Excluded

PY/RL	Number of Claims in Excess of \$250,000							
	1	2	3	4	5	6	7	8
2006	670	1,037	1,672	2,397	3,104	3,596	3,977	4,201
2007	666	1,186	2,089	3,010	3,748	4,311	4,630	4,831
2008	645	1,250	2,081	3,048	3,841	4,341	4,638	4,753
2009	599	1,198	2,077	3,040	3,720	4,152	4,365	4,501
2010	574	1,143	1,919	2,760	3,313	3,665	3,847	3,979
2011	638	1,186	1,881	2,598	3,064	3,394	3,551	3,621
2012	654	1,100	1,696	2,209	2,664	2,900	3,004	3,093
2013	705	1,107	1,651	2,173	2,554	2,779	2,859	
2014	703	1,122	1,753	2,297	2,630	2,822		
2015	682	1,224	1,761	2,312	2,600			
2016	831	1,299	1,870	2,266				
2017	889	1,445	2,049					
2018	957	1,515						
2019	951							

PY/RL	% of Claims in Excess of \$250,000							
	1	2	3	4	5	6	7	8
2006	0.154%	0.234%	0.375%	0.536%	0.692%	0.801%	0.885%	0.935%
2007	0.162%	0.282%	0.495%	0.709%	0.881%	1.012%	1.087%	1.133%
2008	0.183%	0.345%	0.570%	0.832%	1.045%	1.180%	1.259%	1.288%
2009	0.185%	0.361%	0.620%	0.904%	1.103%	1.229%	1.290%	1.329%
2010	0.176%	0.342%	0.569%	0.815%	0.976%	1.078%	1.129%	1.167%
2011	0.195%	0.352%	0.553%	0.760%	0.895%	0.989%	1.034%	1.054%
2012	0.195%	0.318%	0.486%	0.630%	0.758%	0.824%	0.853%	0.878%
2013	0.202%	0.309%	0.458%	0.600%	0.703%	0.764%	0.785%	
2014	0.194%	0.301%	0.467%	0.609%	0.696%	0.746%		
2015	0.181%	0.317%	0.453%	0.593%	0.666%			
2016	0.216%	0.330%	0.472%	0.570%				
2017	0.221%	0.351%	0.495%					
2018	0.237%	0.367%						
2019	0.269%							

PY/RL	% of Indemnity Incurred on Claims in Excess of \$250,000							
	1	2	3	4	5	6	7	8
2006	11.10%	11.43%	14.93%	18.92%	22.70%	25.74%	28.08%	29.88%
2007	10.22%	11.67%	16.30%	20.98%	25.00%	27.60%	29.49%	30.62%
2008	9.44%	11.31%	15.36%	20.41%	24.45%	27.30%	28.92%	30.03%
2009	9.20%	10.53%	15.23%	19.82%	23.66%	26.52%	27.61%	28.66%
2010	9.24%	10.95%	14.07%	18.41%	21.42%	23.12%	24.41%	25.53%
2011	9.57%	10.70%	13.66%	17.41%	19.72%	21.64%	22.99%	23.73%
2012	9.16%	9.81%	12.48%	15.39%	17.89%	19.91%	20.85%	22.05%
2013	7.68%	8.81%	11.33%	14.29%	16.57%	18.13%	18.98%	
2014	8.63%	9.48%	12.40%	15.50%	17.45%	18.65%		
2015	8.67%	9.85%	12.45%	15.34%	16.87%			
2016	9.79%	10.88%	14.24%	16.23%				
2017	11.81%	12.37%	15.35%					
2018	12.12%	12.95%						
2019	12.60%							

PY/RL	% of Medical Incurred on Claims in Excess of \$250,000							
	1	2	3	4	5	6	7	8
2006	14.58%	16.42%	19.79%	23.83%	28.08%	31.57%	34.42%	36.04%
2007	13.39%	15.93%	20.76%	26.23%	30.20%	33.72%	35.87%	37.38%
2008	12.97%	15.38%	19.50%	24.78%	29.18%	32.43%	34.48%	35.48%
2009	12.72%	15.56%	20.10%	25.10%	28.91%	31.84%	32.96%	33.77%
2010	13.10%	15.71%	19.12%	23.36%	26.69%	28.54%	29.85%	31.10%
2011	13.62%	15.51%	18.80%	22.56%	24.93%	26.49%	27.38%	28.00%
2012	14.06%	14.99%	17.70%	20.51%	22.77%	24.45%	25.49%	26.39%
2013	11.84%	12.41%	15.22%	17.55%	19.79%	21.28%	21.97%	
2014	14.05%	14.51%	17.43%	20.08%	22.01%	23.00%		
2015	13.26%	15.66%	18.06%	20.22%	21.73%			
2016	17.00%	17.36%	19.56%	21.38%				
2017	19.02%	19.38%	21.24%					
2018	16.10%	17.34%						
2019	19.02%							

PY/RL	Average Severity on Claims in Excess of \$250,000							
	1	2	3	4	5	6	7	8
2006	682,104	628,060	552,930	516,250	503,890	515,598	527,289	538,340
2007	655,711	574,357	507,456	494,666	495,064	501,533	512,337	520,149
2008	617,073	513,454	465,555	454,986	456,508	469,425	477,123	487,706
2009	651,977	527,882	482,000	459,694	465,596	480,379	481,618	486,565
2010	705,610	582,210	500,329	473,943	478,115	475,471	484,037	495,281
2011	691,596	562,900	501,622	480,422	472,919	470,459	476,154	483,294
2012	706,874	585,574	518,213	503,276	488,777	499,520	511,001	523,943
2013	580,296	507,831	478,088	459,247	460,186	467,163	476,301	
2014	711,252	596,352	529,882	506,559	505,951	505,229		
2015	724,682	600,280	546,805	505,890				
2016	762,708	630,907	569,434	546,167				
2017	865,282	671,479	591,577					
2018	729,546	619,394						
2019	805,543							

PY/RL	Median Severity on Claims in Excess of \$250,000							
	1	2	3	4	5	6	7	8
2006	348,634	340,111	334,032	334,244	342,298	351,765	363,020	364,189
2007	352,798	327,437	327,551	332,666	343,529	354,793	362,889	365,704
2008	360,590	325,004	323,793	328,812	337,870	346,924	352,054	357,019
2009	358,493	325,112	321,223	329,537	338,829	342,589	350,847	352,083
2010	347,534	321,856	320,189	320,796	330,623	337,791	341,213	344,221
2011	347,228	315,977	313,687	320,441	325,198	331,043	336,399	340,009
2012	348,694	326,259	316,946	318,540	321,292	326,908	334,683	336,697
2013	337,549	325,101	324,527	325,000	323,878	327,307	331,026	
2014	361,566	336,261	325,991	323,079	326,535	328,207		
2015	351,267	323,060	317,941	319,622	322,678			
2016	346,328	325,694	322,547	325,992				
2017	365,390	324,761	316,937					
2018	364,402	332,897						
2019	369,086							

Notes: Incurred Amounts and Severities are first dollar.
PY 2019 excludes COVID-19 claims

Source: WCIRB unit statistical data

Claim Counts and Losses on Claims in Excess of \$500,000 with COVID-19 Excluded

Number of Claims in Excess of \$500,000									% of Claims in Excess of \$500,000								
PY/RL	1	2	3	4	5	6	7	8	PY/RL	1	2	3	4	5	6	7	8
2006	185	255	344	502	676	848	1,034	1,145	2006	0.043%	0.057%	0.077%	0.112%	0.151%	0.189%	0.230%	0.255%
2007	187	260	368	528	740	961	1,136	1,252	2007	0.045%	0.062%	0.087%	0.124%	0.174%	0.226%	0.267%	0.294%
2008	176	231	337	523	722	935	1,079	1,164	2008	0.050%	0.064%	0.092%	0.143%	0.196%	0.254%	0.293%	0.316%
2009	173	231	332	501	701	837	938	1,022	2009	0.053%	0.070%	0.099%	0.149%	0.208%	0.248%	0.277%	0.302%
2010	156	215	309	414	566	697	785	861	2010	0.048%	0.064%	0.092%	0.122%	0.167%	0.205%	0.230%	0.253%
2011	174	227	303	432	542	640	724	791	2011	0.053%	0.067%	0.089%	0.126%	0.158%	0.187%	0.211%	0.230%
2012	182	230	286	366	452	544	604	671	2012	0.054%	0.067%	0.082%	0.104%	0.129%	0.155%	0.172%	0.190%
2013	178	207	258	353	449	510	555		2013	0.051%	0.058%	0.072%	0.097%	0.124%	0.140%	0.152%	
2014	211	261	332	437	509	549			2014	0.058%	0.070%	0.088%	0.116%	0.135%	0.145%		
2015	186	250	309	415	479				2015	0.049%	0.065%	0.080%	0.107%	0.123%			
2016	237	288	352	417					2016	0.062%	0.073%	0.089%	0.105%				
2017	285	345	422						2017	0.071%	0.084%	0.102%					
2018	296	384							2018	0.073%	0.093%						
2019	322								2019	0.091%							

% of Indemnity Incurred on Claims in Excess of \$500,000									% of Medical Incurred on Claims in Excess of \$500,000								
PY/RL	1	2	3	4	5	6	7	8	PY/RL	1	2	3	4	5	6	7	8
2006	5.03%	5.11%	6.36%	7.95%	9.50%	11.64%	13.52%	15.22%	2006	10.84%	11.28%	11.59%	12.87%	14.70%	16.83%	18.98%	20.32%
2007	4.83%	5.13%	6.20%	7.79%	10.14%	11.64%	13.36%	14.49%	2007	9.61%	9.90%	10.80%	12.97%	14.77%	17.12%	18.89%	20.18%
2008	4.14%	4.30%	5.23%	7.26%	9.12%	11.21%	12.35%	13.52%	2008	8.85%	8.38%	8.93%	10.73%	12.67%	15.00%	16.66%	17.64%
2009	4.80%	3.92%	5.30%	6.57%	8.64%	10.54%	11.28%	12.34%	2009	8.78%	8.81%	9.75%	11.13%	13.09%	15.11%	15.76%	16.50%
2010	4.82%	4.56%	4.98%	6.30%	7.73%	8.68%	9.78%	10.70%	2010	9.45%	9.68%	9.86%	10.83%	12.59%	13.54%	14.57%	15.80%
2011	4.95%	4.48%	4.81%	6.07%	6.87%	7.97%	8.97%	9.80%	2011	9.80%	9.35%	9.92%	11.15%	12.08%	12.67%	13.33%	14.01%
2012	4.53%	4.20%	4.70%	5.78%	6.70%	8.13%	8.86%	10.20%	2012	10.32%	9.50%	9.67%	10.64%	11.39%	12.52%	13.39%	14.24%
2013	2.87%	3.07%	3.60%	4.76%	5.89%	6.84%	7.57%		2013	7.93%	6.99%	7.56%	8.16%	9.25%	10.04%	10.63%	
2014	4.37%	4.09%	4.68%	5.96%	6.90%	7.56%			2014	10.46%	9.58%	10.17%	11.12%	12.01%	12.34%		
2015	4.48%	4.05%	4.74%	5.90%	6.56%				2015	9.80%	10.33%	10.81%	11.08%	11.64%			
2016	4.95%	4.73%	5.97%	6.66%					2016	13.10%	12.00%	12.08%	12.60%				
2017	7.24%	6.08%	6.92%						2017	15.14%	13.83%	13.83%					
2018	7.60%	6.75%							2018	11.62%	11.59%						
2019	8.11%								2019	14.72%							

Average Severity on Claims in Excess of \$500,000									Median Severity on Claims in Excess of \$500,000								
PY/RL	1	2	3	4	5	6	7	8	PY/RL	1	2	3	4	5	6	7	8
2006	1,605,176	1,556,369	1,426,192	1,226,014	1,124,891	1,102,864	1,068,312	1,075,242	2006	809,751	755,173	737,172	712,580	709,584	701,222	691,932	695,728
2007	1,493,459	1,469,841	1,356,962	1,271,855	1,151,166	1,074,590	1,045,746	1,036,754	2007	805,589	744,439	712,814	696,427	684,413	677,939	683,101	684,933
2008	1,373,570	1,359,873	1,196,463	1,073,613	1,000,034	966,836	949,397	956,303	2008	832,073	772,927	722,110	682,208	664,953	670,400	680,693	693,254
2009	1,443,063	1,385,693	1,322,671	1,128,716	1,042,893	1,065,128	1,016,038	1,001,995	2009	829,140	743,245	713,157	676,482	656,565	662,005	673,897	663,746
2010	1,718,593	1,710,768	1,434,758	1,330,623	1,210,438	1,097,667	1,083,382	1,089,348	2010	885,945	771,191	701,165	688,564	701,952	686,542	674,577	677,638
2011	1,667,435	1,596,797	1,454,564	1,276,840	1,162,426	1,090,404	1,050,625	1,032,103	2011	888,503	780,562	736,538	696,674	684,826	679,553	684,493	685,982
2012	1,688,864	1,591,003	1,499,684	1,418,898	1,305,400	1,257,542	1,236,162	1,229,919	2012	893,759	787,866	766,510	739,219	700,799	698,147	714,979	708,794
2013	1,335,571	1,323,943	1,314,553	1,165,114	1,103,391	1,101,036	1,099,723		2013	760,344	763,410	736,311	688,180	666,665	690,030	699,893	
2014	1,599,298	1,493,329	1,417,854	1,295,284	1,266,400	1,252,186			2014	876,790	838,286	815,572	782,287	767,290	762,230		
2015	1,777,658	1,693,592	1,613,232	1,360,330	1,293,285				2015	823,044	792,811	750,867	734,157	716,776			
2016	1,859,683	1,721,075	1,637,611	1,536,057					2016	851,764	807,310	817,184	783,875				
2017	2,001,159	1,795,562	1,651,273						2017	1,040,992	937,777	896,000					
2018	1,622,996	1,495,077							2018	877,628	808,145						
2019	1,739,043								2019	879,193							

Notes: Incurred Amounts and Severities are first dollar.
PY 2019 excludes COVID-19 claims

Source: WCIRB unit statistical data

Claim Counts and Losses on Claims in Excess of \$1,000,000 with COVID-19 Excluded

Number of Claims in Excess of \$1,000,000								
PY/RL	1	2	3	4	5	6	7	8
2006	67	85	109	143	171	214	256	285
2007	66	82	110	134	159	201	234	267
2008	67	80	99	122	164	210	239	264
2009	66	80	97	120	149	173	201	202
2010	66	80	96	118	143	158	172	198
2011	72	84	94	109	127	142	156	172
2012	80	82	94	110	124	146	164	185
2013	63	68	85	96	113	134	143	
2014	91	106	129	154	172	181		
2015	80	95	102	124	140			
2016	98	116	141	156				
2017	148	158	184					
2018	119	142						
2019	145							

% of Indemnity Incurred on Claims in Excess of \$1,000,000								
PY/RL	1	2	3	4	5	6	7	8
2006	3.10%	2.98%	3.74%	4.20%	4.77%	5.81%	6.71%	7.85%
2007	2.95%	3.03%	3.48%	4.07%	5.03%	5.41%	6.14%	6.61%
2008	2.46%	2.54%	2.89%	3.68%	4.34%	5.28%	5.43%	6.14%
2009	2.88%	2.13%	2.89%	3.18%	3.81%	4.96%	5.13%	5.32%
2010	3.60%	3.15%	2.97%	3.62%	3.87%	4.00%	4.45%	4.99%
2011	3.55%	3.05%	2.88%	3.15%	3.22%	3.53%	3.85%	4.20%
2012	3.12%	2.58%	2.72%	3.29%	3.51%	4.30%	4.63%	5.44%
2013	1.68%	1.76%	2.12%	2.46%	2.86%	3.30%	3.62%	
2014	2.84%	2.56%	2.63%	3.25%	3.70%	4.04%		
2015	3.20%	2.62%	2.95%	3.24%	3.51%			
2016	3.24%	3.00%	3.85%	4.14%				
2017	5.57%	4.19%	4.65%					
2018	5.61%	4.58%						
2019	6.05%							

Average Severity on Claims in Excess of \$1,000,000								
PY/RL	1	2	3	4	5	6	7	8
2006	3,234,739	3,320,818	3,047,387	2,646,424	2,496,134	2,411,174	2,312,573	2,322,877
2007	2,989,854	3,203,684	3,005,542	3,068,358	2,941,223	2,650,264	2,522,711	2,416,398
2008	2,498,007	2,652,123	2,495,344	2,451,971	2,205,536	2,053,663	1,973,504	1,953,110
2009	2,683,874	2,739,848	2,942,406	2,655,972	2,495,174	2,642,270	2,325,280	2,397,700
2010	3,129,463	3,491,874	3,185,931	3,037,370	2,843,344	2,593,098	2,605,578	2,549,998
2011	3,060,752	3,174,335	3,206,333	3,097,966	2,821,839	2,612,821	2,461,513	2,366,535
2012	2,980,356	3,234,490	3,195,233	3,147,769	3,010,106	2,892,532	2,778,071	2,724,890
2013	2,566,288	2,664,681	2,662,547	2,534,372	2,466,704	2,363,736	2,371,996	
2014	2,825,150	2,694,273	2,595,937	2,442,939	2,441,954	2,434,483		
2015	3,251,305	3,372,199	3,539,396	2,991,030	2,833,695			
2016	3,531,257	3,285,851	3,084,219	2,985,578				
2017	3,203,841	3,085,850	2,899,362					
2018	3,013,271	2,886,704						
2019	3,035,852							

% of Claims in Excess of \$1,000,000								
PY/RL	1	2	3	4	5	6	7	8
2006	0.015%	0.019%	0.024%	0.032%	0.038%	0.048%	0.057%	0.063%
2007	0.016%	0.020%	0.026%	0.032%	0.037%	0.047%	0.055%	0.063%
2008	0.019%	0.022%	0.027%	0.033%	0.045%	0.057%	0.065%	0.072%
2009	0.020%	0.024%	0.029%	0.036%	0.044%	0.051%	0.059%	0.060%
2010	0.020%	0.024%	0.028%	0.035%	0.042%	0.046%	0.050%	0.058%
2011	0.022%	0.025%	0.028%	0.032%	0.037%	0.041%	0.045%	0.050%
2012	0.024%	0.024%	0.027%	0.031%	0.035%	0.041%	0.047%	0.052%
2013	0.018%	0.019%	0.024%	0.026%	0.031%	0.037%	0.039%	
2014	0.025%	0.028%	0.034%	0.041%	0.046%	0.048%		
2015	0.021%	0.025%	0.026%	0.032%	0.036%			
2016	0.026%	0.029%	0.036%	0.039%				
2017	0.037%	0.038%	0.044%					
2018	0.029%	0.034%						
2019	0.041%							

% of Medical Incurred on Claims in Excess of \$1,000,000								
PY/RL	1	2	3	4	5	6	7	8
2006	8.27%	8.46%	8.25%	8.39%	8.64%	9.70%	10.53%	11.15%
2007	7.07%	7.14%	7.58%	8.42%	8.47%	9.22%	9.71%	10.42%
2008	6.37%	5.91%	5.69%	5.85%	6.50%	7.20%	7.84%	8.25%
2009	6.54%	6.40%	6.71%	6.63%	7.05%	8.04%	8.00%	8.15%
2010	7.35%	7.56%	7.12%	7.37%	7.96%	7.69%	8.16%	9.03%
2011	7.58%	7.05%	7.08%	7.24%	7.38%	7.26%	7.23%	7.49%
2012	8.26%	7.21%	7.19%	7.52%	7.76%	8.29%	8.77%	9.31%
2013	5.57%	4.83%	5.27%	5.12%	5.58%	6.13%	6.41%	
2014	8.30%	7.37%	7.82%	8.01%	8.51%	8.60%		
2015	7.93%	8.18%	8.23%	7.84%	8.06%			
2016	10.73%	9.74%	9.68%	9.77%				
2017	12.90%	11.36%	11.14%					
2018	8.72%	8.48%						
2019	11.82%							

Median Severity on Claims in Excess of \$1,000,000								
PY/RL	1	2	3	4	5	6	7	8
2006	1,841,931	2,120,827	2,187,868	1,742,043	1,742,043	1,561,145	1,435,234	1,445,338
2007	1,953,016	2,210,826	1,727,733	1,835,183	1,905,520	1,586,274	1,616,302	1,577,628
2008	1,913,000	1,898,126	1,833,706	1,740,645	1,616,929	1,492,400	1,397,175	1,433,079
2009	1,970,712	1,735,192	1,837,375	1,696,499	1,512,424	1,448,217	1,444,734	1,493,429
2010	2,153,329	2,215,829	1,946,786	1,814,410	1,819,232	1,765,880	1,671,465	1,535,473
2011	2,133,690	2,004,422	1,948,017	1,950,524	1,633,108	1,520,232	1,499,552	1,521,573
2012	1,835,445	2,056,225	2,005,899	2,031,639	1,945,194	1,745,401	1,725,739	1,710,030
2013	1,749,237	1,868,767	1,767,043	1,768,597	1,791,292	1,685,897	1,618,280	
2014	1,854,543	1,986,862	1,581,725	1,580,550	1,588,249	1,610,416		
2015	1,873,825	1,817,303	2,060,710	2,004,489	2,041,470			
2016	2,120,950	1,914,206	1,994,472	1,857,174				
2017	1,824,070	1,850,876	1,779,400					
2018	1,978,602	2,026,789						
2019	1,891,580							

Notes: Incurred Amounts and Severities are first dollar.
PY 2019 excludes COVID-19 claims

Source: WCIRB unit statistical data

Average Paid ALAE per Reported Indemnity Claim - Private Insurers

As of December 30, 2021

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	8,702
2011	753	2,563	7,849	5,522	6,537	7,325	7,837	8,205	8,441	8,598
2012	758	2,555	8,471	5,728	6,766	7,451	7,905	8,225	8,439	8,260
2013	777	2,790	8,829	5,936	6,851	7,426	7,826	8,067	7,935	
2014	879	2,992	9,346	6,056	6,865	7,393	7,740	7,664		
2015	951	3,067	9,655	6,028	6,768	7,222	7,278			
2016	933	3,157	4,897	6,017	6,694	6,922				
2017	1,016	3,279	4,939	5,963	6,489					
2018	1,110	3,380	5,050	5,995						
2019	1,120	3,319	4,952							
2020	1,075	3,383								
2021	1,015									

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%	-0.1%
2011	1.1%	0.9%	83.4%	-1.3%	-0.1%	0.5%	-0.4%	-0.5%	-0.8%	-1.2%
2012	0.7%	-0.3%	7.9%	3.7%	3.5%	1.7%	0.9%	0.2%	0.0%	-3.9%
2013	2.5%	9.2%	4.2%	3.6%	1.3%	-0.3%	-1.0%	-1.9%	-6.0%	
2014	13.2%	7.2%	5.9%	2.0%	0.2%	-0.5%	-1.1%	-5.0%		
2015	8.1%	2.5%	3.3%	-0.4%	-1.4%	-2.3%	-6.0%			
2016	-1.8%	2.9%	-49.3%	-0.2%	-1.1%	-4.2%				
2017	8.9%	3.9%	0.9%	-0.9%	-3.1%					
2018	9.2%	3.1%	2.2%	0.5%						
2019	0.9%	-1.8%	-1.9%							
2020	-4.1%	1.9%								
2021	-5.5%									

Note: All paid ALAE exclude the paid cost of medical cost containment programs. Accident years 2020 and 2021 exclude COVID-19 claims.

Source: WCIRB accident year experience calls.

Percentage of Represented Permanent Disability Claims by Region and Loss Type
First and Second Survey Level, Open Claims Only

First Survey Level

	<u>Northern California</u>	<u>Southern California</u>	<u>CT Claims</u>	<u>Non-CT Claims</u>
% of Represented				
AY 2011	65.9%	80.8%	87.8%	72.2%
AY 2012	67.1%	82.2%	89.4%	73.5%
AY 2013	68.5%	84.1%	91.4%	75.1%
AY 2014	67.6%	82.9%	90.2%	74.1%
AY 2015	66.3%	81.3%	88.4%	72.6%
AY 2016	66.5%	81.5%	88.7%	72.9%
AY 2017	61.5%	75.5%	82.0%	67.4%
AY 2018	67.7%	83.0%	90.2%	74.1%
AY 2019	64.8%	79.5%	86.4%	71.0%

Second Survey Level

	<u>Northern California</u>	<u>Southern California</u>	<u>CT Claims</u>	<u>Non-CT Claims</u>
% of Represented				
AY 2011	69.0%	84.6%	91.9%	75.6%
AY 2012	71.2%	87.3%	94.9%	78.0%
AY 2013	71.5%	87.7%	95.3%	78.4%
AY 2014	69.2%	84.8%	92.2%	75.8%
AY 2015	70.1%	86.0%	93.5%	76.8%
AY 2016	68.7%	84.3%	91.6%	75.3%
AY 2017	73.3%	89.9%	97.8%	80.4%
AY 2018	76.0%	93.2%	101.3%	83.3%

Note: Claims are assigned to Northern and Southern California regions based on the WCAB office code reported on the Permanent Disability Claim Survey forms. If the WCAB office code was not reported, the zip code of the claimant's residence was used.

Source: WCIRB Permanent Disability Claim Survey for each accident year (AY)

Data is recast from survey proportions to true proportions.

Data in italics is preliminary

Number of Medical-Legal Reports by Service Year and Quarter

First Quarter of Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21</u>
Bay Area	6,014	5,972	5,573	5,440	5,246	5,042	4,751	4,571	4,537	-0.7%	-6.7%	-2.4%	-3.6%	-3.9%	-5.8%	-3.8%	-0.7%
Los Angeles	14,915	17,281	17,578	18,721	18,043	16,996	16,943	16,825	17,663	15.9%	1.7%	6.5%	-3.6%	-5.8%	-0.3%	-0.7%	5.0%
Other	8,558	9,758	9,888	11,162	10,710	11,143	10,583	9,969	10,592	14.0%	1.3%	12.9%	-4.0%	4.0%	-5.0%	-5.8%	6.2%
All Regions	29,487	33,011	33,039	35,323	33,999	33,181	32,277	31,365	32,792	12.0%	0.1%	6.9%	-3.7%	-2.4%	-2.7%	-2.8%	4.5%
Second Quarter of Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21</u>
Bay Area	5,996	5,548	5,547	5,241	5,222	5,095	4,787	3,657	5,254	-7.5%	0.0%	-5.5%	-0.4%	-2.4%	-6.0%	-23.6%	43.7%
Los Angeles	15,383	17,302	17,761	18,243	17,797	16,850	17,892	14,151	20,652	12.5%	2.7%	2.7%	-2.4%	-5.3%	6.2%	-20.9%	45.9%
Other	8,786	9,787	10,106	11,567	11,216	11,259	10,756	7,999	13,964	11.4%	3.3%	14.5%	-3.0%	0.4%	-4.5%	-25.6%	74.6%
All Regions	30,165	32,637	33,414	35,051	34,235	33,204	33,435	25,807	39,869	8.2%	2.4%	4.9%	-2.3%	-3.0%	0.7%	-22.8%	54.5%
Third Quarter of Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21</u>
Bay Area	5,788	5,184	5,213	5,051	4,959	4,688	4,285	4,366	5,425	-10.4%	0.6%	-3.1%	-1.8%	-5.5%	-8.6%	1.9%	24.3%
Los Angeles	14,400	15,293	15,974	16,657	15,940	15,830	16,873	15,835	20,723	6.2%	4.5%	4.3%	-4.3%	-0.7%	6.6%	-6.2%	30.9%
Other	8,511	9,454	9,589	11,241	10,553	10,728	10,550	9,467	13,644	11.1%	1.4%	17.2%	-6.1%	1.7%	-1.7%	-10.3%	44.1%
All Regions	28,699	29,931	30,776	32,949	31,452	31,246	31,708	29,668	39,792	4.3%	2.8%	7.1%	-4.5%	-0.7%	1.5%	-6.4%	34.1%
Fourth Quarter of Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021P</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21P</u>
Bay Area	2,724	2,252	2,252	2,660	2,532	2,497	2,384	2,319	3,370	-17.3%	0.0%	18.1%	-4.8%	-1.4%	-4.5%	-2.7%	45.3%
Los Angeles	5,618	6,152	6,222	8,256	7,953	8,269	9,027	8,227	12,979	9.5%	1.1%	32.7%	-3.7%	4.0%	9.2%	-8.9%	57.8%
Other	3,472	4,086	3,750	5,245	4,885	5,011	5,106	4,490	7,374	17.7%	-8.2%	39.9%	-6.9%	2.6%	1.9%	-12.1%	64.2%
All Regions	11,814	12,490	12,224	16,161	15,370	15,777	16,517	15,036	23,723	5.7%	-2.1%	32.2%	-4.9%	2.6%	4.7%	-9.0%	57.7%
First Three Quarters of Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21</u>
Bay Area	17,798	16,704	16,333	15,732	15,427	14,825	13,823	12,594	15,179	-6.1%	-2.2%	-3.7%	-1.9%	-3.9%	-6.8%	-8.9%	20.5%
Los Angeles	44,698	49,876	51,313	53,621	51,780	49,676	51,708	46,811	58,901	11.6%	2.9%	4.5%	-3.4%	-4.1%	4.1%	-9.5%	25.8%
Other	25,855	28,999	29,583	33,970	32,479	33,130	31,889	27,435	38,096	12.2%	2.0%	14.8%	-4.4%	2.0%	-3.7%	-14.0%	38.9%
All Regions	88,351	95,579	97,229	103,323	99,686	97,631	97,420	86,840	112,177	8.2%	1.7%	6.3%	-3.5%	-2.1%	-0.2%	-10.9%	29.2%
Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021P</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21P</u>
Bay Area	20,522	18,956	18,585	18,392	17,959	17,322	16,207	14,913	18,392	-7.6%	-2.0%	-1.0%	-2.4%	-3.5%	-6.4%	-8.0%	23.3%
Los Angeles	50,316	56,028	57,535	61,877	59,733	57,945	60,735	55,038	71,144	11.4%	2.7%	7.5%	-3.5%	-3.0%	4.8%	-9.4%	29.3%
Other	29,327	33,085	33,333	39,215	37,364	38,141	36,995	31,925	45,118	12.8%	0.7%	17.6%	-4.7%	2.1%	-3.0%	-13.7%	41.3%
All Regions	100,165	108,069	109,453	119,484	115,056	113,408	113,937	101,876	134,653	7.9%	1.3%	9.2%	-3.7%	-1.4%	0.5%	-10.6%	32.2%

Note: Includes services on all claims on the 10 most recent accident years for the service year and where payment for the service was made within the same service year.

2021 is estimated based on partial data.

Source: WCIRB medical data call (MDC).

Payment on Medical-Legal Reports by Service Year and Quarter (in \$000)

First Quarter of Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21</u>
Bay Area	7,838	8,088	7,495	7,137	6,845	6,478	6,399	6,011	6,937	3.2%	-7.3%	-4.8%	-4.1%	-5.4%	-1.2%	-6.1%	15.4%
Los Angeles	24,988	32,977	32,154	36,860	32,364	28,339	28,261	27,705	31,318	32.0%	-2.5%	14.6%	-12.2%	-12.4%	-0.3%	-2.0%	13.0%
Other	10,458	14,455	13,996	16,094	13,043	13,195	12,210	12,508	14,376	38.2%	-3.2%	15.0%	-19.0%	1.2%	-7.5%	2.4%	14.9%
All Regions	43,283	55,521	53,645	60,091	52,252	48,012	46,870	46,223	52,631	28.3%	-3.4%	12.0%	-13.0%	-8.1%	-2.4%	-1.4%	13.9%
Second Quarter of Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21</u>
Bay Area	8,123	7,654	7,333	7,167	6,830	6,775	6,312	4,839	8,153	-5.8%	-4.2%	-2.3%	-4.7%	-0.8%	-6.8%	-23.3%	68.5%
Los Angeles	27,246	33,052	32,912	36,152	31,250	27,998	29,205	23,038	34,016	21.3%	-0.4%	9.8%	-13.6%	-10.4%	4.3%	-21.1%	47.7%
Other	11,198	13,882	14,864	16,708	13,022	12,772	13,059	9,616	21,054	24.0%	7.1%	12.4%	-22.1%	-1.9%	2.2%	-26.4%	119.0%
All Regions	46,568	54,588	55,108	60,027	51,102	47,544	48,576	37,493	63,223	17.2%	1.0%	8.9%	-14.9%	-7.0%	2.2%	-22.8%	68.6%
Third Quarter of Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21</u>
Bay Area	7,488	6,794	6,650	6,754	6,148	6,080	5,942	6,510	8,468	-9.3%	-2.1%	1.6%	-9.0%	-1.1%	-2.3%	9.6%	30.1%
Los Angeles	24,847	28,782	29,961	30,668	26,580	26,479	27,525	27,351	31,673	15.8%	4.1%	2.4%	-13.3%	-0.4%	4.0%	-0.6%	15.8%
Other	10,964	13,133	13,674	15,050	12,496	12,048	12,873	13,071	19,561	19.8%	4.1%	10.1%	-17.0%	-3.6%	6.8%	1.5%	49.7%
All Regions	43,299	48,710	50,284	52,472	45,224	44,607	46,340	46,931	59,703	12.5%	3.2%	4.4%	-13.8%	-1.4%	3.9%	1.3%	27.0%
Fourth Quarter of Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021P</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21P</u>
Bay Area	3,208	2,606	2,764	3,284	2,791	3,044	3,054	2,956	5,118	-18.8%	6.1%	18.8%	-15.0%	9.1%	0.3%	-3.2%	73.1%
Los Angeles	8,370	10,187	10,861	14,046	12,031	12,355	13,757	12,978	18,916	21.7%	6.6%	29.3%	-14.3%	2.7%	11.4%	-5.7%	45.8%
Other	4,062	5,189	5,040	6,434	5,356	5,831	6,299	5,856	11,024	27.7%	-2.9%	27.7%	-16.7%	8.9%	8.0%	-7.0%	88.2%
All Regions	15,641	17,982	18,664	23,764	20,178	21,230	23,111	21,790	35,057	15.0%	3.8%	27.3%	-15.1%	5.2%	8.9%	-5.7%	60.3%
First Three Quarters of Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21</u>
Bay Area	23,449	22,536	21,478	21,058	19,823	19,332	18,652	17,359	23,618	-3.9%	-4.7%	-2.0%	-5.9%	-2.5%	-3.5%	-6.9%	36.1%
Los Angeles	77,081	94,812	95,026	103,679	90,194	82,815	84,992	78,094	97,298	23.0%	0.2%	9.1%	-13.0%	-8.2%	2.6%	-8.1%	24.6%
Other	32,620	41,470	42,533	47,852	38,561	38,015	38,142	35,194	55,089	27.1%	2.6%	12.5%	-19.4%	-1.4%	0.3%	-7.7%	56.5%
All Regions	133,149	158,818	159,037	172,590	148,577	140,163	141,786	130,647	176,005	19.3%	0.1%	8.5%	-13.9%	-5.7%	1.2%	-7.9%	34.6%
Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021P</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21P</u>
Bay Area	26,657	25,142	24,242	24,342	22,613	22,376	21,706	20,315	28,442	-5.7%	-3.6%	0.4%	-7.1%	-1.0%	-3.0%	-6.4%	40.0%
Los Angeles	85,451	104,999	105,887	117,725	102,225	95,170	98,749	91,072	115,425	22.9%	0.8%	11.2%	-13.2%	-6.9%	3.8%	-7.8%	26.7%
Other	36,682	46,659	47,573	54,286	43,917	43,846	44,441	41,050	65,507	27.2%	2.0%	14.1%	-19.1%	-0.2%	1.4%	-7.6%	59.6%
All Regions	148,790	176,801	177,701	196,353	168,755	161,393	164,897	152,438	209,374	18.8%	0.5%	10.5%	-14.1%	-4.4%	2.2%	-7.6%	37.2%

Note: Includes services on all claims on the 10 most recent accident years for the service year and where payment for the service was made within the same service year.

2021 is estimated based on partial data.

Source: WCIRB medical data call (MDC).

Medical-Legal Payment per Report by Service Year and Quarter

First Quarter of Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21</u>
Bay Area	1,303	1,354	1,345	1,312	1,305	1,285	1,347	1,315	1,529	3.9%	-0.7%	-2.5%	-0.5%	-1.5%	4.8%	-2.4%	16.3%
Los Angeles	1,675	1,908	1,829	1,969	1,794	1,667	1,668	1,647	1,773	13.9%	-4.1%	7.6%	-8.9%	-7.0%	0.0%	-1.3%	7.7%
Other	1,222	1,481	1,415	1,442	1,218	1,184	1,154	1,255	1,357	21.2%	-4.4%	1.9%	-15.5%	-2.8%	-2.6%	8.7%	8.2%
All Regions	1,468	1,682	1,624	1,701	1,537	1,447	1,452	1,474	1,605	14.6%	-3.5%	4.8%	-9.7%	-5.8%	0.4%	1.5%	8.9%
Second Quarter of Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21</u>
Bay Area	1,355	1,380	1,322	1,368	1,308	1,330	1,319	1,323	1,552	1.8%	-4.2%	3.4%	-4.4%	1.7%	-0.8%	0.3%	17.3%
Los Angeles	1,771	1,910	1,853	1,982	1,756	1,662	1,632	1,628	1,647	7.9%	-3.0%	6.9%	-11.4%	-5.4%	-1.8%	-0.3%	1.2%
Other	1,275	1,418	1,471	1,444	1,161	1,134	1,214	1,202	1,508	11.3%	3.7%	-1.8%	-19.6%	-2.3%	7.0%	-1.0%	25.4%
All Regions	1,544	1,673	1,649	1,713	1,493	1,432	1,453	1,453	1,586	8.3%	-1.4%	3.8%	-12.8%	-4.1%	1.5%	0.0%	9.2%
Third Quarter of Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21</u>
Bay Area	1,294	1,311	1,276	1,337	1,240	1,297	1,387	1,491	1,561	1.3%	-2.7%	4.8%	-7.3%	4.6%	6.9%	7.5%	4.7%
Los Angeles	1,725	1,882	1,876	1,841	1,668	1,673	1,631	1,727	1,528	9.1%	-0.3%	-1.8%	-9.4%	0.3%	-2.5%	5.9%	-11.5%
Other	1,288	1,389	1,426	1,339	1,184	1,123	1,220	1,381	1,434	7.8%	2.6%	-6.1%	-11.6%	-5.2%	8.6%	13.2%	3.8%
All Regions	1,509	1,627	1,634	1,593	1,438	1,428	1,461	1,582	1,500	7.9%	0.4%	-2.5%	-9.7%	-0.7%	2.4%	8.2%	-5.2%
Fourth Quarter of Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021P</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21P</u>
Bay Area	1,178	1,157	1,227	1,235	1,102	1,219	1,281	1,275	1,519	-1.7%	6.1%	0.6%	-10.7%	10.6%	5.1%	-0.5%	19.1%
Los Angeles	1,490	1,656	1,746	1,701	1,513	1,494	1,524	1,578	1,457	11.1%	5.4%	-2.5%	-11.1%	-1.2%	2.0%	3.5%	-7.6%
Other	1,170	1,270	1,344	1,227	1,097	1,164	1,234	1,304	1,495	8.5%	5.8%	-8.7%	-10.6%	6.1%	6.0%	5.7%	14.6%
All Regions	1,324	1,440	1,527	1,470	1,313	1,346	1,399	1,449	1,478	8.7%	6.1%	-3.7%	-10.7%	2.5%	4.0%	3.6%	2.0%
First Three Quarters of Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21</u>
Bay Area	1,317	1,349	1,315	1,339	1,285	1,304	1,349	1,378	1,556	2.4%	-2.5%	1.8%	-4.0%	1.5%	3.5%	2.2%	12.9%
Los Angeles	1,724	1,901	1,852	1,934	1,742	1,667	1,644	1,668	1,652	10.2%	-2.6%	4.4%	-9.9%	-4.3%	-1.4%	1.5%	-1.0%
Other	1,262	1,430	1,438	1,409	1,187	1,147	1,196	1,283	1,446	13.4%	0.5%	-2.0%	-15.7%	-3.4%	4.2%	7.3%	12.7%
All Regions	1,507	1,662	1,636	1,670	1,490	1,436	1,455	1,504	1,569	10.3%	-1.6%	2.1%	-10.8%	-3.7%	1.4%	3.4%	4.3%
Service Year																	
Region	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021P</u>	<u>13-14</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>18-19</u>	<u>19-20</u>	<u>20-21P</u>
Bay Area	1,299	1,326	1,304	1,324	1,259	1,292	1,339	1,362	1,546	2.1%	-1.7%	1.5%	-4.9%	2.6%	3.7%	1.7%	13.5%
Los Angeles	1,698	1,874	1,840	1,903	1,711	1,642	1,626	1,655	1,622	10.3%	-1.8%	3.4%	-10.0%	-4.0%	-1.0%	1.8%	-2.0%
Other	1,251	1,410	1,427	1,384	1,175	1,150	1,201	1,286	1,452	12.8%	1.2%	-3.0%	-15.1%	-2.2%	4.5%	7.0%	12.9%
All Regions	1,485	1,636	1,624	1,643	1,467	1,423	1,447	1,496	1,555	10.1%	-0.8%	1.2%	-10.7%	-3.0%	1.7%	3.4%	3.9%

Note: Includes services on all claims on the 10 most recent accident years for the service year and where payment for the service was made within the same service year.

2021 is estimated based on partial data.

Source: WCIRB medical data call (MDC).

Average Paid MCCP per Reported Indemnity Claim - Statewide
As of December 31, 2021

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	2,284	2,336
2013	655	1,253	1,620	1,821	1,962	2,068	2,130	2,170
2014	616	1,200	1,576	1,786	1,931	2,011	2,072	2,080
2015	603	1,209	1,538	1,748	1,863	1,930	1,959	
2016	592	1,152	1,453	1,628	1,726	1,790		
2017	585	1,125	1,429	1,601	1,701			
2018	639	1,178	1,460	1,623				
2019	607	1,140	1,447					
2020	577	1,111						
2021	550							

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%	-7.1%
2014	-6.0%	-4.2%	-2.7%	-1.9%	-1.6%	-2.8%	-2.7%	-4.2%
2015	-2.1%	0.7%	-2.4%	-2.2%	-3.5%	-4.0%	-5.5%	
2016	-1.9%	-4.7%	-5.5%	-6.9%	-7.4%	-7.2%		
2017	-1.1%	-2.3%	-1.6%	-1.6%	-1.4%			
2018	9.1%	4.7%	2.1%	1.4%				
2019	-4.9%	-3.2%	-0.8%					
2020	-5.0%	-2.5%						
2021	-4.6%							

Note: Accident years 2020 and 2021 exclude COVID-19 claims.

Source: WCIRB accident year experience calls.

Item AC22-03-02

12/31/2021 Experience Review

Staff has prepared a preliminary analysis of statewide experience through December 31, 2021, which is included in Exhibits 1 through 6. This information reflects insurers writing almost 100% of the market based on 2021 premium levels. The methodologies used are generally consistent with those reflected in the September 1, 2021 Pure Premium Rate Filing and include the enhancement to the medical loss development projection adopted by the Committee at the December 9, 2022 meeting to reflect the 2021 updates to medical fee schedules. Wage and loss levels are projected to September 1, 2023—the approximate midpoint of experience on policies incepting in between September 1, 2022 and August 31, 2023, and premiums were adjusted to the industry average filed pure premium rate level as of January 1, 2021 as reflected in the September 1, 2021 Pure Premium Rate Filing.¹ The accident year 2020 and 2021 information shown in Exhibits 1 through 6 have been adjusted to remove COVID-19 claims.

Given the potential impact of the COVID-19 pandemic on several aspects of the pure premium rate projection, particularly around the on-leveling of premiums and the trending projection, the projected loss ratio for policies incepting between September 1, 2022 and August 31, 2023 has not been included in Exhibits 1 through 6.

Additional supplemental information is included in Exhibits 7 through 14.

¹ In the September 1, 2022 Pure Premium Rate Filing, premiums will be adjusted to the industry average filed pure premium rate level as of January 1, 2022.

**California Workers' Compensation
Accident Year Experience as of December 31, 2021**

<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	4,373,802,923	1,508,064,385	7,031,832	1,341,299,653	38,169,956	59,898,596	2,954,464,422	0.675
1988	5,172,689,663	1,705,476,929	6,227,038	1,549,492,899	28,220,627	37,476,147	3,326,893,640	0.643
1989	5,675,354,099	1,942,359,934	5,547,934	1,809,541,474	38,117,280	44,729,504	3,840,296,126	0.677
1990	5,704,833,514	2,263,720,229	5,609,177	2,055,601,198	31,816,418	60,322,670	4,417,069,692	0.774
1991	5,866,830,467	2,484,746,761	13,493,313	2,211,959,611	40,280,405	59,659,632	4,810,139,722	0.820
1992	5,685,646,721	1,982,068,875	12,914,163	1,774,780,609	38,542,891	54,516,243	3,862,822,781	0.679
1993	5,935,051,898	1,697,388,675	12,045,365	1,523,632,332	47,262,812	54,043,724	3,334,372,908	0.562
1994	5,031,286,773	1,633,621,744	17,128,729	1,479,365,087	68,107,434	37,709,247	3,235,932,241	0.643
1995	3,789,372,110	1,771,255,867	21,546,846	1,641,864,781	75,967,415	41,852,012	3,552,486,921	0.937
1996	3,746,680,214	1,965,227,669	27,458,791	1,735,175,311	71,058,684	57,297,958	3,856,218,413	1.029
1997	3,926,898,608	2,331,095,572	29,209,170	2,038,056,783	94,857,396	98,871,654	4,592,090,575	1.169
1998	4,332,127,034	2,788,433,263	41,777,756	2,679,133,490	181,525,063	162,342,474	5,853,212,046	1.351
1999	4,550,437,880	3,069,296,922	39,727,633	3,073,599,872	130,339,307	234,239,881	6,547,203,615	1.439
2000	5,920,961,162	3,445,330,141	53,569,340	3,603,083,406	159,615,901	377,791,899	7,639,390,687	1.290
2001	10,108,322,683	4,869,502,936	75,910,407	5,433,294,172	265,450,546	602,322,921	11,246,480,982	1.113
2002	13,426,805,168	4,801,245,449	72,834,012	5,555,949,303	238,166,774	854,375,923	11,522,571,461	0.858
2003	19,469,632,328	4,599,498,681	110,284,931	5,146,188,453	251,423,714	1,221,753,636	11,329,149,415	0.582
2004	23,087,556,493	3,242,668,438	97,835,495	4,117,667,665	209,600,672	1,341,253,527	9,009,025,797	0.390
2005	21,384,168,532	2,564,918,779	83,747,973	3,717,412,863	193,668,303	1,077,436,955	7,637,184,873	0.357
2006	17,221,671,307	2,655,242,076	88,394,734	3,829,674,975	225,017,911	717,769,165	7,516,098,861	0.436
2007	13,260,139,026	2,805,720,358	98,548,621	4,105,527,185	242,697,036	688,901,941	7,941,395,141	0.599
2008	10,744,447,308	2,850,820,953	120,736,343	4,094,997,821	257,523,885	438,443,327	7,762,522,329	0.722
2009	8,873,155,994	2,730,618,621	118,292,417	3,911,898,876	270,951,507	557,575,106	7,589,336,527	0.855
2010	9,374,814,819	2,749,336,679	108,966,382	4,018,256,920	216,196,407	491,363,592	7,584,119,980	0.809
2011	10,120,427,050	2,733,922,228	113,784,721	3,648,028,454	250,557,374	619,762,859	7,366,055,636	0.728
2012	11,699,330,284	2,783,184,413	147,282,653	3,561,130,116	285,302,178	737,430,436	7,514,329,796	0.642
2013	14,161,005,539	2,829,163,082	141,155,527	3,403,537,026	272,715,680	1,276,817,070	7,923,388,385	0.560
2014	15,986,106,452	2,971,478,771	185,841,960	3,353,178,980	322,779,835	1,666,187,905	8,499,467,451	0.532
2015	17,029,088,080	3,013,748,524	237,115,811	3,262,308,803	398,478,450	2,077,362,299	8,989,013,887	0.528
2016	17,919,421,824	2,888,553,338	304,106,177	3,108,226,238	490,398,009	2,173,426,559	8,964,710,321	0.500
2017	17,644,730,152	2,747,485,480	416,275,043	2,957,196,271	647,033,053	3,234,303,535	10,002,293,382	0.567
2018	17,405,934,213	2,588,982,622	605,937,538	2,869,732,646	846,165,129	2,667,901,989	9,578,719,924	0.550
2019	16,108,745,172	2,247,855,430	894,246,344	2,441,854,694	1,173,126,695	2,972,269,897	9,729,353,060	0.604
2020	14,050,534,366	1,339,509,625	958,049,538	1,539,743,837	1,297,215,420	3,452,639,477	8,587,157,897	0.611
2021	13,580,790,085	512,162,823	809,642,789	679,329,257	1,441,691,808	4,972,382,011	8,415,208,688	0.620

* 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, excluding COVID-19 claims.

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>
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2018																
2019																
2020																
Selected (a)																
Cumulative																

(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)															
	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
1983									1.000	1.000	1.001	1.001	1.001	1.001	1.001	1.001
1984								1.000	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
1985								1.000	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
1986							1.000	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
1987					0.999	1.001	1.001	1.001	1.002	1.001	1.001	1.000	0.999	1.000	1.000	1.000
1988				1.001	1.000	1.001	1.001	1.001	1.002	1.000	1.001	1.001	1.001	1.001	1.001	1.001
1989			1.000	1.001	1.000	1.001	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.001	1.000
1990		1.001	1.000	0.999	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000
1991		1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.001	1.000	1.000
1992		0.998	1.001	1.000	1.001	1.001	1.000	1.000	1.000	1.000	1.001	1.001	1.001	1.001	1.000	1.000
1993		0.999	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.001	1.001	1.001	1.001	1.001	1.000
1994		1.001	1.001	1.002	1.000	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
1995		1.003	1.001	0.998	1.001	1.000	1.000	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
1996		1.003	1.000	1.000	1.000	1.001	1.000	1.001	1.001	1.002	1.001	1.001	1.001	1.001	1.001	1.001
1997		1.000	1.000	1.000	1.000	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
1998		1.003	1.001	1.001	1.000	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
1999		1.000	1.000	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.001	1.001	1.001	1.001	1.001
2000		1.002	1.001	1.001	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.001	1.001	1.001	1.001	1.001
2001		1.001	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
2002		1.001	1.003	1.001												
2003		1.002	1.002													
2004		1.001														
Selected (a)	1.001	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.000	1.001	1.000	1.001	1.001	1.000
Cumulative	1.014	1.013	1.011	1.010	1.010	1.009	1.008	1.008	1.007	1.007	1.006	1.006	1.006	1.005	1.005	1.003
																1.002

(b) The ULT/444Inc 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	<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>
1996												1.024	1.018	1.013	1.014	1.005
1997											1.030	1.012	1.015	1.012	1.003	1.007
1998										1.023	1.020	1.017	1.004	1.014	1.008	1.012
1999									1.030	1.019	1.018	1.013	1.011	1.013	1.005	0.999
2000								1.028	1.017	1.024	1.018	1.018	1.012	1.006	0.999	0.995
2001							1.040	1.034	1.035	1.022	1.017	1.015	1.013	1.001	0.997	0.994
2002							1.036	1.029	1.028	1.022	1.014	1.010	0.999	0.997	1.000	0.999
2003					1.060		1.042	1.037	1.029	1.018	1.011	1.003	0.998	0.999	1.001	1.006
2004				1.081	1.060		1.061	1.043	1.032	1.012	1.006	1.001	0.996	0.998	1.002	1.000
2005			1.087		1.084		1.055	1.045	1.032	1.020	1.006	0.999	1.000	1.000	1.000	0.998
2006		1.196			1.066		1.048	1.040	1.022	1.012	1.000	1.006	0.999	1.003	1.000	
2007	1.518	1.204	1.103	1.081	1.070		1.050	1.032	1.018	1.004	1.008	1.004	0.996	1.000		
2008	1.527	1.212	1.124	1.092	1.061		1.041	1.026	1.010	1.005	1.002	0.999				
2009	1.604	1.227	1.140	1.087	1.061		1.030	1.016	1.007	1.006	1.001	1.003				
2010	1.620	1.245	1.134	1.077	1.045		1.025	1.012	1.008	1.010	0.999					
2011	1.667	1.222	1.125	1.069	1.034		1.016	1.010	1.010	1.002	0.999					
2012	1.592	1.188	1.092	1.056	1.031		1.015	1.015	1.006	1.005						
2013	1.559	1.150	1.086	1.039	1.022		1.014	1.006	1.001							
2014	1.523	1.159	1.079	1.035	1.027		1.011	1.010								
2015	1.511	1.146	1.064	1.030	1.018		1.007									
2016	1.498	1.124	1.045	1.031	1.017											
2017	1.440	1.117	1.051	1.027												
2018	1.449	1.110	1.054													
2019	1.452	1.124														
2020	1.446															
Selected (a)	1.446	1.124	1.054	1.027	1.017	1.007	1.010	1.001	1.005	1.005	1.002	1.002	0.998	1.000	1.000	0.999
Cumulative	1.829	1.265	1.125	1.067	1.039	1.022	1.015	1.005	1.004	0.999	0.994	0.992	0.990	0.992	0.992	0.992

(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	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	432/420	444/432	ULT/444inc (c)
1983									1.006	1.004	1.002	1.006	1.003	1.004	1.003	0.997	0.999	0.998	1.001	1.001	
1984								1.003	1.003	1.002	1.003	1.001	1.003	1.001	0.997	1.000	1.001	1.000	1.000	0.998	
1985							1.001	1.006	1.005	1.006	1.004	1.005	1.002	0.998	0.999	0.999	1.000	1.001	1.000	1.000	
1986						1.003	1.006	1.007	1.003	1.004	1.005	1.001	1.002	0.998	1.001	1.006	1.000	1.001	1.000	1.000	
1987					1.003	1.011	1.005	1.005	1.003	1.004	1.005	1.001	0.997	1.001	1.000	1.005	1.002	0.999	1.001		
1988				1.006	1.005	1.005	1.008	1.006	1.003	1.003	1.002	0.998	0.999	1.000	1.001	1.001	1.000				
1989				1.006	1.005	1.003	1.003	1.003	1.002	1.000	1.000	0.998	0.999	1.000	1.000	1.000					
1990			1.007	1.007	1.005	1.003	1.003	0.997	1.002	1.000	1.000	0.998	0.999	1.000	1.000						
1991	1.008	1.005	1.005	1.006	1.002	1.003	1.003	1.001	1.000	0.999	0.998	1.000	1.001	1.001							
1992	1.005	1.004	1.002	1.005	1.003	1.005	1.000	0.999	1.001	0.999	1.002	0.999	0.999								
1993	1.007	1.011	1.014	1.004	0.999	1.000	0.996	0.999	0.998	0.998	0.997	0.998									
1994	1.011	1.004	1.007	1.006	1.001	0.996	0.995	1.002	1.002	0.999	0.997										
1995	1.015	0.996	1.006	0.999	1.006	0.992	0.999	1.001	0.999	1.001											
1996	1.008	1.005	1.001	0.998	0.999	0.997	1.000	0.999	0.997												
1997	1.001	0.994	0.998	0.997	0.998	1.001	0.997	0.999													
1998	1.001	1.001	0.994	1.001	1.003	1.000	0.999														
1999	0.999	0.995	1.002	0.999	0.999	0.999															
2000	0.996	0.999	0.999	1.000	0.998																
2001	1.001	1.003	0.998	0.998																	
2002	1.001	1.001	0.999																		
2003	1.001	0.998																			
2004	0.999																				

Selected (a)
Cumulative

1.000
0.994

0.998
0.995

0.999
0.996

0.999
0.999

0.999
0.999

0.999
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0.999

(c) The ULT/444inc 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	24/12	36/24	48/36	60/48	72/60	84/72	96/84	Age-to-Age (in months)										156/144	168/156	180/168	192/180	204/192
								108/96	120/108	132/120	144/132	156/144	168/156	180/168	192/180	204/192						
1996																						
1997																						
1998																						
1999																						
2000																						
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2015																						
2016																						
2017																						
2018																						
2019																						
2020																						
Selected (a)	2.956	1.549	1.222	1.110	1.060	1.042	1.027	1.020	1.018	1.016	1.013	1.012	1.011	1.009	1.009	1.006						
Cumulative	8.249	2.791	1.802	1.474	1.328	1.253	1.203	1.171	1.148	1.128	1.110	1.096	1.083	1.071	1.062	1.053						

(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	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300	324/312	Age-to-Age (in months)												384/372	396/384	408/396	420/408	432/420	444/432	ULT/444Pd (b)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
1983									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	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001

Selected (a)
Cumulative

1.005
1.047

1.005
1.010

1.005
1.010

1.005
1.011

1.005
1.012

1.005
1.013

1.005
1.014

1.005
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1.018

1.005
1.020

1.005
1.023

1.005
1.025

1.005
1.028

1.005
1.030

1.005
1.033

1.005
1.037

1.005
1.041

1.005
1.047

1.005
1.009

(b) The ULT/444Pd tail factor was calculated based on an inverse power curve fit to a four-year average of the 108-to-120 through 348-to-360 factors 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
1996																
1997																
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2020																

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
2003																
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2014																
2015																
2016																
2017																
2018																
2019																
2020																

Selected (c) 2.455 1.417 1.192 1.101 1.063 1.044 1.033 1.023 1.022 1.019 1.015 1.015 1.013 1.013 1.013 1.010

Cumulative Unadjusted
for Impact of SB 1160

7.173 2.922 2.062 1.730 1.571 1.478 1.416 1.371 1.340 1.311 1.287 1.268 1.250 1.233 1.218 1.202

Cumulative Adjusted
for Impact of SB 1160(d)

7.032 2.864 2.021 1.696 1.540 1.461 1.404 1.364 1.333 1.303 1.274 1.255 1.236 1.217 1.198 1.179

- (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 impact of pharmaceutical cost reductions and the 2021 changes to the Official Medical Fee Schedule and Medical-Legal Fee Schedule in order to bring the historical payments to the current pharmaceutical and medical service 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 60 and 72 months are adjusted by -2.0% and -1.1%, respectively, for the impact of the SB 1160 reductions in future lien filings.

Paid Medical Loss Development Factors (Continued)

Unadjusted (a) Accident Year	Age-to-Age (in months)															
	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
1983									1.003	1.005	1.004	1.004	1.003	1.004	1.003	1.002
1984								1.003	1.004	1.003	1.004	1.004	1.003	1.003	1.002	1.002
1985							1.004	1.004	1.003	1.004	1.004	1.004	1.003	1.003	1.002	1.001
1986						1.004	1.005	1.005	1.005	1.005	1.005	1.005	1.004	1.006	1.004	1.001
1987					1.006	1.005	1.005	1.005	1.005	1.005	1.005	1.003	1.003	1.003	1.003	1.003
1988				1.006	1.005	1.006	1.006	1.005	1.005	1.004	1.003	1.003	1.003	1.004	1.002	1.003
1989			1.007	1.005	1.006	1.008	1.006	1.007	1.006	1.006	1.003	1.003	1.003	1.003	1.002	1.003
1990			1.005	1.005	1.005	1.006	1.004	1.004	1.004	1.002	1.003	1.002	1.003	1.002	1.003	1.002
1991		1.007	1.006	1.005	1.006	1.005	1.006	1.003	1.003	1.003	1.004	1.003	1.003	1.002	1.003	1.002
1992		1.008	1.007	1.002	1.006	1.006	1.005	1.005	1.005	1.004	1.006	1.003	1.003	1.002	1.003	1.002
1993		1.011	1.010	1.010	1.013	1.011	1.007	1.006	1.005	1.008	1.003	1.002	1.003	1.002	1.002	1.001
1994		1.013	1.009	1.010	1.010	1.009	1.008	1.007	1.004	1.005	1.004	1.003	1.003	1.003	1.003	1.001
1995		1.011	1.016	1.013	1.012	1.009	1.012	1.007	1.008	1.007	1.005	1.004	1.003	1.003	1.002	1.003
1996		1.014	1.013	1.011	1.009	1.007	1.009	1.008	1.006	1.004	1.004	1.003	1.003	1.003	1.002	1.003
1997		1.014	1.011	1.006	1.006	1.007	1.007	1.006	1.004	1.004	1.005	1.004	1.003	1.003	1.002	1.003
1998		1.013	1.010	1.009	1.008	1.009	1.007	1.006	1.004	1.004	1.005	1.003	1.003	1.003	1.002	1.003
1999		1.012	1.009	1.009	1.008	1.006	1.005	1.004	1.003	1.003	1.003	1.002	1.003	1.002	1.003	1.002
2000		1.009	1.008	1.007	1.006	1.005	1.005	1.005	1.005	1.004	1.006	1.003	1.003	1.002	1.002	1.001
2001		1.010	1.010	1.009	1.005	1.005	1.005	1.005	1.005	1.008	1.003	1.002	1.003	1.002	1.002	1.001
2002		1.009	1.008	1.006	1.005	1.005	1.005	1.004	1.004	1.005	1.004	1.003	1.003	1.003	1.002	1.003
2003		1.010	1.008													
2004		1.007														

Adjusted (b) Accident Year	Age-to-Age (in months)															
	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
1983																
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Selected (c) Cumulative	1.010	1.010	1.008	1.007	1.007	1.007	1.007	1.007	1.006	1.007	1.006	1.003	1.003	1.002	1.004	1.002	1.001
	1.191	1.179	1.168	1.159	1.151	1.143	1.134	1.126	1.118	1.112	1.104	1.099	1.096	1.092	1.090	1.086	1.074

(e) The ULT/444Pd tail factor was calculated based on an inverse power curve fit to a four-year average of the 108-to-120 through 348-to-360 adjusted factors and extrapolated to 80 development years.

Selected Indemnity Development Factors - Paid 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
1995													1.007	1.005	1.005	1.003	1.005	1.005	1.003	1.003	1.002
1996											1.009	1.009	1.006	1.006	1.004	1.004	1.005	1.004	1.003	1.003	1.002
1997											1.012	1.008	1.007	1.006	1.006	1.005	1.004	1.003	1.003	1.002	1.003
1998										1.015	1.012	1.009	1.009	1.007	1.006	1.006	1.006	1.004	1.003	1.003	1.003
1999									1.018	1.015	1.011	1.009	1.008	1.007	1.006	1.004	1.004	1.003	1.003	1.003	1.002
2000								1.025	1.016	1.013	1.010	1.009	1.008	1.007	1.005	1.004	1.004	1.003	1.003	1.002	1.002
2001							1.034	1.024	1.017	1.014	1.012	1.011	1.008	1.007	1.006	1.005	1.005	1.004	1.003	1.003	1.002
2002						1.046	1.031	1.020	1.018	1.015	1.014	1.008	1.008	1.006	1.006	1.005	1.004	1.004	1.003	1.003	1.003
2003					1.072	1.043	1.030	1.026	1.023	1.021	1.015	1.012	1.009	1.008	1.007	1.007	1.007	1.005	1.004	1.003	1.003
2004				1.116	1.073	1.049	1.041	1.035	1.030	1.020	1.015	1.011	1.009	1.008	1.009	1.006	1.004	1.005	1.003	1.003	1.002
2005			1.235	1.121	1.079	1.060	1.047	1.042	1.028	1.020	1.015	1.013	1.010	1.010	1.010	1.005	1.004	1.004	1.003	1.003	1.002
2006		1.539	1.229	1.135	1.090	1.068	1.050	1.035	1.026	1.018	1.016	1.012	1.011	1.009	1.007	1.005	1.005	1.005	1.004	1.003	1.002
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	1.013	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.002
2008	2.927	1.577	1.271	1.150	1.092	1.060	1.041	1.027	1.023	1.018	1.015	1.010	1.009	1.008	1.009	1.006	1.004	1.005	1.005	1.003	1.002
2009	3.069	1.616	1.280	1.156	1.092	1.061	1.043	1.031	1.023	1.019	1.011	1.013	1.013	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.002
2010	3.157	1.628	1.281	1.147	1.091	1.060	1.038	1.027	1.021	1.013	1.012	1.013	1.013	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.002
2011	3.208	1.613	1.266	1.144	1.087	1.056	1.041	1.026	1.016	1.016	1.016	1.016	1.009	1.008	1.009	1.006	1.004	1.005	1.004	1.003	1.002
2012	3.137	1.597	1.262	1.137	1.087	1.051	1.034	1.023	1.017	1.016	1.016	1.013	1.009	1.008	1.007	1.007	1.007	1.007	1.007	1.007	1.002
2013	3.169	1.606	1.260	1.129	1.072	1.044	1.028	1.020	1.017	1.016	1.016	1.013	1.009	1.008	1.009	1.006	1.004	1.005	1.004	1.003	1.002
2014	3.229	1.635	1.257	1.129	1.071	1.039	1.027	1.020	1.017	1.016	1.016	1.013	1.009	1.008	1.009	1.006	1.004	1.005	1.004	1.003	1.002
2015	3.278	1.618	1.244	1.119	1.058	1.042	1.027	1.020	1.017	1.016	1.016	1.013	1.009	1.008	1.009	1.006	1.004	1.005	1.004	1.003	1.002
2016	3.235	1.586	1.230	1.103	1.060	1.042	1.027	1.020	1.017	1.016	1.016	1.013	1.009	1.008	1.009	1.006	1.004	1.005	1.004	1.003	1.002
2017	3.185	1.569	1.210	1.110	1.060	1.042	1.027	1.020	1.017	1.016	1.016	1.013	1.009	1.008	1.009	1.006	1.004	1.005	1.004	1.003	1.002
2018	3.110	1.526	1.222	1.110	1.060	1.042	1.027	1.020	1.017	1.016	1.016	1.013	1.009	1.008	1.009	1.006	1.004	1.005	1.004	1.003	1.002
2019	3.063	1.549	1.222	1.110	1.060	1.042	1.027	1.020	1.017	1.016	1.016	1.013	1.009	1.008	1.009	1.006	1.004	1.005	1.004	1.003	1.002
2020	2.956	1.549	1.222	1.110	1.060	1.042	1.027	1.020	1.017	1.016	1.016	1.013	1.009	1.008	1.009	1.006	1.004	1.005	1.004	1.003	1.002
Selected (a)	2.986(b)	1.552(b)	1.249(b)	1.118(b)	1.058(b)	1.037(b)	1.028	1.022	1.018	1.016	1.013	1.012	1.011	1.009	1.009	1.006	1.005	1.005	1.003	1.003	1.002
Cumulative	8.505	2.848	1.835	1.469	1.314	1.242	1.198	1.166	1.141	1.121	1.103	1.090	1.077	1.065	1.056	1.047	1.041	1.035	1.031	1.027	1.024

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

(b) Based on calculations shown on Exhibits 2.5.3 to 2.5.8. Each of these selections is calculated as the two-year average paid indemnity age-to-age factor multiplied by an adjustment for changes in claim settlement rates.

Selected Indemnity Development Factors - Paid to Ultimate (Continued)

Accident Year	Age-to-Age (in months)																ULT/444Pd (d)
	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	432/420	444/432	444/432	ULT/444Pd (d)
1983				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	
1984			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	1.001	
1985		1.001	1.001	1.001	1.001	1.001	1.002	1.001	1.001	1.001	1.001	1.000	1.000	1.001	1.000	1.000	
1986	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.001	1.001	1.000	1.001	1.001	
1987	1.001	1.001	1.001	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.000	
1988	1.001	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	
1989	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.000	1.001	1.001	1.000	1.000	1.000	
1990	1.001	1.001	1.001	1.001	1.000	1.000	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	
1991	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	1.001	1.001	1.001	
1992	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	1.001	1.001	1.001	
1993	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	1.001	1.001	1.001	
1994	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	1.001	1.001	1.001	
1995	1.002	1.002	1.003	1.002	1.001	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	
1996	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	
1997	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	
1998	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	
1999	1.002																
Unadjusted (a)	1.003	1.003	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.001	1.001	1.009
Selected (c)	1.003	1.003	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.001	1.001	1.006
Cumulative	1.022	1.019	1.017	1.015	1.014	1.013	1.012	1.011	1.010	1.009	1.009	1.008	1.007	1.007	1.007	1.007	1.006

(c) Adjusted for the impact of changes in claim settlement rates on later period development for 288 months and later. See Exhibits 2.5.9 through 2.5.12.
(d) The ULT/444Pd tail factor was calculated based on an inverse power curve fit to a four-year average of the 108-to-120 through 348-to-360 factors 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	Evaluated as of (in months)						
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2012							125,460
2013						133,689	133,888
2014					139,440	139,739	139,783
2015				144,101	144,517	144,879	145,041
2016			146,569	147,579	148,024	148,310	
2017		143,824	147,182	148,276	148,677		
2018	119,761	146,831	150,284	151,295			
2019	121,954	148,977	153,123				
2020	106,755	130,256					
2021	117,194						

B. Development of Total Reported Indemnity Claim Counts

Accident	Age-to-Age Development (in months):						
<u>Year</u>	<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>
2013						1.001	
2014					1.002	1.000	
2015				1.003	1.003	1.001	
2016			1.007	1.003	1.002		
2017		1.023	1.007	1.003			
2018	1.226	1.024	1.007				
2019	1.222	1.028					
2020	1.220						
Latest Year	1.220	1.028	1.007	1.003	1.002	1.001	
Cumulative	1.278	1.047	1.019	1.012	1.009	1.007	1.006

Acc. Year	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>
Ult. Claim Counts	149,726	136,389	155,992	153,100	150,045	149,386	145,930

C. Closed Indemnity Claim Counts

Accident	Evaluated as of (in months)						
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2012							115,444
2013						120,041	124,719
2014					120,096	126,764	130,665
2015				116,028	126,849	132,340	136,064
2016			103,970	121,700	130,555	135,979	
2017		80,816	107,610	122,382	131,203		
2018	37,292	82,696	107,278	123,048			
2019	37,957	80,504	105,750				
2020	32,035	69,061					
2021	36,961						

Source: Accident year experience of insurers with available claim count data, excluding COVID-19 claims.

**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	Evaluated as of (in months)						
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2012							91.6%
2013						89.1%	92.6%
2014					85.4%	90.1%	92.9%
2015				79.5%	86.9%	90.7%	93.2%
2016			69.6%	81.5%	87.4%	91.0%	
2017		53.9%	71.7%	81.6%	87.4%		
2018	24.4%	54.0%	70.1%	80.4%			
2019	24.3%	51.6%	67.8%				
2020	23.5%	50.6%					
2021	24.7%						

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

Accident	Evaluated as of (in months)						
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2012							117,533
2013						122,582	125,564
2014					122,979	128,018	131,131
2015				117,285	127,605	132,833	136,064
2016			101,272	120,063	130,627	135,979	
2017		75,975	101,718	120,593	131,203		
2018	37,794	77,522	103,789	123,048			
2019	38,508	78,987	105,750				
2020	33,669	69,061					
2021	36,961						

F. Average Paid Indemnity per Closed Claim

Accident	Evaluated as of (in months)						
Year	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2012							18,328
2013						17,086	18,216
2014					16,315	17,911	18,980
2015				14,483	16,880	18,258	19,234
2016			11,023	14,466	16,437	17,784	
2017		6,640	11,136	14,334	16,447		
2018	2,872	7,032	11,375	14,602			
2019	3,155	7,056	11,428				
2020	3,277	7,663					
2021	3,235						

(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, excluding COVID-19 claims.

**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	Evaluated as of (in months)						
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2012							19,024
2013						17,691	18,472
2014					16,987	18,248	19,110
2015				14,743	17,063	18,385	19,234
2016			10,479	14,108	16,455	17,784	
2017		6,000	9,939	13,903	16,447		
2018	2,900	6,350	10,625	14,602			
2019	3,188	6,857	11,428				
2020	3,402	7,663					
2021	3,235						

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

Accident	Evaluated as of (in months)						
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2012							2,235,969
2013						2,168,617	2,319,354
2014					2,089,049	2,336,070	2,505,860
2015				1,729,187	2,177,368	2,442,092	2,617,112
2016			1,061,254	1,693,813	2,149,428	2,418,300	
2017		455,848	1,010,993	1,676,553	2,157,942		
2018	109,608	492,285	1,102,767	1,796,769			
2019	122,759	541,593	1,208,558				
2020	114,532	529,233					
2021	119,567						

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

Accident	Evaluated as of (in months)						
Year	12	24	36	48	60	72	84
2012							419,175
2013						491,816	382,241
2014					622,087	494,714	392,107
2015				762,395	592,278	475,825	396,231
2016			862,136	710,279	578,275	470,766	
2017		768,063	849,155	722,378	589,881		
2018	339,265	806,763	898,050	792,331			
2019	353,781	882,684	1,039,297				
2020	348,206	810,299					
2021	392,596						

(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, excluding COVID-19 claims.

**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
2012							41,851
2013						36,036	41,691
2014					32,159	38,129	43,004
2015				27,157	33,522	37,948	44,138
2016			17,357	26,985	33,103	38,177	
2017		7,720	18,285	28,611	33,758		
2018	4,114	8,228	18,869	28,050			
2019	4,212	8,424	21,939				
2020	4,660	13,241					
2021	4,893						

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
2012							-87,384
2013						-91,603	-35,229
2014					-92,713	-47,775	-20,040
2015				-34,164	-25,343	-18,708	
2016			46,829	44,174	-2,383		
2017		37,375	107,735	51,186			
2018	-2,065	42,570	65,833				
2019	-2,321	12,779					
2020	-7,615						

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

Accident Year	Evaluated as of (in months)						
	12	24	36	48	60	72	84
2012							331,791
2013						400,213	347,012
2014					529,373	446,939	372,067
2015				728,231	566,935	457,117	396,231
2016			908,965	754,452	575,891	470,766	
2017		805,437	956,889	773,564	589,881		
2018	337,200	849,334	963,883	792,331			
2019	351,460	895,463	1,039,297				
2020	340,592	810,299					
2021	392,596						

(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, excluding COVID-19 claims.

**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>
2012							2,567,760
2013						2,568,830	2,666,366
2014					2,618,422	2,783,009	2,877,927
2015				2,457,418	2,744,303	2,899,209	3,013,343
2016			1,970,220	2,448,265	2,725,320	2,889,066	
2017		1,261,286	1,967,883	2,450,117	2,747,823		
2018	446,808	1,341,619	2,066,650	2,589,100			
2019	474,219	1,437,056	2,247,855				
2020	455,124	1,339,532					
2021	512,163						

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

Accident Year	Evaluated as of (in months)					
	12-24	24-36	36-48	48-60	60-72	72-84
2012						
2013						1.038
2014					1.063	1.034
2015				1.117	1.056	1.039
2016			1.243	1.113	1.060	
2017		1.560	1.245	1.122		
2018	3.003	1.540	1.253			
2019	3.030	1.564				
2020	2.943					
Latest Year	2.943	1.564	1.253	1.122	1.060	1.039
3-Year Average	2.992	1.555	1.247	1.117	1.060	1.037

O. Paid Indemnity Loss Development Factors (i)

Accident Year	Evaluated as of (in months)					
	12-24	24-36	36-48	48-60	60-72	72-84
2013						1.044
2014					1.071	1.039
2015				1.119	1.058	1.042
2016			1.230	1.103	1.060	
2017		1.569	1.210	1.110		
2018	3.110	1.526	1.222			
2019	3.064	1.549				
2020	2.956					

(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, excluding COVID-19 claims.

**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)					
	12-24	24-36	36-48	48-60	60-72	72-84
2013						-0.56%
2014					-0.77%	-0.44%
2015				-0.20%	-0.15%	-0.25%
2016			1.00%	0.96%	-0.04%	
2017		-0.58%	2.93%	1.08%		
2018	-3.46%	0.95%	2.50%			
2019	-1.09%	0.95%				
2020	-0.43%					

Q. Paid Indemnity 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
2013						1.038
2014					1.063	1.034
2015				1.117	1.056	1.039
2016			1.242	1.114	1.060	
2017		1.560	1.245	1.122		
2018	3.002	1.541	1.253			
2019	3.030	1.564				
2020	2.943					
Latest Year	2.943	1.564	1.253	1.122	1.060	1.039
2-Year Average	2.986	1.552	1.249	1.118	1.058	1.037
3-Year Average	2.992	1.555	1.247	1.117	1.060	1.037

(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, excluding COVID-19 claims.

Paid Loss Development Factors
Adjusted for the Impact of Claim Settlement Rate
Changes on Later Period Development

1. Reported Closed Indemnity Claim Counts

Accident	Evaluated as of (in months)									
Year	<u>288</u>	<u>300</u>	<u>312</u>	<u>324</u>	<u>336</u>	<u>348</u>	<u>360</u>	<u>372</u>	<u>384</u>	<u>396</u>
1990							230,815	230,896	230,974	231,050
1991						231,227	231,322	231,397	231,477	
1992					182,092	182,173	182,246	182,323		
1993				142,619	142,695	142,788	142,862			
1994			129,902	129,983	130,072	130,180				
1995		120,700	120,808	120,931	121,020					
1996	115,024	115,145	115,239	115,369						
1997	121,320	121,486	121,590							
1998	131,673	131,802								
1999	133,469									
2000										

Accident Year	<u>1999</u>	<u>1998</u>	<u>1997</u>	<u>1996</u>	<u>1995</u>	<u>1994</u>	<u>1993</u>	<u>1992</u>	<u>1991</u>	<u>1990</u>
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<u>2. Ult. Claim Counts (a)</u>	134,835	133,058	122,569	116,118	121,690	130,705	143,292	182,748	231,926	231,362
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3. Ultimate Indemnity Claim Settlement Ratio (b)

Accident	Evaluated as of (in months)									
Year	<u>288</u>	<u>300</u>	<u>312</u>	<u>324</u>	<u>336</u>	<u>348</u>	<u>360</u>	<u>372</u>	<u>384</u>	<u>396</u>
1990							99.8%	99.8%	99.8%	99.9%
1991						99.7%	99.7%	99.8%	99.8%	
1992					99.6%	99.7%	99.7%	99.8%		
1993				99.5%	99.6%	99.6%	99.7%			
1994			99.4%	99.4%	99.5%	99.6%				
1995		99.2%	99.3%	99.4%	99.4%					
1996	99.1%	99.2%	99.2%	99.4%						
1997	99.0%	99.1%	99.2%							
1998	99.0%	99.1%								
1999	99.0%									

(a) Based on the latest year age-to-age development in indemnity claim counts. See Exhibit 2.5.3.

(b) Ratio of closed indemnity claim counts (Item 1) to the estimated ultimate indemnity claim counts (Item 2) for that accident year.

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

Paid Loss Development Factors
Adjusted for the Impact of Claim Settlement Rate
Changes on Later Period Development

4. Ratio of Incremental Closed Indemnity Claims to Estimated Prior Open Indemnity Claims (c)

Accident	Evaluated as of (in months)									
Year	<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>	<u>372-384</u>	<u>384-396</u>
1990								---	---	---
1991							14.8%	16.7%	19.6%	
1992						13.6%	12.4%	15.1%		
1993					12.3%	12.7%	15.3%			
1994				11.3%	15.6%	14.7%				
1995			10.1%	12.3%	17.1%					
1996		10.9%	13.9%	11.7%						
1997	11.1%	9.6%	14.8%							
1998	13.3%	9.6%								
1999	9.3%									
2000										
3-Year Average	11.3%	10.0%	12.9%	11.8%	15.0%	13.7%	14.2%	15.9%	19.6%	
Share of Open on Prior (d)	88.7%	90.0%	87.1%	88.2%	85.0%	86.3%	85.8%	84.1%	80.4%	

5. Projected Open + IBNR Indemnity Claim Counts (e)

Accident	Evaluated as of (in months)									
Year	<u>288</u>	<u>300</u>	<u>312</u>	<u>324</u>	<u>336</u>	<u>348</u>	<u>360</u>	<u>372</u>	<u>384</u>	
1989										
1990										312
1991								449		449
1992							425	425		357
1993						430	430	369		310
1994					525	525	453	389		327
1995				670	670	570	492	422		355
1996			749	749	661	562	485	416		350
1997		979	979	853	752	639	552	474		398
1998	1,256	1,256	1,130	984	868	738	637	547		460
1999	1,366	1,212	1,090	949	838	712	615	528		444
...										
2020	450	400	359	313	276	235	203	174		146
2021	476	422	380	331	292	248	214	184		154

- (c) Equal to [the difference in ultimate indemnity claim settlement ratios from the prior evaluation (Item 3)] divided by [1.0 less the ultimate indemnity claim settlement ratio from the prior evaluation].
- (d) Equal to 1.0 minus the selected ratio of incremental closed indemnity claims to prior open indemnity claims from Item 4.
- (e) The italicized diagonal is equal to the Ultimate Indemnity Claim Counts (Item 2) less the Reported Closed Indemnity Claim Counts (Item 1) as of the latest evaluation. The remaining figures are projected based on the italicized diagonal and the Share of Open on Prior from Item 4.

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

Paid Loss Development Factors
Adjusted for the Impact of Claim Settlement Rate
Changes on Later Period Development

6. Ratio of Projected Open Claim Counts to Ultimate Claim Counts (f)

Accident	Evaluated as of (in months)								
Year	<u>288</u>	<u>300</u>	<u>312</u>	<u>324</u>	<u>336</u>	<u>348</u>	<u>360</u>	<u>372</u>	<u>384</u>
1990								0.2%	0.2%
1991							0.3%	0.2%	0.2%
1992						0.3%	0.3%	0.2%	0.2%
1993					0.4%	0.4%	0.3%	0.3%	0.2%
1994				0.6%	0.5%	0.4%	0.3%	0.3%	0.3%
1995			0.7%	0.6%	0.6%	0.5%	0.4%	0.3%	0.3%
1996		0.8%	0.8%	0.6%	0.6%	0.5%	0.4%	0.4%	0.3%
1997	1.0%	0.9%	0.8%	0.7%	0.6%	0.5%	0.5%	0.4%	0.3%
1998	1.0%	0.9%	0.8%	0.7%	0.7%	0.6%	0.5%	0.4%	0.3%
1999	1.0%	0.9%	0.8%	0.7%	0.6%	0.5%	0.5%	0.4%	0.3%
2000	1.0%	0.9%	0.8%	0.7%	0.6%	0.5%	0.5%	0.4%	0.3%
...									
2020	0.3%	0.3%	0.3%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%
2021	0.3%	0.3%	0.3%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%
3-Year Historical Avg.	1.0%	0.9%	0.8%	0.6%	0.5%	0.4%	0.3%	0.2%	0.2%

7. Ratio of Projected Percent Open to Historical Percent Open (g)

Accident	Evaluated as of (in months)								
Year	<u>288</u>	<u>300</u>	<u>312</u>	<u>324</u>	<u>336</u>	<u>348</u>	<u>360</u>	<u>372</u>	<u>384</u>
1990									
1991									
1992									1.08
1993								1.17	1.20
1994							1.25	1.35	1.39
1995						1.31	1.45	1.57	1.61
1996					1.18	1.36	1.50	1.62	1.67
1997				1.15	1.27	1.47	1.62	1.75	1.80
1998			1.12	1.22	1.35	1.56	1.72	1.86	1.91
1999		1.01	1.06	1.16	1.28	1.48	1.64	1.77	1.82
2000	0.98	1.00	1.05	1.15	1.27	1.47	1.62	1.76	1.80
...									
2020	0.32	0.33	0.35	0.38	0.42	0.48	0.53	0.58	0.59
2021	0.31	0.32	0.33	0.36	0.40	0.47	0.51	0.56	0.57

(f) Equal to the Projected Open + IBNR Indemnity Claim Counts (Item 5) divided by the Ultimate Indemnity Claim Counts (Item 2).
The italicized diagonals are based on historical data while the remaining figures are projections.

(g) Equal to the Ratio of Projected Open Claim Counts to Ultimate Claim Counts (Item 6) divided by the three-year historical average.

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

**Paid Loss Development Factors
Adjusted for the Impact of Claim Settlement Rate
Changes on Later Period Development**

Age-to-Age Paid Development (in months):									
Age	<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>	<u>372-384</u>	<u>384-396</u>

8. 3-Year Average (h)

Indemnity	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001
Medical	1.007	1.006	1.007	1.005	1.003	1.003	1.002	1.004	1.002

9. Adjustment Ratio (i)

Accident Year 2020	0.73	0.73	0.74	0.75	0.77	0.79	0.81	0.83	0.84
Accident Year 2021	0.72	0.73	0.73	0.75	0.76	0.79	0.81	0.82	0.83

10. Adjusted Factors (j)

Indemnity									
Accident Year 2020	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
Accident Year 2021	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
Medical									
Accident Year 2020	1.005	1.004	1.005	1.004	1.003	1.002	1.002	1.003	1.002
Accident Year 2021	1.005	1.004	1.005	1.004	1.003	1.002	1.002	1.003	1.002

(h) Indemnity development factors are from Exhibit 2.3.2. Medical development factors are from Exhibit 2.4.2 and include adjustments for SB 1160 and changes in pharmaceutical costs.

(i) Equal to the Ratio of Projected Percent Open to Historical Percent Open (Item 7) for the given accident year, with the difference from 1.0 adjusted by 40% to reflect the estimated impact of claim settlement rate changes on later period development.

(j) Equal to the [three year average factors (Item 8) - 1.0] multiplied by the Adjustment Ratio (Item 9), and adding 1.0.

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

Selected Medical Development Factors - Paid to Ultimate

Adjusted (a)(b) Accident Year	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
1998																					
1999																					
2000																					
2001																					
2002																					
2003																					
2004																					
2005																					
2006																					
2007																					
2008																					
2009																					
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2011																					
2012																					
2013																					
2014																					
2015																					
2016																					
2017																					
2018																					
2019																					
2020																					
Selected (c)	2.393(d)	1.403(d)	1.206(d)	1.108(d)	1.062(d)	1.041(d)	1.032	1.024	1.022	1.019	1.015	1.015	1.013	1.013	1.013	1.010	1.010	1.010	1.008	1.007	1.007
Cumulative Unadjusted for Impact of SB 1160	6.787	2.836	2.021	1.676	1.513	1.424	1.368	1.327	1.296	1.268	1.245	1.226	1.208	1.192	1.178	1.163	1.152	1.140	1.129	1.121	1.113
Cumulative Adjusted for Impact of SB 1160(e)	6.653	2.781	1.981	1.643	1.484	1.408	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

- (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 impact of pharmaceutical cost reductions and the 2021 changes to the Official Medical Fee Schedule and Medical-Legal Fee Schedule in order to bring the historical payments to the current pharmaceutical and medical service cost level.
 (c) Selections are two-year averages for the 12-to-24 month through 96-to-108 month factors and three-year averages for the subsequent paid age-to-age factors.
 (d) Based on calculations shown on Exhibits 2.6.3 to 2.6.8. Each of these selections are calculated as the two-year average paid medical age-to-age factor multiplied by an adjustment for changes in claim settlement rates.
 (e) The cumulative factors for 60 and 72 months are adjusted by -2.0% and -1.1%, respectively, for the impact of the SB 1160 reductions in future lien filings.

Selected Medical Development Factors - Paid to Ultimate (Continued)

Accident Year	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	432/420	444/432	ULT/444Pd (g)
1983															1.002	
1984														1.002	1.001	
1985														1.002	1.001	
1986													1.002	1.002	1.001	
1987												1.003	1.004	1.001		
1988										1.003	1.002	1.003	1.003			
1989									1.003	1.005	1.002	1.003				
1990									1.003	1.002	1.002					
1991								1.003	1.002	1.003						
1992						1.006	1.004	1.003	1.002							
1993					1.009	1.004	1.003	1.003								
1994				1.005	1.005	1.004										
1995			1.010	1.007	1.006											
1996			1.009	1.007												
1997	1.008	1.006	1.005													
1998	1.008	1.006														
1999	1.006															
Unadjusted (c)	1.007	1.007	1.007	1.006	1.007	1.005	1.003	1.003	1.002	1.004	1.002	1.003	1.003	1.002	1.001	1.074
Selected (f)	1.007	1.007	1.005	1.004	1.005	1.004	1.003	1.002	1.002	1.003	1.002	1.002	1.003	1.001	1.001	1.049
Cumulative	1.105	1.097	1.089	1.083	1.079	1.074	1.070	1.067	1.065	1.063	1.059	1.057	1.055	1.051	1.050	1.049

(f) Adjusted for the impact of changes in claim settlement rates on later period development for 288 months and later. See Exhibits 2.5.9 through 2.5.12.
(g) The UL T/444Pd tail factor was calculated based on an inverse power curve fit to a four-year average of the 108-to-120 through 348-to-360 factors 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)					
	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2012						125,460
2013					133,689	133,888
2014				139,440	139,739	139,783
2015			144,101	144,517	144,879	145,041
2016		146,569	147,579	148,024	148,310	
2017	143,824	147,182	148,276	148,677		
2018	146,831	150,284	151,295			
2019	148,977	153,123				
2020	130,256					

B. Development of Total Reported Indemnity Claim Counts

Accident Year	Age-to-Age Development (in months):					
	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	<u>72-84</u>	<u>84-Ult</u>
2013					1.001	
2014				1.002	1.000	
2015			1.003	1.003	1.001	
2016		1.007	1.003	1.002		
2017	1.023	1.007	1.003			
2018	1.024	1.007				
2019	1.028					
Latest Year	1.028	1.007	1.003	1.002	1.001	
Cumulative	1.047	1.019	1.012	1.009	1.007	1.006

Acc. Year	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>
Ult. Claim Counts	136,389	155,992	153,100	150,045	149,386	145,930

C. Closed Indemnity Claim Counts

Accident Year	Evaluated as of (in months)					
	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2012						115,444
2013					120,041	124,719
2014				120,096	126,764	130,665
2015			116,028	126,849	132,340	136,064
2016		103,970	121,700	130,555	135,979	
2017	80,816	107,610	122,382	131,203		
2018	82,696	107,278	123,048			
2019	80,504	105,750				
2020	69,061					

Source: Accident year experience of insurers with available claim count and paid loss data, excluding COVID-19 claims.

**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)					
	24	36	48	60	72	84
2012						91.6%
2013					89.1%	92.6%
2014				85.4%	90.1%	92.9%
2015			79.5%	86.9%	90.7%	93.2%
2016		69.6%	81.5%	87.4%	91.0%	
2017	53.9%	71.7%	81.6%	87.4%		
2018	54.0%	70.1%	80.4%			
2019	51.6%	67.8%				
2020	50.6%					

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

Accident Year	Evaluated as of (in months)					
	24	36	48	60	72	84
2012						117,533
2013					122,582	125,564
2014				122,979	128,018	131,131
2015			117,285	127,605	132,833	136,064
2016		101,272	120,063	130,627	135,979	
2017	75,975	101,718	120,593	131,203		
2018	77,522	103,789	123,048			
2019	78,987	105,750				
2020	69,061					

F. Average Paid Medical per Closed Indemnity Claim

Accident Year	Evaluated as of (in months)					
	24	36	48	60	72	84
2012						21,042
2013					18,490	19,874
2014				16,333	18,121	19,268
2015			13,846	16,225	17,700	18,685
2016		10,489	13,503	15,509	16,783	
2017	6,654	10,645	13,466	15,458		
2018	6,968	11,100	13,988			
2019	6,734	10,800				
2020	6,952					

- (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, excluding COVID-19 claims.

**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)					
	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2012						21,924
2013					19,230	20,165
2014				17,083	18,482	19,409
2015			14,103	16,420	17,828	18,685
2016		10,009	13,192	15,525	16,783	
2017	6,070	9,600	13,088	15,458		
2018	6,325	10,390	13,988			
2019	6,573	10,800				
2020	6,952					

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

Accident Year	Evaluated as of (in months)					
	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2012						2,576,820
2013					2,357,251	2,531,964
2014				2,100,893	2,366,033	2,545,148
2015			1,654,111	2,095,311	2,368,097	2,542,406
2016		1,013,579	1,583,865	2,028,009	2,282,091	
2017	461,147	976,491	1,578,309	2,028,081		
2018	490,325	1,078,407	1,721,165			
2019	519,213	1,142,082				
2020	480,084					

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

Accident Year	Evaluated as of (in months)					
	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2012						564,174
2013					579,109	462,493
2014				656,893	535,017	444,639
2015			784,731	621,163	517,460	452,890
2016		865,455	741,190	617,927	543,992	
2017	824,564	845,401	740,036	632,615		
2018	874,976	903,995	832,686			
2019	878,400	990,980				
2020	823,881					

- (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, excluding COVID-19 claims.

**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)					
	24	36	48	60	72	84
2012						56,327
2013					42,432	50,444
2014				33,958	41,235	48,765
2015			27,953	35,157	41,268	50,450
2016		20,316	28,641	35,373	44,116	
2017	13,087	21,364	28,579	36,203		
2018	13,643	21,020	29,479			
2019	12,828	20,919				
2020	13,463					

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)					
	24	36	48	60	72	84
2012						-117,612
2013					-107,862	-42,625
2014				-97,901	-51,667	-22,724
2015			-35,165	-26,579	-20,345	
2016		50,520	44,344	-2,547		
2017	47,271	115,660	50,959			
2018	52,755	71,399				
2019	14,526					

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

Accident Year	Evaluated as of (in months)					
	24	36	48	60	72	84
2012						446,562
2013					471,247	419,868
2014				558,993	483,349	421,915
2015			749,566	594,584	497,115	452,890
2016		915,975	785,534	615,380	543,992	
2017	871,836	961,061	790,995	632,615		
2018	927,731	975,394	832,686			
2019	892,926	990,980				
2020	823,881					

- (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, excluding COVID-19 claims.

**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)					
	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2012						227,273
2013					230,593	233,340
2014				248,836	251,127	253,275
2015			255,171	260,622	263,739	266,176
2016		265,442	273,474	278,230	282,738	
2017	273,173	284,659	291,356	296,613		
2018	288,894	303,300	315,991			
2019	289,331	308,792				
2020	235,822					

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

Accident	Evaluated as of (in months)					
<u>Year</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2012						3,558,520
2013					3,059,091	3,185,171
2014				2,908,722	3,100,509	3,220,337
2015			2,658,849	2,950,517	3,128,951	3,261,472
2016		2,194,996	2,642,873	2,921,618	3,108,821	
2017	1,606,156	2,222,211	2,660,660	2,957,309		
2018	1,706,949	2,357,101	2,869,841			
2019	1,701,471	2,441,855				
2020	1,539,787					

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

Accident Year	Evaluated as of (in months)				
	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	<u>72-84</u>
2013					1.041
2014				1.066	1.039
2015			1.110	1.060	1.042
2016		1.204	1.105	1.064	
2017	1.384	1.197	1.111		
2018	1.381	1.218			
2019	1.435				
Latest Year	1.435	1.218	1.111	1.064	1.042

(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, excluding COVID-19 claims.

**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)				
	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	<u>72-84</u>
2013					1.048
2014				1.075	1.043
2015			1.111	1.063	1.044
2016		1.197	1.099	1.064	
2017	1.391	1.177	1.104		
2018	1.378	1.197			
2019	1.428				

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

Accident Year	Evaluated as of (in months)				
	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	<u>72-84</u>
2013					-0.64%
2014				-0.87%	-0.41%
2015			-0.11%	-0.19%	-0.17%
2016		0.63%	0.60%	-0.02%	
2017	-0.56%	1.68%	0.70%		
2018	0.20%	1.74%			
2019	0.49%				

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

Accident Year	Evaluated as of (in months)				
	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	<u>72-84</u>
2013					1.044
2014				1.069	1.040
2015			1.112	1.062	1.042
2016		1.207	1.107	1.063	
2017	1.387	1.199	1.109		
2018	1.383	1.213			
2019	1.424				
Latest Year	1.424	1.213	1.109	1.063	1.042
2-Year Average	1.403	1.206	1.108	1.062	1.041
3-Year Average	1.398	1.206	1.109	1.064	1.042

- (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, excluding COVID-19 claims.

**Developed Indemnity Loss Ratios Using Selected Loss Development Factors
Adjusted for Changes in Claim Settlement Rates
Based on Experience as of December 31, 2021**

Accident Year	(1) Paid Loss Ratio (a)	Development Factors		(4) Projected Ultimate Loss Ratio (4) = (1) x (3)
		(2) Annual (b)	(3) Cumulative	
1987	0.345	1.000	1.007	0.347
1988	0.330	1.000	1.007	0.332
1989	0.342	1.001	1.008	0.345
1990	0.397	1.001	1.009	0.400
1991	0.424	1.001	1.009	0.427
1992	0.349	1.001	1.010	0.352
1993	0.286	1.001	1.011	0.289
1994	0.325	1.001	1.012	0.328
1995	0.467	1.001	1.013	0.473
1996	0.525	1.001	1.014	0.532
1997	0.594	1.001	1.015	0.602
1998	0.644	1.002	1.017	0.654
1999	0.675	1.003	1.019	0.688
2000	0.582	1.003	1.022	0.595
2001	0.482	1.002	1.024	0.494
2002	0.358	1.003	1.027	0.367
2003	0.236	1.003	1.031	0.243
2004	0.140	1.005	1.035	0.145
2005	0.120	1.005	1.041	0.125
2006	0.154	1.006	1.047	0.161
2007	0.212	1.009	1.056	0.223
2008	0.265	1.009	1.065	0.283
2009	0.308	1.011	1.077	0.331
2010	0.293	1.012	1.090	0.320
2011	0.270	1.013	1.103	0.298
2012	0.238	1.016	1.121	0.267
2013	0.200	1.018	1.141	0.228
2014	0.186	1.022	1.166	0.217
2015	0.177	1.028	1.198	0.212
2016	0.161	1.037	1.242	0.200
2017	0.156	1.058	1.314	0.205
2018	0.149	1.118	1.469	0.219
2019	0.140	1.249	1.835	0.256
2020	0.095	1.552	2.848	0.272
2021	0.038	2.986	8.505	0.321

- (a) Based on Exhibit 1.
(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, 2021**

	(1)	(2)	(3)	(4)	(5)	(6)
			Reform Adjusted			
			<u>Development Factors</u>			
Accident Year	<u>Paid Loss Ratio (a)</u>	<u>Adjusted Paid Loss Ratio (b)</u>	<u>Annual (c)</u>	<u>Cumulative (c)</u>	<u>Adjusted Developed Loss Ratio (d)</u> (2) x (4)	<u>Projected Ultimate Loss Ratio</u> (1) + ((5) - (2))
1987	0.307	0.272	1.001	1.051	0.286	0.321
1988	0.300	0.266	1.003	1.055	0.280	0.314
1989	0.319	0.283	1.002	1.057	0.299	0.335
1990	0.360	0.319	1.002	1.059	0.338	0.379
1991	0.377	0.334	1.003	1.063	0.355	0.398
1992	0.312	0.277	1.002	1.065	0.295	0.330
1993	0.257	0.228	1.002	1.067	0.243	0.272
1994	0.294	0.261	1.003	1.070	0.279	0.312
1995	0.433	0.385	1.004	1.074	0.414	0.462
1996	0.463	0.412	1.005	1.079	0.444	0.496
1997	0.519	0.462	1.004	1.083	0.500	0.558
1998	0.618	0.551	1.005	1.089	0.600	0.668
1999	0.675	0.603	1.007	1.097	0.661	0.734
2000	0.609	0.544	1.007	1.105	0.601	0.666
2001	0.538	0.482	1.007	1.113	0.537	0.592
2002	0.414	0.372	1.007	1.121	0.417	0.459
2003	0.264	0.239	1.008	1.129	0.270	0.295
2004	0.178	0.161	1.010	1.140	0.184	0.201
2005	0.174	0.158	1.010	1.152	0.181	0.198
2006	0.222	0.202	1.010	1.163	0.235	0.255
2007	0.310	0.283	1.013	1.178	0.333	0.360
2008	0.381	0.350	1.013	1.192	0.417	0.448
2009	0.441	0.408	1.013	1.208	0.492	0.526
2010	0.429	0.398	1.015	1.226	0.488	0.519
2011	0.360	0.338	1.015	1.245	0.421	0.443
2012	0.304	0.288	1.019	1.268	0.366	0.382
2013	0.240	0.237	1.022	1.296	0.308	0.311
2014	0.210	0.211	1.024	1.327	0.280	0.279
2015	0.192	0.196	1.032	1.368	0.268	0.264
2016	0.173	0.179	1.041	1.408	0.252	0.246
2017	0.168	0.173	1.062	1.484	0.257	0.251
2018	0.165	0.171	1.108	1.643	0.280	0.275
2019	0.152	0.156	1.206	1.981	0.310	0.305
2020	0.110	0.112	1.403	2.781	0.311	0.309
2021	0.050	0.050	2.393	6.653	0.335	0.335

- (a) Based on Exhibit 1. Paid MCCP costs are excluded from accident years 2011 and subsequent.
- (b) Based on experience evaluated as of December 31, 2021. Reflects adjustments for the pharmaceutical cost reductions and 2021 changes to the Official Medical Fee Schedule and Medical-Legal Fee Schedule, restating the historical medical paid-to-date ratios at a 2018 pharmaceutical cost level and a 3/31/2021 Medical Services 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	1.678	
1988	0.0	0.0	1.5	1.5	1.653	
1989	0.0	0.0	1.5	1.5	1.629	
1990	2.3	19.9	1.7	24.7	1.306	
1991	4.9	14.8	0.8	21.4	1.076	
1992	1.8	-8.3	1.6	-5.2	1.134	
1993	0.2	-18.1	0.4	-17.6	1.376	
1994	-5.1	0.2	0.6	-4.3	1.439	
1995	6.3	0.6	1.0	8.0	1.332	
1996	5.3	0.4	1.2	7.0	1.245	
1997	9.7	0.2	1.6	11.7	1.115	
1998	6.5	0.0	1.8	8.4	1.028	
1999	5.7	0.0	2.1	7.9	0.953	
2000	3.9	0.0	3.1	7.1	0.890	
2001	-0.3	0.0	0.2	-0.1	0.890	
2002	-0.7	0.0	0.4	-0.3	0.912	(e)
2003	7.3	0.0	1.2	8.6	0.909	(e)
2004	-6.0	-13.7	2.1	-17.2	1.245	(e)
2005	-31.6	-15.3	1.6	-41.2	1.687	
2006	5.6	-5.7	2.2	1.8	1.658	
2007	1.6	0.0	2.1	3.7	1.598	
2008	4.8	0.6	1.0	6.5	1.501	
2009	0.4	1.4	0.2	2.0	1.471	
2010	0.4	0.0	1.5	1.9	1.444	
2011	0.0	0.0	1.4	1.4	1.424	
2012	-0.8	0.0	2.1	1.3	1.406	
2013	1.4	0.2	0.6	2.3	1.375	
2014	5.8	1.5	1.7	9.2	1.259	
2015	-0.8	0.0	2.3	1.4	1.241	
2016	0.3	0.0	1.0	1.3	1.226	
2017	0.5	0.0	2.2	2.7	1.194	
2018	0.4	0.0	2.2	2.6	1.163	
2019	0.4	0.0	2.5	2.9	1.130	
2020	0.4	0.0	2.6	3.0	1.097	
2021	0.4	0.0	4.5	4.9	1.045	
2022	1.1	0.0	1.2	2.3	1.022	
2023	0.0	0.0	1.7	1.7	1.005	
9/1/2023	0.1 (Annual 0.4)	0.0	0.4 (Annual 2.4)	0.5		

(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 column 2 of Exhibit 5.1) of injured workers and the legislatively scheduled benefits for that year.

(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 9/1/2023 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	(1) Proportion of Medical Subject to	(2) Proportion of Medical Not Subject to	(3) Impact of Fee Schedule Change on	(4) Change in Medical	(5) Impact of CPI Change on Total	(6) Annual Non-Legislative Cost Impact on
<u>Year</u>	<u>Fee Schedule (a)</u>	<u>Fee Schedule (a)</u>	<u>Total Medical (b)</u>	<u>CPI (c)</u>	<u>Medical (d)</u>	<u>Total Medical (e)</u>
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%	3.9% (f)
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	0.918	0.082	0.0%	5.4%	0.4%	0.4%
2017	0.906	0.094	0.0%	2.2%	0.2%	0.2%
2018	0.887	0.113	0.0%	2.5%	0.2%	0.2%
2019	0.873	0.127	0.0%	3.8%	0.4%	0.4%
2020	0.866	0.134	0.0%	3.0%	0.4%	0.4%
2021	0.866	0.134	3.8%	1.1%	0.1%	0.1% (f)
2022	0.866	0.134	0.0%	2.0%	0.3%	0.3%
2023	0.866	0.134	0.0%	2.5%	0.3%	0.3%
9/1/2023	0.866	0.134	0.0% (Annual 0.0%)	0.4% (Annual 2.5%)	0.1%	0.1%

- (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 MSCP costs.
- (b) Based on the WCIRB's evaluation of the cost impact of changes in the medical fee schedules. Does not include the impact of the 2021 changes to the Official Medical Fee Schedule and Medical-Legal Fee Schedule, which are reflected in the medical loss development projections through accident year 2013.
- (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).
- (f) The impact of the 2021 changes to the Official Medical Fee Schedule and Medical-Legal Fee Schedule is applied to accident years 2012 and prior, which are not reflected in the medical loss development projections.

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	-4.5%	0.0%	-4.5%
2013	-7.4%	0.2%	-7.2%
2014	-5.9%	1.3%	-4.7%
2015	-2.0%	0.0%	-2.0%
2016	-0.6%	0.0%	-0.6%
2017	-0.3%	0.0%	-0.3%
2018	0.0%	0.0%	0.0%
2019	0.5%	0.0%	0.5%
2020	0.7%	0.0%	0.7%
2021	0.7%	0.0%	0.7%
2022	0.1%	0.0%	0.1%
2023	0.0%	0.0%	0.0%
9/1/2023	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%	0.834
1988	3.8%	0.0%	3.8%	0.803
1989	3.0%	0.0%	3.0%	0.780
1990	3.7%	19.1%	23.5%	0.632
1991	3.6%	12.9%	16.9%	0.540
1992	3.0%	-7.9%	-5.2%	0.570
1993	2.7%	-18.7%	-16.5%	0.682
1994	-2.3%	-2.3%	-4.6%	0.715
1995	0.9%	0.5%	1.4%	0.705
1996	1.0%	0.4%	1.4%	0.695
1997	0.7%	0.2%	0.9%	0.689
1998	0.8%	12.6%	13.5%	0.607
1999	2.5%	12.6%	15.4%	0.526
2000	1.7%	7.0%	8.8%	0.483
2001	2.9%	6.6%	9.7%	0.441
2002	2.0%	-5.6%	-3.7%	0.458
2003	1.4%	-6.0%	-4.7%	0.480
2004	0.0%	-33.9%	-33.9%	0.726
2005	0.0%	-13.9%	-13.9%	0.843
2006	0.3%	-5.1%	-4.8%	0.886
2007	1.8%	0.1%	1.9%	0.869
2008	0.2%	0.5%	0.7%	0.863
2009	0.4%	1.0%	1.4%	0.851
2010	0.3%	0.0%	0.3%	0.848
2011	0.3%	-2.0%	-1.7%	0.863
2012	0.1%	-4.5%	-4.4%	0.903
2013	3.9%	-7.2%	-3.6%	0.972
2014	0.3%	-4.7%	-4.4%	1.017
2015	0.2%	-2.0%	-1.8%	1.035
2016	0.4%	-0.6%	-0.2%	1.038
2017	0.2%	-0.3%	-0.1%	1.039
2018	0.2%	0.0%	0.2%	1.037
2019	0.4%	0.5%	0.9%	1.027
2020	0.4%	0.7%	1.1%	1.016
2021	0.1%	0.7%	0.8%	1.008
2022	0.3%	0.1%	0.4%	1.004
2023	0.3%	0.0%	0.3%	
9/1/2023	0.1%	0.0%	0.1%	

- (a) See Exhibit 4.2, Column (6).
- (b) See Exhibit 4.3, Column (3).
- (c) $\text{Column (3)} = [1.0 + \text{Column (1)}] \times [1.0 + \text{Column (2)}] - 1.0$.
- (d) These factors adjust the annual impact shown in Column (3) to the 9/1/2023 level.

Annual Wage Level Changes

Year	(1) Annual Wage Level Change (a)	(2) Adjusted Annual Wage Level Change (b)	(3) Factor to a 9/1/2023 Wage Level (c)
1987	5.6		3.601
1988	4.4		3.450
1989	4.3		3.307
1990	5.0		3.150
1991	2.3		3.079
1992	4.7		2.941
1993	1.2		2.906
1994	1.8		2.855
1995	2.9		2.774
1996	3.4		2.683
1997	4.7		2.563
1998	5.2		2.436
1999	6.2		2.294
2000	9.0		2.104
2001	0.6		2.092
2002	1.1		2.069
2003	3.6		1.997
2004	5.0		1.902
2005	3.2		1.843
2006	4.6		1.762
2007	4.5		1.686
2008	2.1		1.651
2009	0.5		1.643
2010	3.0		1.595
2011	3.0		1.549
2012	4.2		1.486
2013	0.7		1.476
2014	3.3		1.429
2015	4.5		1.367
2016	1.9		1.342
2017	4.3		1.287
2018	3.7		1.241
2019	4.3		1.190
2020	11.4	4.5	1.138
2021	5.8	7.7	1.057
Projected:			
2022	1.0	2.0	
2023	2.5	2.9	
9/1/2023	0.4	0.7	
	(Annual = 2.5)	(Annual = 4.1)	

- (a) Historical wage changes through 2020 are based on Bureau of Labor Statistics data. Forecasts for 2021 and forward are based on the average of wage level projections made by the UCLA Anderson School of Business as of December 2021 and those made by the California Department of Finance as of November 2021.
- (b) Wage level changes for 2020 to 2023 were adjusted for estimated shifts in industrial mix and shifts in the wage level mix within industries impacting average wages in order to more appropriately project changes in average wages for the typical worker.
- (c) Based on Column (1) for 2019 and prior and Column (2) for 2020 and subsequent.

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	Factor to Adjust Insurer Premium to an Industry Average Filed Pure Premium Rate Level as of	Adjustment to Remove Surcharge Premium (e)	Average Experience Modification (f)	Off-Balance Correction in Advisory September 1, 2021 Pure Premium	Factor to Adjust for Impact of Premium Resulting from Audits (g)	Composite Premium Adjustment Factor (h)
Calendar Year	Factor to a 9/1/2023 Wage Level (a)	Rates (b)	January 1, 2021 (c)	January 1, 2021 (d)	Premium (e)	Modification (f)	Rates	Audits (g)	Factor (h)
1987	3.601	---	---	0.589	0.992	0.983	1.015	---	2.107
1988	3.450	---	---	0.527	0.993	0.963	1.015	---	1.847
1989	3.307	---	---	0.519	0.993	0.945	1.015	---	1.776
1990	3.150	---	---	0.506	0.991	0.942	1.015	---	1.651
1991	3.079	---	---	0.469	0.987	0.939	1.015	---	1.495
1992	2.941	---	---	0.449	0.982	0.940	1.015	---	1.359
1993	2.906	---	---	0.444	0.981	0.949	1.015	---	1.315
1994	2.855	---	---	0.508	0.986	0.948	1.015	---	1.487
1995	2.774	---	---	0.688	0.995	0.958	1.015	---	1.952
1996	2.683	1.023	0.731	0.714	1.000	0.935	1.015	---	2.019
1997	2.563	0.989	0.729	0.737	1.000	0.949	1.015	---	1.961
1998	2.436	0.965	0.759	0.787	1.000	0.959	1.015	---	1.969
1999	2.294	0.972	0.767	0.790	1.000	0.954	1.015	---	1.870
2000	2.104	1.005	0.696	0.692	1.000	0.970	1.015	---	1.480
2001	2.092	1.030	0.613	0.595	1.000	0.969	1.015	---	1.265
2002	2.069	1.157	0.549	0.474	1.000	0.991	1.015	---	0.975
2003	1.997	1.266	0.449	0.355	1.000	1.005	1.015	---	0.694
2004	1.902	1.397	0.457	0.327	1.000	0.981	1.015	---	0.624
2005	1.843	1.470	0.549	0.374	1.000	0.982	1.015	---	0.691
2006	1.762	1.447	0.708	0.489	1.000	0.956	1.015	---	0.889
2007	1.686	1.493	0.965	0.646	1.000	0.931	1.015	0.985	1.136
2008	1.651	1.426	1.148	0.805	1.000	0.946	1.015	0.991	1.372
2009	1.643	1.366	1.131	0.829	1.000	0.937	1.015	1.034	1.480
2010	1.595	1.383	1.109	0.802	1.000	0.941	1.015	1.005	1.346
2011	1.549	1.401	1.108	0.791	1.000	0.982	1.015	---	1.229
2012	1.486	1.223	0.913	0.747	1.000	1.000	1.015	---	1.094
2013	1.476	1.138	0.735	0.646	1.000	0.983	1.015	---	0.956
2014	1.429	1.127	0.678	0.601	1.000	0.961	1.015	---	0.880
2015	1.367	1.110	0.658	0.593	1.000	0.951	1.015	---	0.840
2016	1.342	1.149	0.716	0.623	1.000	0.949	1.015	---	0.868
2017	1.287	1.157	0.793	0.685	1.000	0.955	1.015	---	0.910
2018	1.241	1.197	0.897	0.749	1.000	0.956	1.015	---	0.958
2019	1.190	1.216	1.042	0.857	1.000	0.945	1.015	---	1.063
2020	1.138	1.206	1.162	0.963	1.000	0.944	1.015	---	1.145
2021	1.057	1.228	1.253	1.021	1.000	0.950	1.015	---	1.119

- (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 September 1, 2021 pure premium rate level and (2) an additional adjustment factor, which is the ratio of the average advisory September 1, 2021 pure premium rate (\$1.41) to the industry average filed pure premium rate as of January 1, 2021 (\$1.86).
- (d) $(2b) \div (2a)$. This column adjusts premiums at the industry average charged rate level to the industry average filed pure premium rate level as of January 1, 2021.
- (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) $(1) \times (2c) \times (3) \times (6) \div [(4) \times (5)]$ for calendar years 2007 to 2010. $(1) \times (2c) \times (3) \div [(4) \times (5)]$ for all other calendar years.

Accident Year Indemnity Claim Frequency Model
As of PY 2019 Preliminary 1st Set & December 2021 UCLA

AY	Annual % Changes Intra- Class Ind Freq	Annual Log Differences					
		Intra-Class Indemnity Frequency per \$M Exposure at PY 2020 Level			AY+1 Indemnity Benefit Level	Cumulative Injury Index	Economic Variables (1st Prin. Comp.)
		Total	Cumulative	Non-cum.			
1979	0.5%	0.005	-0.053	0.007	0.000	-0.060	0.129
1980	-6.5%	-0.068	-0.132	-0.066	0.000	-0.066	-0.078
1981	-3.5%	-0.036	-0.028	-0.036	0.033	0.008	-0.076
1982	-1.6%	-0.016	0.153	-0.022	0.000	0.175	-0.285
1983	6.2%	0.060	0.214	0.054	0.352	0.160	0.028
1984	9.5%	0.091	0.235	0.084	0.081	0.151	0.215
1985	2.0%	0.020	0.138	0.014	0.000	0.124	0.078
1986	-2.4%	-0.024	0.039	-0.028	0.000	0.067	0.075
1987	1.5%	0.015	0.053	0.013	0.000	0.041	0.145
1988	0.7%	0.007	0.104	0.000	0.000	0.104	0.084
1989	2.5%	0.024	0.212	0.009	0.000	0.203	0.043
1990	9.0%	0.087	0.337	0.061	0.046	0.276	-0.115
1991	0.3%	0.003	0.166	-0.018	0.071	0.184	-0.282
1992	-10.3%	-0.108	-0.263	-0.089	0.023	-0.174	-0.181
1993	-9.2%	-0.097	-0.175	-0.088	0.013	-0.088	-0.021
1994	-10.5%	-0.111	-0.167	-0.105	-0.057	-0.061	0.103
1995	-0.3%	-0.003	0.009	-0.004	0.061	0.013	0.089
1996	-6.8%	-0.070	-0.165	-0.061	0.053	-0.104	0.072
1997	-3.3%	-0.033	-0.026	-0.034	0.096	0.008	0.132
1998	-3.7%	-0.038	-0.020	-0.040	0.066	0.019	0.075
1999	1.5%	0.015	0.010	0.015	0.058	-0.005	0.122
2000	4.0%	0.039	0.101	0.033	0.040	0.068	0.063
2001	-6.9%	-0.072	0.106	-0.091	-0.003	0.197	-0.096
2002	-2.3%	-0.023	0.202	-0.055	-0.007	0.257	-0.194
2003	-2.9%	-0.029	0.028	-0.038	0.060	0.067	-0.022
2004	-16.7%	-0.182	-0.318	-0.161	-0.065	-0.158	0.090
2005	-13.6%	-0.146	-0.342	-0.120	-0.398	-0.222	0.135
2006	-5.6%	-0.058	-0.204	-0.042	0.051	-0.163	0.090
2007	-1.7%	-0.017	-0.042	-0.015	0.016	-0.027	-0.080
2008	-2.7%	-0.027	-0.012	-0.029	0.049	0.017	-0.296
2009	-0.2%	-0.002	0.134	-0.016	0.069	0.150	-0.414
2010	8.9%	0.085	0.115	0.081	0.016	0.034	-0.090
2011	1.2%	0.012	0.028	0.010	0.000	0.017	0.048
2012	4.7%	0.046	0.115	0.037	0.003	0.077	0.123
2013	0.4%	0.004	0.131	-0.014	0.019	0.145	0.155
2014	0.2%	0.002	0.046	-0.005	0.070	0.051	0.179
2015	-1.4%	-0.015	0.008	-0.018	0.000	0.026	0.194
2016	-2.7%	-0.027	0.029	-0.036	0.000	0.066	0.126
2017	-1.9%	-0.019	-0.083	-0.008	0.000	-0.075	0.133
2018	-0.5%	-0.005	-0.055	0.003	0.000	-0.058	0.126
2019	-0.6%	-0.006	0.037	-0.013	0.000	0.050	0.032
2020*	-4.3%	-0.044	0.179	-0.090	0.000	0.269	-0.900
2021	1.0%	0.010	-0.014	0.015	0.000	0.098	0.273
2022	-0.5%	-0.005	-0.015	-0.003	0.000	-0.013	0.327
2023	-3.8%	-0.039	-0.102	-0.025	0.000	-0.078	0.245
2024	-7.1%	-0.073	-0.154	-0.057	0.000	-0.097	-0.031

Y = Hazardousness-Adjusted Noncumulative Indemnity Claim Frequency

Constant	-0.034
Std Err of Y Est	0.039
R Squared	0.466
No. of Observations	42
Degrees of Freedom	38

X Coefficient(s)	0.187	0.209	0.103
Std Err of Coef.	0.075	0.061	0.044

Notes:

The Indemnity Benefit Level variable is concurrent. The AY 2004 benefit level change is related to the AY 2004 change in non-cumulative frequency.

The Indemnity Benefit Level variable excludes indemnity benefit utilization, cost-of-living adjustments, 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 Actuarial Committee item AC14-03-19.

The definition of cumulative claims has been further amended to include claims coded with certain nature of injury codes in USR. See Actuarial Committee item AC21-12-09.

The cumulative injury index is forecasted using a time series model with an autoregressive term of degree 2. See Actuarial Committee item AC21-12-09.

Economic variables are historical through 2020; December 2021 UCLA Anderson Forecasts for 2021 on.

The indicator variable for Cal-OSHA inspections has been moved into an on-level adjustment. See Actuarial Committee item AC21-12-09.

Regression is over AY 1979 through AY 2020. AY 2021 through AY 2024 are projections.

The constant term is unadjusted and no longer includes measured offsets of -0.020 that recognized annual changes in real benefit levels relative to nominal benefit levels and long-term economic growth. Future studies showed that the inclusion of the offset was only necessary because projections of changes in the cumulative injury index were not included as part of forecast frequency changes. See Actuarial Committee Item AC21-12-09.

*AY 2020 is preliminary and change is based on a comparison of 2020 accidents on 2019 policies to 2019 accidents on 2018 policies.

**Projection of Indemnity Severity Trends by Accident Year
Based on Experience as of December 31, 2021**

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	10,001	---	2.088	20,886	---
1991	10,952	9.5%	1.975	21,631	3.6%
1992	11,044	0.8%	1.910	21,088	-2.5%
1993	11,999	8.7%	1.898	22,776	8.0%
1994	12,963	8.0%	1.988	25,774	13.2%
1995	14,552	12.3%	1.852	26,948	4.6%
1996	16,440	13.0%	1.738	28,570	6.0%
1997	19,257	17.1%	1.559	30,026	5.1%
1998	21,129	9.7%	1.438	30,386	1.2%
1999	23,140	9.5%	1.333	30,837	1.5%
2000	24,620	6.4%	1.244	30,628	-0.7%
2001	27,108	10.1%	1.245	33,757	10.2%
2002	26,143	-3.6%	1.276	33,346	-1.2%
2003	25,918	-0.9%	1.272	32,957	-1.2%
2004	21,115	-18.5%	1.502	31,719	-3.8%
2005	19,139	-9.4%	1.724	33,004	4.1%
2006	20,830	8.8%	1.598	33,283	0.8%
2007	22,712	9.0%	1.540	34,984	5.1%
2008	24,690	8.7%	1.455	35,929	2.7%
2009	25,888	4.8%	1.447	37,447	4.2%
2010	25,274	-2.4%	1.419	35,876	-4.2%
2011	24,896	-1.5%	1.400	34,851	-2.9%
2012	24,270	-2.5%	1.383	33,554	-3.7%
2013	23,593	-2.8%	1.355	31,961	-4.7%
2014	24,429	3.5%	1.259	30,761	-3.8%
2015	24,725	1.2%	1.241	30,691	-0.2%
2016	24,016	-2.9%	1.226	29,436	-4.1%
2017	24,058	0.2%	1.194	28,718	-2.4%
2018	24,833	3.2%	1.163	28,878	0.6%
2019	26,453	6.5%	1.130	29,900	3.5%
2020	27,958	5.7%	1.097	30,672	2.6%
2021	29,008	3.8%	1.045	30,323	-1.1%
(6) Estimated Annual Exponential Trend Based on 1990 to 2021:					0.9%
(7) Estimated Annual Exponential Trend Based on 2005 to 2021:					-1.3%
(8) Estimated Annual Exponential Trend Based on 2017 to 2021:					1.7%
Selected Indemnity Severity Trend:					1.0%

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

Source: WCIRB quarterly experience calls, excluding COVID-19 claims.

**Projection of Medical Severity Trends by Accident Year
Based on Experience as of December 31, 2021**

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	8,832	---	0.947	8,366	---
1991	9,520	7.8%	0.929	8,846	5.7%
1992	9,577	0.6%	0.898	8,597	-2.8%
1993	10,438	9.0%	0.880	9,187	6.9%
1994	11,444	9.6%	0.925	10,585	15.2%
1995	13,226	15.6%	0.917	12,124	14.5%
1996	14,305	8.2%	0.908	12,984	7.1%
1997	16,799	17.4%	0.901	15,141	16.6%
1998	20,436	21.7%	0.794	16,229	7.2%
1999	23,466	14.8%	0.688	16,146	-0.5%
2000	26,251	11.9%	0.632	16,598	2.8%
2001	31,245	19.0%	0.576	18,010	8.5%
2002	31,385	0.4%	0.599	18,788	4.3%
2003	30,048	-4.3%	0.628	18,872	0.4%
2004	27,649	-8.0%	0.831	22,970	21.7%
2005	28,518	3.1%	0.831	23,692	3.1%
2006	31,007	8.7%	0.827	25,656	8.3%
2007	34,504	11.3%	0.812	28,018	9.2%
2008	37,028	7.3%	0.809	29,947	6.9%
2009	38,946	5.2%	0.806	31,372	4.8%
2010	38,941	0.0%	0.803	31,275	-0.3%
2011	35,059 (c)	---	0.825	28,941 (c)	---
2012	32,812	-6.4%	0.872	28,604	-1.2%
2013	30,274	-7.7%	0.951	28,782	0.6%
2014	29,494	-2.6%	1.012	29,837	3.7%
2015	28,787	-2.4%	1.035	29,809	-0.1%
2016	27,505	-4.5%	1.038	28,539	-4.3%
2017	27,388	-0.4%	1.039	28,446	-0.3%
2018	28,903	5.5%	1.037	29,959	5.3%
2019	29,187	1.0%	1.027	29,984	0.1%
2020	29,632	1.5%	1.016	30,109	0.4%
2021	28,126	-5.1%	1.008	28,351	-5.8%

Selected Medical Severity Trend: 1.0%

- (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 (6).
- (b) These adjustment factors are based on Exhibit 4.4, excluding the impact of frequency, and including the impact of SB 1160 provisions and 2021 changes to the Official Medical Fee Schedule and Medical-Legal Fee Schedule, 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 quarterly experience calls, excluding COVID-19 claims.

**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, 2021**

(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	28,518	---	23,692	---	27,043	---	22,466	---
2006	31,007	8.7%	25,656	8.3%	29,093	7.6%	24,073	7.2%
2007	34,504	11.3%	28,018	9.2%	32,237	10.8%	26,176	8.7%
2008	37,028	7.3%	29,947	6.9%	33,818	4.9%	27,351	4.5%
2009	38,946	5.2%	31,372	4.8%	35,725	5.6%	28,778	5.2%
2010	38,941	0.0%	31,275	-0.3%	35,685	-0.1%	28,660	-0.4%
2011	38,387	-1.4%	31,688	1.3%	35,059	-1.8%	28,941	1.0%
2012	35,838	-6.6%	31,242	-1.4%	32,812	-6.4%	28,604	-1.2%
2013	33,148	-7.5%	31,515	0.9%	30,274	-7.7%	28,782	0.6%
2014	32,234	-2.8%	32,609	3.5%	29,494	-2.6%	29,837	3.7%
2015	31,351	-2.7%	32,464	-0.4%	28,787	-2.4%	29,809	-0.1%
2016	29,877	-4.7%	31,000	-4.5%	27,505	-4.5%	28,539	-4.3%
2017	29,753	-0.4%	30,902	-0.3%	27,388	-0.4%	28,446	-0.3%
2018	31,414	5.6%	32,562	5.4%	28,903	5.5%	29,959	5.3%
2019	31,873	1.5%	32,743	0.6%	29,187	1.0%	29,984	0.1%
2020	32,471	1.9%	32,994	0.8%	29,632	1.5%	30,109	0.4%
2021	30,876	-4.9%	31,124	-5.7%	28,126	-5.1%	28,351	-5.8%
Estimated Annual Exponential Trend								
Trend Based on 1990 to 2021:				4.9%	N/A			
Trend Based on 2005 to 2021:				1.3%	1.2%			
Trend Based on 2017 to 2021:				0.3%	0.0%			
Selected Medical Severity Trend:								1.0%

- (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 quarterly experience calls, excluding COVID-19 claims.

Quarterly Incurred Indemnity Loss Development Factors
Through December 31, 2021

Age in	Accident Year																						
Months	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
6/3	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	3.372	3.200	3.228	--	3.155	
9/6	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	2.017	--	1.970	
12/9	1.518	1.500	1.520	1.473	1.460	1.355	1.448	1.511	1.510	1.530	1.564	1.632	1.587	1.585	1.570	1.578	1.578	1.580	1.578	1.597	--	1.563	
15/12	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	1.295	1.264		
18/15	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	1.189	1.168		
21/18	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	1.123	1.128	1.123		
24/21	1.121	1.111	1.117	1.094	1.045	1.082	1.098	1.106	1.106	1.114	1.119	1.117	1.111	1.104	1.114	1.111	1.104	1.100	1.102	1.094	1.098		
27/24	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	1.071	1.073			
30/27	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	1.066	1.062			
33/30	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	1.045	1.045			
36/33	1.039	1.046	1.035	1.020	1.029	1.033	1.039	1.043	1.051	1.049	1.049	1.043	1.041	1.043	1.042	1.036	1.037	1.038	1.029	1.034			
39/36	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	1.030	1.028	1.028	1.027				
42/39	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	1.028	1.023				
45/42	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	1.016	1.016				
48/45	1.022	1.013	1.008	1.013	1.013	1.021	1.019	1.021	1.024	1.024	1.026	1.023	1.024	1.020	1.020	1.016	1.017	1.014	1.015				
51/48	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	1.014	1.013					
54/51	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	1.015	1.011					
57/54	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	1.009	1.009					
60/57	1.007	1.005	1.008	1.009	1.011	1.013	1.019	1.016	1.013	1.015	1.012	1.014	1.012	1.012	1.011	1.007	1.007	1.009					
63/60	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	1.008	1.010	1.007	1.007						
66/63	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	1.007	1.007						
69/66	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	1.007	1.005						
72/69	1.005	1.005	1.005	1.009	1.009	1.013	1.011	1.009	1.009	1.009	1.010	1.008	1.007	1.007	1.005	1.005	1.007						
75/72	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	1.004	1.006							
78/75	1.003	1.007	1.005	1.006	1.006	1.012	1.009	1.010	1.006	1.006	1.006	1.007	1.005	1.006	1.005	1.006							
81/78	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	1.003	1.003							
84/81	1.005	1.003	1.006	1.006	1.007	1.008	1.005	1.009	1.006	1.004	1.007	1.004	1.007	1.003	1.004	1.002							
87/84	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	1.003	1.002								
90/87	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	1.004	1.003								
93/90	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	1.003	1.004								
96/93	1.001	1.004	1.002	1.006	1.006	1.003	1.002	1.003	1.004	1.004	1.003	1.003	1.003	1.003	1.002								

Source: WCIRB accident year experience calls, excluding COVID-19 claims.

Quarterly Incurred Medical Loss Development Factors *
Through December 31, 2021

Age in	Accident Year																					
Months	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
6/3	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	3.209	2.891	2.830	--	2.870
9/6	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	1.740	1.821	1.845	--	1.748
12/9	1.463	1.447	1.570	1.425	1.400	1.375	1.453	1.443	1.466	1.454	1.488	1.521	1.484	1.500	1.482	1.451	1.487	1.448	1.459	1.470	--	1.429
15/12	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	1.184	1.191	1.183	1.167	
18/15	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	1.100	1.092	
21/18	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	1.064	1.060	1.078	
24/21	1.080	1.083	1.082	1.060	1.040	1.052	1.070	1.074	1.067	1.074	1.080	1.080	1.067	1.064	1.055	1.059	1.057	1.046	1.044	1.052	1.054	
27/24	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	1.040	1.036	1.030	1.033		
30/27	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	1.036	1.037		
33/30	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	1.029	1.024	1.028		
36/33	1.035	1.040	1.029	1.016	1.024	1.034	1.042	1.033	1.042	1.040	1.041	1.037	1.028	1.026	1.027	1.021	1.021	1.020	1.016	1.021		
39/36	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	1.018	1.016			
42/39	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	1.015	1.014			
45/42	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	1.009	1.013			
48/45	1.026	1.017	1.008	1.013	1.025	1.018	1.022	1.025	1.029	1.034	1.022	1.023	1.020	1.018	1.014	1.008	1.012	1.008	1.011			
51/48	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	1.008	1.009				
54/51	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	1.012	1.005				
57/54	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	1.007	1.007				
60/57	1.015	1.009	1.008	1.014	1.020	1.019	1.018	1.017	1.019	1.016	1.015	1.014	1.012	1.007	1.007	1.005	1.005	1.007				
63/60	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	1.005	1.004					
66/63	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	1.006	1.006					
69/66	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	1.003	1.002					
72/69	1.007	1.009	1.015	1.010	1.014	1.015	1.013	1.014	1.012	1.011	1.010	1.007	1.005	1.005	1.002	1.003	1.005					
75/72	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	1.003	1.002						
78/75	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	1.005	1.003						
81/78	1.006	1.009	1.010	1.014	1.018	1.017	1.016	1.009	1.009	1.005	1.006	1.006	1.005	1.004	1.002	1.002						
84/81	1.009	1.014	1.009	1.007	1.012	1.011	1.008	1.010	1.008	1.007	1.005	1.001	1.003	1.002	1.002	0.999						
87/84	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	1.002	1.001							
90/87	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	1.001	1.004							
93/90	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	1.000	1.003							
96/93	1.010	1.012	1.008	1.010	1.011	1.009	1.005	1.006	1.005	1.003	1.002	1.001	1.003	1.002	1.002							

Source: WCIRB accident year experience calls, excluding COVID-19 claims.

* 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, 2021

Age in	Accident Year																					
Months	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
6/3	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	5.272	4.987	5.082	--	5.097
9/6	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	2.446	2.538	2.505	--	2.445
12/9	1.839	1.855	1.897	1.876	1.841	1.774	1.812	1.834	1.810	1.825	1.861	1.869	1.877	1.866	1.879	1.910	1.882	1.892	1.891	1.902	--	1.846
15/12	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	1.522	1.505	
18/15	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	1.341	1.329	
21/18	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	1.258	1.242	
24/21	1.256	1.258	1.260	1.244	1.183	1.181	1.195	1.191	1.194	1.206	1.209	1.215	1.213	1.204	1.216	1.211	1.206	1.205	1.206	1.193	1.190	
27/24	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	1.152	1.154		
30/27	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	1.116	1.125		
33/30	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	1.103	1.101		
36/33	1.103	1.115	1.111	1.097	1.085	1.081	1.080	1.084	1.092	1.094	1.098	1.091	1.091	1.096	1.092	1.089	1.088	1.083	1.077	1.084		
39/36	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	1.064	1.066			
42/39	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	1.050	1.056			
45/42	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	1.044	1.045			
48/45	1.055	1.053	1.046	1.044	1.041	1.044	1.043	1.047	1.049	1.051	1.050	1.048	1.048	1.048	1.045	1.041	1.040	1.037	1.039			
51/48	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	1.031	1.031				
54/51	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	1.024	1.030				
57/54	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	1.024	1.024				
60/57	1.027	1.026	1.024	1.024	1.024	1.024	1.028	1.029	1.029	1.032	1.027	1.030	1.028	1.025	1.025	1.023	1.020	1.021				
63/60	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	1.018	1.016					
66/63	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	1.014	1.016					
69/66	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	1.013	1.015					
72/69	1.018	1.016	1.016	1.015	1.017	1.015	1.020	1.019	1.019	1.019	1.019	1.019	1.016	1.014	1.016	1.012	1.011					
75/72	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	1.012	1.011						
78/75	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	1.009	1.012						
81/78	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	1.008	1.009						
84/81	1.013	1.010	1.010	1.009	1.011	1.013	1.015	1.014	1.013	1.012	1.013	1.013	1.011	1.010	1.009	1.009						
87/84	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	1.007	1.006							
90/87	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	1.007	1.007							
93/90	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	1.007	1.006							
96/93	1.006	1.007	1.007	1.007	1.008	1.011	1.011	1.008	1.010	1.010	1.009	1.010	1.007	1.007	1.007							

Source: WCIRB accident year experience calls, excluding COVID-19 claims.

Quarterly Paid Medical Loss Development Factors *
Through December 31, 2021

Age in	Accident Year																					
Months	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
6/3	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	5.433	5.460	4.986	--	6.111
9/6	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	2.248	2.351	2.287	--	2.238
12/9	1.749	1.857	1.882	1.825	1.759	1.666	1.716	1.765	1.731	1.723	1.756	1.746	1.763	1.736	1.750	1.705	1.752	1.737	1.719	1.796	--	1.720
15/12	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	1.432	1.434	
18/15	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	1.263	1.250	1.245	1.231	1.269	
21/18	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	1.170	1.192	
24/21	1.149	1.159	1.154	1.125	1.115	1.118	1.127	1.133	1.132	1.137	1.144	1.153	1.154	1.148	1.146	1.146	1.141	1.131	1.143	1.138	1.150	
27/24	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	1.108	1.114		
30/27	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	1.083	1.101		
33/30	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	1.078	1.084		
36/33	1.069	1.076	1.061	1.055	1.062	1.062	1.071	1.072	1.072	1.077	1.083	1.082	1.078	1.080	1.076	1.071	1.067	1.065	1.066	1.074		
39/36	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	1.054	1.054			
42/39	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	1.040	1.048			
45/42	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	1.039	1.043			
48/45	1.044	1.037	1.032	1.035	1.037	1.043	1.043	1.046	1.047	1.050	1.051	1.046	1.045	1.046	1.041	1.040	1.038	1.033	1.039			
51/48	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	1.030	1.027				
54/51	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	1.023	1.029				
57/54	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	1.023	1.023				
60/57	1.026	1.021	1.023	1.026	1.028	1.029	1.028	1.032	1.032	1.035	1.030	1.030	1.030	1.023	1.022	1.021	1.019	1.021				
63/60	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	1.021	1.022	1.019	1.018					
66/63	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	1.015	1.016					
69/66	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	1.014	1.016					
72/69	1.016	1.017	1.018	1.016	1.021	1.021	1.022	1.022	1.023	1.021	1.020	1.019	1.016	1.015	1.017	1.014	1.013					
75/72	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	1.014	1.012						
78/75	1.014	1.015	1.016	1.015	1.016	1.018	1.017	1.022	1.019	1.018	1.017	1.017	1.015	1.013	1.011	1.012						
81/78	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	1.009	1.010						
84/81	1.013	1.012	1.012	1.013	1.016	1.016	1.015	1.018	1.015	1.015	1.015	1.013	1.013	1.010	1.009	1.010						
87/84	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	1.008	1.008							
90/87	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	1.008	1.009							
93/90	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	1.006	1.007							
96/93	1.008	1.010	1.010	1.009	1.013	1.015	1.016	1.011	1.012	1.010	1.009	1.009	1.009	1.006	1.007							

Source: WCIRB accident year experience calls, excluding COVID-19 claims.

* 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	Development															
Year	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
1996															1.000	1.000
1997														1.000	1.000	1.000
1998													1.000	1.000	1.000	1.000
1999												1.000	1.000	1.000	1.000	1.000
2000											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
2002									1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2003								0.999	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000
2004							0.999	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005						1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2006					1.001	1.000	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2007				1.004	1.002	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2008			1.011	1.005	1.003	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000			
2009		1.028	1.011	1.006	1.004	1.001	1.001	1.000	1.001	1.000	1.000	1.000				
2010	1.216	1.029	1.011	1.006	1.002	1.002	1.001	1.001	1.001	1.000	1.000					
2011	1.229	1.032	1.013	1.005	1.002	1.001	1.001	1.000	1.000	1.000						
2012	1.244	1.034	1.010	1.005	1.003	1.002	1.001	1.000	1.001							
2013	1.248	1.025	1.010	1.005	1.002	1.001	1.001	1.001								
2014	1.215	1.027	1.010	1.004	1.002	1.000	1.001									
2015	1.236	1.027	1.005	1.003	1.003	1.001										
2016	1.244	1.028	1.007	1.003	1.002											
2017	1.220	1.023	1.007	1.003												
2018	1.226	1.024	1.007													
2019	1.222	1.028														
2020	1.220															
	Latest Year															
	Age-to-Age															
	1.220	1.028	1.007	1.003	1.002	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	Age-to-Ultimate															
	1.278	1.047	1.019	1.012	1.009	1.007	1.006	1.005	1.004	1.003	1.002	1.002	1.002	1.002	1.002	1.002

Source: WCIRB accident year experience calls, excluding COVID-19 claims.

Quarterly Reported Indemnity Claim Count Development Factors

Accident Year	Development														
	<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>
2009	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
2010	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
2011	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
2012	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
2013	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
2014	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
2015	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
2016	2.817	1.781	1.414	1.135	1.045	1.023	1.014	1.012	1.010	1.005	1.004	1.003	1.002	1.002	1.002
2017	2.733	1.717	1.410	1.134	1.043	1.026	1.014	1.009	1.008	1.005	1.004	1.002	1.003	1.002	1.002
2018	2.827	1.732	1.414	1.139	1.045	1.023	1.017	1.010	1.008	1.006	1.002	1.002	1.002	1.002	1.002
2019	2.779	1.749	1.424	1.137	1.034	1.023	1.015	1.010	1.009	1.005	1.004				
2020	--	--	--	1.128	1.041	1.024	1.014								
2021	2.803	1.740	1.405												

Source: WCIRB accident year experience calls, excluding COVID-19 claims.

Reported Indemnity Claim Settlement Ratios

Accident	Evaluated as of (in months):																
Year	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204
1996																	98.6%
1997																98.2%	98.4%
1998															97.8%	98.0%	98.2%
1999														97.3%	97.7%	97.9%	98.1%
2000													96.6%	97.2%	97.5%	97.8%	98.0%
2001												95.3%	96.0%	96.5%	97.0%	97.4%	97.7%
2002											94.7%	95.8%	96.4%	96.9%	97.4%	97.7%	98.0%
2003										93.7%	95.2%	95.9%	96.4%	97.0%	97.5%	97.9%	98.3%
2004									92.4%	94.3%	95.3%	96.0%	96.8%	97.3%	97.8%	98.2%	98.5%
2005								90.7%	93.0%	94.4%	95.4%	96.4%	97.0%	97.6%	98.0%	98.4%	98.6%
2006							88.2%	91.2%	93.0%	94.3%	95.5%	96.4%	97.1%	97.6%	98.0%	98.3%	
2007						84.6%	88.8%	91.3%	93.2%	94.8%	96.0%	96.7%	97.4%	97.9%	98.3%		
2008					79.1%	84.9%	88.7%	91.5%	93.7%	95.1%	96.2%	97.0%	97.6%	97.9%			
2009				70.6%	79.0%	84.5%	88.5%	91.7%	93.8%	95.3%	96.4%	97.1%	97.6%				
2010			60.6%	72.4%	80.4%	85.9%	90.1%	92.8%	94.7%	96.0%	96.9%	97.5%					
2011		47.1%	62.1%	73.6%	81.6%	87.1%	91.0%	93.6%	95.4%	96.4%	97.1%						
2012	27.5%	47.9%	63.2%	74.9%	82.9%	88.4%	92.0%	94.4%	95.8%	96.7%							
2013	26.9%	48.1%	64.4%	76.6%	84.8%	89.8%	93.2%	95.1%	96.3%								
2014	26.5%	49.2%	65.9%	78.2%	86.1%	90.7%	93.5%	95.3%									
2015	26.9%	50.6%	68.3%	80.5%	87.8%	91.3%	93.8%										
2016	28.3%	53.4%	70.9%	82.5%	88.2%	91.7%											
2017	30.4%	56.2%	73.1%	82.5%	88.2%												
2018	31.1%	56.3%	71.4%	81.3%													
2019	31.1%	54.0%	69.1%														
2020	30.0%	53.0%															
2021	31.5%																

Source: WCIRB accident year experience calls, excluding COVID-19 claims.

Estimated Ultimate Indemnity Claim Settlement Ratios

Accident	Evaluated as of (in months):																
Year	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204
1996																	99.8%
1997																97.8%	98.1%
1998															97.5%	97.8%	98.0%
1999														97.0%	97.5%	97.7%	97.9%
2000													96.3%	96.9%	97.3%	97.6%	97.8%
2001												95.0%	95.8%	96.3%	96.7%	97.1%	97.5%
2002											94.5%	95.6%	96.2%	96.7%	97.1%	97.5%	97.8%
2003										93.6%	95.0%	95.7%	96.2%	96.8%	97.3%	97.7%	98.1%
2004									92.3%	94.1%	95.1%	95.9%	96.6%	97.1%	97.6%	98.0%	98.3%
2005								90.6%	92.9%	94.3%	95.3%	96.2%	96.9%	97.4%	97.9%	98.2%	98.4%
2006							87.9%	90.9%	92.8%	94.2%	95.4%	96.3%	96.9%	97.5%	97.9%	98.1%	
2007						84.3%	88.5%	91.1%	93.0%	94.6%	95.7%	96.6%	97.3%	97.7%	98.1%		
2008					78.3%	84.4%	88.3%	91.1%	93.4%	94.8%	95.9%	96.8%	97.4%	97.7%			
2009				69.6%	78.2%	84.0%	88.1%	91.4%	93.5%	95.1%	96.2%	96.9%	97.4%				
2010			59.1%	71.4%	79.8%	85.3%	89.7%	92.5%	94.4%	95.8%	96.7%	97.3%					
2011		44.5%	60.5%	72.6%	80.9%	86.5%	90.6%	93.3%	95.1%	96.1%	96.9%						
2012	20.8%	45.2%	61.7%	73.9%	82.2%	87.8%	91.6%	94.0%	95.4%	96.4%							
2013	20.5%	45.9%	62.9%	75.5%	84.0%	89.1%	92.6%	94.6%	95.9%								
2014	20.7%	46.8%	64.5%	77.2%	85.4%	90.1%	92.9%	94.8%									
2015	20.8%	48.4%	67.1%	79.5%	86.9%	90.7%	93.2%										
2016	21.7%	51.0%	69.6%	81.5%	87.4%	91.0%											
2017	23.9%	53.9%	71.7%	81.6%	87.4%												
2018	24.4%	54.0%	70.1%	80.4%													
2019	24.3%	51.6%	67.8%														
2020	23.5%	50.6%															
2021	24.7%																

Source: WCIRB quarterly calls for experience, excluding COVID-19 claims.

Quarterly Ultimate Settlement Ratios

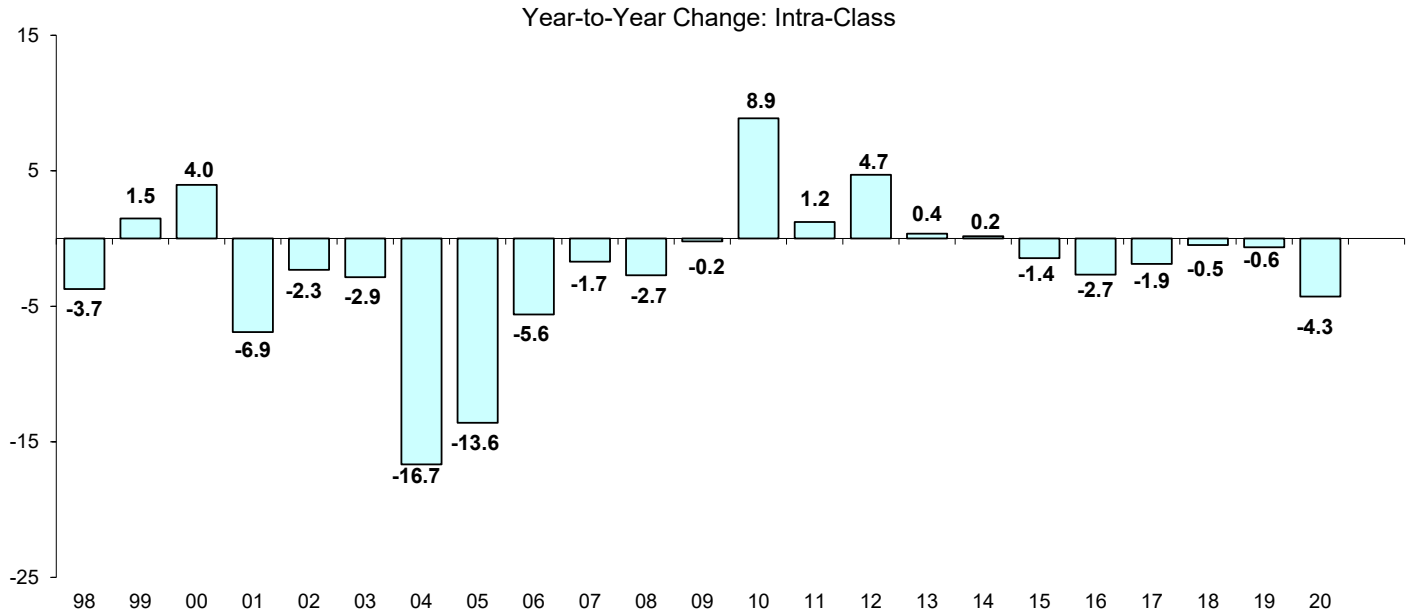
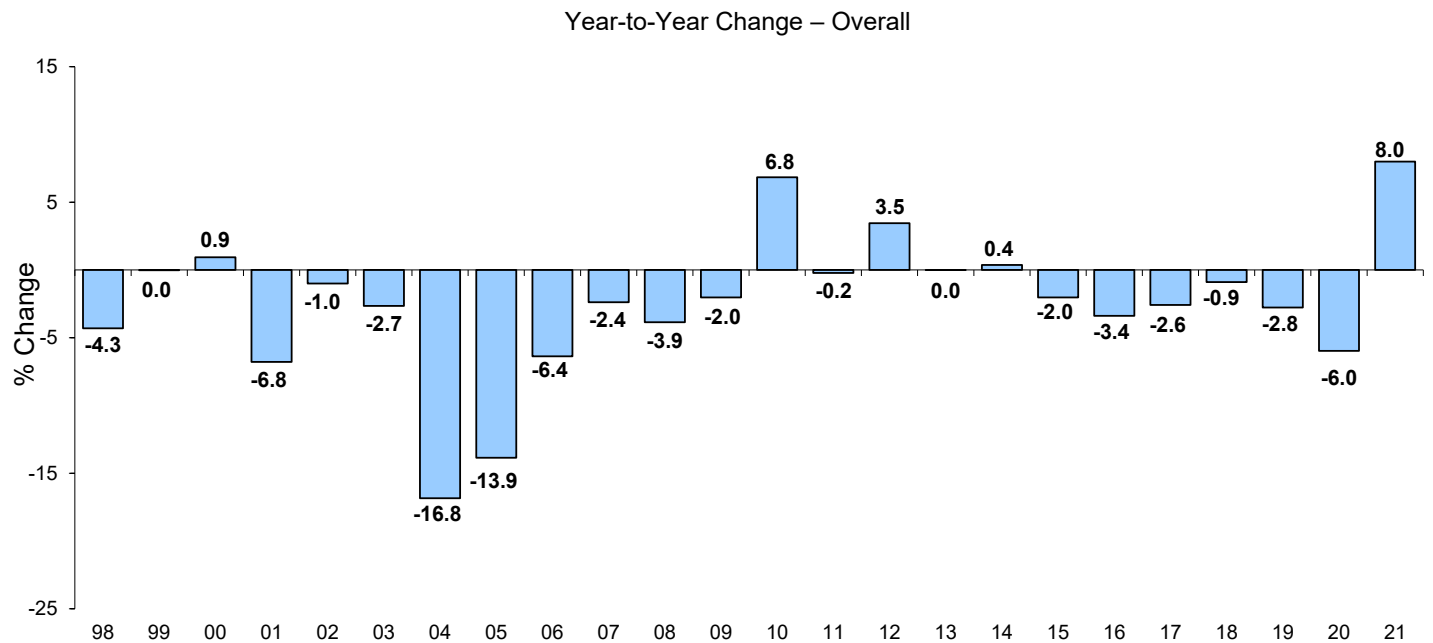
Accident Year	Evaluated as of (in months):															
	<u>3</u>	<u>6</u>	<u>9</u>	<u>12</u>	<u>15</u>	<u>18</u>	<u>21</u>	<u>24</u>	<u>27</u>	<u>30</u>	<u>33</u>	<u>36</u>	<u>39</u>	<u>42</u>	<u>45</u>	<u>48</u>
2012	0.8%	4.9%	11.9%	20.8%	28.9%	35.4%	40.3%	45.2%	49.3%	53.5%	57.7%	61.7%	65.1%	68.2%	71.1%	73.9%
2013	0.9%	4.9%	11.4%	20.5%	28.9%	35.4%	40.8%	45.9%	50.4%	54.8%	59.0%	62.9%	66.5%	69.8%	72.8%	75.5%
2014	0.8%	4.7%	11.6%	20.7%	29.3%	36.1%	41.8%	46.8%	51.7%	56.2%	60.5%	64.5%	68.0%	71.5%	74.5%	77.2%
2015	0.8%	4.7%	11.9%	20.8%	30.1%	37.4%	43.1%	48.4%	53.7%	58.7%	63.1%	67.1%	70.9%	74.2%	77.0%	79.5%
2016	0.8%	5.0%	12.2%	21.7%	31.5%	39.3%	45.3%	51.0%	56.2%	61.3%	65.6%	69.6%	73.5%	76.7%	79.3%	81.5%
2017	0.9%	5.5%	13.3%	23.9%	34.1%	41.9%	48.1%	53.9%	59.2%	63.9%	68.1%	71.7%	75.3%	77.5%	79.8%	81.6%
2018	1.0%	5.8%	13.8%	24.4%	34.6%	42.4%	48.5%	54.0%	59.3%	63.2%	66.8%	70.1%	73.3%	76.0%	78.4%	80.4%
2019	1.0%	5.7%	13.6%	24.3%	34.7%	41.4%	46.8%	51.6%	56.6%	60.8%	64.5%	67.8%				
2020	--	--	--	23.5%	34.0%	40.6%	45.7%	50.6%								
2021	1.0%	5.4%	13.6%	24.7%												

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>
2012	4.1%	7.0%	9.0%	8.1%	6.4%	4.9%	4.9%	4.1%	4.2%	4.3%	3.9%	3.5%	3.1%	2.9%	2.7%
2013	4.0%	6.5%	9.0%	8.4%	6.4%	5.4%	5.1%	4.6%	4.4%	4.1%	3.9%	3.7%	3.3%	3.0%	2.7%
2014	4.0%	6.9%	9.1%	8.6%	6.8%	5.7%	5.1%	4.9%	4.5%	4.3%	4.0%	3.6%	3.5%	2.9%	2.7%
2015	3.8%	7.2%	8.9%	9.3%	7.3%	5.7%	5.3%	5.3%	5.1%	4.4%	3.9%	3.8%	3.3%	2.9%	2.5%
2016	4.1%	7.2%	9.5%	9.8%	7.8%	6.0%	5.7%	5.2%	5.1%	4.3%	4.0%	3.9%	3.1%	2.6%	2.2%
2017	4.7%	7.8%	10.6%	10.2%	7.8%	6.2%	5.8%	5.3%	4.7%	4.2%	3.6%	3.6%	2.2%	2.3%	1.7%
2018	4.8%	8.0%	10.6%	10.3%	7.7%	6.2%	5.5%	5.3%	3.9%	3.6%	3.2%	3.2%	2.7%	2.4%	2.0%
2019	4.7%	7.9%	10.7%	10.3%	6.7%	5.5%	4.8%	5.0%	4.1%	3.8%	3.3%				
2020	--	--	--	10.5%	6.7%	5.1%	4.9%								
2021	4.5%	8.2%	11.0%												

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 83% to 99% of the total California workers' compensation insured market measured using 2020 earned premium levels).

Source: WCIRB accident year experience calls, excluding COVID-19 claims.

California Workers' Compensation Estimated Indemnity Claim Frequency by Accident Year



Note:

The 2020 and 2021 estimates are based on a comparison of claim counts based on WCIRB accident year experience as of December 31, 2021 relative to the estimated change in statewide employment. The 2020 and 2021 estimates are without COVID-19 claims. Prior years are based on unit statistical data.

Summary of COVID-19 Claim Information as of December 31, 2021

AY2020 @12/31/2021	Based on 100% of the Market			Average per Indemnity Claim			Average per Total Claim		
	COVID-19 Claims	4Q-2021 Data Call	COVID-19 Percentage	COVID-19 Claims	All WC Claims	Without COVID-19 Claims	COVID-19 Claims	All WC Claims	Without COVID-19 Claims
Ind. Paid	82,876,703	1,422,409,082	5.8%	\$4,458	\$9,556	\$10,284	\$3,085	\$4,042	\$4,121
Ind. Reserves	<u>81,819,939</u>	<u>1,039,879,477</u>	<u>7.9%</u>	<u>\$4,402</u>	<u>\$6,986</u>	<u>\$7,355</u>	<u>\$3,046</u>	<u>\$2,955</u>	<u>\$2,948</u>
Ind. Incurred	164,696,642	2,462,288,559	6.7%	\$8,860	\$16,543	\$17,639	\$6,131	\$6,997	\$7,069
Med. Paid	67,136,815	1,606,924,068	4.2%	\$3,612	\$10,796	\$11,821	\$2,499	\$4,566	\$4,737
Med. Reserves	<u>88,015,484</u>	<u>1,385,250,491</u>	<u>6.4%</u>	<u>\$4,735</u>	<u>\$9,307</u>	<u>\$9,959</u>	<u>\$3,277</u>	<u>\$3,936</u>	<u>\$3,991</u>
Med. Incurred	155,152,299	2,992,174,559	5.2%	\$8,346	\$20,103	\$21,780	\$5,776	\$8,503	\$8,728
ALAE Paid	21,363,135	609,466,551	3.5%	\$1,149	\$4,095	\$4,515	\$795	\$1,732	\$1,809
MCCP	4,343,989	151,854,198	2.9%	\$234	\$1,020	\$1,132	\$162	\$432	\$454
Paid on MO	5,029,023	240,851,369	2.1%						
Ind. Paid on Open Ind. Claims	82,876,703	1,422,409,082	5.8%						
Med. Paid on Open Ind. Claims	81,819,939	1,039,879,477	7.9%						
AY2020 Claim Counts									
# of Open Indemnity Claims	1,922	63,117	3.0%						
# of Med-Only Claims	8,272	203,055	4.1%						
# of Indemnity Claims	18,589	148,845	12.5%						
Total Number of Claims	26,861	351,900	7.6%						

AY2021 @12/31/2021	Based on 100% of the Market			Average per Indemnity Claim			Average per Total Claim		
	COVID-19 Claims	4Q-2021 Data Call	COVID-19 Percentage	COVID-19 Claims	All WC Claims	Without COVID-19 Claims	COVID-19 Claims	All WC Claims	Without COVID-19 Claims
Ind. Paid	10,068,461	522,231,284	1.9%	\$1,834	\$4,257	\$4,370	\$1,183	\$1,618	\$1,630
Ind. Reserves	<u>19,162,363</u>	<u>828,805,152</u>	<u>2.3%</u>	<u>\$3,490</u>	<u>\$6,756</u>	<u>\$6,909</u>	<u>\$2,252</u>	<u>\$2,568</u>	<u>\$2,577</u>
Ind. Incurred	29,230,824	1,351,036,436	2.2%	\$5,324	\$11,012	\$11,279	\$3,435	\$4,186	\$4,207
Med. Paid	10,277,680	689,606,937	1.5%	\$1,872	\$5,621	\$5,797	\$1,208	\$2,137	\$2,162
Med. Reserves	<u>32,152,114</u>	<u>1,473,843,922</u>	<u>2.2%</u>	<u>\$5,856</u>	<u>\$12,013</u>	<u>\$12,302</u>	<u>\$3,778</u>	<u>\$4,567</u>	<u>\$4,588</u>
Med. Incurred	42,429,794	2,163,450,859	2.0%	\$7,729	\$17,634	\$18,098	\$4,986	\$6,703	\$6,750
ALAE Paid	3,019,081	187,969,370	1.6%	\$550	\$1,532	\$1,578	\$355	\$582	\$589
MCCP	650,715	67,082,529	1.0%	\$119	\$547	\$567	\$76	\$208	\$211
Paid on MO	812,140	174,163,733	0.5%						
Ind. Paid on Open Ind. Claims	10,068,461	522,231,284	1.9%						
Med. Paid on Open Ind. Claims	19,162,363	828,805,152	2.3%						
AY2021 Claim Counts									
# of Open Indemnity Claims	1,427	81,660	1.7%						
# of Med-Only Claims	3,020	200,055	1.5%						
# of Indemnity Claims	5,490	122,684	4.5%						
Total Number of Claims	8,510	322,739	2.6%						

Source: WCIRB accident year experience calls.

Average Paid ALAE per Reported Indemnity Claim - Private Insurers

As of December 31, 2021

Accident Year	Evaluated as of (in months):									
	12	24	36	48	60	72	84	96	108	120
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	8,706
2010	745	2,541	4,279	5,593	6,547	7,290	7,870	8,243	8,505	8,693
2011	753	2,563	7,849	5,522	6,537	7,325	7,837	8,178	8,414	8,570
2012	758	2,555	8,471	5,728	6,766	7,451	7,882	8,201	8,415	8,552
2013	777	2,790	8,829	5,936	6,851	7,413	7,812	8,054	8,214	
2014	879	2,992	9,346	6,056	6,858	7,386	7,733	7,943		
2015	951	3,067	9,655	6,028	6,767	7,222	7,523			
2016	933	3,157	4,897	6,018	6,694	7,123				
2017	1,016	3,279	4,939	5,961	6,612					
2018	1,110	3,380	5,048	6,139						
2019	1,120	3,318	5,054							
2020	1,075	3,413								
2021	1,018									

Year	Annual Change									
	12	24	36	48	60	72	84	96	108	120
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%	10.4%
2010	10.4%	5.6%	4.8%	2.4%	1.0%	1.2%	1.1%	0.6%	0.2%	-0.2%
2011	1.1%	0.9%	83.4%	-1.3%	-0.1%	0.5%	-0.4%	-0.8%	-1.1%	-1.4%
2012	0.7%	-0.3%	7.9%	3.7%	3.5%	1.7%	0.6%	0.3%	0.0%	-0.2%
2013	2.5%	9.2%	4.2%	3.6%	1.3%	-0.5%	-0.9%	-1.8%	-2.4%	
2014	13.2%	7.2%	5.9%	2.0%	0.1%	-0.4%	-1.0%	-1.4%		
2015	8.1%	2.5%	3.3%	-0.5%	-1.3%	-2.2%	-2.7%			
2016	-1.8%	2.9%	-49.3%	-0.2%	-1.1%	-1.4%				
2017	8.9%	3.9%	0.8%	-0.9%	-1.2%					
2018	9.2%	3.1%	2.2%	3.0%						
2019	0.9%	-1.8%	0.1%							
2020	-4.0%	2.9%								
2021	-5.2%									

Note: All paid ALAE exclude the paid cost of medical cost containment programs. Accident years 2020 and 2021 exclude COVID-19 claims.

Source: WCIRB accident year experience calls.

Paid Allocated Loss Adjustment Expense Development - Private Insurers
As of December 31, 2021

Accident	Age-to-Age Development (in months):															
Year	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
1995	3.401	1.649	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
1996	3.147	1.698	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
1997	2.994	1.569	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
1998	3.591	1.675	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
1999	3.351	1.608	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
2000	4.051	1.720	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
2001	3.939	1.752	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
2002	3.927	1.768	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	1.007
2003	4.109	1.784	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	1.707	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	1.006
2005	3.840	1.713	1.336	1.181	1.113	1.079	1.056	1.044	1.035	1.027	1.022	1.016	1.014	1.010	1.009	1.007
2006	3.750	1.698	1.330	1.186	1.120	1.081	1.060	1.046	1.035	1.025	1.019	1.014	1.011	1.008	1.006	
2007	4.027	1.736	1.340	1.194	1.126	1.088	1.060	1.044	1.032	1.023	1.018	1.013	1.010	1.008		
2008	4.015	1.716	1.367	1.199	1.126	1.085	1.060	1.040	1.029	1.021	1.017	1.012	1.009			
2009	4.322	1.758	1.354	1.199	1.126	1.083	1.054	1.037	1.027	1.019	1.014	1.011				
2010	4.300	1.775	1.342	1.190	1.120	1.076	1.049	1.033	1.023	1.017	1.010					
2011	4.225	1.737	1.351	1.196	1.109	1.072	1.045	1.030	1.019	1.014						
2012	4.338	1.729	1.344	1.174	1.105	1.060	1.042	1.026	1.018							
2013	4.542	1.773	1.297	1.161	1.085	1.056	1.032	1.022								
2014	4.322	1.706	1.285	1.139	1.081	1.048	1.029									
2015	4.041	1.635	1.255	1.128	1.071	1.044										
2016	4.254	1.630	1.240	1.117	1.069											
2017	3.979	1.603	1.218	1.114												
2018	3.767	1.546	1.227													
2019	3.654	1.533														
2020	3.949															
December 31, 2020																
Age-to-Age	3.654	1.546	1.218	1.117	1.071	1.048	1.032	1.026	1.019	1.017	1.014	1.012	1.010	1.008	1.009	1.006
Cumulative	10.957	2.999	1.939	1.592	1.425	1.331	1.270	1.231	1.199	1.177	1.157	1.141	1.128	1.117	1.108	1.098
December 31, 2021																
Age-to-Age	3.949	1.533	1.227	1.114	1.069	1.044	1.029	1.022	1.018	1.014	1.010	1.011	1.009	1.008	1.006	1.007
Cumulative	11.441	2.897	1.890	1.540	1.383	1.293	1.239	1.204	1.178	1.157	1.141	1.130	1.118	1.108	1.099	1.092
2-Year Arithmetic Average																
Age-to-Age	3.802	1.540	1.223	1.116	1.070	1.046	1.031	1.024	1.019	1.016	1.012	1.012	1.010	1.008	1.008	1.007
Cumulative	11.206	2.948	1.914	1.566	1.404	1.312	1.254	1.217	1.189	1.167	1.149	1.136	1.123	1.112	1.103	1.095
Accident	Age-to-Age Development (in months):															
Year	204-216	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
1989	1.005	1.004	1.004	1.003	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.003	1.003	1.005	1.002
1990	1.005	1.004	1.002	1.003	1.003	1.003	1.003	1.003	1.002	1.003	1.002	1.002	1.002	1.002	1.001	
1991	1.004	1.002	1.003	1.003	1.003	1.003	1.003	1.002	1.003	1.003	1.002	1.002	1.002	1.002		
1992	1.002	1.005	1.004	1.003	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.002			
1993	1.007	1.006	1.006	1.006	1.005	1.005	1.005	1.004	1.004	1.003	1.003	1.002				
1994	1.008	1.007	1.006	1.006	1.005	1.005	1.004	1.005	1.003	1.003	1.003					
1995	1.009	1.009	1.008	1.008	1.008	1.006	1.008	1.005	1.004	1.003						
1996	1.009	1.008	1.007	1.007	1.006	1.007	1.005	1.004	1.003							
1997	1.008	1.008	1.007	1.007	1.006	1.005	1.004	1.004								
1998	1.010	1.010	1.008	1.006	1.005	1.004	1.003									
1999	1.010	1.008	1.006	1.005	1.004	1.004										
2000	1.009	1.007	1.006	1.004	1.004											
2001	1.008	1.007	1.005	1.004												
2002	1.007	1.005	1.003													
2003	1.006	1.004														
2004	1.005															
December 31, 2020																
Age-to-Age	1.006	1.005	1.005	1.004	1.004	1.004	1.004	1.004	1.004	1.003	1.003	1.002	1.002	1.002	1.002	
Cumulative ⁽¹⁾	1.091	1.085	1.079	1.074	1.070	1.066	1.061	1.057	1.053	1.049	1.046	1.042	1.040	1.039	1.037	
December 31, 2021																
Age-to-Age	1.005	1.004	1.003	1.004	1.004	1.004	1.003	1.004	1.003	1.003	1.003	1.002	1.002	1.002	1.001	1.002
Cumulative ⁽¹⁾	1.085	1.079	1.075	1.072	1.068	1.063	1.059	1.056	1.052	1.049	1.045	1.042	1.040	1.039	1.037	
2-Year Arithmetic Average																
Age-to-Age	1.006	1.005	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.003	1.003	1.002	1.002	1.002	1.002	1.002
Cumulative ⁽¹⁾	1.088	1.082	1.077	1.073	1.069	1.064	1.060	1.057	1.052	1.049	1.045	1.042	1.040	1.039	1.037	

Note:

⁽¹⁾ Accident year 2020 excludes COVID-19 claims. Factors in italics are based on powerfit fit to the "3-Year Arithmetic Average" factors.

Source: WCIRB accident year experience calls. Excludes MCCC costs.

Quarterly Paid ALAE Loss Development Factors^[1] - Private Insurers

Age in Months		Accident Year															
		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
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	7.886	7.400	9.325
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	3.137	2.858	3.190
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	2.132	2.151	2.061
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	1.664	1.703	
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	1.432	1.461	
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	1.261	1.312	
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	1.213	1.216	1.209	
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	1.150	1.159		
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	1.123	1.131		
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	1.101	1.109		
33	- 36	1.107	1.103	1.111	1.114	1.113	1.108	1.104	1.101	1.095	1.088	1.092	1.084	1.078	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	1.061	1.063			
39	- 42	1.083	1.086	1.096	1.082	1.083	1.081	1.081	1.077	1.072	1.062	1.062	1.055	1.057			
42	- 45	1.063	1.069	1.069	1.074	1.069	1.068	1.070	1.061	1.057	1.054	1.049	1.047	1.050			
45	- 48	1.057	1.059	1.063	1.064	1.062	1.059	1.057	1.055	1.051	1.046	1.043	1.039	1.040			
48	- 51	1.050	1.050	1.052	1.053	1.053	1.051	1.050	1.047	1.041	1.036	1.034	1.031				
51	- 54	1.049	1.050	1.049	1.050	1.048	1.048	1.046	1.042	1.035	1.034	1.031	1.030				
54	- 57	1.038	1.043	1.045	1.043	1.040	1.043	1.038	1.035	1.031	1.027	1.025	1.027				
57	- 60	1.037	1.038	1.039	1.039	1.037	1.036	1.035	1.031	1.028	1.026	1.023	1.022				
60	- 63	1.032	1.032	1.034	1.034	1.032	1.031	1.031	1.025	1.024	1.021	1.019					
63	- 66	1.030	1.031	1.033	1.031	1.032	1.029	1.028	1.022	1.021	1.019	1.018					
66	- 69	1.027	1.029	1.028	1.028	1.028	1.024	1.024	1.021	1.017	1.015	1.017					
69	- 72	1.025	1.028	1.026	1.026	1.023	1.023	1.021	1.018	1.018	1.014	1.014					
72	- 75	1.022	1.023	1.023	1.022	1.021	1.020	1.019	1.018	1.016	1.013						
75	- 78	1.020	1.023	1.022	1.022	1.020	1.019	1.016	1.015	1.013	1.011						
78	- 81	1.019	1.020	1.020	1.020	1.017	1.017	1.015	1.011	1.010	1.011						
81	- 84	1.018	1.019	1.018	1.017	1.016	1.014	1.013	1.012	1.009	1.009						
84	- 87	1.016	1.016	1.016	1.015	1.014	1.014	1.013	1.012	1.009							
87	- 90	1.015	1.015	1.016	1.014	1.012	1.012	1.011	1.008	1.007							
90	- 93	1.014	1.014	1.014	1.012	1.012	1.011	1.009	1.006	1.007							
93	- 96	1.013	1.013	1.013	1.012	1.010	1.011	1.009	1.007	1.006							
96	- 99	1.012	1.011	1.011	1.010	1.010	1.010	1.010	1.008								
99	- 102	1.012	1.012	1.011	1.009	1.009	1.008	1.007	1.004								
102	- 105	1.012	1.011	1.009	1.009	1.008	1.004	1.004	1.005								
105	- 108	1.010	1.010	1.008	1.008	1.007	1.007	1.006	1.005								
108	- 111	1.009	1.009	1.008	1.008	1.007	1.008	1.007									
111	- 114	1.009	1.008	1.007	1.007	1.006	1.005	1.002									
114	- 117	1.008	1.007	1.007	1.007	1.005	1.002	1.005									
117	- 120	1.008	1.007	1.006	1.006	1.006	1.006	1.006									
120	- 123	1.007	1.006	1.006	1.005	1.006	1.006										

^[1] All paid allocated loss adjustment expense exclude the paid cost of medical cost containment programs. Italic factors exclude COVID-19 claims.

Source: WCIRB quarterly calls for experience.

Average Paid MCCP per Reported Indemnity Claim - Statewide
As of December 31, 2021

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	2,299	2,351
2013	655	1,253	1,620	1,821	1,962	2,079	2,141	2,181
2014	616	1,200	1,576	1,786	1,937	2,017	2,078	2,116
2015	603	1,209	1,538	1,750	1,865	1,931	1,986	
2016	592	1,152	1,453	1,628	1,726	1,808		
2017	585	1,125	1,429	1,601	1,718			
2018	639	1,178	1,459	1,648				
2019	610	1,145	1,467					
2020	582	1,132						
2021	567							

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%	-5.8%	-6.9%	-7.2%
2014	-6.0%	-4.2%	-2.7%	-1.9%	-1.3%	-3.0%	-2.9%	-3.0%
2015	-2.1%	0.7%	-2.4%	-2.1%	-3.7%	-4.2%	-4.4%	
2016	-1.9%	-4.7%	-5.5%	-6.9%	-7.5%	-6.4%		
2017	-1.1%	-2.3%	-1.7%	-1.7%	-0.5%			
2018	9.1%	4.7%	2.1%	2.9%				
2019	-4.6%	-2.8%	0.5%					
2020	-4.5%	-1.1%						
2021	-2.6%							

Note: Accident years 2020 and 2021 excludes COVID-19 claims.

Source: WCIRB accident year experience calls.