

Actuarial Committee

Meeting Agenda

DateTimeLocationStaff ContactMarch 16, 20209:30 AMTeleconferenceDavid M. Bellusci

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Released: March 9, 2020

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I. Approval of Minutes

Meeting held on December 5, 2019

II. Working Group Meeting Summaries

Actuarial Research Working Group Meeting held March 3, 2020

III. Unfinished Business

A. AC19-08-05: Review of Loss Development Tail Methodology

IV. New Business

A. AC20-03-01: First Quarter 2020 Review of Diagnostics

B. AC20-03-02: 12/31/2019 Experience - Review of Methodologies

V. Matters Arising at Time of Meeting

VI. Next Meeting Date: April 2, 2020

VII. Adjournment

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Actuarial Research Working Group

Meeting Summary

To: Participants of the Actuarial Research Working Group

From: Laura Carstensen Date: March 9, 2020

RE: Summary of March 3, 2020 Meeting

Insurer Meeting Participants Were Reminded of the Antitrust Notice

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Discussion Topics

At the meeting, the following topics were discussed.

A. Experience Rating D-Ratio Credibility Constants

The Working Group was informed that the WCIRB has updated the methodology used to determine credibility values for use in computing classification D-ratios. The methods used to compute D-ratios and the current credibility values were reviewed. Staff presented a hindsight review of indications using the current methodology and noted that the results were undesirably volatile.

Staff summarized the Bühlmann credibility formula approach that was developed as an alternative to the current credibility approach along with its calculation. Staff noted that claim observations needed to be weighted in order for weighted mean classification D-ratios to equal their standard definition. Staff presented a final step in the calculation used to translate the indicated credibility constant from a total claim count to an indemnity claim count basis. A Working Group member asked if the constants could be determined using only indemnity claim data. Staff responded that it was possible, but that the calculation would not be consistent with the way that D-ratios are calculated in practice. Another Working Group member noticed an apparent inconsistency in the translation of the constant from a total claim count to an indemnity claim count basis. Staff subsequently investigated the concern and agreed that the translation should be changed. The impact of this change is very small.

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Staff presented the resulting indicated credibility constants. These constants followed a very consistent pattern over time. Additionally, year-to-year changes can be easily explained by examining the variance structure of the underlying data. Staff noted that the updated process typically gives more credibility to classification data in the D-ratio calculation. Staff showed that changes in final D-ratios were unbiased and noted that the largest changes were possible for classifications that were both medium-sized and with empirical D-ratios that were significantly different from their hazard group.

Staff presented the plan to update the credibility constants annually and to use unsmoothed values of the indicated constants, allowing the process to be completely data driven. The Working Group was advised that the impact of the changes in the D-ratio methodology on employer modifications will be determined for presentation to the Actuarial Committee and the Classification and Rating Committee. It was noted that the expected impacts on modifications were small.

B. Experience Rating Primary Threshold Update Process

The Working Group was informed that the WCIRB has developed a method to regularly update the expected loss ranges that determine the primary threshold used to calculate experience modifications.

Updated indications were presented. These were consistent with previous analysis, showing increasing primary thresholds by size of risk and indications of 100% primary credibility and 0% excess credibility. The previous data and smoothing methodology used to select the current primary thresholds was shown. Updated primary threshold selections were presented for all available time periods. Staff noted that the functional form used to smooth the final primary thresholds was being changed from a cubic function to a logistic function. The choice of function made little difference over the range of smoothed values, but the logistic smoothing will not allow unrealistic values when extrapolating outside of this range.

Staff noted that in the original development of the variable split plan, some excess credibility was indicated for the very largest risks, but not implemented as part of the plan. Staff presented updating findings showing that these indications were the result of constraining excess credibility to be non-negative. When unconstrained, excess credibility values were equally likely to be positive or negative. Given these findings, staff noted that no excess credibility was indicated for risks of any size.

Staff presented findings showing that the indicated primary threshold for a risk with a given amount of expected losses had generally drifted up over time. This drift was partially but not fully explained by changes in claim severity. This drift indicates a need to update the expected loss ranges on a regular basis. Staff indicated that it plans to examine the impact of this update to expected loss ranges for presentation to the Actuarial Committee and the Classification and Rating Committee.

Finally, the Working Group was reminded that scheduled research for 2020 will investigate the current eligibility standard, as well as potential alternative rating structures for small employers. Working Group members also suggested exploring potential updates to other plan parameters

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including the current \$175,000 loss limit, alternative approaches to reduce year-to-year volatility in experience modification and the current \$250 per claim "first aid" reduction. Staff advised the Working Group that these issues will be addressed with future research as time permits.

C. Loss Development for Classification Ratemaking

The Working Group was informed that staff has begun a comprehensive review of the WCIRB's classification ratemaking methodology. This is expected to be a multi-year process with staff beginning by reviewing alternatives to the current loss development methodology. In future years, staff plans to review other components of classification ratemaking.

Staff presented initial explorations into potential groupings based on claims characteristics and the correlations with development from first to second report level. Staff plans to re-optimize the current loss development group methodology as a base option and to build out 1-2 additional options for comparison. Staff requested feedback on potential alternative groupings. The Working Group indicated that limited loss development options should be explored prior to assessing alternative grouping approaches. The Working Group also indicated that exploring potential loss development groupings based on claims characteristics is promising and could help adjust class relativities to reflect systemwide changes in claims patterns. The Working Group also generally supported optimizing groupings based on open claims and handling development on closed claims separately.

Staff plans to explore potential groupings further based on feedback from the Working Group and will present 2-3 options for feedback at the next meeting.

Item AC19-08-05 Review of Loss Development Tail Methodology

For a number of years, the WCIRB's approach to projecting the loss development tail for indemnity and medical losses has been based on (a) using six-year average historical incurred age-to-age development from approximately 264 months to 420 months and (b) fitting an inverse power curve to age-to-age incurred loss development factors to compute the tail factor after 420 months. At the March 18, 2019 meeting, the Committee noted that incurred medical development after 120 months has shown an anomalous pattern for the last several calendar years, likely influenced by changes in pharmaceutical costs and other transitional effects of recent reforms.

At the August 1, 2019 meeting, the Committee reviewed an initial study of the loss development tail methodology which suggested that an approach based on an inverse power curve applied to paid loss development fit the data well, minimized the variance in the loss development tail factor, and did not show the recent anomalous pattern as compared to incurred loss development. However, it was unclear whether the factors that led to the selection of incurred loss development in lieu of paid development from accident years 1998 and prior, which was based on a comprehensive study conducted in 2014,¹ continued to apply.

At recent Actuarial Committee meetings, the Committee has also noted that the sharp acceleration in claim settlement rates over the last several years likely impacts the loss development tail projection. In the decision on the January 1, 2020 Pure Premium Rate Filing, the California Department of Insurance also noted that the recent increases in claim settlement rates likely impacts future period development. Given that the current Berquist-Sherman adjustment for changes in claim settlement rates does not contemplate future period development, the Committee recommended this issue be reviewed in 2020.

Analysis of Paid and Incurred Development

The approach to rely primarily on incurred loss development after 264 months was recommended by the Committee based on a 2014 study which identified a significant shift in the incurred-to-paid ratio observed in the mid-1990s. This shift was largely driven by the 1996 Minniear² decision as well as other factors significantly slowing the rate of medical payments during these years. Due to this dramatic shift in paid development patterns, the Committee recommended no longer using paid development factors to project ultimate loss ratios arising from accident years prior to 1998.

Exhibits 1.1 and 1.2 show the incurred-to-paid loss ratios for indemnity and medical, respectively, from 132 months through 360 months. Although the more recent ratios for medical (shaded in blue on Exhibit 1.2) have declined significantly over the last several years, they have not returned to the levels observed in the pre-Minniear period prior to 1998 (shaded in black on Exhibit 1.2). However, these recent incurred-to-paid loss ratios are no longer as stable as the immediate post-Minniear ratios observed in the 2014 analysis (shaded in red on Exhibit 1.2). This suggests that the distortion which led to basing the longer-term loss development projections on incurred development may not be as significant as observed in the 2014 study.

One of the factors that could be driving the recent decline in medical incurred-to-paid ratios is the recent decreases in pharmaceutical costs, which impacts older period development disproportionately. The decline in pharmaceutical payments over the last several years has been significant but gradual. However, a shift in case reserve levels to react to factors impacting pharmaceutical costs such as reforms and the opioid epidemic could be reflected quicker than the change in payment patterns. Exhibit 2 shows the incurred-to-paid medical ratios with the payments adjusted to the 2018 pharmaceutical cost level based on the same adjustment used in the WCIRB's current loss development projection. While the ratios

¹ See Item AC14-03-03 of the March 19, 2014 Actuarial Committee Agenda.

² Minniear v. Mount San Antonio Community College District (1996) 61 Cal. Comp. Cases 1055 (Appeals Board en banc opinion).

shown in Exhibit 2 still decline in recent years, the decline is not as sharp as shown in Exhibit 1.2, which was prior to reflecting the adjustment for declining pharmaceutical costs.

Staff conducted retrospective tests of incurred and paid development approaches for development in these later periods. These tests focused on the medical component since indemnity development is much smaller and more consistent over time at these later periods. Each accident year paid or incurred loss ratio was developed from a historical period (beginning with the December 31, 2012 evaluation) up through the December 31, 2018 evaluation for that accident year.³ The incurred method was based on a six-year average of age-to-age factors while the paid method was based on a three-year average of (unadjusted) age-to-age factors, which has been the WCIRB's standard approach for selecting development for these periods for many years. The developed loss ratios were compared to the reported incurred loss ratios for the accident year and target evaluation, with developed paid loss ratios adjusted to an incurred basis using the reported ratio of incurred losses to paid losses for that accident year at the target evaluation. The results of the retrospective tests for medical are shown in Exhibits 3.1 through 3.6.

Exhibits 4.1 and 4.2 summarize the results of the retrospective tests. Exhibit 4.1 shows the square root of the mean squared error by accident year and starting evaluation. Exhibit 4.2 shows the count of observations in which each method was more accurate than the other method. In general for this retrospective test, the paid development method consistently has lower average errors and was more accurate for a significantly greater number of observations. This suggests that paid development has been a more accurate predictor of the actual development for this period. However, this test was based on accident years 2005 and earlier (for which the actual development at older periods is available). Significant shifts in the claims environment have occurred since that time, such as Senate Bill No. 863 (SB 863), which has helped drive a significant acceleration in claim settlement rates. As a result, the unadjusted paid or incurred age-to-age development from these older accident years may not be the most appropriate predictor of development on more recent accident years.

Impact of Claim Settlement Rate Changes on Later Period Development

Indemnity claim settlement rates have increased steadily over the last several years. In 2017, the WCIRB studied the claim settlement rate increase and found that the Berquist-Sherman approach to adjust paid loss development generally increased the accuracy of the projection during a period of significant claim settlement rate change. However, it was noted that this approach only accounts for changes in development patterns during the period of claim settlement rate change and does not account for changes in future period development arising from the claim settlement shift. Staff reviewed potential adjustments for later development periods when claim settlement rates change and found that, particularly for medical, an adjustment for this issue was not appropriate at that time due to reforms and other factors that have significantly shifted payment patterns over time.⁵

Exhibits 5 through 7.2 show an updated analysis of indemnity claim settlement rate changes compared to later period development. Exhibit 5 shows changes in reported indemnity claim settlement rates by accident year and maturity, with changes above 1.5% highlighted for emphasis. Exhibits 6.1 and 6.2 show how the comparison of the projected calendar year paid development at the period of claim settlement rate change and the actual paid development emerging for the accident year is computed. For example, on Exhibit 6.2 the paid medical development for calendar year 2010 from 12 to 84 months of 5.622 is the latest year projection of accident year 2010 from 12 months. This will compare to the actual accident year 2010 development that emerged from 12 to 84 months of 6.198. Exhibits 7.1 and 7.2 show the difference between projected paid development and actual paid development. The lower section of Exhibits 7.1 and 7.2 show how these differences are correlated with changes in indemnity claim settlement rates (shown in Exhibit 5).

³ For example, accident year 1999 was developed from 156, 168, etc. months up through 240 months.

⁴ Staff also tested a 3-year average incurred method (which is consistent with the selection for paid) which did not significantly increase the accuracy of the incurred method.

⁵ See Item AC17-03-03 of the June 16, 2017 Actuarial Committee Agenda.

As shown in Exhibits 7.1 and 7.2, at earlier evaluations, there does not appear to be significant correlation with claim settlement rate changes and changes in longer-term loss development patterns. However, at around 48 months there are indications of significant negative correlation. As noted in the 2017 study, the accident years with available data at later maturities have been significantly impacted by several reforms and changes in the workers' compensation system, such as the Minniear decision, the 2002 through 2004 reforms, and SB 863, which makes these comparisons to later periods challenging. For the most recent years included in this study (2011 through 2013) which include some of the recent claim settlement increase period, there is some corresponding decreases in the development for the immediate following evaluations.

In 2019, the WCIRB studied the impact of claim settlement rate changes on paid ALAE development which did find significant negative correlation between early period claim settlement rate changes and changes in later period paid ALAE development.⁶ Paid ALAE development has been much less impacted by reforms and other changes to the system compared to benefit payments. As a result of the study, the Committee recommended an approach to adjust future paid ALAE development during periods of significant claim settlement rate changes based on a regression model. Although the correlation between early claim settlement rate changes and later period paid medical development was not as significant as found in the ALAE development study, staff attempted to fit the model to medical losses. However, as expected, the fits of this model were not significant.

To further analyze the impact of claim settlement rate changes on future medical development, staff reviewed medical transaction data to determine if the recent acceleration in claim settlement rates has resulted in fewer claims receiving payments at later maturities. If many recently settled claims had remained open mostly for lien or ALAE payments, they may not be receiving significant volumes of medical services and may either (a) not be reported in the medical transaction data or (b) be reported with small amounts of medical services, thus dampening the incremental paid medical severity. Their closing would result in a change in the number of open claims and may result in a settlement payment but may not significantly impact the future medical payment patterns as would be observed in medical transaction data.

Exhibit 8.1 shows reported indemnity claim settlement rates based on aggregate financial data. Exhibit 8.2 shows the ratio of the number of claims receiving paid transactions in medical transaction data compared to the overall number of open indemnity claims reported in aggregate financial data. In general, as claim settlement rates change, there appears to be a corresponding change in the percentage of open claims receiving payments. However, the relationship is not always consistent across calendar years and development periods.

Exhibit 9.1 shows incremental paid medical per open indemnity claim based on aggregate financial data. Exhibit 9.2 shows incremental paid medical per claims with medical transactions from transaction data as well as the relativity to the comparable severity based on aggregate financial data shown in Exhibit 9.1. Although the proportion of open claims receiving payment has increased during the recent period of claim settlement rate acceleration (see Exhibits 8.1 and 8.2), the average paid per claim with transactions has declined significantly. As shown in the relativities in Exhibit 9.2, the decrease in medical transaction severity is at a higher rate than the corresponding changes from aggregate financial data. This may be related to increases in claim settlement payments, which are only included in aggregate financial data, or a disproportionate impact of the recent pharmaceutical cost declines in medical transaction data. Staff is continuing to review these potential causes. However, this data at least suggests that the decrease in the number of claims remaining open at later periods is not resulting in higher incremental paid severities as would be the case if a significant number of these closed claims were receiving no or very low incremental payments.

At the meeting, staff will discuss potential next steps for the study and solicit Committee feedback.

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⁶ See Item AC19-08-04 of the August 1, 2019 Actuarial Committee Agenda.

Indemnity Incurred Loss to Paid Loss Ratio

	3 <u>60</u> 4 1.004	`	`	`	`.	4																		
	348 1.004	1.00	1.00	1.00	1.00	1.00																		
	336 1.005	1.007	1.005	1.005	1.005	1.004	1.006																	
	324 1.005	1.007	1.006	1.006	1.005	1.004	1.007	1.007																
	312 1.005	1.006	1.007	1.006	1.005	1.004	1.008	1.007	1.008															
	300 1.005	1.006	1.007	1.007	1.006	1.005	1.008	1.008	1.009	1.012														
	<u>288</u> 1.006	1.007	1.006	1.007	1.007	1.006	1.009	1.009	1.010	1.013	1.016													
	<u>276</u> 1.007	1.008	1.007	1.007	1.009	1.007	1.010	1.011	1.011	1.015	1.018	1.017												
	<u>264</u> 1.007	1.008	1.008	1.008	1.009	1.008	1.011	1.011	1.012	1.016	1.020	1.020	1.019											
onths)	252 1.008	1.009	1.010	1.009	1.010	1.008	1.013	1.013	1.014	1.018	1.023	1.021	1.020	1.020										
Age (in m	240 1.009	1.010	1.011	1.009	1.011	1.009	1.014	1.014	1.014	1.020	1.024	1.024	1.023	1.022	1.018									
	<u>228</u> 1.009	1.010	1.012	1.010	1.012	1.010	1.015	1.015	1.017	1.021	1.029	1.028	1.026	1.024	1.019	1.020								
	<u>216</u> 1.010	1.010	1.012	1.010	1.014	1.011	1.016	1.016	1.018	1.023	1.034	1.032	1.029	1.027	1.022	1.024	1.024							
	204 1.011	1.011	1.013	1.011	1.012	1.012	1.018	1.021	1.021	1.026	1.035	1.034	1.033	1.030	1.026	1.026	1.027	1.022						
	<u>192</u> 1.012	1.012	1.013	1.013	1.018	1.013	1.020	1.025	1.025	1.028	1.039	1.037	1.037	1.036	1.030	1.030	1.031	1.026	1.035					
	180 1.013	1.013	1.014	1.014	1.018	1.015	1.021	1.023	1.031	1.031	1.042	1.040	1.042	1.041	1.034	1.033	1.036	1.029	1.040	1.043				
	<u>168</u> 1.015	1.015	1.016	1.016	1.019	1.016	1.023	1.026	1.031	1.041	1.046	1.046	1.047	1.046	1.039	1.036	1.041	1.033	1.046	1.049	1.048			
	<u>156</u> 1.019	1.019	1.017	1.018	1.019	1.020	1.026	1.029	1.034	1.043	1.054	1.053	1.051	1.051	1.043	1.043	1.047	1.038	1.052	1.057	1.056	1.052		
	144 1.023	1.022	1.021	1.019	1.022	1.020	1.028	1.031	1.037	1.050	1.057	1.063	1.057	1.057	1.049	1.049	1.053	1.044	1.060	1.065	1.063	1.059	1.054	
	<u>132</u> 1.026	1.026	1.027	1.023	1.023	1.022	1.030	1.034	1.041	1.059	1.066	1.070	1.068	1.068	1.058	1.054	1.059	1.053	1.068	1.074	1.074	1.072	1.064	
Accident	<u>Year</u> 1985																							

Source: WCIRB aggregate financial data.

Medical Incurred Loss to Paid Loss Ratio

		_			_				ı															
	360	1.039	1.035	1.027	1.029																			
	348	040	1.04	1.032	1.034	1.024																		
	336	1.035	1.043	1.036	1.038	1.029	1.026																	
	324	1.031	1.043	1.037	1.042	1.032	1.031	1.034																
	312 1 022	1.032	1.045	1.039	1.044	1.035	1.036	1.039	1.051															
	300	1.034	1.047	1.040	1.047	1.036	1.039	1.044	1.058	1.062														
	<u>288</u>	1.034	1.045	1.041	1.054	1.043	1.042	1.050	1.065	1.065	1.066													
	<u>276</u>	1.037	1.051	1.045	1.056	1.045	1.046	1.055	1.075	1.078	1.074	1.065												
	<u>264</u>	1042	1.044	1.045	1.056	1.048	1.050	1.057	1.083	1.091	1.097	1.078	1.069											
onths)	252	1 045	1.046	1.044	1.056	1.051	1.051	1.061	1.097	1.100	1.100	1.086	1.078	1.085										
Age (in n	<u>240</u> <u>252</u>	1.040	1.055	1.043	1.055	1.051	1.055	1.063	1.106	1.105	1.114	1.097	1.088	1.093	1.063									
	<u>228</u>	1.050	1.055	1.049	1.056	1.048	1.055	1.063	1.101	1.110	1.121	1.108	1.098	1.108	1.071	1.065								
	<u>216</u>	1.050	1.064	1.051	1.055	1.047	1.055	1.066	1.102	1.118	1.144	1.117	1.117	1.118	1.086	1.075	1.076							
	204 1 037	1.037	1.067	1.052	1.062	1.050	1.055	1.071	1.105	1.119	1.143	1.126	1.131	1.132	1.100	1.088	1.085	1.066						
	192 1 030	1.039	1.053	1.048	1.066	1.051	1.059	1.077	1.108	1.120	1.150	1.137	1.141	1.138	1.118	1.104	1.103	1.077	1.075					
	180 1 80 1 80 1 80 1 80 1 80	1.030	1.053	1.048	1.072	1.056	1.056	1.073	1.105	1.112	1.166	1.139	1.155	1.149	1.132	1.119	1.119	1.089	1.086	1.082				
	168 1030	1.039	1.053	1.048	1.058	1.057	1.057	1.081	1.106	1.122	1.168	1.145	1.159	1.156	1.138	1.132	1.137	1.105	1.101	1.097	1.088			
	<u>156</u>	1.044	1.053	1.051	1.058	1.054	1.056	1.083	1.109	1.133	1.162	1.152	1.165	1.173	1.145	1.146	1.151	1.125	1.121	1.117	1.104	1.095		
	144	1.052	1.059	1.047	1.057	1.050	1.055	1.082	1.111	1.133	1.161	1.156	1.176	1.178	1.158	1.148	1.165	1.137	1.139	1.136	1.126	1.105	1.100	
	132 1 0 50	1.061	1.073	1.053	1.057	1.051	1.054	1.072	1.109	1.140	1.176	1.163	1.176	1.189	1.166	1.154	1.173	1.154	1.158	1.156	1.143	1.127	1.120	1.102
Accident	Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008

Source: WCIRB aggregate financial data.

Medical Incurred Loss to Paid Loss Ratio Adjusted for Changes in Pharmaceutical Cost Levels

6	7	0	00	0	5	500	20		Age (in m	months)	700	046	000		5	700	000	070	0
	1 052	150	1030	180	192	1 037	<u>216</u> 1 039	<u>228</u> 1 037	240 1 040	252 1 044	204 1 042	2/6 1 037	7 1 1 1 1 1 1 1	300 1 034	31 <u>2</u> 1032	324 1 031	330 1 038	348 1 036	360 1 035
	1.054	1.046	1.043	1.042	1.043	1.043	1.050		1.049	1.045	1.043	1.042	1.045	1.045	1.046	1.052	1.052	1.046	1.043
~	1.059	1.053	1.053	1.053	1.053	1.067	1.064		1.055	1.046	1.044	1.051	1.045	1.047	1.050	1.048	1.049	1.046	1.040
~	1.047	1.051	1.048	1.048	1.048	1.052	1.051		1.043	1.044	1.045	1.045	1.041	1.046	1.044	1.042	1.041	1.036	1.031
_	1.057	1.058	1.058	1.072	1.066	1.062	1.055		1.055	1.056	1.056	1.056	1.064	1.055	1.052	1.047	1.043	1.038	1.032
_	1.050	1.054	1.057	1.056	1.051	1.050	1.047		1.051	1.051	1.048	1.050	1.049	1.041	1.040	1.037	1.033	1.028	
4	1.055	1.056	1.057	1.056	1.059	1.055	1.055		1.055	1.051	1.055	1.051	1.047	1.044	1.040	1.035	1.029		
2	1.082	1.083	1.081	1.073	1.077	1.071	1.066		1.063	1.070	1.064	1.062	1.056	1.050	1.044	1.038			
60	1.111	1.109	1.106	1.105	1.108	1.105	1.102		1.120	1.109	1.094	1.085	1.073	1.065	1.058				
4	1.133	1.133	1.122	1.112	1.120	1.119	1.118		1.117	1.112	1.102	1.087	1.072	1.069					
9/	1.161	1.162	1.168	1.166	1.150	1.143	1.161		1.128	1.112	1.109	1.083	1.074						
1.163	1.156	1.152	1.145	1.139	1.137	1.140	1.132	,	1.109	1.097	1.088	1.073							
9/	1.176	1.165	1.159	1.155	1.156	1.148	1.132		1.100	1.088	1.077								
83	1.178	1.173	1.156	1.168	1.159	1.153	1.137		1.108	1.099									
99	1.158	1.145	1.155	1.151	1.135	1.116	1.100		1.074										
45	1.148	1.160	1.150	1.137	1.120	1.101	1.086	1.075											
73	1.175	1.166	1.155	1.134	1.116	1.096	1.085												
09	1.149	1.139	1.117	1.099	1.086	1.073													
72	1.154	1.135	1.112	1.096	1.083														
72	1.149	1.129	1.106	1.090															
28	1.140	1.115	1.098																
40	1.116	1.104																	
32	1.110																		
Ξ																			

Source: WCIRB aggregate financial data. Ratios are adjusted for shifts in pharmaceutical costs for 2012 to 2018 evaluations.

Source: WCIRB aggregate financial data Paid losses are converted to an incurred losses to paid losses at the target age.

Retrospective Testing of Later Period Medical Development Projected from the December 31, 2012 Evaluation

	348 360 0.001 0.001 1 0.000 -0.003	0000-0-0000			348	·	
	0.000	0.000			336	0.000 0.000 0.000 0.000 0.000 0.000 0.000	
	0.000	-0.002 -0.003 -0.004			324	0.001 0.000 0.002 0.002 0.002 0.000	
	312	2000-0-0-000-0-0-0-0-0-0-0-0-0-0-0-0-0-			312	0.000 0.002 0.002 0.000 0.000 0.004	
	300	0.0000000000000000000000000000000000000			300	0.000 0.000 0.000 0.000 0.000 0.000 0.000	
	288	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			288	0.000 0.000 0.000 0.000 0.000 0.015	
	276	0.000 0.000 0.000 0.001 0.001 0.001			276	0.000 0.000 0.003 0.014 0.010	
at Age	26,	0.000 0.000 0.000 0.000 0.003 0.023		at Age	264	0.000 0.003 0.004 0.008 0.008	
ss Ratio	252	0.000 0.001 0.005 0.006 0.020 0.020		ss Ratio	252	0.002 0.003 0.007 0.004 0.006	
urred Lo	<u>240</u>	0.000 0.004 0.004 0.018 0.018 1.000		urred Lo	240	0.002 0.007 0.006 0.003 0.004	
Difference from Actual Incurred Loss Ratio at Age	<u>228</u>	-0.004 -0.001 -0.012 -0.012 -0.038		Difference from Actual Incurred Loss Ratio at Age	228	0.004 0.003 0.003 0.003 -0.004	
from Ac	216	-0.001 -0.005 -0.008 -0.032 -0.032		from Ac	216	0.001 0.002 0.002 0.003 0.003	
ifference	204	-0.002 -0.002 -0.025 -0.025 -0.025		ifference	204	0.001 0.002 0.003 0.0001	
	192	0.003 0.004 0.004 0.004 0.005			192	0.002 0.003 0.004 0.000	
	180	0.000 0.000 0.010 0.016 0.016			180	0.001 0.004 0.002 0.001 0.001	
	168	0.001 0.002 0.012 0.012 0.013			168	0.004 0.005 0.002 0.002	
erage)	156	-0.002 -0.008 -0.008		Je)	156	0.003 0.003 0.003	
Year Av	144	-0.002 -0.004 -0.005		r Averaç	144	0.003 0.004 0.005	
thod (6-	132	-0.001 -0.003 -0.004	0.011	I (3-Yea	132	0.003	0.004
ent Me	120	-0.001 -0.002	Error:	Methoc	120	0.002	Error:
evelopn	108	0000	Squared	opment	108	0.004	Squared
Incurred Development Method (6-Year Average Accident	Year 1986 1987	1990 1990 1991 1993 1999 1999 1999 2000 2000 2000 2000 2000	Root Mean Squared Error:	Paid Development Method (3-Year Average) Accident	<u>Year</u> 1986	1988 1988 1989 1990 1991 1995 1996 1999 2000 2003 2004	Root Mean Squared Error:

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Source: WCIRB aggregate financial data Paid losses are converted to an incurred losses to paid losses at the target age.

Retrospective Testing of Later Period Medical Development Projected from the December 31, 2013 Evaluation

	372 -0.001 -0.003	0000			372	·	
	0.001	-0.005			360	0.000	
	0.001				348	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
	336 0.001				336	0.000	
	324	0.000			324	0.000	
	312	0.001 -0.003 -0.007 -0.007			312	0.001	
	300	-0.003 -0.003 -0.005 -0.007			300	0.002	
	<u>288</u>	0.000 0.000 0.000 0.000 0.000			288	0.000	
at Age	<u>276</u>	0.003 0.003 0.004 0.0008 0.001		at Age	<u>276</u>	-0.001 0.002 0.008 0.005	
ss Ratio	264 264	-0.001 -0.001 -0.002 -0.003		ss Ratio	264	0.00 0.005 0.005 0.005	
urred Lo	252	0.000 -0.003 -0.020 -0.018		urred Lo	252	0.001 0.004 0.003 0.002 0.002	
Difference from Actual Incurred Loss Ratio at Age	<u>240</u>	0.000 -0.000 -0.016 -0.031		Difference from Actual Incurred Loss Ratio at Age	240	0.002 -0.003 0.002 0.001	
from Ac	228	0.000 -0.011 -0.008 -0.028		from Ac	228	0.001 0.000 0.000 0.000	
ifference	<u>216</u>	-0.005 -0.006 -0.032 -0.032		ifference	216	0.001 0.000 0.000 -0.002	
	<u>204</u>	0.001 -0.013 -0.023 -0.026			204	0.000 0.002 -0.003 -0.008	
	192	-0.005 -0.014 -0.017 -0.027			192	0.002 0.002 0.000 -0.007	
	180	-0.005 -0.008 -0.015			180	0.000 0.002 -0.005 -0.001	
rerage)	168	-0.001 -0.010 -0.011 -0.013		(ag	168	0.002 -0.002 -0.001 0.000	
Year Av	156	-0.003 -0.006 -0.010		r Avera	156	-0.002 0.000 0.000	
thod (6-	144	-0.002 -0.004	0.012	d (3-Yea	144	0.001	0.003
nent Me	132	-0.002	d Error:	: Method	132	0.001	d Error:
evelopr	120	-0.001	Squared	lopment	120	0.001	Squared
Incurred Development Method (6-Year Average) Accident	Year 1986 1987	1988 1989 1990 1995 1995 1998 1998 1998 1999 2000 2000 2000 2000 2000 2000	Root Mean Squared Error:	Paid Development Method (3-Year Average) Accident	Year	1988 1988 1989 1990 1995 1996 1996 1998 2000 2000 2003	Root Mean Squared Error:

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Retrospective Testing of Later Period Medical Development Projected from the December 31, 2014 Evaluation

	-0.003 -0.004 -0.004		384	-0.001 -0.001
	372 -0.002 -0.003 -0.004		372	
	360 - 0.001 - 0.003 - 0.003 - 0.003		360	
	348		348	0.000
	336		336	0.000
	-0.001 -0.002 -0.004 -0.004		324	0.000
	0.0000000000000000000000000000000000000		312	-0.001 -0.002 -0.001 -0.001
	0.007		300	0.000
at Age			at Age <u>288</u>	0.000
ss Ratio	27 <u>6</u> -0.002 -0.004 -0.011		ss Ratio <u>276</u>	0.000 0.001 0.004 0.001
urred Lo	264 -0.001 -0.007 -0.018		urred Lo	0.000 0.001 -0.006
Difference from Actual Incurred Loss Ratio at Age	-0.003 -0.006 -0.015		Difference from Actual Incurred Loss Ratio at Age 228 240 252 264 276 288	0.000
from Ac	-0.003 -0.013 -0.016		from Ac	0.000 -0.004 -0.005
ifference	228 -0.006 -0.022 -0.028		ifference 228	-0.001 -0.004 -0.012
Δ	216 -0.006 -0.015 -0.025		D 216	0.00 0.00 0.00 0.00 0.00 0.00
	-0.009 -0.007 -0.022		204	.0.001 -0.006 -0.008
	0.008 -0.014 -0.013		192	-0.003 -0.003 -0.004
erage)	-0.007 -0.013 -0.010		je)	-0.001 -0.004 -0.003
Year Av	-0.006 -0.007 -0.007		r Averaç	-0.001 -0.001 -0.001
thod (6-	-0.003 -0.004	0.010	l (3-Yea	0.000
nent Me	-0.002 -0.004	Error:	Method	0.000
evelopn	-0.002	Squarec	lopment	0.000
Incurred Development Method (6-Year Averaç Accident		Root Mean Squared Error:	Paid Development Method (3-Year Average) Accident Year 132 144 156 168	1986 1988 1988 1988 1990 1995 1995 1996 1996 1999 2000 2000 2000 2000 2000 2000 2000
<u> </u>		œ	Д √	

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Root Mean Squared Error: 0.003

Source: WCIRB aggregate financial data Paid losses are converted to an incurred losses to paid losses at the target age.

Retrospective Testing of Later Period Medical Development Projected from the December 31, 2015 Evaluation

	39 <u>6</u>				0.002		
	384	-0.002		ç	0.002 0.000 0.000		
	372 -0 001			27.0	0.001 0.000 0.000		
	360	-0.002 -0.002 -0.004		Ċ	0.000		
	348	-0.001 -0.002 -0.004		0,000	0.000		
	336	-0.001 -0.003 -0.005		o c		.0.00.	
	324	-0.000 -0.003 -0.003		200		0.00	
	312	0.000		2		-0.00 -0.00	
40	300 300	-0.001 -0.002 -0.005		at Age	000	0.000	
o Cito	288 288	, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,		ss Ratio	0	0.000	
70	276 276	0.007		urred Los	0/7	0.001	
ca ca	264	0.002 -0.003 -0.010		tual Incu	4	0.000 -0.007 -0.007	
Difference from Actual Incurred Lose Datio at Ana	252	-0.002 -0.009 -0.000 -0.000 -0.000 -0.000 -0		Difference from Actual Incurred Loss Ratio at Age	<u> </u>	-0.007 -0.007 -0.007	
fforence	240 240	0.000 -0.000 -0.014		fference	0442	0.005	
٥	228	-0.001 -0.001 -0.018		٥	077	-0.000 -0.001 -0.011	
	216	-0.006 -0.014		20	0	-0.001 -0.007 -0.006	
	204	-0.008 -0.012		20	404	-0.004 -0.004 -0.007	
erage)	192	-0.005 -0.008		je)	87	-0.002 -0.004 -0.003	
Year Av	180	-0.006		r Averag	<u> </u>	-0.002 -0.002	
.poq (e-	168	-0.000	900.0	l (3-Year	<u>8</u>	-0.001	
ent Met	156	-0.002	Error:	Method	<u>8</u>	0.000	
evelopm	44	0.00	Squared	opment	<u>4</u>	-0.001	
Incurred Development Method (6-Year Average)	Year 1986		Root Mean Squared Error:	Paid Development Method (3-Year Average) Accident	1986 1987 1988 1989 1990	1991 1993 1993 1994 1996 1998 1999 2000 2001 2003 2003 2003	1

Source: WCIRB aggregate financial data Paid losses are converted to an incurred losses to paid losses at the target age.

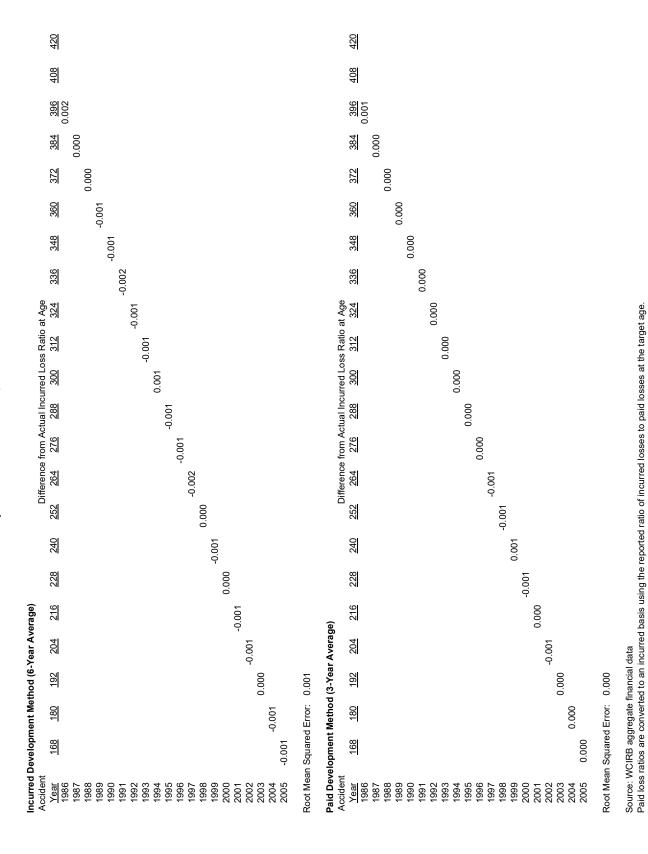
Root Mean Squared Error: 0.003

Source: WCIRB aggregate financial data Paid losses are converted to an incurred losses to paid losses at the target age.

Retrospective Testing of Later Period Medical Development Projected from the December 31, 2016 Evaluation

	408			908
	0.003 0.003			0.001
	0.000 0.000			384 0.000 0.000
	37 <u>2</u> 0.000 -0.001			0.000
	360			3 <u>80</u> 0.00 0.00 0.00
	348 -0.001 -0.003 -0.003 -0.003			0.000
	-0.003			0000 0000
	-0.002			0.000
at Age	0.000.000.00001		at Age	
ss Ratio	900 0.000		ss Ratio	ss Ratio 300 0.001
urred Lo	-0.006		urred Lo	0.003 0.003
stual Inci	-0.004		ctual Inc	276 276 0.003 0.000
from Ac	-0.001		from Ac	e from Ay 264 -0.001 -0.004
Difference from Actual Incurred Loss Ratio at Age	252 -0.003 -0.007		Difference from Actual Incurred Loss Ratio at Age	ifference 252 -0.002 -0.002
	24 <u>0</u> -0.006			0.002 -0.001
	-0.005			-0.005
	-0.007			-0.003 -0.002
erage)	-0.005 -0.005		Эe)	-0.001
Year Av	-0.002 -0.003		r Avera	-0.001
thod (6	<u>180</u> -0.002 -0.003	0.004	d (3-Yea	-0.001 -0.001 -0.002
nent Me	168 -0.002 -0.003	d Error:	t Metho	-0.001 d Error:
evelopr	<u>156</u> -0.002	Squared	lopment	0.000 Squarec
Incurred Development Method (6-Year Avera Accident	Year 1986 1987 1988 1989 1990 1991 1995 1996 1996 1996 1999 2000 2001 2003 2004	Root Mean Squared Error:	Paid Development Method (3-Year Average) Accident	Accident Year 1986 1987 1988 1989 1990 1990 1991 1995 1996 1996 1996 2000 2001 2002 2003 2004 2005 Root Mean Squared Error:

Retrospective Testing of Later Period Medical Development Projected from the December 31, 2017 Evaluation



Root Mean Squared Error of Retrospective Tests of Medical Development

Incurred Development Method (6-Year Average)

Accident	-	•	Starting E	valuation			All
<u>Year</u>	12/31/2012	12/31/2013	12/31/2014	12/31/2015	12/31/2016	12/31/2017	Evaluations
1986	0.001	0.001	0.002	0.001	0.002	0.002	0.002
1987	0.001	0.002	0.003	0.002	0.000	0.000	0.002
1988	0.003	0.003	0.003	0.002	0.001	0.000	0.003
1989	0.004	0.003	0.004	0.003	0.002	0.001	0.003
1990	0.006	0.006	0.003	0.003	0.002	0.001	0.004
1991	0.005	0.005	0.004	0.004	0.003	0.002	0.004
1992	0.004	0.003	0.003	0.002	0.001	0.001	0.003
1993	0.004	0.005	0.004	0.002	0.001	0.001	0.004
1994	0.004	0.004	0.005	0.004	0.002	0.001	0.004
1995	0.008	0.006	0.006	0.004	0.005	0.001	0.006
1996	0.007	0.007	0.007	0.005	0.003	0.001	0.006
1997	0.015	0.016	0.013	0.008	0.004	0.002	0.013
1998	0.013	0.012	0.013	0.007	0.006	0.000	0.011
1999	0.020	0.022	0.019	0.011	0.006	0.001	0.018
2000	0.024	0.025	0.021	0.015	0.007	0.000	0.021
2001	0.018	0.019	0.018	0.011	0.006	0.001	0.016
2002	0.018	0.018	0.015	0.009	0.003	0.001	0.015
2003	0.012	0.012	0.009	0.006	0.003	0.000	0.010
2004	0.009	0.009	0.007	0.005	0.003	0.001	0.007
2005	0.008	0.008	0.006	0.004	0.003	0.001	0.007
All AY	0.011	0.012	0.010	0.006	0.004	0.001	0.010

Paid Development Method (3-Year Average)

Accident			Starting E	valuation			All
<u>Year</u>	12/31/2012	12/31/2013	12/31/2014	12/31/2015	12/31/2016	12/31/2017	Evaluations
1986	0.002	0.003	0.002	0.002	0.001	0.001	0.002
1987	0.001	0.001	0.001	0.000	0.000	0.000	0.001
1988	0.000	0.001	0.001	0.000	0.000	0.000	0.000
1989	0.001	0.001	0.001	0.001	0.000	0.000	0.001
1990	0.002	0.002	0.002	0.001	0.001	0.000	0.002
1991	0.002	0.002	0.002	0.001	0.000	0.000	0.002
1992	0.000	0.001	0.000	0.000	0.001	0.000	0.001
1993	0.004	0.002	0.001	0.001	0.001	0.000	0.002
1994	0.004	0.002	0.001	0.001	0.001	0.000	0.003
1995	0.011	0.006	0.003	0.003	0.003	0.000	0.007
1996	0.007	0.003	0.001	0.002	0.001	0.000	0.004
1997	0.003	0.001	0.004	0.005	0.003	0.001	0.003
1998	0.003	0.002	0.004	0.005	0.002	0.001	0.003
1999	0.003	0.002	0.003	0.004	0.002	0.001	0.003
2000	0.003	0.006	0.008	0.008	0.004	0.001	0.006
2001	0.003	0.002	0.004	0.004	0.002	0.000	0.003
2002	0.003	0.005	0.005	0.005	0.003	0.001	0.004
2003	0.003	0.002	0.002	0.002	0.001	0.000	0.002
2004	0.003	0.001	0.001	0.001	0.001	0.000	0.002
2005	0.005	0.001	0.001	0.001	0.000	0.000	0.003
All AY	0.004	0.003	0.003	0.003	0.002	0.000	0.003

Source: WCIRB aggregate financial data

Note: The number of observations decreases as the evaluation increases, resulting in overall lower error terms over time.

Observation Count of More Accurate Medical Development Method

Incurred Development Method (6-Year Average)

Accident			Starting E	valuation			All
<u>Year</u>	12/31/2012	12/31/2013	12/31/2014	12/31/2015	12/31/2016	12/31/2017	Evaluations
1986	2	3	1	1	1	0	8
1987	3	1	0	0	1	1	6
1988	0	0	1	0	0	1	2
1989	1	1	0	0	0	0	2
1990	1	0	1	0	0	0	2
1991	0	0	0	0	0	0	0
1992	1	0	0	0	1	0	2
1993	3	0	0	0	1	0	4
1994	4	2	0	0	0	0	6
1995	6	4	0	0	0	0	10
1996	5	1	0	0	0	0	6
1997	1	0	0	0	0	0	1
1998	1	0	0	1	0	1	3
1999	1	0	0	0	0	1	2
2000	1	0	0	0	0	1	2
2001	2	1	0	0	0	0	3
2002	1	0	0	0	0	0	1
2003	2	0	0	0	0	0	2
2004	2	0	0	0	0	0	2
2005	3	0	0	1	0	0	4
All AY	40	13	3	3	4	5	68

Paid Development Method (3-Year Average)

Accident	•	`	Starting E	valuation			All
<u>Year</u>	12/31/2012	12/31/2013	12/31/2014	12/31/2015	12/31/2016	12/31/2017	Evaluations
1986	1	0	2	2	1	1	7
1987	1	3	4	3	1	0	12
1988	5	5	3	3	2	0	18
1989	5	4	4	3	2	1	19
1990	5	5	3	3	2	1	19
1991	6	5	4	3	2	1	21
1992	5	5	4	3	1	1	19
1993	3	5	4	3	1	1	17
1994	2	3	4	3	2	1	15
1995	0	1	4	3	2	1	11
1996	1	4	4	3	2	1	15
1997	5	5	4	3	2	1	20
1998	5	5	4	2	2	0	18
1999	5	5	4	3	2	0	19
2000	5	5	4	3	2	0	19
2001	4	4	4	3	2	1	18
2002	5	5	4	3	2	1	20
2003	4	5	4	3	2	1	19
2004	4	5	4	3	2	1	19
2005	3	5	4	3	2	1	18
All AY	74	84	76	58	36	15	343

Source: WCIRB aggregate financial data

Note: The number of observations decreases as the evaluation increases.

Change in Reported Indemnity Claim Settlement Ratio¹

<u>AY</u> 1989	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>					
1989	-3.4%	-3.7%	-2.7%	-1.7%	-0.5%	-0.3%					
1991	-8.4%	-4.7%	-2.7%	-1.2%	-1.2%	-0.3%					
1991				2.2%	1.9%						
1992	2.1% 4.1%	4.2% 6.8%	3.9% 4.1%	2.7%	0.5%	0.7% 0.0%					
1994	2.7%	0.3%	1.3%	-0.6%	-0.3%	-0.5%					
1995	-0.7%	0.5%	-2.4%	-0.7%	-0.8%	-0.9%					
1996	2.5%	-4.8%	-0.8%	-0.7%	-0.9%	-0.8%					
1997	-9.3%	-0.6%	-0.7%	-1.4%	-1.1%	-1.2%					
1998	0.0%	-2.0%	-3.3%	-2.4%	-2.1%	-1.6%					
1999	-1.7%	-2.9%	-1.6%	-2.0%	-1.7%	-1.2%					
2000	-1.2%	-0.7%	-2.7%	-3.1%	-2.4%	-1.6%					
2001	-2.9%	-5.9%	-6.8%	-5.4%	-3.9%	-1.0%					
2002	-0.8%	-1.4%	-1.5%	-0.7%	2.4%	0.4%					
2003	-1.4%	-3.3%	-1.9%	2.4%	0.3%	0.3%					
2004	-0.1%	1.3%	4.2%	2.2%	1.5%	0.5%					
2005	0.1%	3.4%	2.5%	1.9%	0.6%	0.2%					
2006	0.8%	0.5%	0.9%	-0.4%	-0.3%	-0.3%					
2007	0.9%	0.1%	-0.7%	-0.8%	-0.8%	-0.6%					
2008	0.4%	-1.7%	-1.8%	-1.5%	-1.1%	0.4%					
2009	-0.9%	-1.9%	-1.8%	-1.4%	-0.1%	-0.5%					
2010	0.2%	0.5%	0.7%	1.8%	1.5%	1.4%					
2011	0.7%	0.4%	1.5%	1.2%	1.1%	1.1%					
2012	-0.1%	0.8%	1.1%	1.4%	1.3%	1.3%					
2013	-0.6%	0.3%	1.2%	1.6%	1.8%	1.4%					
Number of observations of claim settlement rate change:											
Downward	13	12	14	15	14	13	<u>All</u> 81				
Upward	11	12	10	9	10	11	63				
-											

Blue - Arithmetic change in claim settlement rates by more than 1.0% (lighter color) or more than 1.5% (darker color).

Source: WCIRB aggregate financial data for December 31 evaluations.

¹ For example, the value for 2010 at 12 months is equal to the arithemetic difference between the <u>reported</u> indemnity claim settlement rate for 2010 at 12 months and the <u>reported</u> indemnity claim settlement rate for 2009 at 12 months.

Red - Arithmetic change in claim settlement rates by less than -1.0% (lighter color) or less than - 1.5% (darker color).

Factors
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eetir																														
216-228	1.002	1.002	1.002	1.002	1.003	1.003	1.005	1.004	1.003	1.004	1.003	1.004	1.005																	
204-216	1.002	1.002	1.002	1.002	1.002	1.004	1.005	1.005	1.004	1.006	1.004	1.004	1.005	1.005																
192-204	1.005	1.002	1.003	1.003	1.003	1.003	1.003	1.004	1.005	1.006	1.004	1.004	1.005	1.005	1.007															
180-192	1.003	1.003	1.004	1.003	1.004	1.003	1.005	1.004	1.006	1.006	1.006	1.005	1.006	1.006	1.007	1.009														
168-180	1.002	1.002	1.003	1.004	1.004	1.006	1.005	1.006	1.006	1.007	1.007	1.007	1.007	1.006	1.008	1.008	1.010													
156-168	1.003	1.003	1.004	1.005	1.004	1.007	1.007	1.006	1.007	1.009	1.008	1.008	1.008	1.008	1.009	1.009	1.010	1.011												
144-156	1.004	1.004	1.004	1.007	1.004	1.008	1.008	1.009	1.008	1.009	1.009	1.009	1.011	1.008	1.012	1.011	1.013	1.012	1.013											
132-144	1.005	1.006	1.005	1.006	1.007	1.009	1.012	1.012	1.012	1.012	1.011	1.010	1.012	1.014	1.015	1.015	1.015	1.016	1.016	1.015										
120-132	1.006	1.006	1.008	1.010	1.010	1.014	1.010	1.014	1.016	1.015	1.015	1.013	1.014	1.015	1.021	1.020	1.020	1.018	1.020	1.018	1.021		12-84	7.747	8.733	12.7%				
108-120	1.010	1.010	1.011	1.012	1.013	1.015	1.016	1.018	1.018	1.021	1.018	1.016	1.017	1.018	1.023	1.030	1.028	1.026	1.027	1.023	1.023	1.022		CY2010	AY2010	Change:				
96-108	1.015	1.015	1.014	1.016	1.021	1.020	1.023	1.027	1.025	1.027	1.025	1.025	1.024	1.020	1.026	1.035	1.042	1.035	1.033	1.027	1.031	1.027	1.027							
84-96	1.028	1.024	1.024	1.023	1.025	1.032	1.030	1.035	1.034	1.037	1.036	1.035	1.034	1.031	1.030	1.041	1.047	1.050	1.046	1.041	1.043	1.038	1.041	1.035						
72-84	1.043	1.040	1.038	1.039	1.040	1.042	1.049	1.047	1.052	1.054	1.055	1.052	1.051	1.046	1.043	1.049	1.060	1.068	1.066	1.060	1.061	1.060	1.056	1.051	1.044					
60-72	1.076	1.068	1.070	1.071	1.067	1.067	1.069	1.075	1.080	1.084	1.089	1.088	1.077	1.075	1.072	1.073	1.079	1.090	1.092	1.092	1.092	1.091	1.087	1.087	1.072	1.071				
48-60	1.140	1.134	1.130	1.128	1.124	1.120	1.116	1.129	1.130	1.133	1.146	1.151	1.145	1.127	1.128	1.116	1.121	1.135	1.140	1.150	1.156	1.147	1.144	1.137	1.129	1.129	1.119			
36-48	1.322	1.282	1.297	1.281	1.278	1.260	1.246	1.246	1.251	1.268	1.282	1.304	1.322	1.290	1.249	1.236	1.235	1.229	1.246	1.271	1.280	1.281	1.266	1.262	1.260	1.257	1.244	1.230		
24-36	1.856	1.731	1.701	1.733	1.708	1.713	1.694	1.691	1.661	1.692	1.724	1.744	1.796	1.782	1.696	1.522	1.512	1.539	1.547	1.577	1.616	1.628	1.613	1.597	1.606	1.635	1.618	1.586	1.569	
12-24	2.938	3.048	2.999	2.902	2.958	3.086	3.327	3.313	3.472	3.422	3.506	3.511	3.545	3.590	3.370	2.914	2.734	2.866	2.905	2.927	3.069	3.157	3.208	3.137	3.169	3.229	3.278	3.235	3.185	3.109
Α	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018

Source: WCIRB aggregate financial data for December 31 evaluations.

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216-228	_	_	1.006										010																	
(4																														
204-216	1.005	1.006	1.007	1.008	1.011	1.013	1.011	1.014	1.014	1.013	1.012	1.009	1.010	1.009																
192-204	1.007	1.005	1.007	1.017	1.011	1.012	1.015	1.013	1.014	1.017	1.015	1.010	1.011	1.010	1.010															
180-192	1.009	1.005	1.009	1.010	1.013	1.013	1.018	1.016	1.014	1.015	1.018	1.013	1.012	1.011	1.012	1.013														
168-180	1.008	1.006	1.007	1.010	1.014	1.017	1.018	1.018	1.016	1.019	1.016	1.017	1.017	1.012	1.013	1.012	1.013													
156-168	1.007	1.010	1.008	1.013	1.012	1.014	1.019	1.020	1.019	1.019	1.016	1.020	1.022	1.016	1.016	1.015	1.014	1.015												
144-156	1.008	1.010	1.009	1.011	1.014	1.018	1.021	1.023	1.022	1.021	1.025	1.020	1.022	1.018	1.019	1.018	1.019	1.015	1.015											
132-144	1.008	1.009	1.011	1.013	1.020	1.017	1.024	1.027	1.026	1.030	1.025	1.023	1.022	1.023	1.026	1.024	1.021	1.020	1.020	1.017										
120-132	1.008	1.010	1.012	1.016	1.020	1.025	1.020	1.025	1.028	1.032	1.032	1.027	1.030	1.024	1.030	1.034	1.031	1.025	1.022	1.018	1.020		12-84	5.622	6.198	10.3%				
108-120	1.013	1.010	1.012	1.015	1.021	1.029	1.031	1.029	1.033	1.033	1.032	1.031	1.034	1.032	1.030	1.036	1.038	1.034	1.031	1.027	1.024	1.025		CY2010	AY2010	Change:				
96-108	1.014	1.013	1.014	1.017	1.025	1.028	1.037	1.038	1.036	1.039	1.035	1.038	1.038	1.034	1.041	1.040	1.049	1.042	1.041	1.035	1.032	1.030	1.029							
84-96	1.019	1.020	1.021	1.020	1.025	1.035	1.040	1.049	1.052	1.047	1.044	1.042	1.045	1.046	1.048	1.055	1.054	1.056	1.057	1.051	1.046	1.043	1.041	1.040						
72-84	1.026	1.027	1.028	1.028	1.034	1.038	1.051	1.055	1.065	1.066	1.059	1.056	1.057	1.054	1.057	1.070	1.073	1.068	1.075	1.072	1.067	1.066	1.058	1.056	1.048					
60-72	1.034	1.037	1.042	1.043	1.042	1.048	1.058	1.071	1.080	1.093	1.089	1.079	1.076	1.072	1.074	1.092	1.095	1.099	1.097	1.103	1.104	1.096	1.095	1.087	1.077	1.076				
48-60	1.057	1.054	1.063	1.064	1.061	1.067	1.081	1.097	1.105	1.118	1.133	1.127	1.109	1.112	1.112	1.123	1.138	1.140	1.142	1.148	1.160	1.152	1.145	1.143	1.130	1.121	1.111			
36-48	1.114	1.106	1.104	1.110	1.100	1.107	1.124	1.142	1.159	1.181	1.207	1.222	1.212	1.168	1.170	1.189	1.209	1.220	1.230	1.241	1.251	1.265	1.248	1.247	1.238	1.226	1.218	1.197		
24-36	1.274	1.256	1.231	1.216	1.207	1.236	1.254	1.265	1.286	1.328	1.378	1.430	1.472	1.416	1.318	1.345	1.345	1.399	1.413	1.421	1.447	1.468	1.470	1.468	1.464	1.462	1.439	1.410	1.391	
12-24	2.272	2.479	2.297	2.060	1.962	2.040	2.131	2.183	2.271	2.342	2.476	2.666	2.842	2.887	2.592	2.298	2.251	2.340	2.416	2.325	2.408	2.479	2.580	2.561	2.492	2.518	2.533	2.480	2.373	2.378
Α	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018

Source: WCIRB aggregate financial data for December 31 evaluations.

Difference in Projected Calendar Year Indeminity Paid Development Compared to Actual¹

<u>AY</u>	<u>12-84</u>	<u>24-84</u>	<u>36-84</u>	<u>48-84</u>	<u>60-84</u>	<u>72-84</u>	<u>84-108</u>	84-228
1990	-0.7%	-4.3%	-2.4%	-0.4%	-0.2%	-0.1%	-0.8%	-2.8%
1991	-13.2%	-11.7%	-3.7%	-1.8%	-0.8%	-0.4%	-0.6%	-2.0%
1992	-7.8%	-4.8%	-4.9%	-1.9%	-0.6%	-0.4%	0.0%	-1.7%
1993	0.0%	-1.8%	-2.2%	-1.9%	-0.6%	-0.1%	0.7%	1.1%
1994	-2.2%	-6.3%	-5.2%	-2.4%	-1.1%	-0.2%	1.1%	3.7%
1995	3.3%	-4.2%	-3.4%	-0.7%	0.6%	0.5%	1.1%	3.2%
1996	-2.9%	-2.5%	-1.3%	1.3%	1.2%	0.7%	1.4%	4.9%
1997	4.8%	0.0%	2.0%	2.8%	2.2%	1.3%	2.0%	5.5%
1998	4.8%	6.3%	6.2%	4.4%	3.2%	1.5%	2.5%	8.0%
1999	16.3%	13.5%	9.4%	6.4%	3.5%	1.5%	2.4%	7.3%
2000	12.8%	12.7%	9.3%	4.8%	2.7%	1.0%	1.8%	6.2%
2001	11.4%	10.3%	5.9%	1.6%	0.3%	0.2%	0.5%	5.4%
2002	3.0%	1.7%	-0.4%	-1.1%	-0.5%	-0.1%	0.2%	
2003	-18.2%	-12.8%	-7.6%	-3.6%	-2.0%	-0.8%	-0.2%	
2004	-34.4%	-24.1%	-11.1%	-4.9%	-1.9%	-0.5%	1.4%	
2005	-21.9%	-16.7%	-6.6%	-2.4%	-0.4%	0.4%	2.6%	
2006	7.9%	3.0%	1.8%	3.5%	2.7%	1.5%	2.1%	
2007	8.9%	7.5%	5.0%	4.2%	3.0%	1.5%	1.9%	
2008	13.0%	12.2%	9.5%	6.4%	3.2%	1.3%	0.9%	
2009	21.7%	16.1%	11.1%	6.7%	3.5%	1.7%	1.9%	
2010	12.7%	9.6%	6.2%	3.2%	2.2%	1.0%	1.5%	
2011	0.7%	-0.9%	-0.7%	-0.3%	-0.6%	-0.3%	0.2%	
2012	-8.4%	-6.3%	-4.5%	-3.2%	-2.0%	-1.6%		
2013	-7.0%	-7.9%	-7.6%	-6.1%	-3.8%	-2.0%		
Number of o	<u>observations</u>	of difference	e in develop	ment factor	<u>::</u>		All	
Downward	10	13	14	13	12	11	73	
Upward	14	11	10	11	12	13	71	

Correlation between claim settlement ratio change at age X to development difference at X-to-84:												
	-0.0048	-0.2635	-0.5395	-0.6130	-0.5523	-0.6331						
Correlation between claim settlement ratio change at age X to development difference at 84-to-108:												
	0.1859	0.2164	0.1347	-0.0992	-0.2002	-0.3811						
Correlation between claim settlement ratio change at age X to development difference at 84-to-228:												
	0 0999	-0.1650	-0 3069	-0 5105	-0.6602	-0.8671						

¹ For example, the value of 12.7% for 2010 at 12-to-84 months is equal to the difference in the projected loss development factor at 12-to-84 months as of 12/31/2010 to the actual loss development factor at 12-to-84 months that emerged for accident year 2010.

Yellow Difference in development factors by less than -0.5%.

Green Difference in development factors by more than 0.5%.

Source: WCIRB aggregate financial data for December 31 evaluations.

Difference in Projected Calendar Year Medical Paid Development Compared to Actual¹

AY	<u>12-84</u>	24-84	36-84	48-84	60-84	<u>72-84</u>	84-108	84-228
1989								
1990	9.7%	0.6%	-0.6%	-0.1%	0.3%	0.3%	0.0%	-6.0%
1991	-11.2%	-4.1%	-0.8%	0.3%	0.5%	0.3%	-0.6%	-3.2%
1992	-12.9%	-2.9%	0.3%	0.7%	0.5%	0.0%	0.3%	-0.6%
1993	-5.4%	-0.7%	1.3%	1.8%	1.5%	1.0%	1.8%	5.9%
1994	10.0%	5.8%	4.1%	3.8%	2.5%	1.2%	3.0%	10.9%
1995	16.8%	11.8%	7.6%	6.3%	4.5%	2.4%	4.4%	16.0%
1996	18.5%	15.7%	13.0%	8.9%	5.6%	2.7%	5.2%	17.4%
1997	24.8%	20.0%	17.0%	11.7%	7.3%	3.6%	5.4%	17.3%
1998	29.6%	25.7%	19.8%	14.0%	8.8%	3.7%	5.2%	19.3%
1999	33.6%	26.3%	17.9%	11.5%	6.4%	2.4%	4.5%	18.1%
2000	30.3%	21.0%	12.4%	6.6%	3.8%	1.7%	3.8%	14.9%
2001	18.5%	11.2%	4.1%	1.4%	1.0%	0.6%	2.2%	13.8%
2002	-4.0%	-5.5%	-4.6%	-1.4%	-0.8%	-0.1%	1.2%	
2003	-26.3%	-17.9%	-8.4%	-4.3%	-2.5%	-0.8%	0.3%	
2004	-17.1%	-6.5%	-1.6%	0.3%	0.7%	0.4%	0.5%	
2005	9.2%	11.5%	9.2%	5.5%	2.8%	1.3%	1.9%	
2006	19.4%	14.9%	10.4%	5.9%	3.3%	1.1%	1.4%	
2007	19.9%	16.2%	10.6%	6.9%	4.1%	1.7%	2.1%	
2008	7.1%	11.3%	9.6%	6.8%	4.5%	1.7%	0.3%	
2009	13.2%	9.3%	6.7%	4.0%	2.1%	1.0%	-0.6%	
2010	10.3%	7.1%	3.7%	0.8%	-0.2%	-0.3%	-0.9%	
2011	4.7%	0.6%	-0.9%	-1.5%	-1.8%	-1.4%	-2.4%	
2012	-3.5%	-2.7%	-2.7%	-2.5%	-2.0%	-1.1%		
2013	-12.0%	-9.5%	-9.2%	-7.2%	-4.8%	-2.5%		
<u>Number o</u>	f observation	ns of differer	nce in devel	opment fact	or:		All	
Downward	8	8	8	6	6	6	42	
Upward	16	16	16	18	18	17	101	

Correlation between claim settlement ratio change at age X to development difference at X-to-84: -0.0843 -0.1616 -0.2719 -0.4966 -0.8413 -0.6327 Correlation between claim settlement ratio change at age X to development difference at 84-to-108: -0.0170 -0.0911 -0.1997 -0.3839 -0.5061 -0.7898Correlation between claim settlement ratio change at age X to development difference at 84-to-228: 0.1339 -0.1025 -0.2435 -0.3916 -0.5556 -0.8012

Yellow Difference in development factors by less than -0.5%.

Green Difference in development factors by more than 0.5%.

Source: WCIRB aggregate financial data for December 31 evaluations.

¹ For example, the value of 10.3% for 2010 at 12-to-84 months is equal to the difference in the projected loss development factor at 12-to-84 months as of 12/31/2010 to the actual loss development factor at 12-to-84 months that emerged for accident year 2010.

Reported Indemnity Claim Settlement Ratio

Development_	CI	osed at Eı	nd of Cale	ndar Year		Development		Year-to	o-Year Cha	ange	
Years	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018	<u>Years</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	14-18
29 - 29					99.8%	29 - 29					
28 - 28				99.7%	99.7%	28 - 28				0.0%	
27 - 27			99.7%	99.7%	99.7%	27 - 27			0.0%	0.0%	
26 - 26		99.7%	99.6%	99.7%	99.6%	26 - 26		-0.1%	0.0%	-0.1%	
25 - 25	99.7%	99.6%	99.6%	99.5%	99.5%	25 - 25	0.0%	0.0%	-0.1%	0.0%	-0.2%
24 - 24	99.6%	99.6%	99.5%	99.4%	99.3%	24 - 24	0.0%	-0.1%	-0.1%	-0.1%	-0.3%
23 - 23	99.5%	99.4%	99.3%	99.2%	99.2%	23 - 23	-0.1%	-0.1%	-0.1%	0.0%	-0.3%
22 - 22	99.4%	99.3%	99.1%	99.1%	99.0%	22 - 22	-0.1%	-0.1%	0.0%	-0.1%	-0.3%
21 - 21	99.2%	99.1%	99.0%	98.9%	98.8%	21 - 21	-0.1%	0.0%	-0.1%	-0.1%	-0.4%
20 - 20	99.0%	98.9%	98.8%	98.6%	98.7%	20 - 20	-0.1%	-0.1%	-0.2%	0.0%	-0.3%
19 - 19	98.8%	98.7%	98.5%	98.5%	98.5%	19 - 19	-0.2%	-0.1%	0.0%	0.0%	-0.4%
18 - 18	98.5%	98.4%	98.3%	98.2%	98.0%	18 - 18	-0.2%	-0.1%	-0.1%	-0.3%	-0.6%
17 - 17	98.2%	98.1%	98.0%	97.6%	98.0%	17 - 17	-0.1%	-0.1%	-0.4%	0.4%	-0.2%
16 - 16	97.9%	97.7%	97.3%	97.7%	97.9%	16 - 16	-0.2%	-0.4%	0.4%	0.2%	0.0%
15 - 15	97.5%	96.9%	97.3%	97.5%	97.8%	15 - 15	-0.6%	0.4%	0.2%	0.3%	0.3%
14 - 14	96.5%	96.8%	97.0%	97.3%	97.6%	14 - 14	0.3%	0.2%	0.3%	0.3%	1.1%
13 - 13	96.4%	96.4%	96.8%	97.0%	97.1%	13 - 13	0.0%	0.4%	0.3%	0.1%	0.7%
12 - 12	95.9%	96.0%	96.4%	96.4%	96.8%	12 - 12	0.2%	0.3%	0.0%	0.4%	0.9%
11 - 11	95.3%	95.5%	95.5%	96.0%	96.2%	11 - 11	0.1%	0.1%	0.4%	0.3%	0.9%
10 - 10	94.4%	94.3%	94.9%	95.1%	95.4%	10 - 10	-0.1%	0.6%	0.3%	0.2%	0.9%
9 - 9	93.0%	93.2%	93.7%	93.9%	94.8%	9 - 9	0.3%	0.5%	0.2%	0.9%	1.8%
8 - 8	91.4%	91.6%	91.9%	92.9%	93.7%	8 - 8	0.2%	0.3%	1.1%	0.8%	2.3%
7 - 7	88.8%	88.7%	90.2%	91.1%	92.1%	7 - 7	-0.2%	1.5%	0.8%	1.0%	3.3%
6 - 6	84.6%	86.0%	87.2%	88.4%	89.9%	6 - 6	1.4%	1.2%	1.2%	1.5%	5.3%
5 - 5	80.6%	81.8%	83.1%	84.8%	86.3%	5 - 5	1.1%	1.3%	1.7%	1.5%	5.7%
4 - 4	73.8%	75.1%	76.7%	78.2%	80.7%	4 - 4	1.4%	1.6%	1.5%	2.6%	7.0%

Source: WCIRB aggregate financial data. Insurer mix reflects the insurers also reporting medical transaction data.

Percent of Open Indemnity Claims with Medical Service Payments¹

Development_		Tran	saction Ye	ear		Development_		Year-to	o-Year Cha	ange	
Years	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018	<u>Years</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	<u>14-18</u>
29 - 29					53.7%	29 - 29					
28 - 28				52.2%	54.0%	28 - 28				1.8%	
27 - 27			58.3%	56.7%	54.0%	27 - 27			-1.7%	-2.6%	
26 - 26		61.2%	57.7%	59.2%	53.2%	26 - 26		-3.5%	1.5%	-6.0%	
25 - 25	62.0%	61.9%	59.8%	55.5%	53.4%	25 - 25	0.0%	-2.1%	-4.3%	- 2.1%	-8.6%
24 - 24	61.5%	59.3%	55.5%	52.3%	52.9%	24 - 24	-2.2%	-3.8%	-3.2%	0.6%	-8.7%
23 - 23	63.6%	58.4%	57.2%	53.8%	55.1%	23 - 23	-5.2%	-1.1%	-3.4%	1.3%	-8.5%
22 - 22	60.4%	60.4%	57.4%	55.1%	55.2%	22 - 22	0.1%	-3.0%	-2.4%	0.2%	-5.2%
21 - 21	59.9%	59.3%	57.3%	56.8%	54.0%	21 - 21	-0.6%	-1.9%	-0.5%	-2.8%	-5.9%
20 - 20	61.8%	59.4%	59.9%	57.2%	57.2%	20 - 20	-2.3%	0.5%	-2.7%	0.0%	-4.5%
19 - 19	59.2%	60.4%	59.5%	57.3%	56.3%	19 - 19	1.2%	-0.9%	-2.3%	-1.0%	-2.9%
18 - 18	61.8%	61.6%	60.6%	58.3%	56.7%	18 - 18	-0.3%	-1.0%	-2.3%	-1.5%	-5.1%
17 - 17	65.0%	65.6%	59.8%	57.8%	61.5%	17 - 17	0.7%	-5.8%	-2.0%	3.8%	-3.4%
16 - 16	65.7%	63.9%	61.0%	60.1%	62.0%	16 - 16	-1.8%	-2.9%	-0.9%	1.9%	-3.6%
15 - 15	64.1%	62.8%	59.8%	63.2%	62.2%	15 - 15	-1.3%	-2.9%	3.4%	-1.0%	-1.9%
14 - 14	63.0%	62.0%	62.1%	64.0%	65.0%	14 - 14	-1.0%	0.1%	1.9%	1.0%	2.0%
13 - 13	63.4%	65.0%	63.0%	65.9%	63.2%	13 - 13	1.6%	-2.0%	3.0%	-2.8%	-0.2%
12 - 12	66.3%	64.7%	64.8%	64.4%	69.1%	12 - 12	-1.6%	0.1%	-0.5%	4.8%	2.8%
11 - 11	65.0%	65.1%	63.1%	68.3%	69.8%	11 - 11	0.1%	-1.9%	5.1%	1.5%	4.8%
10 - 10	63.2%	65.5%	66.7%	69.3%	68.8%	10 - 10	2.3%	1.1%	2.7%	-0.5%	5.6%
9 - 9	64.0%	68.1%	67.5%	69.5%	75.3%	9 - 9	4.1%	-0.7%	2.0%	5.8%	11.3%
8 - 8	65.9%	68.2%	67.2%	74.6%	78.3%	8 - 8	2.3%	-1.0%	7.5%	3.6%	12.4%
7 - 7	65.6%	68.2%	74.0%	78.2%	81.7%	7 - 7	2.7%	5.8%	4.2%	3.5%	16.1%
6 - 6	66.5%	75.7%	78.4%	83.0%	83.2%	6 - 6	9.2%	2.7%	4.6%	0.2%	16.7%
5 - 5	71.4%	79.1%	84.8%	84.6%	82.2%	5 - 5	7.7%	5.6%	-0.2%	-2.4%	10.8%
4 - 4	75.5%	89.7%	88.8%	85.6%	84.1%	4 - 4	14.2%	-0.8%	-3.3%	-1.4%	8.6%
		Corr	relation wi	th Change	in Settler	nent Rate (All DYs):	0.836	0.725	0.430	0.174	0.808
		Correlatio	n with Cha	ange in Se	ettlement F	Rate (11 to 25 DYs):	0.062	0.222	0.761	0.673	0.868

Source: WCIRB aggregate financial and medical transaction data. Insurer mix reflects the insurers also reporting medical transaction data.

¹Equal to [the number of claims with paid medical transactions in the given year] / [the number of indemnity claims open during the calendar year from aggregate financial data]

Incremental Paid Medical Per Open Indemnity Claim - Aggregate Financial Data

Development_		Cal	endar Yea	ar		Development_		Year-to	-Year Cha	inge	
Years	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018	<u>Years</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	14-18
27 - 29				6,968	8,143	27 - 29				17%	
24 - 26		11,148	8,025	9,322	12,200	24 - 26		-28%	16%	31%	
22 - 23	10,368	13,007	11,329	11,538	13,915	22 - 23	25%	-13%	2%	21%	34%
20 - 21	14,306	13,143	13,915	9,022	9,734	20 - 21	-8%	6%	-35%	8%	-32%
19 - 19	16,051	13,017	11,809	10,420	11,547	19 - 19	-19%	-9%	-12%	11%	-28%
18 - 18	13,621	12,675	12,824	13,552	10,395	18 - 18	-7%	1%	6%	-23%	-24%
17 - 17	12,949	13,333	15,351	9,669	11,560	17 - 17	3%	15%	-37%	20%	-11%
16 - 16	14,278	16,104	11,302	10,765	11,294	16 - 16	13%	-30%	-5%	5%	-21%
15 - 15	13,901	14,163	13,377	10,090	11,594	15 - 15	2%	-6%	-25%	15%	-17%
14 - 14	16,279	14,768	12,193	11,859	11,497	14 - 14	-9%	-17%	-3%	-3%	-29%
13 - 13	14,868	11,163	11,718	10,683	12,881	13 - 13	-25%	5%	-9%	21%	-13%
12 - 12	14,042	13,621	11,911	11,418	12,284	12 - 12	-3%	-13%	-4%	8%	-13%
11 - 11	15,055	13,620	13,343	11,410	12,346	11 - 11	-10%	-2%	-14%	8%	-18%
10 - 10	12,827	12,796	12,268	12,793	13,053	10 - 10	0%	-4%	4%	2%	2%
9 - 9	14,014	11,636	12,685	12,104	12,146	9 - 9	-17%	9%	-5%	0%	-13%
8 - 8	12,505	13,026	12,674	11,861	12,322	8 - 8	4%	-3%	-6%	4%	-1%
7 - 7	12,772	12,544	11,956	12,903	11,747	7 - 7	-2%	-5%	8%	-9%	-8%
6 - 6	12,242	12,415	12,266	12,407	11,135	6 - 6	1%	-1%	1%	-10%	-9%
5 - 5	12,243	12,012	11,308	10,899	10,032	5 - 5	-2%	-6%	-4%	-8%	-18%
4 - 4	11,801	10,921	10,373	9,782	9,622	4 - 4	-7%	-5%	-6%	-2%	-18%

Source: WCIRB aggregate financial data. Insurer mix reflects the insurers also reporting medical transaction data.

Paid Medical per Claim with Medical Transactions

Development_		Tran	saction Ye	ar		Development_		Year-to	-Year Cha	ange	
Years	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018	<u>Years</u>	<u>14-15</u>	<u>15-16</u>	<u>16-17</u>	<u>17-18</u>	14-18
27 - 29				8,202	6,976	27 - 29				-15%	
24 - 26		7,719	6,397	8,284	8,215	24 - 26		-17%	29%	-1%	
22 - 23	6,497	7,897	9,263	9,676	9,841	22 - 23	22%	17%	4%	2%	51%
20 - 21	9,752	10,999	10,593	7,129	7,086	20 - 21	13%	-4%	-33%	-1%	-27%
19 - 19	11,919	9,725	7,237	7,426	7,585	19 - 19	-18%	-26%	3%	2%	-36%
18 - 18	10,503	8,546	8,559	7,725	5,494	18 - 18	-19%	0%	-10%	-29%	-48%
17 - 17	8,707	8,863	7,900	5,269	6,707	17 - 17	2%	-11%	-33%	27%	-23%
16 - 16	9,294	8,614	6,091	5,998	6,583	16 - 16	-7%	-29%	-2%	10%	-29%
15 - 15	8,659	6,714	6,733	6,806	6,202	15 - 15	-22%	0%	1%	-9%	-28%
14 - 14	7,376	7,649	6,823	6,301	5,591	14 - 14	4%	-11%	-8%	-11%	-24%
13 - 13	8,074	7,719	6,604	5,767	5,705	13 - 13	-4%	-14%	-13%	-1%	-29%
12 - 12	8,086	7,008	6,081	6,183	5,775	12 - 12	-13%	-13%	2%	-7%	-29%
11 - 11	7,502	6,510	6,427	5,801	5,982	11 - 11	-13%	-1%	-10%	3%	-20%
10 - 10	6,785	6,591	5,965	5,983	5,517	10 - 10	-3%	-9%	0%	-8%	-19%
9 - 9	7,184	6,407	6,082	5,784	5,405	9 - 9	-11%	-5%	-5%	-7%	-25%
8 - 8	6,612	6,360	5,939	5,402	5,327	8 - 8	-4%	-7%	-9%	-1%	-19%
7 - 7	6,579	6,412	5,839	5,230	5,070	7 - 7	-3%	-9%	-10%	-3%	-23%
6 - 6	6,411	6,256	5,707	5,234	4,857	6 - 6	-2%	-9%	-8%	-7%	-24%
5 - 5	6,387	5,970	5,655	5,194	4,373	5 - 5	-7%	-5%	-8%	-16%	-32%
4 - 4	6,291	6,004	5,111	4,514	4,272	4 - 4	-5%	-15%	-12%	-5%	-32%

Relativity to Incremental Paid Medical per Open Indemnity Claim From Aggregate Financial Data

Development	Calendar/Transaction Year			Development_	Year-to-Year Change						
Years	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018	Years	<u>Years</u> <u>14-15</u>		<u>16-17</u>	<u>17-18</u>	<u>14-18</u>
27 - 29				1.18	0.86	27 - 29				-27%	
24 - 26		0.69	0.80	0.89	0.67	24 - 26		15%	11%	-24%	
22 - 23	0.63	0.61	0.82	0.84	0.71	22 - 23	-3%	35%	3%	-16%	13%
20 - 21	0.68	0.84	0.76	0.79	0.73	20 - 21	23%	-9%	4%	-8%	7%
19 - 19	0.74	0.75	0.61	0.71	0.66	19 - 19	1%	-18%	16%	-8%	-12%
18 - 18	0.77	0.67	0.67	0.57	0.53	18 - 18	-13%	-1%	-15%	-7%	-31%
17 - 17	0.67	0.66	0.51	0.54	0.58	17 - 17	-1%	-23%	6%	6%	-14%
16 - 16	0.65	0.53	0.54	0.56	0.58	16 - 16	-18%	1%	3%	5%	-10%
15 - 15	0.62	0.47	0.50	0.67	0.53	15 - 15	-24%	6%	34%	-21%	-14%
14 - 14	0.45	0.52	0.56	0.53	0.49	14 - 14	14%	8%	-5%	-8%	7%
13 - 13	0.54	0.69	0.56	0.54	0.44	13 - 13	27%	-19%	-4%	-18%	-18%
12 - 12	0.58	0.51	0.51	0.54	0.47	12 - 12	-11%	-1%	6%	-13%	-18%
11 - 11	0.50	0.48	0.48	0.51	0.48	11 - 11	-4%	1%	6%	-5%	-3%
10 - 10	0.53	0.52	0.49	0.47	0.42	10 - 10	-3%	-6%	-4%	-10%	-20%
9 - 9	0.51	0.55	0.48	0.48	0.45	9 - 9	7%	-13%	0%	-7%	-13%
8 - 8	0.53	0.49	0.47	0.46	0.43	8 - 8	-8%	-4%	-3%	-5%	-18%
7 - 7	0.52	0.51	0.49	0.41	0.43	7 - 7	-1%	-4%	-17%	6%	-16%
6 - 6	0.52	0.50	0.47	0.42	0.44	6 - 6	-4%	-8%	-9%	3%	-17%
5 - 5	0.52	0.50	0.50	0.48	0.44	5 - 5	-5%	1%	-5%	-9%	-16%
4 - 4	0.53	0.55	0.49	0.46	0.44	4 - 4	3%	-10%	-6%	-4%	-17%

Source: WCIRB medical transaction data

Item AC20-03-01 First Quarter 2020 Review of Diagnostics

Twice a year, WCIRB 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:

- Permanent disability claims continue to close at a faster rate throughout the state. The percent of statewide permanent disability claims closed increased from 34% for policy year 2011 to 50% for policy year 2016 at second report level (30 months from policy inception). Los Angeles and San Diego's permanent disability closed claim percentages are now higher than the rest of the state. (Exhibit M5).
- 2. The proportion of claims settled by compromise and release tends to be highest in the Los Angeles Basin. However, the average compromise and release settlement in the Los Angeles Basin is lower than in other regions (Exhibit M6.1 through M6.5).
- 3. Since Senate Bill No. 1160 (SB 1160) became effective January 1, 2017, the number of filed liens has continued to decrease. The number of liens filed in 2019 is 29% less than 2018 and almost 75% below 2016. Lien filings primarily related to medical treatment and in all regions have declined (Exhibit M9.2).
- 4. After reaching a historical high in 2018, the number of independent medical review (IMR) applications eligible for review declined 11% in 2019 to the level comparable to 2015 (Exhibit M14).
- 5. On a preliminary basis, the cumulative injury share of total indemnity counts for 2017 at second report level is only slightly above 2016 and for 2018 at preliminary first report level is lower than 2017 (Exhibit C15).
- 6. On a preliminary basis, at first report level, San Diego's ratio of permanent disability claims to indemnity claims for AY 2018 is the highest in the State and 13% higher than statewide average. However, the percentage of claims involving cumulative injury dropped in San Diego as well as in the Los Angeles Basin (Exhibit C17).
- 7. Although claims caused by motor vehicle accidents continue to represent a relatively small proportion of all indemnity claims, the frequency of indemnity claims caused by motor vehicle accidents show increases for the more recent two years (Exhibit C25).
- 8. 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).

- 9. Average indemnity case outstanding per open indemnity claim and average paid indemnity per reported indemnity claim show increases over the most recent calendar year for the most recent accident years (Exhibits S3.1 and S4.1).
- 10. After a period of increases in 2018 and early 2019, the incremental paid medical severities generally show decreases in the more recent two quarters (Exhibit S7).
- 11. The percentage permanent disability claims that are represented across regions and loss types at first and second survey levels show indications of decline (Exhibit E7).
- 12. Despite changes in SB 1160 and the new drug formulary intended to limit prospective utilization review, the increase in the average cost of medical cost containment programs (MCCP) per indemnity claim for accident year 2018 is significant, while accident year 2019 average cost of MCCP at 9 months is relatively consistent with that for accident year 2018 (Exhibit E15).

Exhibit Numbering Guide March 2020

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
M6	Percentage of Claim Count and Average Severity by Type of Settlement
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
C2	Indemnity Claim Settlement Rates by Injury Type
C3	Ratio of Incremental Closed Indemnity Claims to Prior Open Indemnity Claims
C6	California Workers' Compensation Estimated Indemnity Claim Frequency by Accident Year
C7	Accident Year Indemnity Claim Frequency Model & Indemnity Claim Frequency History and Projections
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
C25	Frequency of Indemnity Claims Caused by Motor Vehicle Accidents
	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
S7	Ratio of Quarterly Paid Medical to Indemnity Claims Inventory
S8	Estimated Ultimate Severities by Injury Type
S11	Average Permanent Disability Ratings by Type of Loss
	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

Year Indemnity Indemnity	<u>Total</u>
y	
2002 54.3% 45.7%	100%
2003 53.8% 46.2%	100%
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 51.3% 48.7%	100%
2012 50.6% 49.4%	100%
2013 50.5% 49.5%	100%
2014 51.0% 49.0%	100%
2015 51.6% 48.4%	100%
2016 51.1% 48.9%	100%
2017 50.9% 49.1%	100%
2018* 50.3% 49.7%	100%

II. Distribution of Ultimate Number of All Claims

Accident	Permanent	Temporary	Medical	
<u>Year</u>	Indemnity**	<u>Indemnity</u>	<u>Only</u>	<u>Total</u>
2002	18.9%	15.9%	65.2%	100%
2003	18.7%	16.0%	65.3%	100%
2004	15.6%	15.8%	68.6%	100%
2005	13.4%	15.6%	71.0%	100%
2006	13.6%	15.2%	71.2%	100%
2007	14.3%	15.3%	70.4%	100%
2008	15.4%	15.2%	69.4%	100%
2009	17.2%	15.9%	66.9%	100%
2010	17.7%	16.8%	65.5%	100%
2011	18.2%	17.3%	64.5%	100%
2012	18.4%	17.9%	63.7%	100%
2013	18.9%	18.5%	62.6%	100%
2014	19.1%	18.3%	62.6%	100%
2015	19.2%	18.0%	62.8%	100%
2016	19.1%	18.3%	62.6%	100%
2017	18.2%	17.6%	64.2%	100%
2018*	18.0%	17.7%	64.3%	100%

^{*} Accident year 2018 experience is partial in that it only reflects experience from policy year 2017.

Source: WCIRB unit statistical data

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

Percentage of Claims Closed by Injury Type and Region

Permanent Partial & Temporary

Permanent F	Partial								Latest Year Reported
	-	Policy Year							Claim
Report Leve	<u>Region*</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>Distribution</u>
1	Bay Area	12%	14%	15%	16%	18%	19%	21%	15%
1	Los Angeles	12%	15%	16%	17%	21%	24%	25%	52%
1	San Diego	13%	17%	20%	20%	23%	26%	27%	7%
1	Remainder of CA	13%	15%	17%	17%	20%	22%	25%	27%
	ALL REGIONS COMBINED	12%	15%	16%	17%	20%	23%	25%	100%
2	Bay Area	35%	38%	38%	41%	45%	47%		14%
2	Los Angeles	32%	37%	37%	40%	45%	51%		56%
2	San Diego	38%	43%	44%	46%	50%	53%		7%
2	Remainder of CA	36%	38%	39%	42%	47%	48%		24%
	ALL REGIONS COMBINED	34%	38%	38%	41%	46%	50%		100%
3	Bay Area	55%	58%	59%	62%	65%			15%
3	Los Angeles	51%	55%	55%	59%	65%			54%
3	San Diego	59%	62%	65%	67%	70%			7%
3	Remainder of CA	56%	58%	59%	62%	67%			25%
	ALL REGIONS COMBINED	53%	56%	58%	61%	66%			100%
									Latast Vasa
T									Latest Year
Temporary					Policy Year				Reported Claim
Papart Lava	■ L Pagion*	2011	2012				2016	2017	Distribution
Report Leve	<u>I</u> <u>Region*</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	DISTIDUTION
1	Bay Area	56%	54%	56%	59%	60%	61%	62%	18%
1	Los Angeles	51%	49%	47%	50%	51%	52%	53%	44%
1	San Diego	58%	56%	55%	56%	57%	60%	62%	6%
1	Remainder of CA	59%	57%	55%	59%	60%	61%	60%	32%
	ALL REGIONS COMBINED	55%	53%	52%	55%	55%	57%	58%	100%
2	Bay Area	74%	73%	77%	77%	79%	79%		17%
2	Los Angeles	68%	67%	68%	70%	72%	73%		46%
2	San Diego	73%	75%	75%	76%	77%	80%		7%
2	Remainder of CA	75%	73%	74%	76%	77%	78%		30%
	ALL REGIONS COMBINED	71%	71%	72%	73%	75%	76%		100%
3	Bay Area	85%	85%	87%	89%	89%			17%
3	Los Angeles	79%	80%	81%	82%	84%			45%
3	San Diego	85%	86%	87%	88%	89%			6%
3	Remainder of CA	84%	85%	86%	86%	88%			31%
	ALL REGIONS COMBINED	82%	83%	84%	85%	86%			100%

^{*}Los Angeles Includes Los Angeles County and remainder of Los Angeles Basin Source: WCIRB unit statistical data

Percentage of Claim Count and Average Severity of Compromise & Release and Stipulated Award Settlements

Geographic Region: All Regions Combined

_	Policy Year 2012								
Compromise & Release Stipulated Award Total/Average	<u>Claims</u> 12,934 <u>2,452</u> 15,386	Claim <u>Distribution</u> 84% 16%	Average Indemnity 23,200 17,044 22,219	Average <u>Medical</u> 26,737 <u>15,359</u> 24,923	Average <u>Incurred</u> 49,937 <u>32,403</u> 47,143	% Change in <u>Claims</u> 	% Change in Avg. Indemnity	% Change in Avg. Medical	% Change in Avg. Incurred
	Policy Year 2013								
Compromise & Release Stipulated Award Total/Average	<u>Claims</u> 17,026 <u>3,132</u> 20,158	Claim <u>Distribution</u> 84% 16%	Average Indemnity 24,087 17,914 23,128	Average <u>Medical</u> 25,999 <u>14,353</u> 24,189	Average Incurred 50,086 32,267 47,317	% Change in <u>Claims</u> 31.6% <u>27.7%</u> 31.0%	% Change in Avg. Indemnity 3.8% 5.1% 4.1%	% Change in Avg. Medical -2.8% -6.6% -2.9%	% Change in Avg. Incurred 0.3% -0.4% 0.4%
_	Policy Year 2014								
Compromise & Release Stipulated Award Total/Average	<u>Claims</u> 20,871 <u>3,838</u> 24,709	Claim <u>Distribution</u> 84% 16%	Average Indemnity 25,960 18,377 24,782	Average <u>Medical</u> 25,939 <u>13,461</u> 24,001	Average <u>Incurred</u> 51,899 <u>31,838</u> 48,783	% Change in <u>Claims</u> 22.6% <u>22.5%</u> 22.6%	% Change in Avg. Indemnity 7.8% 2.6% 7.2%	% Change in Avg. Medical -0.2% -6.2% -0.8%	% Change in Avg. Incurred 3.6% -1.3% 3.1%
	Policy Year 2015*								
Compromise & Release Stipulated Award Total/Average	<u>Claims</u> 23,051 4,088 27,139	Claim <u>Distribution</u> 85% 15%	Average Indemnity 25,960 19,137 24,933	Average <u>Medical</u> 24,987 <u>13,830</u> 23,306	Average Incurred 50,947 32,967 48,239	% Change in <u>Claims</u> 10.4% <u>6.5%</u> 9.8%	% Change in Avg. Indemnity 0.0% 4.1% 0.6%	% Change in Avg. Medical -3.7% 2.7% -2.9%	% Change in Avg. Incurred -1.8% 3.5% -1.1%

^{*}Policy Year 2015 is preliminary

Source: closed permanent disability claims from third report level unit statistical data

Percentage of Claim Count and Average Severity of Compromise & Release and Stipulated Award Settlements

Geographic Region: Bay Area

	Policy Year 2012									
Compromise & Release Stipulated Award Total/Average	<u>Claims</u> 1,726 <u>461</u> 2,187	Claim <u>Distribution</u> 79% 21%	Average Indemnity 27,688 18,353 25,720	Average <u>Medical</u> 29,431 14,901 26,368	Average <u>Incurred</u> 57,120 <u>33,254</u> 52,089	% Change in <u>Claims</u>	% Change in Avg. Indemnity	% Change in Avg. Medical	% Change in Avg. Incurred	
					Policy	Year 2013				
Compromise & Release Stipulated Award Total/Average	<u>Claims</u> 2,217 546 2,763	Claim <u>Distribution</u> 80% <u>20%</u>	Average Indemnity 29,892 20,521 28,040	Average <u>Medical</u> 29,785 <u>14,727</u> 26,809	Average <u>Incurred</u> 59,677 <u>35,248</u> 54,850	% Change in <u>Claims</u> 28.4% <u>18.4%</u> 26.3%	% Change in Avg. Indemnity 8.0% 11.8% 9.0%	% Change in Avg. Medical 1.2% -1.2% 1.7%	% Change in Avg. Incurred 4.5% 6.0% 5.3%	
					Policy	Year 2014				
Compromise & Release Stipulated Award Total/Average	<u>Claims</u> 2,839 <u>765</u> 3,604	Claim <u>Distribution</u> 79% 21%	Average Indemnity 32,956 18,829 29,957	Average <u>Medical</u> 31,536 <u>13,238</u> 27,652	Average Incurred 64,492 32,068 57,610	% Change in <u>Claims</u> 28.1% 40.1% 30.4%	% Change in Avg. Indemnity 10.2% -8.2% 6.8%	% Change in Avg. Medical 5.9% -10.1% 3.1%	% Change in Avg. Incurred 8.1% -9.0% 5.0%	
					Policy	∕ear 2015*				
Compromise & Release Stipulated Award Total/Average	<u>Claims</u> 3,109 815 3,924	Claim <u>Distribution</u> 79% 21%	Average Indemnity 32,752 20,935 30,297	Average Medical 30,068 14,191 26,771	Average <u>Incurred</u> 62,820 <u>35,125</u> 57,068	% Change in <u>Claims</u> 9.5% <u>6.5%</u> 8.9%	% Change in Avg. Indemnity -0.6% 11.2% 1.1%	% Change in Avg. Medical -4.7% 7.2% -3.2%	% Change in Avg. Incurred -2.6% 9.5% -0.9%	

*Policy Year 2015 is preliminary

Source: closed permanent disability claims from third report level unit statistical data

Percentage of Claim Count and Average Severity of Compromise & Release and Stipulated Award Settlements

Geographic Region: Los Angeles**

-	Policy Year 2012								
Compromise & Release Stipulated Award Total/Average	<u>Claims</u> 7,031 <u>1,169</u> 8,200	Claim <u>Distribution</u> 86% 14%	Average <u>Indemnity</u> 21,390 <u>16,832</u> 20,740	Average <u>Medical</u> 24,199 <u>15,488</u> 22,957	Average Incurred 45,589 32,320 43,697	% Change in <u>Claims</u> 	% Change in Avg. Indemnity	% Change in Avg. Medical	% Change in Avg. Incurred
					Policy Ye	ar 2013			
Compromise & Release Stipulated Award Total/Average	Claims 9,225 <u>1,446</u> 10,671	Claim <u>Distribution</u> 86% 14%	Average <u>Indemnity</u> 22,163 17,871 21,582	Average <u>Medical</u> 23,595 <u>14,939</u> 22,422	Average <u>Incurred</u> 45,758 <u>32,810</u> 44,003	% Change in <u>Claims</u> 31.2% <u>23.7%</u> 30.1%	% Change in Avg. Indemnity 3.6% 6.2% 4.1%	% Change in Avg. Medical -2.5% -3.5% -2.3%	% Change in Avg. Incurred 0.4% 1.5% 0.7%
-					Policy Ye	ar 2014			
Compromise & Release Stipulated Award Total/Average	Claims 11,389 1,740 13,129	Claim <u>Distribution</u> 87% 13%	Average Indemnity 23,797 18,171 23,051	Average <u>Medical</u> 22,984 <u>13,643</u> 21,746	Average <u>Incurred</u> 46,781 31,813 44,797	% Change in <u>Claims</u> 23.5% 20.3% 23.0%	% Change in Avg. Indemnity 7.4% 1.7% 6.8%	% Change in Avg. Medical -2.6% -8.7% -3.0%	% Change in Avg. Incurred 2.2% -3.0% 1.8%
-					Policy Yea	ar 2015*			
Compromise & Release Stipulated Award Total/Average	Claims 12,552 1,822 14,374	Claim <u>Distribution</u> 87% 13%	Average Indemnity 24,192 19,242 23,565	Average <u>Medical</u> 22,532 <u>13,864</u> 21,433	Average <u>Incurred</u> 46,724 <u>33,106</u> 44,998	% Change in <u>Claims</u> 10.2% <u>4.7%</u> 9.5%	% Change in Avg. Indemnity 1.7% 5.9% 2.2%	% Change in Avg. Medical -2.0% 1.6% -1.4%	% Change in Avg. Incurred -0.1% 4.1% 0.4%

^{*}Policy Year 2015 is preliminary

Source: closed permanent disability claims from third report level unit statistical data

^{**}Includes Los Angeles County and remainder of Los Angeles Basin

Percentage of Claim Count and Average Severity of Compromise & Release and Stipulated Award Settlements

Geographic Region: San Diego**

-	Policy Year 2012								
Compromise & Release Stipulated Award Total/Average	<u>Claims</u> 875 <u>205</u> 1,080	Claim <u>Distribution</u> 81% <u>19%</u>	Average Indemnity 21,745 14,857 20,437	Average <u>Medical</u> 27,195 <u>14,390</u> 24,764	Average <u>Incurred</u> 48,940 <u>29,247</u> 45,202	% Change in <u>Claims</u> 	% Change in Avg. Indemnity	% Change in Avg. Medical	% Change in Avg. Incurred
-					Policy Ye	ar 2013			
Compromise & Release Stipulated Award Total/Average	Claims 1,265 <u>285</u> 1,550	Claim <u>Distribution</u> 82% 18%	Average Indemnity 22,368 16,311 21,255	Average <u>Medical</u> 26,504 11,793 23,799	Average <u>Incurred</u> 48,872 <u>28,105</u> 45,054	% Change in <u>Claims</u> 44.6% 39.0% 43.5%	% Change in Avg. Indemnity 2.9% 9.8% 4.0%	% Change in Avg. Medical -2.5% -18.0% -3.9%	% Change in Avg. Incurred -0.1% -3.9% -0.3%
-					Policy Ye	ar 2014			
Compromise & Release Stipulated Award Total/Average	Claims 1,520 <u>307</u> 1,827	Claim <u>Distribution</u> 83% 17%	Average <u>Indemnity</u> 23,329 <u>17,813</u> 22,402	Average <u>Medical</u> 27,189 <u>12,259</u> 24,680	Average <u>Incurred</u> 50,518 <u>30,072</u> 47,083	% Change in <u>Claims</u> 20.2% 7.7% 17.9%	% Change in Avg. Indemnity 4.3% 9.2% 5.4%	% Change in Avg. Medical 2.6% 3.9% 3.7%	% Change in Avg. Incurred 3.4% 7.0% 4.5%
-					Policy Yea	ar 2015*			
Compromise & Release Stipulated Award Total/Average	Claims 1,642 <u>281</u> 1,923	Claim <u>Distribution</u> 85% 15%	Average Indemnity 24,181 17,071 23,142	Average <u>Medical</u> 26,149 13,006 24,228	Average <u>Incurred</u> 50,330 <u>30,077</u> 47,371	% Change in <u>Claims</u> 8.0% <u>-8.5%</u> 5.3%	% Change in Avg. Indemnity 3.7% -4.2% 3.3%	% Change in Avg. Medical -3.8% 6.1% -1.8%	% Change in Avg. Incurred -0.4% 0.0% 0.6%

*Policy Year 2015 is preliminary

Source: closed permanent disability claims from third report level unit statistical data

Percentage of Claim Count and Average Severity of Compromise & Release and Stipulated Award Settlements

Geographic Region: Other

	Policy Year 2012								
Compromise & Release Stipulated Award Total/Average	<u>Claims</u> 3,302 <u>617</u> 3,919	Claim <u>Distribution</u> 84% <u>16%</u>	Average Indemnity 25,095 17,196 23,851	Average <u>Medical</u> 30,610 <u>15,779</u> 28,275	Average <u>Incurred</u> 55,705 <u>32,975</u> 52,126	% Change in <u>Claims</u> 	% Change in Avg. Indemnity	% Change in Avg. Medical	% Change in Avg. Incurred
_					Policy Ye	ear 2013			
Compromise & Release Stipulated Award Total/Average	<u>Claims</u> 4,319 <u>855</u> 5,174	Claim <u>Distribution</u> 83% <u>17%</u>	Average <u>Indemnity</u> 25,720 <u>16,855</u> 24,255	Average <u>Medical</u> 29,043 <u>13,977</u> 26,554	Average <u>Incurred</u> 54,763 <u>30,831</u> 50,808	% Change in <u>Claims</u> 30.8% <u>38.6%</u> 32.0%	% Change in Avg. Indemnity 2.5% -2.0% 1.7%	% Change in Avg. Medical -5.1% -11.4% -6.1%	% Change in Avg. Incurred -1.7% -6.5% -2.5%
					Policy Ye	ear 2014			
Compromise & Release Stipulated Award Total/Average	<u>Claims</u> 5,123 1,026 6,149	Claim <u>Distribution</u> 83% <u>17%</u>	Average Indemnity 27,672 18,560 26,152	Average <u>Medical</u> 29,034 <u>13,678</u> 26,472	Average <u>Incurred</u> 56,706 <u>32,238</u> 52,623	% Change in <u>Claims</u> 18.6% <u>20.0%</u> 18.8%	% Change in Avg. Indemnity 7.6% 10.1% 7.8%	% Change in Avg. Medical 0.0% -2.1% -0.3%	% Change in Avg. Incurred 3.5% 4.6% 3.6%
					Policy Ye	ar 2015*			
Compromise & Release Stipulated Award Total/Average	<u>Claims</u> 5,748 <u>1,170</u> 6,918	Claim <u>Distribution</u> 83% <u>17%</u>	Average Indemnity 26,656 18,218 25,229	Average <u>Medical</u> 27,268 <u>13,725</u> 24,978	Average <u>Incurred</u> 53,924 <u>31,943</u> 50,207	% Change in <u>Claims</u> 12.2% <u>14.0%</u> 12.5%	% Change in Avg. Indemnity -3.7% -1.8% -3.5%	% Change in Avg. Medical -6.1% 0.3% -5.6%	% Change in Avg. Incurred -4.9% -0.9% -4.6%

*Policy Year 2015 is preliminary

Source: closed permanent disability claims from third report level unit statistical data

Quarterly Expedited Hearings by Region

					Change from
	Northern	Central	Southern	Expedited	Same Quarter
Time Period	<u>California</u>	<u>California</u>	<u>California</u>	<u>Hearing</u>	in Prior Year
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%

Source: DWC

Quarterly Expedited Hearings - DOR Reasons by Region

Northern California

	Medical		
Time Period	<u>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%

Central California

	Medical		
Time Period	Treatment	<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%

Southern California

	Medical		
Time Period	Treatment	<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%

Source: DWC

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

	Number of	
	Lien Decisions	Year-to-Year
Calendar Year	(in 000s)	<u>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%

Source: DWC via Commission on Health and Safety & Workers' Compensation 2019 Annual Report (draft)

^{*}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.

	Counts by Region**							
		Central	l Al	Damaindan	Remaining		Can Diama	
Time Period	Bay Area	Coast/ <u>Valley</u>	Los Angeles <u>County</u>	Remainder of LA Basin	CA Zip <u>Codes</u>	Sacramento	San Diego <u>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

		C	Counts by Type			
Time Davied	latawawataw	Madiaal	Medical-	Copy	O4b ~ ***	Tatal
Time Period	Interpreter	<u>Medical</u>	<u>Legal</u>	<u>Service</u>	Other***	<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	653 537	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 3rd Qtr 2014	275 140	38,534 39,810	320 179	10 7	8,105 7,821	47,244
4th Qtr 2014	156	45,440	160	4	7,021 7,788	47,957 53,548
1st Qtr 2015	143	60,155	216	18	11,492	72,024
2nd Qtr 2015 3rd Qtr 2015	152 134	74,037 84,290	268 191	7 7	12,257 13,493	86,721 98,115
4th Qtr 2015	101	91,820	236	, 15	14,837	107,009
1st Qtr 2016	60	93,393	233	5	14,329	·
2nd Qtr 2016	90	93,393 89,781	233 467	6	15,628	108,020 105,972
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

^{*} 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

			Co	ounts by Region*				
		Central			Remaining			
		Coast/	Los Angeles	Remainder	CA Zip		San Diego	
<u>Month</u>	Bay Area	<u>Valley</u>	<u>County</u>	of LA Basin	<u>Codes</u>	<u>Sacramento</u>	<u>County</u>	<u>Total</u>
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

		C	Counts by Type			
			Medical-	Сору		
<u>Month</u>	<u>Interpreter</u>	<u>Medical</u>	<u>Legal</u>	<u>Service</u>	Other***	<u>Total</u>
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

^{*} 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

		Change from		Change from
		Same Quarter in		Same Quarter in
Year & Quarter	IMRs Filed	Prior Year	Eligible IMRs	Prior Year
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	57,633	-13.5%	43,189	-10.3%
2019 3Q	55,758	-9.6%	41,023	-10.4%
2019 4Q	52,654	-11.6%	40,008	-11.0%

Yearly IMRs Filed

	Original IMR					Eligible IMR
	Applications	<u>Duplicates</u>	<u>Ineligible</u>	Total Rejected	Eligible IMRs	Yearly Change
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	222,128	44,714	10,860	55,574	166,554	-10.6%

Source: DWC Collected from IMR Vendor

DWC Via Commission on Health and Safety & Workers' Compensation 2018 Annual Report

Reported Indemnity Claim Count Development - Statewide

Accident										
<u>Year</u>	<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>	105-117	
2001									1.000	
2002								1.000	1.000	
2003							0.999	0.999	0.999	
2004						1.000	0.999	0.999	0.999	
2005					1.002	1.001	1.000	1.000	1.000	
2006				1.002	1.001	1.000	1.001	1.000	1.001	
2007			1.008	1.004	1.002	1.001	1.000	1.001	1.001	
2008		1.029	1.012	1.006	1.003	1.002	1.002	1.001	1.001	
2009	1.627	1.035	1.014	1.007	1.004	1.003	1.001	1.001	1.000	
2010	1.687	1.040	1.015	1.007	1.005	1.002	1.002	1.000	1.000	
2011	1.713	1.046	1.015	1.010	1.003	1.001	1.001	1.000		
2012	1.735	1.050	1.019	1.006	1.003	1.002	1.000			
2013	1.752	1.050	1.010	1.006	1.002	1.001				
2014	1.750	1.040	1.011	1.005	1.002					
2015	1.728	1.039	1.007	1.004						
2016	1.731	1.042	1.009							
2017	1.707	1.033								
2018	1.703									
					Latest Y	'ear				
I.	Age-to-Age									
	1.703	1.033	1.009	1.004	1.002	1.001	1.000	1.000	1.000	
II.	Age-to-Ultima									
	1.793	1.053	1.020	1.010	1.007	1.005	1.003	1.003	1.003	1.002
III.	Estimated Per									
	55.8%	95.0%	98.1%	99.0%	99.3%	99.5%	99.7%	99.7%	99.7%	99.8%
		F	Reported To	tal Claim C	ount Devel	opment – St	atewide			
A										
Accident	0.04	04.00	22.45	AE	E7 00	00.04	04.00	00.405	105 117	
<u>Year</u>	<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>	
2001								4.004	1.001	
2002							4.004	1.001	1.001	
2003						4.004	1.001	1.001	1.000	
2004					4.004	1.001	1.001	1.000	1.000	
2005				4 000	1.001	1.002	1.001	1.001	1.000	
2006			4.000	1.002	1.002	1.001	1.001	1.001	1.001	
2007		4 0 4 =	1.006	1.004	1.002	1.001	1.001	1.001	1.001	
2008	4 500	1.017	1.009	1.004	1.002	1.002	1.001	1.001	1.000	

2017	1.635	1.016								
2018	1.615									
					Latest Y	'ear				
	I. Age-to-Age									
	1.615	1.016	1.006	1.003	1.002	1.001	1.001	1.001	1.000	
	II. Age-to-Ultimate	<u>e</u>								
	1.669	1.034	1.017	1.011	1.008	1.006	1.005	1.004	1.003	1.003
	III. Estimated Perd	cent of Ultin	nate Total Cl	aims Repor	<u>ted</u>					
	59.9%	96.7%	98.3%	98.9%	99.2%	99.4%	99.5%	99.6%	99.7%	99.7%

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Source: WCIRB quarterly calls for experience

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2009

2010

2011

2012

2013

2014

2015

2016

Indemnity Claim Settlement Ratios by Injury Type

Permanent AY/RL	Partial 1	2	3	4	5	Temporary AY/RL	l 1	2	3	4	5
1997	8.3%	33.0%	55.4%	69.4%	77.2%	1997	36.1%	67.5%	79.2%	92.4%	93.8%
1998	8.8%	30.6%	52.9%	67.1%	74.0%	1998	52.5%	75.9%	88.3%	90.9%	93.8%
1999	8.5%	28.7%	49.7%	61.8%	68.6%	1999	56.8%	79.6%	86.3%	90.3%	93.39
2000	7.9%	26.4%	44.6%	56.7%	65.7%	2000	57.3%	75.6%	83.6%	88.7%	91.29
2001	6.9%	21.8%	40.6%	57.0%	68.8%	2001	51.6%	70.5%	81.7%	86.2%	88.99
2002	5.1%	19.0%	41.1%	59.6%	71.0%	2002	54.0%	74.7%	83.1%	88.0%	91.29
2003	4.0%	20.6%	43.9%	61.0%	72.1%	2003	60.6%	77.4%	85.7%	90.8%	93.69
2004	5.2%	22.4%	43.8%	59.9%	71.1%	2004	63.0%	80.1%	88.1%	93.0%	94.89
2005	5.9%	22.5%	43.1%	59.3%	69.6%	2005	62.9%	78.8%	86.5%	89.6%	95.09
2006	6.4%	23.5%	44.3%	59.4%	68.9%	2006	64.7%	81.7%	88.1%	93.2%	95.19
2007	6.0%	23.9%	43.6%	58.0%	68.1%	2007	66.2%	81.9%	90.1%	93.3%	94.7
2008	6.1%	24.0%	43.2%	57.9%	69.8%	2008	66.9%	82.7%	88.8%	91.8%	94.1
2009	6.1%	23.5%	42.4%	58.4%	70.6%	2009	66.9%	80.7%	86.8%	90.9%	93.1
2010	7.2%	25.2%	45.7%	62.3%	73.6%	2010	64.9%	78.2%	85.5%	89.8%	92.5
2011	7.9%	27.4%	48.6%	64.4%	75.6%	2011	63.2%	77.4%	84.9%	89.5%	91.8
2012	9.2%	30.5%	51.4%	66.3%	77.6%	2012	63.1%	78.0%	86.1%	90.7%	93.0
2013	10.2%	31.9%	53.2%	69.5%	80.1%	2013	62.9%	79.5%	87.0%	91.0%	93.5
2014	10.8%	33.5%	55.5%	71.8%	82.6%	2014	65.5%	80.6%	87.6%	91.8%	94.1
2015	12.6%	37.9%	59.9%	74.9%	0_1070	2015	65.2%	80.8%	88.7%	93.3%	
2016				74.570		2016				30.070	
	14.0%	40.8%	63.6%				67.2%	83.0%	91.6%		
2017	15.4%	44.4%				2017	71.3%	86.0%			
2018	14.7%					2018	70.7%				
Cumulative	Injury*					Non-Cumu	lative Injury				
AY/RL	1	2	3	4	5	AY/RL	1	2	3	4	5
1997	8.8%	31.7%	52.1%	66.7%	74.7%	1997	18.5%	46.0%	64.8%	78.4%	83.89
1998	11.4%	30.8%	50.4%	63.3%	71.5%	1998	26.9%	49.7%	68.3%	77.7%	82.89
1999	12.2%	29.5%	46.7%	59.4%	67.8%	1999	30.5%	52.3%	67.1%	75.4%	80.29
2000	11.2%	27.6%	43.8%	56.0%	65.8%	2000	31.9%	50.6%	64.0%	72.6%	78.3
2001	10.7%	24.6%	42.1%	56.6%	67.4%	2001	27.9%	44.8%	60.2%	71.2%	78.7
2002	11.4%	26.6%	44.6%	60.2%	70.7%	2002	27.9%	44.8%	61.1%	73.4%	81.0
2003	14.7%	30.2%	48.8%	62.8%	72.1%	2003	31.1%	48.0%	64.6%	76.1%	83.2
2004	17.4%	33.4%	50.4%	63.9%	72.7%	2004	34.8%	52.2%	67.0%	77.4%	83.8
2005	17.8%	33.7%	49.3%	61.2%	71.0%	2005	38.2%	54.5%	68.1%	77.1%	84.5
2006	15.8%	32.6%	47.7%	59.9%	68.2%	2006	39.1%	56.2%	69.3%	79.0%	84.29
2007	16.1%	31.8%	46.9%	58.2%	67.3%	2007	39.4%	56.3%	69.9%	78.2%	83.59
2008	14.0%	29.3%	44.0%	56.4%	66.9%	2008	39.0%	56.0%	68.5%	77.0%	83.79
2009	12.2%	25.9%	41.0%	55.3%	67.5%	2009	39.1%	55.0%	67.3%	76.9%	83.69
2010	13.2%	27.2%	44.3%	60.3%	71.5%	2010	38.9%	54.8%	68.3%	78.1%	84.59
2011	11.6%	28.3%	46.9%	61.3%	72.0%	2011	38.9%	55.8%	69.5%	79.1%	85.3
2012	12.1%	31.1%	48.2%	62.3%	74.3%	2012	40.0%	57.9%	72.0%	81.0%	87.0
2013	14.9%	34.0%	52.3%	67.1%	77.5%	2013	40.5%	59.6%	73.3%	82.6%	88.4
2014	15.9%	36.6%	54.0%	69.0%	80.7%	2014	42.3%	60.9%	74.8%	84.3%	89.8
2015	18.0%	40.6%	59.3%	71.6%		2015	42.7%	62.7%	77.0%	86.3%	
2016	20.9%	47.7%	63.5%			2016	44.6%	64.7%	80.2%		
2017	18.5%	51.3%				2017	48.6%	67.8%			
2018	18.2%	011070				2018	47.6%	011070			
•	-						•				
All Indemni	ı	0	0	4	_						
AY/RL 1997	1 17.1%	2 43.9%	63.0%	4 76.7%	5 82.5%						
1998	24.9%	47.2%	65.9%	75.8%	81.3%						
1999	28.3%	49.6%	64.7%	73.4%	78.7%						
2000	29.4%	47.8%	61.6%	70.6%	76.8%						
2001	25.4%	41.9%	57.6%	69.1%	77.1%						
2002	25.1%	41.7%	58.2%	71.2%	79.3%						
2003	28.2%	44.9%	61.8%	73.7%	81.3%						
2004	32.1%	49.3%	64.5%	75.3%	82.1%						
2005	35.6%	51.9%	65.7%	75.1%	82.8%						
2006	36.6%	53.7%	67.0%	76.9%	82.5%						
2007	37.0%	53.7%	67.5%	76.2%	81.8%						
2008	36.4%	53.2%	65.9%	74.8%	81.9%						
2009	35.9%	51.6%	64.2%	74.4%	81.7%						
2010	35.8%	51.5%	65.4%	75.9%	82.9%						
2011	35.6%	52.4%	66.8%	77.0%	83.7%						
2012	36.4%	54.4%	68.9%	78.6%	85.4%						
2013	36.8%	55.9%	70.3%	80.3%	86.9%						
2014	38.3%	57.1%	71.6%	81.9%	88.4%						
	38.9%	59.3%	74.3%	84.1%							
2015		00.007	77.00/								
2015 2016	41.0%	62.2%	77.8%								
2016			77.8%								
	41.0% 43.2% <i>4</i> 3.1%	62.2% 65.0%	77.8%								

Notes:

Source: WCIRB Unit Statistical data

^{*}Cumulative Injury includes both cumulative injury and occupational disease.

Latest diagonal (italics) is based on a partial accident year.

Settlement rates are based on claim counts developed to 5th report.

Ratio of Incremental Closed Indemnity Claims to Prior Open Indemnity Claims

Accident	Development										
Year	<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>	105-117		
2001									16.6%		
2002								18.8%	16.4%		
2003							19.8%	18.3%	17.6%		
2004						20.5%	20.5%	18.7%	22.3%		
2005					22.7%	22.0%	19.6%	23.0%	20.7%		
2006				26.1%	23.1%	20.7%	23.6%	21.8%	19.3%		
2007			28.2%	26.3%	22.4%	25.4%	24.4%	21.7%	23.4%		
2008		25.4%	27.4%	25.8%	26.6%	26.6%	24.5%	25.0%	23.6%		
2009	31.5%	24.9%	27.0%	27.7%	27.2%	26.7%	27.3%	25.0%	24.5%		
2010	31.9%	26.0%	29.0%	29.8%	28.4%	28.9%	28.8%	26.0%	25.0%		
2011	32.0%	27.3%	30.7%	31.2%	29.8%	29.9%	30.3%	27.0%			
2012	32.3%	29.3%	31.9%	32.0%	32.4%	31.7%	29.4%				
2013	33.2%	30.8%	34.0%	34.9%	33.8%	32.4%					
2014	34.2%	32.2%	35.5%	37.1%	33.4%						
2015	35.5%	35.3%	38.1%	37.4%							
2016	37.7%	37.1%	39.7%								
2017	40.2%	38.4%									
2018	40.4%										

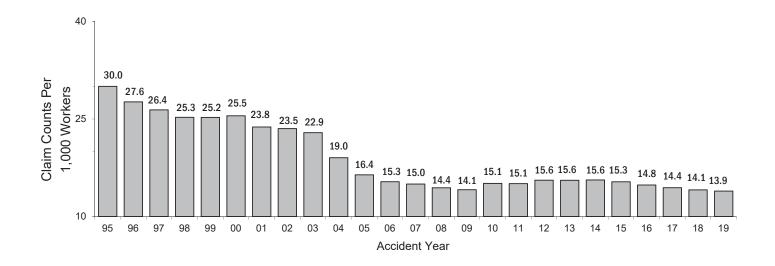
Ratio of Incremental Closed Indemnity Claims to Prior Open Indemnity Claims

	45-48	7.5%	7.7%	9.3%	9.1%	%9.6	10.4%	11.2%	11.7%				
	42-45	7.7%	7.1%	8.8%	9.5%	9.5%	6.6	10.3%	11.6%	11.1%			
	39-42	7.4%	7.9%	9.1%	8.5%	9.3%	10.2%	11.2%	11.7%	12.2%			
	<u>36-39</u>	7.3%	7.2%	7.8%	8.4%	8.9%	8.6	%9.6	11.1%	12.0%			
	33-36	8.1%	7.8%	7.9%	9.5%	9.3%	9.7%	10.3%	11.1%	12.5%			
	30-33	7.4%	%9.7	7.3%	8.3%	9.2%	9.3%	9.8%	10.6%	11.2%	11.6%		
	27-30	7.3%	%6.9	7.6%	8.4%	8.6%	9.2%	9.4%	11.1%	11.8%	11.9%		
Development	24-27	%2'9	6.5%	8.9	7.0%	%9'.	8.5%	9.1%	10.0%	10.3%	10.9%		
De	21-24	%9.9	%9:9	7.1%	7.3%	8.2%	8.6%	8.8%	9.5%	10.7%	11.4%		
	18-21	7.0%	%8.9	8.9	%0.7	7.5%	8.4%	9.1%	9.2%	%6.6	10.7%	10.8%	
	15-18	9.5%	8.5%	8.5%	8.7%	9.1%	9.4%	9.7%	10.6%	11.4%	12.0%	12.0%	
	12-15	11.2%	10.6%	11.1%	10.7%	10.5%	10.6%	11.0%	11.7%	12.5%	13.2%	13.4%	
	<u>9-12</u>	11.2%	10.3%	10.4%	10.6%	10.4%	10.4%	10.2%	10.2%	11.0%	12.4%	12.5%	
	<u>6-9</u>	8.3%	7.9%	7.5%	7.2%	7.4%	7.1%	7.3%	7.7%	7.6%	8.3%	8.5%	8.5%
	<u>3-6</u>	4.7%	4.0%	4.1%	4.3%	4.3%	4.2%	4.0%	4.0%	4.3%	4.8%	4.9%	4.9%
Accident	Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019

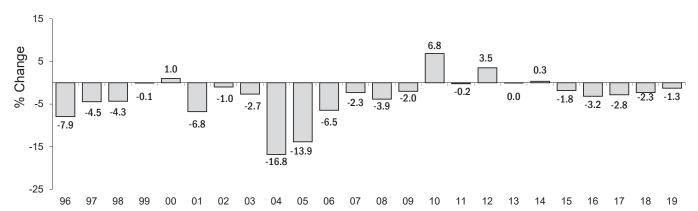
Note: All figures in each accident year contain information from the same combination of insurers, all of whom submitted complete data for all evaluations for that accident year. Therefore, each accident year may contain a different mix of insurers (ranging from 82% to 100% of the total California workers' compensation insured market measured using 2018 earned premium levels).

Source: WCIRB quarterly calls for experience

California Workers' Compensation Estimated Indemnity Claim Frequency by Accident Year As of September 30, 2019



Year-to-Year Change



Note:

The 2019 estimate is based on comparison of claim counts based on WCIRB accident year experience as of September 30, 2019 relative to the estimated change in statewide employment. Prior years are based on unit statistical data.

Annual %

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

Annual Log Differences

	Annual %				innual Log Differenc	es			
	Changes Intra-		Class Indemnity Fre		AY+1	0 1 "	Economic	CalOSHA	
AY	Class Ind Freq Total	Total	1 Exposure at PY 20 Cumulative	Non-cum.	 Indemnity Benefit Level 	Cumulative Injury Index	Variables (1st Prin. Comp.)	Dummy Variable	
1979	0.5%	0.005	-0.053	0.007	0.000	-0.060	0.134	0.000	
1980	-6.5%	-0.068	-0.033	-0.066	0.033	-0.066	-0.080	0.000	
1981	-3.5%	-0.036	-0.132 -0.028	-0.036	0.000	0.008	-0.079	0.000	
1982	-1.6%	-0.036						0.000	
			0.153	-0.022	0.352	0.175	-0.294		
1983	6.2%	0.060	0.214	0.054	0.081	0.160	0.029	0.000	
1984	9.5%	0.091	0.235	0.084	0.000	0.151	0.222	0.000	
1985	2.0%	0.020	0.138	0.014	0.000	0.124	0.081	0.000	
1986	-2.4%	-0.024	0.039	-0.028	0.000	0.067	0.078	0.000	
1987	1.5%	0.015	0.053	0.013	0.000	0.041	0.151	0.000	
1988	0.7%	0.007	0.104	0.000	0.000	0.104	0.088	0.000	
1989	2.5%	0.024	0.212	0.009	0.046	0.203	0.045	0.000	
1990	9.0%	0.087	0.337	0.061	0.071	0.276	-0.121	0.000	
1991	0.3%	0.003	0.166	-0.018	0.023	0.184	-0.293	0.000	
1992	-11.1%	-0.118	-0.272	-0.098	0.013	-0.174	-0.186	0.068	
1993	-14.9%	-0.162	-0.240	-0.153	-0.057	-0.088	-0.022	0.464	
1994	-12.8%	-0.136	-0.462	-0.107	0.061	-0.355	0.106	0.173	
1995	-4.6%	-0.048	-0.016	-0.050	0.053	0.034	0.092	0.295	
1996	-6.8%	-0.070	-0.136	-0.065	0.096	-0.071	0.075	0.000	
1997	-3.3%	-0.033	-0.023	-0.034	0.066	0.011	0.138	0.000	
1998	-3.8%	-0.038	-0.040	-0.038	0.058	-0.002	0.079	0.000	
1999	1.5%	0.014	0.100	0.008	0.040	0.092	0.128	0.000	
2000	4.0%	0.039	0.071	0.037	-0.003	0.034	0.066	0.000	
2001	-6.9%	-0.072	-0.018	-0.076	-0.007	0.059	-0.101	0.000	
2002	-2.3%	-0.023	0.007	-0.026	0.060	0.033	-0.202	0.000	
2003	-2.9%	-0.029	-0.005	-0.031	-0.065	0.026	-0.023	0.000	
2004	-16.6%	-0.182	-0.209	-0.180	-0.398	-0.030	0.093	0.000	
2005	-13.6%	-0.146	-0.298	-0.133	0.051	-0.165	0.141	0.000	
2006	-5.7%	-0.059	-0.050	-0.059	0.016	0.009	0.095	0.000	
2007	-1.6%	-0.017	0.021	-0.019	0.049	0.040	-0.084	0.000	
2008	-2.7%	-0.027	0.038	-0.033	0.006	0.071	-0.308	0.000	
2009	-0.2%	-0.002	0.168	-0.018	0.066	0.186	-0.427	0.000	
2010	8.9%	0.085	0.139	0.079	0.012	0.060	-0.092	0.000	
2011	1.2%	0.012	0.032	0.010	0.003	0.022	0.043	0.000	
2012	4.8%	0.046	0.127	0.037	0.025	0.091	0.123	0.000	
2013	0.3%	0.003	0.126	-0.013	0.071	0.139	0.151	0.000	
2014	0.1%	0.001	0.050	-0.006	0.003	0.056	0.178	0.000	
2015	-1.2%	-0.012	0.026	-0.018	0.002	0.043	0.194	0.000	
2016	-2.4%	-0.025	0.062	-0.039	0.004	0.101	0.124	0.000	
2017	-2.3%	-0.023	-0.043	-0.020	0.004	-0.023	0.137	0.000	
2018*	-2.0%	-0.021	-0.092	-0.007	0.003	-0.085	0.132	0.000	
2019	-1.8%	-0.019	-0.019	-0.019	0.004	0.000	0.006	0.000	
2020	-2.1%	-0.021	-0.021	-0.021	0.004	0.000	-0.019	0.000	
2021	-2.7%	-0.027	-0.027	-0.027	0.004	0.000	-0.074	0.000	
2022	-2.0%	-0.020	-0.020	-0.020	0.004	0.000	-0.011	0.000	
	(Constant	ess-Adjusted Noncu	mulative Indemni -0.020 0.039	ty Claim Frequency				
		Std Err of Y Est		0.039					

 Constant
 -0.020

 Std Err of Y Est
 0.039

 R Squared
 0.574

 No. of Observations
 40

 Degrees of Freedom
 35

X Coefficient(s) 0.177 0.277 0.103 -0.142 Std Err of Coef. 0.071 0.060 0.043 0.075

Notes: Indemnity Benefit Level variable is leading. The benefit level change for AY 2004 is related to the AY 2003 change in non-cumulative frequency.

The Indemnity Benefit Level change for Ogilvie & Almaraz / Guzman in 2009-2010 is not leading.

The Indemnity Benefit Level variable excludes indemnity benefit utilization, and changes in the death and permanent total benefits.

The Indemnity Benefit Level variable has been revised due to on-leveling reassessments. See Actuarial Committee item AC09-03-03.

For 1993 on, cumulative claims include both cumulative trauma and occupational disease claims. See March 19, 2014 Actuarial Committee Agenda Economic variables are historical through 2018; December 2019 UCLA Anderson Forecasts for 2019 on.

Regression is over AY 1979 through AY 2018. AY 2019 through AY 2022 are projections.

The constant term, -0.020, consists of measured offsets that recognize annual changes in real benefit levels relative to nominal benefit levels and long-term economic growth. Without these offsets, the indemnity benefit level and economic variables would project frequency to increase without bound.

*AY 2018 is preliminary and change is based on a comparison of 2018 accidents on 2017 policies to 2017 accidents on 2016 policies.

Indemnity Claim Frequency History and Projections

	Intra-Class Indemnity	Inter-Class Indemnity Claim	Overall Indemnity			
AY	Claim Frequency(a)	Frequency Index(b)	Claim Frequency	Annu Intra-Class	ual Percent Char Inter-Class	oges Overall
1979	0.515	0.921	0.620			
1980	0.481 0.464	0.914 0.900	0.576	-6.54%	-0.75%	-7.24% 5.04%
1981 1982	0.464	0.882	0.547 0.527	-3.54% -1.59%	-1.56% -2.00%	-5.04% -3.56%
1983	0.485	0.873	0.554	6.20%	-0.98%	5.17%
1984	0.531	0.871	0.606	9.53%	-0.18%	9.32%
1985	0.542	0.867	0.615	2.05%	-0.51%	1.52%
1986	0.529	0.859	0.595	-2.39%	-0.92%	-3.28%
1987	0.538	0.854	0.601	1.53%	-0.56%	0.97%
1988	0.541	0.854	0.605	0.69%	-0.06%	0.64%
1989	0.555	0.853	0.619	2.47%	-0.08%	2.39%
1990 1991	0.605 0.607	0.845 0.832	0.669 0.660	9.04% 0.28%	-0.89% -1.58%	8.07% -1.30%
1992	0.539	0.820	0.579	-11.09%	-1.45%	-12.37%
1993	0.459	0.810	0.486	-14.91%	-1.25%	-15.98%
1994	0.400	0.809	0.424	-12.76%	-0.06%	-12.81%
1995	0.382	0.811	0.405	-4.64%	0.16%	-4.49%
1996	0.356	0.800	0.373	-6.78%	-1.25%	-7.94%
1997	0.344	0.791	0.356	-3.27%	-1.23%	-4.46%
1998	0.331	0.786	0.341	-3.76%	-0.60%	-4.34%
1999	0.336	0.774	0.340	1.45%	-1.48%	-0.05% 0.99%
2000 2001	0.350 0.325	0.752 0.753	0.344 0.320	4.02% -6.91%	-2.91% 0.13%	-6.79%
2001	0.318	0.763	0.320	-2.31%	1.34%	-1.00%
2003	0.309	0.764	0.309	-2.86%	0.20%	-2.67%
2004	0.257	0.763	0.257	-16.65%	-0.21%	-16.82%
2005	0.222	0.760	0.221	-13.59%	-0.31%	-13.85%
2006	0.210	0.754	0.207	-5.69%	-0.81%	-6.46%
2007	0.206	0.749	0.202	-1.64%	-0.68%	-2.31%
2008	0.201	0.740	0.194	-2.71%	-1.18%	-3.86%
2009 2010	0.200 0.218	0.727 0.713	0.190 0.203	-0.20% 8.87%	-1.82% -1.87%	-2.02% 6.83%
2010	0.210	0.703	0.203	1.20%	-1.42%	-0.24%
2012	0.231	0.694	0.210	4.76%	-1.20%	3.50%
2013	0.232	0.692	0.210	0.32%	-0.36%	-0.04%
2014	0.232	0.693	0.211	0.12%	0.20%	0.33%
2015	0.229	0.689	0.207	-1.18%	-0.66%	-1.84%
2016	0.224	0.683	0.200	-2.43%	-0.78%	-3.19%
2017(c)	0.219	0.680	0.195	-2.32%	-0.51%	-2.81%
2017(d) 2018(e)	0.217 0.213	0.680 0.678	0.193 0.189	-2.05%	-0.26%	-2.30%
2010(6)	0.205	0.679	0.182	-3.46%	0.12%	-3.35%
2020	0.198	0.675	0.175	-3.71%	-0.54%	-4.23%
2021	0.189	0.670	0.166	-4.25%	-0.85%	-5.06%
2022	0.182	0.668	0.159	-3.63%	-0.18%	-3.81%
PY						
2008	0.201	0.734	0.193			
2009	0.208	0.720	0.196	3.89%	-1.84%	1.93%
2010	0.219	0.708	0.203	5.25%	-1.67%	3.53%
2011	0.225	0.699	0.206	2.82%	-1.32%	1.45%
2012	0.232	0.693	0.210	2.70%	-0.82%	1.87%
2013	0.232	0.693	0.210	0.23%	-0.11%	0.12%
2014 2015	0.231 0.227	0.691 0.686	0.209 0.204	-0.47% -1.74%	-0.19% -0.71%	-0.65% -2.44%
2015	0.221	0.682	0.204	-1.74% -2.72%	-0.71% -0.66%	-2.44% -3.36%
2017	0.215	0.679	0.191	-2.62%	-0.40%	-3.01%
2018	0.209	0.679	0.186	-2.68%	-0.09%	-2.77%
2019	0.202	0.677	0.179	-3.57%	-0.18%	-3.74%
2020	0.194	0.673	0.171	-3.95%	-0.68%	-4.59%
2021	0.186	0.669	0.163	-3.98%	-0.55%	-4.51%

(f) Forecasts below thick solid line.

Source: WCIRB Indemnity Frequency Model

⁽a) All frequencies are per \$M exposure at PY 2018 Level.
(b) Index is to AY 1961.
(c) 2017 accidents on 2017 and 2016 policies.
(d) 2017 accidents on 2016 policies only.
(e) AY 2018 percent changes are based on a comparison of 2018 accidents on 2017 policies to 2017 accidents on 2016 policies.
(f) Exposure below thick could like.

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

	-	Incremental Number	-	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			
Calendar	from Same Quarter	from Same Quarter	from Same Quarter	from Same Quarter			
Quarter	at Prior	at Prior	at Prior	at Prior			
<u>Evaluation</u>	<u>Calendar Year</u>	Calendar Year	Calendar Year	<u>Calendar Year</u>			
3/31/2007	-2.4%						
6/30/2007	-10.2%		-13.5%				
9/30/2007	0.3%		1.2%				
12/31/2007	-13.4%	-6.3%	-19.4%				
3/31/2008	-5.8%	-7.2%	-14.8%	-11.6%			
6/30/2008	-3.9%	-5.7%	-2.8%	-9.0%			
9/30/2008	-19.2%	-10.7%	-17.6%	-13.9%			
12/31/2008	-16.7%	-11.4%	-3.8%	-10.3%			
3/31/2009	-27.1%	-16.8%	-27.5%	-13.2%			
6/30/2009	-14.2%	-19.4%	-27.0%	-19.4%			
9/30/2009	-8.2%	-16.8%	-16.7%	-19.2%			
12/31/2009	2.5%	-12.8%	-15.8%	-22.0%			
3/31/2010	7.4%	-4.1%	-5.2%	-17.1%			
6/30/2010	3.9%	1.0%	-1.9%	-10.6%			
9/30/2010	6.7%	5.1%	-6.3%	-7.6%			
12/31/2010	7.2%	6.3%	3.3%	-2.6%			
3/31/2011	2.7%	5.1%	-4.1%	-2.3%			
6/30/2011	-1.2%	3.8%	-8.9%	-4.1%			
9/30/2011	3.4%	2.9%	-1.3%	-2.7%			
12/31/2011	4.5%	2.3%	-7.8%	-5.5%			
3/31/2012	-0.4%	1.5%	-1.8%	-4.6%			
6/30/2012	-0.4 <i>%</i> 8.1%	3.9%	0.1%	-4.6% -2.6%			
			3.2%				
9/30/2012	5.5%	4.5%		-1.5%			
12/31/2012	6.7%	5.1%	5.5%	1.8%			
3/31/2013	5.2%	6.4%	-4.2%	1.3%			
6/30/2013	10.9%	7.1%	9.0%	3.4%			
9/30/2013	6.2%	7.3%	-1.9%	2.0%			
12/31/2013	5.4%	7.0%	0.5%	0.8%			
3/31/2014	8.6%	7.7%	0.6%	1.9%			
6/30/2014	-0.2%	4.8%	-5.8%	-1.8%			
9/30/2014	1.1%	3.5%	1.3%	-0.9%			
12/31/2014	-0.4%	2.0%	1.7%	-0.6%			
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	7.4%	1.1%	10.1%	6.3%			
12/31/2018	3.6%	1.5%	5.0%	4.3%			
3/31/2019	4.4%	3.3%	3.6%	4.4%			
6/30/2019	2.7%	4.5%	7.4%	6.6%			
9/30/2019	0.5%	2.7%	-4.6%	2.5%			
-:: -0 : 0	2.070						

Economic Variables

-		Annual Log Differences			
	Aggregate	Unemployment	Aggregate	Unemployment	Economic Variables
CY	Employment	Rate	Employment	Rate	1st Prin. Comp.
1961	3,961,320	6.90			
1962	4,144,738	5.80	0.045	-0.174	
1963	4,291,884	6.00	0.035	0.034	-0.029
1964	4,424,222	6.00	0.030	0.000	0.004
1965	4,544,514	5.90	0.027	-0.017	0.020
1966	4,791,639	4.90	0.053	-0.186	0.191
1967	4,926,767	5.70	0.028	0.151	-0.146
1968	5,132,112	5.40	0.041	-0.054	0.059
1969	5,366,667	5.20	0.045	-0.038	0.044
1970	5,333,957	7.30	-0.006	0.339	-0.337
1971	5,282,499	8.79	-0.010	0.186	-0.186
1972	6,019,714	7.61	0.131	-0.145	0.161
1973	6,497,553	7.02	0.076	-0.081	0.090
1974	6,706,246	7.30	0.032	0.040	-0.035
1975	6,681,988	9.88	-0.004	0.302	-0.300
1976	7,257,687	9.17	0.083	-0.075	0.085
1977	7,678,245	8.25	0.056	-0.105	0.112
1978	9,198,636	7.11	0.181	-0.149	0.173
1979	9,617,149	6.24	0.044	-0.130	0.134
1980	10,264,350	6.83	0.065	0.090	-0.080
1981	10,403,201	7.41	0.013	0.081	-0.079
1982	10,230,107	9.95	-0.017	0.294	-0.294
1983	10,329,774	9.68	0.010	-0.028	0.029
1984	10,820,756	7.79	0.046	-0.218	0.222
1985	11,172,918	7.21	0.032	-0.077	0.081
1986	11,483,715	6.69	0.027	-0.075	0.078
1987	11,887,947	5.77	0.035	-0.148	0.151
1988	12,355,087	5.31	0.039	-0.084	0.088
1989	12,686,653	5.09	0.026	-0.042	0.045
1990	12,940,612	5.77	0.020	0.125	-0.121
1991	12,776,147	7.74	-0.013	0.294	-0.293
1992	12,576,176	9.32	-0.016	0.186	-0.186
1993	12,477,176	9.52	-0.008	0.021	-0.022
1994	12,609,712	8.56	0.011	-0.106	0.106
1995	12,867,178	7.82	0.020	-0.090	0.092
1996	13,225,216	7.28	0.027	-0.072	0.075
1997	13,619,442	6.37	0.029	-0.135	0.138
1998	14,082,750	5.91	0.033	-0.075	0.079
1999	14,479,548	5.21	0.028	-0.125	0.128
2000	14,992,041	4.90	0.035	-0.062	0.066
2001	15,097,829	5.43	0.007	0.103	-0.101
2002	14,972,323	6.65	-0.008	0.203	-0.202
2003	14,950,484	6.81	-0.001	0.023	-0.023
2004	15,130,247	6.20	0.012	-0.093	0.093
2005	15,421,994	5.40	0.019	-0.139	0.141
2006	15,697,731	4.92	0.018	-0.093	0.095
2007	15,843,800	5.36	0.009	0.087	-0.084
2008	15,689,195	7.31	-0.010	0.310	-0.308
2009	14,807,736	11.15	-0.058	0.423	-0.427
2010	14,664,300	12.22	-0.010	0.091	-0.092
2011	14,826,075	11.72	0.011	-0.042	0.043
2012	15,161,100	10.38	0.022	-0.121	0.123
2013	15,563,525	8.94	0.026	-0.149	0.151
2014	15,992,325	7.50	0.027	-0.176	0.178
2015	16,472,850	6.19	0.030	-0.192	0.194
2016	16,905,425	5.48	0.026	-0.122	0.124
2017	17,258,550	4.79	0.021	-0.135	0.137
2018	17,605,075	4.20	0.020	-0.131	0.132
2019	17,922,381	4.18	0.018	-0.003	0.006
2020	18,240,251	4.27	0.018	0.021	-0.019
2021	18,394,014	4.61	0.008	0.076	-0.074
2022	18,513,083	4.67	0.006	0.012	-0.011

Notes: The first principal component is of the annual log difference data from 1962-2019.

The first principal component of the annual log difference of the economic variables is:

1st PC of Econ Variables = -0.1376216 x Aggregate Employment + 0.9904849 x Unemployment Rate

Sources: Government historical labor statistics through 2019

UCLA Anderson forecasts through 2022 are as of December 2019

Accident Year Cumulative Injury Indemnity Claim Counts

Cumulative Injury Indemnity Claim Counts

AY/RL	1	2	3	4	5	6	7	8	9	10
2004	12,018	12,876	13,224	13,474	13,751	14,240	14,394	14,391	14,444	14,527
2005	7,921	8,802	9,390	9,817	10,320	10,563	10,652	10,767	10,854	10,874
2006	7,368	8,491	9,048	9,520	9,771	9,889	9,980	10,149	10,236	10,252
2007	7,560	8,657	9,341	9,754	9,965	10,130	10,333	10,372	10,426	10,446
2008	7,278	8,577	9,429	9,855	10,157	10,416	10,586	10,675	10,696	10,677
2009	7,749	9,332	10,201	10,699	11,145	11,306	11,435	11,498	11,500	11,501
2010	8,622	9,950	10,690	11,486	11,640	11,839	11,974	11,968	12,001	
2011	8,393	10,363	11,630	11,930	12,187	12,345	12,400	12,420		
2012	9,470	12,099	12,814	13,284	13,578	13,744	13,860			
2013	12,040	14,207	15,143	15,566	15,860	16,041				
2014	12,834	15,180	15,811	16,324	16,715					
2015	12,858	15,335	16,102	16,544						
2016	13,064	16,634	17,718							
2017	12,813	16,561								
2018	11,821									

Cumulative Injury Share of Total Indemnity Count

AY/RL	1	2	3	4	5	6	7	8	9	10
2004	8.8%	9.2%	9.4%	9.6%	9.8%	10.1%	10.3%	10.3%	10.3%	10.4%
2005	6.7%	7.3%	7.8%	8.1%	8.5%	8.7%	8.8%	8.8%	8.9%	8.9%
2006	6.6%	7.5%	7.9%	8.3%	8.5%	8.6%	8.6%	8.8%	8.9%	8.9%
2007	7.1%	7.9%	8.5%	8.8%	8.9%	9.1%	9.2%	9.3%	9.3%	9.3%
2008	7.4%	8.4%	9.1%	9.4%	9.7%	9.9%	10.0%	10.1%	10.1%	10.1%
2009	8.6%	9.9%	10.6%	11.1%	11.5%	11.6%	11.7%	11.8%	11.8%	11.8%
2010	9.4%	10.3%	10.9%	11.6%	11.7%	11.9%	12.0%	12.0%	12.0%	
2011	9.0%	10.6%	11.6%	11.8%	12.0%	12.2%	12.2%	12.2%		
2012	9.7%	11.7%	12.1%	12.5%	12.7%	12.8%	12.9%			
2013	11.5%	12.9%	13.5%	13.8%	14.0%	14.1%				
2014	11.9%	13.3%	13.7%	14.0%	14.3%					
2015	11.9%	13.4%	13.9%	14.1%						
2016	12.0%	14.4%	15.0%							
2017	11.8%	14.0%								
2018	10.8%									

Source: WCIRB unit statistical data

Note: Figures in italics are based on a partial accident year.

Note: The claim count in each Accident Year X is based on claims with accident dates in year X contributed by Policy Year (X - 1) and Policy Year X. Figures in italics are based on a partial contribution from Policy Year (X - 1) only.

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

Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018		Ratio of Permanent Disability Claims to Indemnity Claims for Accident Year														
LoS Angeles LA Basin San Diego	Region	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
San Diego	Bay Area	0.359	0.309	0.303	0.283	0.296	0.305	0.313	0.323	0.309	0.293	0.302	0.310	0.299	0.285	0.287
All Other All Regions 0.410 0.356 0.344 0.299 0.320 0.315 0.325 0.320 0.314 0.290 0.302 0.315 0.301 0.301 0.287	Los Angeles/LA Basin	0.456	0.398	0.382	0.388	0.405	0.405	0.397	0.403	0.398	0.369	0.374	0.392	0.381	0.376	0.358
Region Quality Quali	San Diego	0.411	0.341	0.330	0.329	0.336	0.362	0.356	0.357	0.361	0.327	0.348	0.360	0.345	0.356	0.367
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2018 2018 2019 2018 2019 2010 2011 2012 2013 2014 2015 2016 2017 2018	All Other	0.370	0.324	0.315	0.299	0.320	0.315	0.325	0.320	0.314	0.290	0.302	0.315	0.301	0.301	0.287
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	All Regions	0.410	0.356	0.344	0.339	0.357	0.360	0.360	0.363	0.358	0.332	0.341	0.355	0.343	0.337	0.324
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2018 2017 2018	· ·	•														
Bay Area 14,0% -1,8% -6,6% 4,4% 3,1% 2,5% 3,3% -4,4% 5,2% 3,0% 2,7% -3,5% -4,6% 0,5% San Dlego -16,6% -4,0% 1,7% -1,6% -1,5% -								Ar	nual Ch	ange						
Los Angeles/LA Basin	Region	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
San Diego	Bay Area		-14.0%	-1.8%	-6.6%	4.4%	3.1%	2.5%	3.3%	-4.4%	-5.2%	3.0%	2.7%	-3.5%	-4.6%	0.5%
All Other All Regions	Los Angeles/LA Basin		-12.8%	-4.0%	1.7%	4.3%	-0.1%	-2.1%	1.6%	-1.3%	-7.2%	1.4%	4.8%	-2.8%	-1.4%	-4.7%
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	San Diego		-16.9%	-3.4%	-0.1%	2.2%	7.6%	-1.5%	0.2%	1.1%	-9.3%	6.2%	3.4%	-4.1%	3.1%	3.2%
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	All Other		-12.5%	-2.7%	-5.2%	7.1%	-1.6%	3.3%	-1.7%	-1.8%	-7.8%	4.2%	4.4%	-4.4%	-0.1%	-4.8%
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	All Regions		-13.3%	-3.2%	-1.5%	5.3%	0.9%	0.0%	0.8%	-1.5%	-7.3%	2.7%	4.2%	-3.5%	-1.5%	-4.0%
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018		•														
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2034 Area 2037 2038 2038 2039 2030 2032 20331 2032 20331 2032 20331 20334 20333 2034 20333 20342 20342 2035 2036 2037 2038 2039																
Bay Area 0.307 0.284 0.285 0.289 0.295 0.307 0.315 0.323 0.322 0.331 0.328 0.333 0.334 0.333 0.342 0.368 0.333 0.343 0.297 0.305 0.316 0.341 0.352 0.359 0.372 0.389 0.393 0.391 0.391 0.371 0.368 0.381 0.321 0.281 0.281 0.281 0.289 0.260 0.272 0.285 0.303 0.313 0.327 0.317 0.329 0.329 0.327 0.317 0.310 0.310 0.321 0.299 0.289 0.294 0.300 0.313 0.321 0.329 0.329 0.329 0.327 0.317 0.310 0.320 0						Ratio o	f Indemn	ity Claim	s to Tota	al Claims	for Acci	dent Ye	ar			
Loś Angeles/LA Basin San Diego	Region	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
San Diego	Bay Area	0.307	0.284	0.285	0.289	0.295	0.307	0.315	0.323	0.322	0.331	0.328	0.333	0.334	0.333	0.342
All Other All Regions 0.321 0.299 0.289 0.294 0.300 0.313 0.321 0.329 0.330 0.343 0.339 0.331 0.332 0.319 0.320 All Regions 0.320 0.295 0.290 0.295 0.304 0.323 0.333 0.340 0.348 0.361 0.361 0.368 0.358 0.344 0.343 Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 Bay Area	Los Angeles/LA Basin	0.333	0.304	0.297	0.305	0.316	0.341	0.352	0.359	0.372	0.389	0.393	0.391	0.391	0.371	0.368
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	San Diego	0.281	0.263	0.259	0.260	0.272	0.285	0.303	0.313	0.327	0.329	0.329	0.327	0.327	0.317	0.310
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	All Other	0.321	0.299	0.289	0.294	0.300	0.313	0.321	0.329	0.330	0.343	0.339	0.331	0.332	0.319	0.320
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	All Regions	0.320	0.295	0.290	0.295	0.304	0.323	0.333	0.340	0.348	0.361	0.361	0.358	0.358	0.344	0.343
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	-	•														
Bay Area								Ar	nual Ch	ange						
Loś Angeles/LA Basin	Region	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
San Diego6.4% -1.4% 0.2% 4.7% 4.6% 6.4% 3.5% 4.3% 0.5% 0.0% -0.6% 0.1% -3.2% -2.0% All Other6.9% -3.2% 1.6% 2.2% 4.2% 2.7% 2.3% 0.4% 3.9% -1.3% -2.3% 0.3% -3.9% 0.3% All Regions7.8% -2.0% 1.8% 3.2% 6.0% 3.3% 2.1% 2.2% 3.8% 0.0% -0.8% 0.0% -0.8% 0.0% -3.9% -0.3% Cumulative Injury Claims per 100 Indemnity Claims for Accident Year Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2018 2018 2018 2018 2019 2019 2019 2019 2019 2019 2019 2019	Bay Area		-7.4%	0.6%	1.1%	2.3%	3.9%	2.7%	2.4%	-0.2%	2.8%	-0.8%	1.4%	0.3%	-0.3%	2.6%
All Other	Los Angeles/LA Basin		-8.7%	-2.4%	2.5%	3.8%	7.9%	3.3%	1.7%	3.7%	4.7%	0.9%	-0.4%	-0.2%	-5.0%	-0.9%
Cumulative Injury Claims per 100 Indemnity Claims for Accident Year	San Diego		-6.4%	-1.4%	0.2%	4.7%	4.6%	6.4%	3.5%	4.3%	0.5%	0.0%	-0.6%	0.1%	-3.2%	-2.0%
Cumulative Injury Claims per 100 Indemnity Claims for Accident Year	All Other		-6.9%	-3.2%	1.6%	2.2%	4.2%	2.7%	2.3%	0.4%	3.9%	-1.3%	-2.3%	0.3%	-3.9%	0.3%
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 Bay Area 8.82 7.39 6.51 7.51 7.55 8.20 8.18 8.21 7.73 9.12 8.74 8.04 8.05 8.09 8.48 Los Angeles/LA Basin San Diego 8.86 6.58 6.00 6.43 6.96 7.30 9.20 8.51 8.77 11.76 12.44 12.22 12.17 12.08 11.53 All Other 6.16 4.47 4.92 4.86 4.86 5.77 6.30 5.94 6.15 7.02 7.12 6.79 6.66 6.44 7.05 All Regions 8.76 6.71 6.60 7.09 7.37 8.61 9.39 9.04 9.69 11.51 11.90 11.89 12.02 11.77 10.80 Array Area	All Regions		-7.8%	-2.0%	1.8%	3.2%	6.0%	3.3%	2.1%	2.2%	3.8%	0.0%	-0.8%	0.0%	-3.9%	-0.3%
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 Bay Area 8.82 7.39 6.51 7.51 7.55 8.20 8.18 8.21 7.73 9.12 8.74 8.04 8.05 8.09 8.48 Los Angeles/LA Basin San Diego 8.86 6.58 6.00 6.43 6.96 7.30 9.20 8.51 8.77 11.76 12.44 12.22 12.17 12.08 11.53 All Other 6.16 4.47 4.92 4.86 4.86 5.77 6.30 5.94 6.15 7.02 7.12 6.79 6.66 6.44 7.05 All Regions 8.76 6.71 6.60 7.09 7.37 8.61 9.39 9.04 9.69 11.51 11.90 11.89 12.02 11.77 10.80 Array Area		-														
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 Bay Area 8.82 7.39 6.51 7.51 7.55 8.20 8.18 8.21 7.73 9.12 8.74 8.04 8.05 8.09 8.48 Los Angeles/LA Basin San Diego 8.86 6.58 6.00 6.43 6.96 7.30 9.20 8.51 8.77 11.76 12.44 12.22 12.17 12.08 11.53 All Other 6.16 4.47 4.92 4.86 4.86 5.77 6.30 5.94 6.15 7.02 7.12 6.79 6.66 6.44 7.05 All Regions 8.76 6.71 6.60 7.09 7.37 8.61 9.39 9.04 9.69 11.51 11.90 11.89 12.02 11.77 10.80 Array Area																
Bay Area 8.82 7.39 6.51 7.51 7.55 8.20 8.18 8.21 7.73 9.12 8.74 8.04 8.05 8.09 8.48 Los Angeles/LA Basin 10.47 7.98 7.86 8.50 8.90 10.60 11.63 11.26 12.52 14.89 15.62 16.18 16.58 16.63 14.61 San Diego 8.86 6.58 6.00 6.43 6.96 7.30 9.20 8.51 8.77 11.76 12.44 12.22 12.17 12.08 11.53 All Other 6.16 4.47 4.92 4.86 4.86 5.77 6.30 5.94 6.15 7.02 7.12 6.79 6.66 6.44 7.05 All Regions 8.76 6.71 6.60 7.09 7.37 8.61 9.39 9.04 9.69 11.51 11.90 11.89 12.02 11.77 10.80 Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 Bay Area -16.2% -11.9% 15.4% 0.5% 8.7% -0.3% 0.4% -5.8% 18.0% -4.1% -8.0% 0.1% 0.5% 4.9% Los Angeles/LA Basin -25.8% -8.8% 7.1% 8.4% 4.8% 26.1% -7.6% 3.0% 34.2% 5.8% -1.8% -0.4% -0.8% -4.5%					Cur	nulative	Injury Cla	aims per	100 Inde	emnity C	laims for	Accider	nt Year			
Los Angeles/LA Basin San Diego	Region															
San Diego 8.86 6.58 6.00 6.43 6.96 7.30 9.20 8.51 8.77 11.76 12.44 12.22 12.17 12.08 11.53 All Other 6.16 4.47 4.92 4.86 4.86 5.77 6.30 5.94 6.15 7.02 7.12 6.79 6.66 6.44 7.05 All Regions 8.76 6.71 6.60 7.09 7.37 8.61 9.39 9.04 9.69 11.51 11.90 11.89 12.02 11.77 10.80 Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 Bay Area	Bay Area	8.82	7.39	6.51	7.51	7.55	8.20	8.18	8.21	7.73	9.12	8.74	8.04	8.05	8.09	8.48
All Other All Regions 6.16 4.47 4.92 4.86 4.86 5.77 6.30 5.94 6.15 7.02 7.12 6.79 6.66 6.44 7.05 All Regions 8.76 6.71 6.60 7.09 7.37 8.61 9.39 9.04 9.69 11.51 11.90 11.89 12.02 11.77 10.80 Annual Charge Segion 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	Los Angeles/LA Basin	10.47	7.98	7.86	8.50	8.90	10.60	11.63	11.26	12.52	14.89	15.62	16.18	16.58	16.63	14.61
All Regions 8.76 6.71 6.60 7.09 7.37 8.61 9.39 9.04 9.69 11.51 11.90 11.89 12.02 11.77 10.80 Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	San Diego	8.86	6.58	6.00	6.43	6.96	7.30	9.20	8.51	8.77	11.76	12.44	12.22	12.17	12.08	11.53
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 Bay Area23.8% -1.5% 8.1% 4.8% 19.1% 9.6% -3.1% 11.2% 18.9% 4.9% 3.6% 2.5% 0.3% -12.1% San Diego 25.8% -8.8% 7.1% 8.4% 4.8% 26.1% -7.6% 3.0% 34.2% 5.8% -1.8% -0.4% -0.8% -4.5%	All Other	6.16	4.47	4.92	4.86	4.86	5.77	6.30	5.94	6.15	7.02	7.12	6.79	6.66	6.44	7.05
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 Bay Area -16.2% -11.9% 15.4% 0.5% 8.7% -0.3% 0.4% -5.8% 18.0% -4.1% -8.0% 0.1% 0.5% 4.9% Los Angeles/LA Basin San Diego -23.8% -1.5% 8.1% 4.8% 19.1% 9.6% -3.1% 11.2% 18.9% 4.9% 3.6% 2.5% 0.3% -12.1% San Diego -25.8% -8.8% 7.1% 8.4% 4.8% 26.1% -7.6% 3.0% 34.2% 5.8% -1.8% -0.4% -0.8% -4.5%	All Regions	8.76	6.71	6.60	7.09	7.37	8.61	9.39	9.04	9.69	11.51	11.90	11.89	12.02	11.77	10.80
Region 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 Bay Area -16.2% -11.9% 15.4% 0.5% 8.7% -0.3% 0.4% -5.8% 18.0% -4.1% -8.0% 0.1% 0.5% 4.9% Los Angeles/LA Basin San Diego -23.8% -1.5% 8.1% 4.8% 19.1% 9.6% -3.1% 11.2% 18.9% 4.9% 3.6% 2.5% 0.3% -12.1% San Diego -25.8% -8.8% 7.1% 8.4% 4.8% 26.1% -7.6% 3.0% 34.2% 5.8% -1.8% -0.4% -0.8% -4.5%		-														
Bay Area16.2% -11.9% 15.4% 0.5% 8.7% -0.3% 0.4% -5.8% 18.0% -4.1% -8.0% 0.1% 0.5% 4.9% Los Angeles/LA Basin23.8% -1.5% 8.1% 4.8% 19.1% 9.6% -3.1% 11.2% 18.9% 4.9% 3.6% 2.5% 0.3% -12.1% San Diego 25.8% -8.8% 7.1% 8.4% 4.8% 26.1% -7.6% 3.0% 34.2% 5.8% -1.8% -0.4% -0.8% -4.5%								Ar	nual Ch	ange						
Loś Angeles/LA Basin23.8% -1.5% 8.1% 4.8% 19.1% 9.6% -3.1% 11.2% 18.9% 4.9% 3.6% 2.5% 0.3% -12.1% San Diego25.8% -8.8% 7.1% 8.4% 4.8% 26.1% -7.6% 3.0% 34.2% 5.8% -1.8% -0.4% -0.8% -4.5%	Region	2004	2005	2006		2008	2009	2010	2011	2012	2013	2014		2016	2017	2018
San Diego25.8% -8.8% 7.1% 8.4% 4.8% 26.1% -7.6% 3.0% 34.2% 5.8% -1.8% -0.4% -0.8% -4.5%	Bay Area		-16.2%		15.4%	0.5%	8.7%	-0.3%	0.4%	-5.8%	18.0%	-4.1%	-8.0%	0.1%	0.5%	4.9%
	Los Angeles/LA Basin		-23.8%	-1.5%	8.1%	4.8%	19.1%	9.6%	-3.1%	11.2%	18.9%	4.9%	3.6%	2.5%	0.3%	-12.1%
All Other 27.6% 10.2% -1.2% -0.1% 18.8% 9.2% -5.8% 3.6% 14.1% 1.5% -4.7% -1.9% -3.3% 9.5%	San Diego		-25.8%	-8.8%	7.1%	8.4%	4.8%	26.1%	-7.6%	3.0%	34.2%		-1.8%	-0.4%	-0.8%	-4.5%
	All Other		-27.6%	10.2%	-1.2%	-0.1%	18.8%	9.2%	-5.8%	3.6%	14.1%	1.5%	-4.7%	-1.9%		
All Regions23.4% -1.6% 7.4% 4.0% 16.9% 9.1% -3.8% 7.2% 18.8% 3.3% 0.0% 1.0% -2.1% -8.2%	All Regions		-23.4%	-1.6%	7.4%	4.0%	16.9%	9.1%	-3.8%	7.2%	18.8%	3.3%	0.0%	1.0%	-2.1%	-8.2%

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

Indemnity Claim Frequency by Geographic Region

Bay .	Area
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Day Ale	a										
		Indemnity	/ Claim Fr	equency							
	per \$1	00M of Ex	posure at	AY 2018	Level			An	nual Char	nge	
AY/RL	1	2	3	4	5	AY/RL	1	2	3	4	5
2001	22.98	23.63	24.14	23.84	23.87	2001					
2002	22.49	22.88	23.09	23.08	23.12	2002	-2.1%	-3.2%	-4.3%	-3.2%	-3.2%
2003	20.97	21.33	21.46	21.56	21.85	2003	-6.8%	-6.7%	-7.1%	-6.6%	-5.5%
2004	18.41	18.64	18.72	18.96	19.02	2004	-12.2%	-12.6%	-12.8%	-12.1%	-13.0%
2005	16.25	16.28	16.55	16.62	16.59	2005	-11.8%	-12.6%	-11.6%	-12.4%	-12.8%
2006	14.85	15.14	15.28	15.30	15.29	2006	-8.6%	-7.0%	-7.7%	-8.0%	-7.8%
2007	13.93	14.19	14.27	14.33	14.36	2007	-6.2%	-6.3%	-6.6%	-6.3%	-6.1%
2008	12.82	13.07	13.22	13.31	13.36	2008	-8.0%	-7.9%	-7.4%	-7.2%	-7.0%
2009	12.18	12.56	12.71	12.80	12.83	2009	-5.0%	-3.9%	-3.9%	-3.8%	-3.9%
2010	12.17	12.71	12.85	12.94	12.98	2010	-0.1%	1.2%	1.2%	1.1%	1.1%
2011	11.85	12.40	12.61	12.71	12.76	2011	-2.6%	-2.4%	-1.9%	-1.7%	-1.7%
2012	11.72	12.22	12.43	12.51	12.55	2012	-1.1%	-1.4%	-1.5%	-1.6%	-1.6%
2013	11.38	11.86	12.00	12.07	12.10	2013	-2.9%	-3.0%	-3.5%	-3.5%	-3.6%
2014	11.27	11.71	11.83	11.88	11.91	2014	-1.0%	-1.2%	-1.4%	-1.5%	-1.5%
2015	10.93	11.35	11.45	11.50		2015	-3.0%	-3.1%	-3.2%	-3.3%	
2016	10.14	10.56	10.66			2016	-7.3%	-6.9%	-6.9%		
2017	10.01	10.45				2017	-1.3%	-1.1%			
2018	10.09					2018	0.8%				

Los Angeles/L.A. Basin

Indemnity Claim Frequency

	per \$100M of Exposure at AY 2018 Level								An	nual Char	nge	
AY/RL	1	2	3	4	5		AY/RL	1	2	3	4	5
2001	31.44	33.00	33.39	33.34	33.19		2001					
2002	31.71	33.21	33.16	33.06	32.96		2002	0.8%	0.7%	-0.7%	-0.8%	-0.7%
2003	30.45	31.45	31.23	31.21	31.06		2003	-4.0%	-5.3%	-5.8%	-5.6%	-5.8%
2004	26.57	26.74	26.78	26.73	26.77		2004	-12.7%	-15.0%	-14.3%	-14.4%	-13.8%
2005	22.81	22.79	22.87	23.02	23.09		2005	-14.2%	-14.8%	-14.6%	-13.9%	-13.7%
2006	21.11	21.30	21.51	21.68	21.73		2006	-7.5%	-6.5%	-5.9%	-5.8%	-5.9%
2007	20.31	20.90	21.20	21.36	21.45		2007	-3.8%	-1.9%	-1.5%	-1.5%	-1.3%
2008	19.64	20.61	20.98	21.21	21.32		2008	-3.3%	-1.4%	-1.0%	-0.7%	-0.6%
2009	19.77	20.90	21.37	21.57	21.67		2009	0.7%	1.4%	1.9%	1.7%	1.7%
2010	20.76	22.03	22.56	22.76	22.83		2010	5.0%	5.4%	5.6%	5.5%	5.4%
2011	21.33	22.85	23.36	23.58	23.68		2011	2.8%	3.7%	3.5%	3.6%	3.7%
2012	22.31	23.96	24.44	24.63	24.78		2012	4.6%	4.9%	4.6%	4.5%	4.6%
2013	22.87	24.44	24.87	25.06	25.18		2013	2.5%	2.0%	1.8%	1.7%	1.6%
2014	23.43	24.99	25.41	25.57	25.66		2014	2.4%	2.3%	2.2%	2.0%	1.9%
2015	23.41	24.92	25.28	25.39			2015	-0.1%	-0.3%	-0.5%	-0.7%	
2016	22.76	24.38	24.68				2016	-2.8%	-2.2%	-2.4%		
2017	22.42	24.17					2017	-1.5%	-0.9%			
2018	21.64						2018	-3.5%				

San Diego

Indemnity Claim Frequency

indentifity Glaim Frequency													
	per \$1	00M of Ex	posure at	AY 2018	Level				An	nual Char	ige		
AY/RL	1	2	3	4	5	Α	Y/RL	1	2	3	4	5	
2001	32.07	32.87	33.08	33.04	32.84	2	2001						
2002	30.73	31.05	31.03	30.74	30.84	2	2002	-4.2%	-5.6%	-6.2%	-7.0%	-6.1%	
2003	28.14	28.34	28.10	28.03	28.14	2	2003	-8.4%	-8.7%	-9.4%	-8.8%	-8.8%	
2004	24.62	24.52	24.56	24.44	24.02	2	2004	-12.5%	-13.5%	-12.6%	-12.8%	-14.6%	
2005	21.42	21.49	21.49	20.81	20.57	2	2005	-13.0%	-12.4%	-12.5%	-14.9%	-14.4%	
2006	20.02	19.90	19.33	18.99	19.02	2	2006	-6.5%	-7.4%	-10.1%	-8.7%	-7.5%	
2007	19.31	18.81	18.52	18.23	18.28	2	2007	-3.5%	-5.5%	-4.2%	-4.0%	-3.9%	
2008	17.74	17.80	17.96	17.73	17.82	2	2008	-8.2%	-5.4%	-3.0%	-2.7%	-2.5%	
2009	16.73	17.40	17.58	17.70	17.80	2	2009	-5.7%	-2.2%	-2.1%	-0.1%	-0.1%	
2010	17.37	18.11	18.35	18.55	18.61	2	2010	3.9%	4.1%	4.4%	4.8%	4.6%	
2011	17.67	18.35	18.62	18.81	18.87	2	2011	1.7%	1.3%	1.5%	1.4%	1.3%	
2012	17.85	18.50	18.74	18.86	18.92	2	2012	1.0%	0.8%	0.7%	0.3%	0.3%	
2013	17.59	18.25	18.41	18.50	18.57	2	2013	-1.5%	-1.3%	-1.8%	-1.9%	-1.9%	
2014	17.90	18.66	18.80	18.89	18.96	2	2014	1.8%	2.2%	2.1%	2.1%	2.1%	
2015	18.14	18.95	19.08	19.17		2	2015	1.3%	1.6%	1.5%	1.5%		
2016	17.82	18.54	18.61			2	2016	-1.8%	-2.2%	-2.5%			
2017	17.32	17.97				2	2017	-2.8%	-3.0%				
2018	16.06					2	2018	-7.3%					

Indemnity Claim Frequency by Geographic Region

All Other

71										
	Indemnity	/ Claim Fr	equency							
per \$1	00M of Ex	posure at	AY 2018	Level			An	nual Char	nge	
1	2	3	4	5	AY/RI	_ 1	2	3	4	5
39.17	40.85	40.98	41.49	42.03	2001					
38.30	39.40	40.10	40.60	40.93	2002	-2.2%	-3.6%	-2.2%	-2.2%	-2.6%
36.21	37.50	37.98	38.16	38.31	2003	-5.5%	-4.8%	-5.3%	-6.0%	-6.4%
33.04	33.80	33.93	34.12	34.25	2004	-8.8%	-9.8%	-10.7%	-10.6%	-10.6%
28.91	29.33	29.55	29.80	29.97	2005	-12.5%	-13.2%	-12.9%	-12.7%	-12.5%
26.44	26.79	27.12	27.36	27.44	2006	-8.5%	-8.7%	-8.2%	-8.2%	-8.4%
25.07	25.64	26.10	26.36	26.41	2007	-5.2%	-4.3%	-3.8%	-3.7%	-3.8%
23.63	24.38	24.71	24.91	24.98	2008	-5.7%	-4.9%	-5.3%	-5.5%	-5.4%
23.08	23.85	24.04	24.20	24.29	2009	-2.3%	-2.2%	-2.7%	-2.8%	-2.7%
23.49	24.42	24.75	24.86	25.02	2010	1.8%	2.4%	2.9%	2.7%	3.0%
23.72	24.88	25.27	25.43	25.53	2011	1.0%	1.9%	2.1%	2.3%	2.1%
24.30	25.43	25.81	25.99	26.03	2012	2.4%	2.2%	2.1%	2.2%	2.0%
24.15	25.21	25.56	25.70	25.77	2013	-0.6%	-0.9%	-1.0%	-1.1%	-1.0%
23.90	24.96	25.34	25.48	25.56	2014	-1.0%	-1.0%	-0.8%	-0.9%	-0.8%
23.84	24.84	25.21	25.34		2015	-0.2%	-0.5%	-0.5%	-0.5%	
22.74	23.73	24.04			2016	-4.6%	-4.5%	-4.6%		
22.65	23.65				2017	-0.4%	-0.3%			
23.07					2018	1.8%				
	1 39.17 38.30 36.21 33.04 28.91 26.44 25.07 23.63 23.08 23.49 23.72 24.30 24.15 23.90 23.84 22.74 22.65	Indemnity per \$100M of Ex 1 2 39.17 40.85 38.30 39.40 36.21 37.50 33.04 33.80 28.91 29.33 26.44 26.79 25.07 25.64 23.63 24.38 23.08 23.85 23.49 24.42 23.72 24.88 24.30 25.43 24.15 25.21 23.90 24.96 23.84 24.84 22.74 23.73 22.65 23.65	Indemnity Claim From per \$100M of Exposure at 1 2 3 3 39.17 40.85 40.98 38.30 39.40 40.10 36.21 37.50 37.98 33.04 33.80 33.93 28.91 29.33 29.55 26.44 26.79 27.12 25.07 25.64 26.10 23.63 24.38 24.71 23.08 23.85 24.04 23.49 24.42 24.75 23.72 24.80 25.43 25.81 24.15 25.21 25.56 23.90 24.96 25.34 24.84 24.84 24.24 24.75 23.74 24.96 25.37 24.04 23.84 24.84 25.21 22.74 23.73 24.04 22.65 23.65	Indemnity Claim Frequency per \$100M of Exposure at AY 2018 1 2 3 4 39.17 40.85 40.98 41.49 38.30 39.40 40.10 40.60 36.21 37.50 37.98 38.16 33.04 33.80 33.93 34.12 28.91 29.33 29.55 29.80 26.44 26.79 27.12 27.36 25.07 25.64 26.10 26.36 23.63 24.38 24.71 24.91 23.08 23.85 24.04 24.20 23.49 24.42 24.75 24.86 23.72 24.88 25.27 25.43 24.30 25.43 25.81 25.99 24.15 25.21 25.56 25.70 23.90 24.96 25.34 25.48 23.84 24.84 24.94 22.74 23.73 24.04 22.65 23.65	Indemnity Claim Frequency per \$100M of Exposure at AY 2018 Level 1 2 3 4 5 5 7 7 7 1 1 2 1 1 2 1 3 4 5 7 1 1 1 2 1 3 1 4 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Indemnity Claim Frequency per \$100M of Exposure at AY 2018 Level 1 2 3 4 5 39.17 40.85 40.98 41.49 42.03 38.30 39.40 40.10 40.60 40.93 36.21 37.50 37.98 38.16 38.31 2003 33.04 33.80 33.93 34.12 34.25 2004 28.91 29.33 29.55 29.80 29.97 2005 26.44 26.79 27.12 27.36 27.44 2006 25.07 25.64 26.10 26.36 26.41 2007 23.63 24.38 24.71 24.91 24.98 23.08 23.85 24.04 24.20 24.29 2009 23.49 24.42 24.75 24.86 25.02 2010 23.72 24.88 25.27 25.43 25.53 2011 24.30 25.43 25.81 25.99 26.03 2012 24.15 25.21 25.56 25.70 25.77 2013 23.90 24.96 25.34 25.48 25.56 2014 23.84 24.84 24.96 25.34 25.48 25.56 22.74 23.73 24.04 22.65 23.65	Indemnity Claim Frequency per \$100M of Exposure at AY 2018 Level 1	Indemnity Claim Frequency per \$100M of Exposure at AY 2018 Level 1	Indemnity Claim Frequency per \$100M of Exposure at AY 2018 Level 1	Indemnity Claim Frequency per \$100M of Exposure at AY 2018 Level 1

All Regions

Indemnity Claim Freque	ncy
0400N4 CE 1AV/C	20401

indemnity Claim Frequency												
	per \$1	00M of Ex	posure at	AY 2018	Level				An	nual Char	nge	
AY/RL	1	2	3	4	5		AY/RL	1	2	3	4	5
2001	31.13	32.34	32.73	32.68	32.71		2001					
2002	30.84	31.89	32.01	32.03	32.07		2002	-0.9%	-1.4%	-2.2%	-2.0%	-2.0%
2003	29.30	30.05	30.06	30.11	30.14		2003	-5.0%	-5.8%	-6.1%	-6.0%	-6.0%
2004	25.85	26.13	26.18	26.23	26.24		2004	-11.8%	-13.0%	-12.9%	-12.9%	-12.9%
2005	22.43	22.52	22.65	22.72	22.76		2005	-13.2%	-13.8%	-13.5%	-13.4%	-13.3%
2006	20.64	20.86	21.02	21.11	21.16		2006	-8.0%	-7.4%	-7.2%	-7.1%	-7.1%
2007	19.68	20.10	20.31	20.43	20.50		2007	-4.7%	-3.7%	-3.3%	-3.2%	-3.1%
2008	18.61	19.26	19.55	19.71	19.80		2008	-5.4%	-4.2%	-3.8%	-3.5%	-3.4%
2009	18.31	19.15	19.46	19.63	19.71		2009	-1.6%	-0.6%	-0.4%	-0.4%	-0.5%
2010	18.84	19.82	20.19	20.34	20.42		2010	2.9%	3.5%	3.7%	3.6%	3.6%
2011	19.05	20.17	20.57	20.75	20.83		2011	1.1%	1.8%	1.9%	2.0%	2.0%
2012	19.52	20.66	21.02	21.18	21.27		2012	2.4%	2.4%	2.2%	2.1%	2.1%
2013	19.59	20.67	20.98	21.12	21.20		2013	0.4%	0.1%	-0.2%	-0.3%	-0.3%
2014	19.70	20.77	21.08	21.20	21.27		2014	0.6%	0.5%	0.5%	0.4%	0.3%
2015	19.45	20.49	20.77	20.87			2015	-1.3%	-1.3%	-1.5%	-1.6%	
2016	18.62	19.71	19.94				2016	-4.3%	-3.8%	-4.0%		
2017	18.30	19.47					2017	-1.7%	-1.2%			
2018	18.03						2018	-1.5%				

Frequency of Indemnity Claims Caused by Motor Vehicle Accidents

	•	aim Frequenc sure at AY 20			Annual Change						
AY/RL	<u>1</u>	<u>2</u>	<u>3</u>	AY/RL	<u>1</u>	<u>2</u>	<u>3</u>				
2001	0.96	0.89	0.92	2001							
2002	0.81	0.89	0.90	2002	-15.3%	0.5%	-3.2%				
2003	0.91	0.93	0.92	2003	12.0%	3.7%	3.3%				
2004	0.78	0.77	0.76	2004	-13.5%	-17.2%	-18.2%				
2005	0.66	0.64	0.63	2005	-16.4%	-17.1%	-16.5%				
2006	0.65	0.63	0.62	2006	-0.9%	-1.5%	-1.4%				
2007	0.64	0.62	0.62	2007	-2.0%	-0.4%	-0.6%				
2008	0.58	0.58	0.58	2008	-8.5%	-7.4%	-6.4%				
2009	0.54	0.54	0.54	2009	-7.4%	-7.2%	-6.8%				
2010	0.58	0.58	0.57	2010	7.9%	7.8%	6.4%				
2011	0.54	0.54	0.55	2011	-6.9%	-5.7%	-5.1%				
2012	0.53	0.54	0.53	2012	-2.2%	-1.6%	-2.0%				
2013	0.55	0.54	0.54	2013	2.9%	0.9%	1.7%				
2014	0.51	0.51	0.51	2014	-6.2%	-4.8%	-5.3%				
2015	0.56	0.57	0.56	2015	10.4%	10.1%	8.6%				
2016	0.58	0.57	0.56	2016	2.4%	1.1%	1.0%				
2017	0.57	0.60		2017	-0.9%	5.0%					
2018	0.62			2018	8.9%						

	Percentage of Indemnity Claims								
<u>AY/RL</u>	<u>1</u>	<u>2</u>	<u>3</u>						
2001	2.9%	2.8%	2.8%						
2002	3.0%	2.9%	2.9%						
2003	2.9%	2.9%	2.9%						
2004	3.1%	3.0%	2.9%						
2005	3.1%	3.0%	2.9%						
2006	3.2%	3.0%	3.0%						
2007	3.2%	3.1%	3.1%						
2008	3.2%	3.0%	3.0%						
2009	3.1%	3.0%	2.9%						
2010	3.0%	2.9%	2.8%						
2011	2.9%	2.8%	2.7%						
2012	2.7%	2.6%	2.5%						
2013	2.7%	2.6%	2.5%						
2014	2.6%	2.4%	2.4%						
2015	2.9%	2.7%	2.7%						
2016	3.0%	2.8%	2.7%						
2017	3.0%	3.0%							
2018	2.8%								

Source: WCIRB unit statistical data

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

Accident				P	Paid Indemnit	ty			
<u>Year</u>	<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>	105-117
1994							0.370	0.273	0.192
1995						0.414	0.292	0.244	0.191
1996					0.475	0.328	0.278	0.234	0.195
1997				0.506	0.403	0.320	0.282	0.217	0.182
1998			0.600	0.469	0.359	0.309	0.250	0.224	0.215
1999		0.759	0.561	0.442	0.394	0.316	0.273	0.243	0.214
2000	1.149	0.720	0.520	0.461	0.367	0.320	0.311	0.261	0.227
2001	1.170	0.731	0.590	0.487	0.401	0.366	0.292	0.266	0.227
2002	1.123	0.714	0.563	0.482	0.431	0.365	0.326	0.266	0.251
2003	1.033	0.699	0.597	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	0.567	0.483	0.399	0.341	0.302	0.308	0.267
2006	1.229	0.761	0.557	0.468	0.407	0.362	0.313	0.287	0.243
2007	1.388	0.778	0.569	0.472	0.423	0.379	0.338	0.264	0.292
2008	1.475	0.804	0.632	0.518	0.442	0.383	0.329	0.273	0.258
2009	1.545	0.807	0.636	0.528	0.447	0.387	0.348	0.331	0.300
2010	1.626	0.836	0.658	0.554	0.480	0.436	0.383	0.339	0.335
2011	1.654	0.813	0.625	0.515	0.455	0.413	0.402	0.379	
2012	1.656	0.802	0.636	0.545	0.523	0.415	0.392		
2013	1.600	0.813	0.676	0.586	0.512	0.428			
2014	1.608	0.882	0.706	0.593	0.490				
2015	1.629	0.867	0.677	0.564					
2016	1.665	0.859	0.682						
2017	1.641	0.840							
2018	1.618								

Accident					Paid Medical	ı			
Year Year	9-21	21-33	33-45	45-57	57-69	<u>69-81</u>	81-93	93-105	105-117
1994	<u> </u>				<u> </u>		0.287	0.207	0.189
1995						0.278	0.227	0.219	0.170
1996					0.340	0.273	0.250	0.217	0.164
1997				0.400	0.359	0.290	0.266	0.176	0.158
1998			0.487	0.381	0.322	0.267	0.195	0.200	0.165
1999		0.671	0.510	0.410	0.353	0.250	0.210	0.191	0.202
2000	1.335	0.686	0.491	0.404	0.297	0.231	0.228	0.241	0.179
2001	1.399	0.743	0.530	0.399	0.310	0.283	0.275	0.213	0.204
2002	1.453	0.688	0.429	0.372	0.335	0.324	0.263	0.237	0.190
2003	1.271	0.561	0.439	0.376	0.356	0.266	0.255	0.218	0.190
2004	1.051	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	0.260	0.226	0.188
2007	1.150	0.578	0.468	0.395	0.354	0.331	0.278	0.217	0.198
2008	1.186	0.571	0.492	0.432	0.385	0.319	0.261	0.215	0.190
2009	1.209	0.583	0.501	0.465	0.376	0.303	0.259	0.214	0.196
2010	1.230	0.596	0.542	0.443	0.376	0.333	0.287	0.239	0.244
2011	1.144	0.560	0.466	0.394	0.349	0.290	0.265	0.243	
2012	1.096	0.520	0.453	0.401	0.369	0.289	0.275		
2013	1.060	0.504	0.454	0.410	0.337	0.295			
2014	1.054	0.530	0.473	0.406	0.351				
2015	1.021	0.520	0.444	0.375					
2016	1.067	0.508	0.421						
2017	1.012	0.489							
2018	1.020								

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.

Comparison of Projected Loss Ratios as of September 30, 2019 Accident Year 2013 Projected to 81 Months[1]

Indemnity

<u>Methodology</u>		Based or	n Experience Eval	uated as of (in mo	onths):	
	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>69</u>	Current
3-Year Avg. Incurred	0.229	0.221	0.215	0.211	0.207	0.205
Latest Year Incurred	0.224	0.219	0.214	0.210	0.206	0.205
3-Year Avg. Paid	0.223	0.220	0.217	0.213	0.209	0.205
Latest Year Paid	0.219	0.218	0.216	0.213	0.208	0.205
Reform-Adj. Paid ^[2]	0.219	0.218	0.216	0.213	0.208	0.205
Latest Yr. Pd. Adj. for Settlement [3]	0.215	0.214	0.213	0.212	0.209	0.205
		Differ	ence from Actual 8	81-Month Loss Ra	atio	
	21	33	<u>45</u>	<u>57</u>	69	Current
3-Year Avg. Incurred	11.7%	8.2%	5.2%	3.0%	1.3%	0.0%
Latest Year Incurred	9.5%	7.1%	4.7%	2.7%	0.9%	0.0%
3-Year Avg. Paid	8.9%	7.7%	6.0%	4.2%	2.1%	0.0%
Latest Year Paid	6.8%	6.4%	5.6%	4.0%	1.8%	0.0%
Reform-Adj. Paid ^[2]	6.8%	6.4%	5.6%	4.0%	1.8%	0.0%
Latest Yr. Pd. Adj. for Settlement [3]	4.9%	4.6%	4.3%	3.4%	1.9%	0.0%
			Medi	cal		
		Based or	n Experience Eval	uated as of (in mo	onths):	
	21	33	45	57	69	Current
3-Year Avg. Incurred	0.325	0.306	0.290	0.277	0.266	0.257
Latest Year Incurred	0.308	0.298	0.284	0.275	0.265	0.257
3-Year Avg. Paid	0.281	0.280	0.275	0.270	0.264	0.257
Latest Year Paid	0.285	0.283	0.278	0.273	0.265	0.257
Reform-Adj. Paid [2]	0.277	0.278	0.274	0.270	0.263	0.257
Latest Yr. Pd. Adj. for Settlement [3]	0.282	0.280	0.276	0.272	0.265	0.257
		Differ	ence from Actual 8	81-Month Loss Ra	atio	
	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>69</u>	Current
3-Year Avg. Incurred	26.2%	19.0%	12.7%	7.8%	3.4%	0.0%
Latest Year Incurred	19.8%	15.9%	10.4%	6.9%	2.8%	0.0%
3-Year Avg. Paid	9.1%	8.8%	6.7%	5.0%	2.5%	0.0%
Latest Year Paid	10.8%	9.9%	8.0%	6.0%	2.8%	0.0%
Reform-Adj. Paid ^[2]	7.8%	7.9%	6.6%	5.1%	2.3%	0.0%
Latest Yr. Pd. Adj. for Settlement [3]	9.7%	8.8%	7.1%	5.5%	2.9%	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 using 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 includes adjustments for reforms. See [2] above.

Comparison of Projected Loss Ratios as of September 30, 2019 Accident Year 2014 Projected to 69 Months[1]

Indemnity

Methodology		Based on Exper	rience Evaluated as c	of (in months):	
	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	Current
3-Year Avg. Incurred	0.196	0.197	0.196	0.194	0.191
Latest Year Incurred	0.189	0.193	0.194	0.194	0.191
3-Year Avg. Paid	0.196	0.200	0.199	0.195	0.191
Latest Year Paid	0.192	0.197	0.197	0.195	0.191
Reform-Adj. Paid ^[2]	0.192	0.197	0.197	0.195	0.191
Latest Yr. Pd. Adj. for Settlement [3]	0.188	0.193	0.194	0.193	0.191
		Difference from	om Actual 69-Month I	Loss Ratio	
	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	Current
3-Year Avg. Incurred	2.8%	3.3%	2.6%	1.5%	0.0%
Latest Year Incurred	-1.2%	0.9%	1.6%	1.3%	0.0%
3-Year Avg. Paid	2.6%	4.7%	4.1%	2.1%	0.0%
Latest Year Paid	0.5%	3.3%	3.3%	1.9%	0.0%
Reform-Adj. Paid [2]	0.5%	3.3%	3.3%	1.9%	0.0%
Latest Yr. Pd. Adj. for Settlement [3]	-1.8%	1.3%	1.8%	1.1%	0.0%
			Medical		
		Based on Exper	rience Evaluated as c	of (in months):	
	21	33	<u>45</u>	<u>57</u>	Current
3-Year Avg. Incurred	0.260	0.250	0.242	0.231	0.224
Latest Year Incurred	0.241	0.239	0.237	0.229	0.224
3-Year Avg. Paid	0.245	0.243	0.238	0.231	0.224
Latest Year Paid	0.239	0.238	0.235	0.230	0.224
Reform-Adj. Paid [2]	0.238	0.238	0.234	0.230	0.224
Latest Yr. Pd. Adj. for Settlement [3]	0.236	0.235	0.233	0.229	0.224
		Difference from	om Actual 69-Month l	Loss Ratio	
	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	Current
3-Year Avg. Incurred	16.0%	11.6%	7.8%	3.0%	0.0%
Latest Year Incurred	7.2%	6.6%	5.8%	2.0%	0.0%
3-Year Avg. Paid	9.1%	8.1%	6.0%	3.1%	0.0%
Latest Year Paid	6.7%	6.2%	4.6%	2.5%	0.0%
Reform-Adj. Paid ^[2]	6.2%	6.1%	4.5%	2.4%	0.0%
Latest Yr. Pd. Adj. for Settlement [3]	5.3%	4.9%	3.7%	2.0%	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 using 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 includes adjustments for reforms. See [2] above.

Comparison of Projected Loss Ratios as of September 30, 2019 Accident Year 2015 Projected to 57 Months[1]

Indemnity

Methodology		Based on Experience Eval	uated as of (in months):	
	<u>21</u>	33	<u>45</u>	Current
3-Year Avg. Incurred	0.188	0.188	0.185	0.181
Latest Year Incurred	0.188	0.186	0.185	0.181
3-Year Avg. Paid	0.186	0.188	0.186	0.181
Latest Year Paid	0.188	0.186	0.184	0.181
Reform-Adj. Paid [2]	0.188	0.186	0.184	0.181
Latest Yr. Pd. Adj. for Settlement [3]	0.184	0.183	0.183	0.181
		Difference from Actual	57-Month Loss Ratio	
	21	33	<u>45</u>	Current
3-Year Avg. Incurred	3.6%	3.5%	2.0%	0.0%
Latest Year Incurred	3.5%	2.7%	1.7%	0.0%
3-Year Avg. Paid	2.6%	3.5%	2.3%	0.0%
Latest Year Paid	3.5%	2.7%	1.6%	0.0%
Reform-Adj. Paid [2]	3.5%	2.7%	1.6%	0.0%
Latest Yr. Pd. Adj. for Settlement [3]	1.2%	1.0%	0.6%	0.0%
		Medic	cal	
		Based on Experience Eval	uated as of (in months):	
_	21	33	45	Current
3-Year Avg. Incurred	0.227	0.224	0.218	0.209
Latest Year Incurred	0.218	0.218	0.215	0.209
3-Year Avg. Paid	0.224	0.220	0.215	0.209
Latest Year Paid	0.219	0.217	0.214	0.209
Reform-Adj. Paid [2]	0.222	0.219	0.215	0.209
Latest Yr. Pd. Adj. for Settlement [3]	0.216	0.215	0.212	0.209
		Difference from Actual	57-Month Loss Ratio	
	<u>21</u>	<u>33</u>	45	Current
3-Year Avg. Incurred	9.0%	7.5%	4.4%	0.0%
Latest Year Incurred	4.4%	4.5%	3.1%	0.0%
3-Year Avg. Paid	7.1%	5.7%	3.2%	0.0%
Latest Year Paid	5.1%	4.2%	2.5%	0.0%
Reform-Adj. Paid [2]	6.3%	5.1%	2.9%	0.0%
Latest Yr. Pd. Adj. for Settlement [3]	3.6%	3.0%	1.7%	0.0%
Latest 11. Pd. Adj. for Settlement 17	3.6%	3.0%	1.7%	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 using 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 includes adjustments for reforms. See [2] above.

Comparison of Projected Loss Ratios as of September 30, 2019 Accident Year 2016 Projected to 45 Months[1]

Indemnity

Methodology	Based on Experience	Evaluated as of (in months):						
	<u>21</u>	<u>33</u>	Current					
3-Year Avg. Incurred	0.169	0.166	0.163					
Latest Year Incurred	0.170	0.167	0.163					
3-Year Avg. Paid	0.170	0.167	0.163					
Latest Year Paid	0.171	0.167	0.163					
Reform-Adj. Paid [2]	0.171	0.167	0.163					
Latest Yr. Pd. Adj. for Settlement [3]	0.166	0.164	0.163					
	Difference from Actual 45-Month Loss Ratio							
	21	33	Current					
3-Year Avg. Incurred	3.6%	2.0%	0.0%					
Latest Year Incurred	4.2%	2.4%	0.0%					
3-Year Avg. Paid	4.4%	2.3%	0.0%					
Latest Year Paid	4.8%	2.3%	0.0%					
Reform-Adj. Paid [2]	4.8%	2.3%	0.0%					
Latest Yr. Pd. Adj. for Settlement [3]	2.0%	0.7%	0.0%					
	I	Medical						
	Based on Experience	Evaluated as of (in months):						
	<u>21</u>	33	Current					
3-Year Avg. Incurred	0.201	0.197	0.189					
Latest Year Incurred	0.201	0.197	0.189					
3-Year Avg. Paid	0.203	0.197	0.189					
Latest Year Paid	0.200	0.195	0.189					
Reform-Adj. Paid [2]	0.201	0.196	0.189					
Latest Yr. Pd. Adj. for Settlement [3]	0.198	0.194	0.189					
	Difference from A	ctual 45-Month Loss Ratio						
	<u>21</u>	33	Current					
3-Year Avg. Incurred	6.4%	4.3%	0.0%					
Latest Year Incurred	6.1%	4.1%	0.0%					
3-Year Avg. Paid	7.2%	4.1%	0.0%					
Latest Year Paid	5.7%	3.4%	0.0%					
Reform-Adj. Paid [2]	6.4%	3.9%	0.0%					
Latest Yr. Pd. Adj. for Settlement [3]	4.7%	2.8%	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 using 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 includes adjustments for reforms. See [2] above.

Comparison of Projected Loss Ratios as of September 30, 2019 Accident Year 2017 Projected to 33 Months[1]

Indemnity

<u>Methodology</u>	Based on Experience Evaluated as of (in months):	
	<u>21</u>	Current
3-Year Avg. Incurred	0.156	0.152
Latest Year Incurred	0.154	0.152
3-Year Avg. Paid	0.156	0.152
Latest Year Paid	0.153	0.152
Reform-Adj. Paid [2]	0.153	0.152
Latest Yr. Pd. Adj. for Settlement [3]	0.151	0.152
	Difference from Actual 33-Month Loss Ratio	
	<u>21</u>	Current
3-Year Avg. Incurred	2.8%	0.0%
Latest Year Incurred	1.2%	0.0%
3-Year Avg. Paid	2.7%	0.0%
Latest Year Paid	0.7%	0.0%
Reform-Adj. Paid ^[2]	0.7%	0.0%
Latest Yr. Pd. Adj. for Settlement ^[3]	-0.9%	0.0%
	Medical	
	Based on Experience Evaluated as of (in months):	
	<u>21</u>	Current
3-Year Avg. Incurred	0.192	0.185
Latest Year Incurred	0.189	0.185
3-Year Avg. Paid	0.193	0.185
Latest Year Paid	0.190	0.185
Reform-Adj. Paid [2]	0.190	0.185
Latest Yr. Pd. Adj. for Settlement [3]	0.189	0.185
	Difference from Actual 33-Month Loss Ratio	
	<u>21</u>	<u>Current</u>
3-Year Avg. Incurred	3.3%	0.0%
Latest Year Incurred	1.9%	0.0%
3-Year Avg. Paid	4.1%	0.0%
Latest Year Paid	2.3%	0.0%
Reform-Adj. Paid [2] Latest Yr. Pd. Adj. for Settlement [3]	2.7% 2.0%	0.0% 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 using 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 includes adjustments for reforms. See [2] above.

Average Incurred Indemnity Loss per Reported Indemnity Claim As of September 30, 2019

Accident						f (in mont				
<u>Year</u>	9	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>69</u>	<u>81</u>	<u>93</u>	<u>105</u>	<u>117</u>
1994									12,495	12,593
1995								14,178	14,389	14,505
1996							16,096	16,411	16,631	16,682
1997						18,147	18,605	18,936	18,961	18,989
1998					19,429	20,261	20,766	20,874	20,893	20,998
1999				19,936	21,276	22,060	22,349	22,430	22,609	22,710
2000			18,807	21,290	22,544	22,954	23,124	23,454	23,644	23,776
2001		14,652	20,444	22,937	24,156	24,628	25,211	25,548	25,867	26,048
2002	9,666	15,056	19,817	21,678	22,451	23,268	23,689	24,055	24,296	24,567
2003	10,249	15,205	19,444	21,030	22,302	23,069	23,685	24,119	24,586	24,988
2004	9,683	13,207	15,512	17,079	17,834	18,639	19,158	19,734	20,110	20,420
2005	7,731	10,504	13,255	14,700	15,834	16,646	17,386	17,962	18,274	18,498
2006	7,557	10,994	14,334	16,136	17,387	18,420	19,172	19,624	19,898	20,065
2007	7,409	11,722	15,585	17,690	18,936	19,960	20,677	21,240	21,472	21,713
2008	7,688	12,722	16,953	19,543	21,100	22,051	22,712	23,132	23,434	23,607
2009	7,957	13,273	17,589	20,298	21,909	22,933	23,517	23,932	24,297	24,530
2010	7,913	13,030	17,461	19,897	21,382	22,269	22,882	23,297	23,576	23,867
2011	7,994	13,493	17,587	19,939	21,129	21,916	22,436	22,854	23,126	
2012	8,264 8,480	13,518 13,445	17,411	19,331 19,130	20,630 20,199	21,520	21,991 21,395	22,429		
2013 2014	8,494	13,443	17,056		21,077	20,906 21,767	21,393			
2014	8,665	14,009	17,584 18,231	19,818 20,320	21,077	21,707				
2015	8,811	14,009	17,948	19,847	21,391					
2017	8,944	14,388	18,316	19,047						
2018	9,448	15,090	10,510							
2019	9,894	13,030								
2010	0,001									
Accident					Ann	ual Chan	ge			
<u>Year</u>	<u>9</u>	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>69</u>	<u>81</u>	<u>93</u>	<u>105</u>	<u>117</u>
1995									15.2%	15.2%
1996								15.7%	15.6%	15.0%
1997							15.6%	15.4%	14.0%	13.8%
1998						11.6%	11.6%	10.2%	10.2%	10.6%
1999					9.5%	8.9%	7.6%	7.5%	8.2%	8.2%
2000				6.8%	0.00/				0.2 70	
2001				0.070	6.0%	4.1%	3.5%	4.6%	4.6%	4.7%
2002			8.7%	7.7%	7.2%	7.3%	9.0%	4.6% 8.9%	4.6% 9.4%	4.7% 9.6%
2003		2.8%	-3.1%	7.7% -5.5%	7.2% -7.1%	7.3% -5.5%	9.0% -6.0%	4.6% 8.9% -5.8%	4.6% 9.4% -6.1%	4.7% 9.6% -5.7%
	6.0%	1.0%	-3.1% -1.9%	7.7% -5.5% -3.0%	7.2% -7.1% -0.7%	7.3% -5.5% -0.9%	9.0% -6.0% 0.0%	4.6% 8.9% -5.8% 0.3%	4.6% 9.4% -6.1% 1.2%	4.7% 9.6% -5.7% 1.7%
2004	-5.5%	1.0% -13.1%	-3.1% -1.9% -20.2%	7.7% -5.5% -3.0% -18.8%	7.2% -7.1% -0.7% -20.0%	7.3% -5.5% -0.9% -19.2%	9.0% -6.0% 0.0% -19.1%	4.6% 8.9% -5.8% 0.3% -18.2%	4.6% 9.4% -6.1% 1.2% -18.2%	4.7% 9.6% -5.7% 1.7% -18.3%
2004 2005	-5.5% -20.2%	1.0% -13.1% -20.5%	-3.1% -1.9% -20.2% -14.6%	7.7% -5.5% -3.0% -18.8% -13.9%	7.2% -7.1% -0.7% -20.0% -11.2%	7.3% -5.5% -0.9% -19.2% -10.7%	9.0% -6.0% 0.0% -19.1% -9.2%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4%
2004 2005 2006	-5.5% -20.2% -2.3%	1.0% -13.1% -20.5% 4.7%	-3.1% -1.9% -20.2% -14.6% 8.1%	7.7% -5.5% -3.0% -18.8% -13.9% 9.8%	7.2% -7.1% -0.7% -20.0% -11.2% 9.8%	7.3% -5.5% -0.9% -19.2% -10.7%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5%
2004 2005 2006 2007	-5.5% -20.2% -2.3% -2.0%	1.0% -13.1% -20.5% 4.7% 6.6%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7%	7.7% -5.5% -3.0% -18.8% -13.9% 9.8% 9.6%	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9%	7.3% -5.5% -0.9% -19.2% -10.7% 10.7% 8.4%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 7.8%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3% 8.2%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.2%
2004 2005 2006 2007 2008	-5.5% -20.2% -2.3% -2.0% 3.8%	1.0% -13.1% -20.5% 4.7% 6.6% 8.5%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8%	7.7% -5.5% -3.0% -18.8% -13.9% 9.8% 9.6% 10.5%	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9% 11.4%	7.3% -5.5% -0.9% -19.2% -10.7% 10.7% 8.4% 10.5%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 7.8% 9.8%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3% 8.2% 8.9%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9% 9.1%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.2% 8.7%
2004 2005 2006 2007 2008 2009	-5.5% -20.2% -2.3% -2.0% 3.8% 3.5%	1.0% -13.1% -20.5% 4.7% 6.6% 8.5% 4.3%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8% 3.8%	7.7% -5.5% -3.0% -18.8% -13.9% 9.8% 9.6% 10.5% 3.9%	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9% 11.4% 3.8%	7.3% -5.5% -0.9% -19.2% -10.7% 10.7% 8.4% 10.5% 4.0%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 7.8% 9.8% 3.5%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3% 8.2% 8.9% 3.5%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9% 9.1% 3.7%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.2% 8.7% 3.9%
2004 2005 2006 2007 2008 2009 2010	-5.5% -20.2% -2.3% -2.0% 3.8% 3.5% -0.6%	1.0% -13.1% -20.5% 4.7% 6.6% 8.5% 4.3% -1.8%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8% 3.8% -0.7%	7.7% -5.5% -3.0% -18.8% -13.9% 9.8% 9.6% 10.5% 3.9% -2.0%	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9% 11.4% 3.8% -2.4%	7.3% -5.5% -0.9% -19.2% -10.7% 10.7% 8.4% 10.5% 4.0% -2.9%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 7.8% 9.8% 3.5% -2.7%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3% 8.2% 8.9% 3.5% -2.7%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9% 9.1% 3.7% -3.0%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.2% 8.7% 3.9%
2004 2005 2006 2007 2008 2009 2010 2011	-5.5% -20.2% -2.3% -2.0% 3.8% 3.5% -0.6% 1.0%	1.0% -13.1% -20.5% 4.7% 6.6% 8.5% 4.3% -1.8% 3.6%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8% 3.8% -0.7% 0.7%	7.7% -5.5% -3.0% -18.8% -13.9% 9.8% 9.6% 10.5% 3.9% -2.0% 0.2%	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9% 11.4% 3.8% -2.4% -1.2%	7.3% -5.5% -0.9% -19.2% -10.7% 10.7% 8.4% 10.5% 4.0% -2.9% -1.6%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 7.8% 9.8% 3.5% -2.7% -2.0%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3% 8.2% 8.9% 3.5% -2.7% -1.9%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9% 9.1% 3.7%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.2% 8.7% 3.9%
2004 2005 2006 2007 2008 2009 2010 2011 2012	-5.5% -20.2% -2.3% -2.0% 3.8% 3.5% -0.6% 1.0% 3.4%	1.0% -13.1% -20.5% 4.7% 6.6% 8.5% 4.3% -1.8% 3.6% 0.2%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8% -0.7% 0.7% -1.0%	7.7% -5.5% -3.0% -18.8% -13.9% 9.8% 9.6% 10.5% 3.9% -2.0% 0.2% -3.0%	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9% 11.4% 3.8% -2.4% -1.2%	7.3% -5.5% -0.9% -19.2% -10.7% 10.7% 8.4% 10.5% 4.0% -2.9% -1.6% -1.8%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 7.8% 9.8% 3.5% -2.7% -2.0%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3% 8.2% 8.9% 3.5% -2.7%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9% 9.1% 3.7% -3.0%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.2% 8.7% 3.9%
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	-5.5% -20.2% -2.3% -2.0% 3.8% 3.5% -0.6% 1.0% 3.4% 2.6%	1.0% -13.1% -20.5% 4.7% 6.6% 8.5% 4.3% -1.8% 3.6% 0.2% -0.5%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8% -0.7% -1.0% -2.0%	7.7% -5.5% -3.0% -18.8% -13.9% 9.6% 10.5% 3.9% -2.0% 0.2% -3.0% -1.0%	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9% 11.4% 3.8% -2.4% -1.2% -2.4% -2.1%	7.3% -5.5% -0.9% -19.2% -10.7% 10.7% 8.4% 10.5% 4.0% -2.9% -1.6% -1.8% -2.9%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 7.8% 9.8% 3.5% -2.7% -2.0%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3% 8.2% 8.9% 3.5% -2.7% -1.9%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9% 9.1% 3.7% -3.0%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.2% 8.7% 3.9%
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014	-5.5% -20.2% -2.3% -2.0% 3.8% 3.5% -0.6% 1.0% 3.4% 2.6% 0.2%	1.0% -13.1% -20.5% 4.7% 6.6% 8.5% 4.3% -1.8% 3.6% 0.2% -0.5% -0.3%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8% -0.7% 0.7% -1.0% -2.0% 3.1%	7.7% -5.5% -3.0% -18.8% -13.9% 9.8% 9.6% 10.5% 3.9% -2.0% 0.2% -3.0% -1.0% 3.6%	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9% 11.4% 3.8% -2.4% -1.2% -2.4% -2.1% 4.3%	7.3% -5.5% -0.9% -19.2% -10.7% 10.7% 8.4% 10.5% 4.0% -2.9% -1.6% -1.8%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 7.8% 9.8% 3.5% -2.7% -2.0%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3% 8.2% 8.9% 3.5% -2.7% -1.9%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9% 9.1% 3.7% -3.0%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.2% 8.7% 3.9%
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015	-5.5% -20.2% -2.3% -2.0% 3.8% 3.5% -0.6% 1.0% 3.4% 2.6% 0.2% 2.0%	1.0% -13.1% -20.5% 4.7% 6.6% 8.5% 4.3% -1.8% 3.6% 0.2% -0.5% -0.3% 4.5%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8% -0.7% 0.7% -1.0% -2.0% 3.1% 3.7%	7.7% -5.5% -3.0% -18.8% -13.9% 9.8% 9.6% 10.5% 3.9% -2.0% 0.2% -3.0% -1.0% 3.6% 2.5%	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9% 11.4% 3.8% -2.4% -1.2% -2.4% -2.1%	7.3% -5.5% -0.9% -19.2% -10.7% 10.7% 8.4% 10.5% 4.0% -2.9% -1.6% -1.8% -2.9%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 7.8% 9.8% 3.5% -2.7% -2.0%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3% 8.2% 8.9% 3.5% -2.7% -1.9%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9% 9.1% 3.7% -3.0%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.2% 8.7% 3.9%
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	-5.5% -20.2% -2.3% -2.0% 3.8% 3.5% -0.6% 1.0% 3.4% 2.6% 0.2% 2.0% 1.7%	1.0% -13.1% -20.5% 4.7% 6.6% 8.5% 4.3% -1.8% 0.2% -0.5% -0.3% 4.5% 0.6%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8% -0.7% 0.7% -1.0% -2.0% 3.1% 3.7% -1.6%	7.7% -5.5% -3.0% -18.8% -13.9% 9.8% 9.6% 10.5% 3.9% -2.0% 0.2% -3.0% -1.0% 3.6%	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9% 11.4% 3.8% -2.4% -1.2% -2.4% -2.1% 4.3%	7.3% -5.5% -0.9% -19.2% -10.7% 10.7% 8.4% 10.5% 4.0% -2.9% -1.6% -1.8% -2.9%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 7.8% 9.8% 3.5% -2.7% -2.0%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3% 8.2% 8.9% 3.5% -2.7% -1.9%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9% 9.1% 3.7% -3.0%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.2% 8.7% 3.9%
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	-5.5% -20.2% -2.3% -2.0% 3.8% 3.5% -0.6% 1.0% 2.6% 0.2% 2.0% 1.7% 1.5%	1.0% -13.1% -20.5% 4.7% 6.6% 8.5% 4.3% -1.8% 0.2% -0.5% -0.3% 4.5% 0.6% 2.1%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8% -0.7% 0.7% -1.0% -2.0% 3.1% 3.7%	7.7% -5.5% -3.0% -18.8% -13.9% 9.8% 9.6% 10.5% 3.9% -2.0% 0.2% -3.0% -1.0% 3.6% 2.5%	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9% 11.4% 3.8% -2.4% -1.2% -2.4% -2.1% 4.3%	7.3% -5.5% -0.9% -19.2% -10.7% 10.7% 8.4% 10.5% 4.0% -2.9% -1.6% -1.8% -2.9%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 7.8% 9.8% 3.5% -2.7% -2.0%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3% 8.2% 8.9% 3.5% -2.7% -1.9%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9% 9.1% 3.7% -3.0%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.2% 8.7% 3.9%
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	-5.5% -20.2% -2.3% -2.0% 3.8% 3.5% -0.6% 1.0% 2.6% 0.2% 2.0% 1.7% 1.5% 5.6%	1.0% -13.1% -20.5% 4.7% 6.6% 8.5% 4.3% -1.8% 0.2% -0.5% -0.3% 4.5% 0.6%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8% -0.7% 0.7% -1.0% -2.0% 3.1% 3.7% -1.6%	7.7% -5.5% -3.0% -18.8% -13.9% 9.8% 9.6% 10.5% 3.9% -2.0% 0.2% -3.0% -1.0% 3.6% 2.5%	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9% 11.4% 3.8% -2.4% -1.2% -2.4% -2.1% 4.3%	7.3% -5.5% -0.9% -19.2% -10.7% 10.7% 8.4% 10.5% 4.0% -2.9% -1.6% -1.8% -2.9%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 7.8% 9.8% 3.5% -2.7% -2.0%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3% 8.2% 8.9% 3.5% -2.7% -1.9%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9% 9.1% 3.7% -3.0%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.2% 8.7% 3.9%
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	-5.5% -20.2% -2.3% -2.0% 3.8% 3.5% -0.6% 1.0% 2.6% 0.2% 2.0% 1.7% 1.5%	1.0% -13.1% -20.5% 4.7% 6.6% 8.5% 4.3% -1.8% 0.2% -0.5% -0.3% 4.5% 0.6% 2.1%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8% -0.7% 0.7% -1.0% -2.0% 3.1% 3.7% -1.6%	7.7% -5.5% -3.0% -18.8% -13.9% 9.8% 9.6% 10.5% 3.9% -2.0% 0.2% -3.0% -1.0% 3.6% 2.5%	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9% 11.4% 3.8% -2.4% -1.2% -2.4% -2.1% 4.3%	7.3% -5.5% -0.9% -19.2% -10.7% 10.7% 8.4% 10.5% 4.0% -2.9% -1.6% -1.8% -2.9%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 7.8% 9.8% 3.5% -2.7% -2.0%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3% 8.2% 8.9% 3.5% -2.7% -1.9%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9% 9.1% 3.7% -3.0%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.2% 8.7% 3.9%
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	-5.5% -20.2% -2.3% -2.0% 3.8% 3.5% -0.6% 1.0% 2.6% 0.2% 2.0% 1.7% 1.5% 5.6%	1.0% -13.1% -20.5% 4.7% 6.6% 8.5% 4.3% -1.8% 0.2% -0.5% -0.3% 4.5% 0.6% 2.1%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8% -0.7% 0.7% -1.0% -2.0% 3.1% 3.7% -1.6%	7.7% -5.5% -3.0% -18.8% -13.9% 9.6% 10.5% 3.9% -2.0% 0.2% -3.0% -1.0% 3.6% 2.5% -2.3%	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9% 11.4% 3.8% -2.4% -1.2% -2.4% -2.1% 4.3%	7.3% -5.5% -0.9% -19.2% -10.7% 8.4% 10.5% 4.0% -2.9% -1.6% -1.8% -2.9% 4.1%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 7.8% 9.8% 3.5% -2.7% -2.0%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3% 8.2% 8.9% 3.5% -2.7% -1.9%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9% 9.1% 3.7% -3.0%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.2% 8.7% 3.9%
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	-5.5% -20.2% -2.3% -2.0% 3.8% 3.5% -0.6% 1.0% 2.6% 0.2% 2.0% 1.7% 1.5% 5.6%	1.0% -13.1% -20.5% 4.7% 6.6% 8.5% 4.3% -1.8% 0.2% -0.5% -0.3% 4.5% 0.6% 2.1%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8% -0.7% 0.7% -1.0% -2.0% 3.1% 3.7% -1.6%	7.7% -5.5% -3.0% -18.8% -13.9% 9.6% 10.5% 3.9% -2.0% 0.2% -3.0% -1.0% 3.6% 2.5% -2.3%	7.2% -7.1% -0.7% -20.0% -11.2% -8.9% 11.4% 3.8% -2.4% -1.2% -2.4% -2.1% 4.3% 1.5%	7.3% -5.5% -0.9% -19.2% -10.7% 8.4% 10.5% 4.0% -2.9% -1.6% -1.8% -2.9% 4.1%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 7.8% 9.8% 3.5% -2.7% -2.0%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3% 8.2% 8.9% 3.5% -2.7% -1.9%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9% 9.1% 3.7% -3.0%	4.7% 9.6% -5.7% 1.7%
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	-5.5% -20.2% -2.3% -2.0% 3.8% 3.5% -0.6% 1.0% 3.4% 2.6% 0.2% 2.0% 1.7% 1.5% 5.6% 4.7%	1.0% -13.1% -20.5% 4.7% 6.6% 8.5% 4.3% -1.8% 3.6% 0.2% -0.5% -0.3% 4.5% 0.6% 2.1% 4.9%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8% -0.7% -1.0% -2.0% 3.1% 3.7% -1.6% 2.1%	7.7% -5.5% -3.0% -18.8% -13.9% 9.6% 10.5% 3.9% -2.0% 0.2% -3.0% -1.0% 3.6% 2.5% -2.3%	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9% 11.4% 3.8% -2.4% -1.2% -2.1% 4.3% 1.5%	7.3% -5.5% -0.9% -19.2% -10.7% 10.7% 8.4% 10.5% 4.0% -2.9% -1.6% -2.9% 4.1%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 7.8% 9.8% -2.7% -2.0% -2.0%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 8.2% 8.2% 8.9% 3.5% -2.7% -1.9%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9% 9.1% 3.7% -3.0% -1.9%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.7% 3.9% -2.7%
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	-5.5% -20.2% -2.3% -2.0% 3.8% -0.6% 1.0% 3.4% 2.6% 0.2% 2.0% 1.7% 5.6% 4.7%	1.0% -13.1% -20.5% 4.7% 6.6% 8.5% 4.3% -1.8% 0.2% -0.5% -0.3% 4.5% 0.6% 2.1% 4.9%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8% -0.7% -1.0% -2.0% 3.1% 3.7% -1.6% 2.1%	7.7% -5.5% -3.0% -18.8% -13.9% 9.6% 10.5% 3.9% -2.0% 0.2% -3.0% -1.0% 3.6% 2.5% -2.3% Ani -0.1% 0.003	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9% 11.4% 3.8% -2.4% -1.2% -2.1% 4.3% 1.5%	7.3% -5.5% -0.9% -19.2% -10.7% 10.7% 8.4% 10.5% 4.0% -2.9% -1.6% -1.8% -2.9% 4.1%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 9.8% 3.5% -2.7% -2.0% -2.7%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3% 8.9% 3.5% -2.7% -1.9% -1.9%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9% 9.1% 3.7% -3.0% -1.9%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.7% 3.9% -2.7%
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 All-Year R ² 5-Year	-5.5% -20.2% -2.3% -2.0% 3.8% 3.5% -0.6% 1.0% 3.4% 2.6% 0.2% 2.0% 1.7% 1.5% 5.6% 4.7% 0.6% 0.082	1.0% -13.1% -20.5% 4.7% 6.6% 8.5% 4.3% -1.8% 3.6% 0.2% -0.5% -0.3% 4.5% 0.6% 2.1% 4.9%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8% -0.7% -1.0% -2.0% 3.1% 3.7% -1.6% 2.1%	7.7% -5.5% -3.0% -18.8% -13.9% 9.6% 10.5% 3.9% -2.0% 0.2% -3.0% -1.0% 3.6% 2.5% -2.3%	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9% 11.4% 3.8% -2.4% -1.2% -2.1% 4.3% 1.5%	7.3% -5.5% -0.9% -19.2% -10.7% 10.7% 8.4% 10.5% 4.0% -2.9% -1.6% -1.8% -2.9% 4.1%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 9.8% 3.5% -2.7% -2.0% -2.7%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 9.3% 8.9% 3.5% -2.7% -1.9% -1.9%	4.6% 9.4% -6.1% 1.2% -18.2% -9.1% 8.9% 7.9% 9.1% 3.7% -3.0% -1.9%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.2% 8.7% -2.7%
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	-5.5% -20.2% -2.3% -2.0% 3.8% -0.6% 1.0% 3.4% 2.6% 0.2% 2.0% 1.7% 5.6% 4.7%	1.0% -13.1% -20.5% 4.7% 6.6% 8.5% 4.3% -1.8% 0.2% -0.5% -0.3% 4.5% 0.6% 2.1% 4.9%	-3.1% -1.9% -20.2% -14.6% 8.1% 8.7% 8.8% -0.7% -1.0% -2.0% 3.1% 3.7% -1.6% 2.1%	7.7% -5.5% -3.0% -18.8% -13.9% 9.6% 10.5% 3.9% -2.0% 0.2% -3.0% -1.0% 3.6% 2.5% -2.3% Ani -0.1% 0.003	7.2% -7.1% -0.7% -20.0% -11.2% 9.8% 8.9% 11.4% 3.8% -2.4% -1.2% -2.1% 4.3% 1.5%	7.3% -5.5% -0.9% -19.2% -10.7% 10.7% 10.5% 4.0% -2.9% -1.6% -2.9% 4.1% -2.9% 4.1%	9.0% -6.0% 0.0% -19.1% -9.2% 10.3% 7.8% 9.8% -2.7% -2.0% -2.0% -2.7%	4.6% 8.9% -5.8% 0.3% -18.2% -9.0% 8.2% 8.2% 8.9% 3.5% -2.7% -1.9% -1.9%	4.6% 9.4% -6.1% 1.2% -9.1% 8.9% 7.9% 9.1% 3.7% -3.0% -1.9%	4.7% 9.6% -5.7% 1.7% -18.3% -9.4% 8.5% 8.7% 3.9% -2.7%

^{*}Trend is based on an exponential distribution.

Average Incurred Medical Loss per Reported Claim As of September 30, 2019

Accident					Evaluated	as of (in	months):			
Year	9	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>69</u>	<u>81</u>	<u>93</u>	<u>105</u>	<u>117</u>
1998									18,934	19,559
1999								20,579	21,397	22,100
2000							22,299	23,259	24,041	24,436
2001						24,729	25,709	26,863	28,044	29,003
2002					23,595	24,720	25,933	26,978	27,875	28,684
2003				21,625	22,845	24,385	25,532	26,595	27,686	28,541
2004			17,520	19,417	21,168	22,604	24,042	25,159	26,058	26,782
2005	40.000	15,534	18,261	20,221	21,724	23,606	24,985	26,223	27,250	27,589
2006	12,980	16,724	20,469	22,875	24,771	26,515	27,944	29,106	29,765	30,142
2007	13,813	18,461	22,663	25,472	27,662	29,603	31,175	32,268	32,859	33,120
2008	14,820	20,390 21,310	24,614	27,822 29,480	30,503 32,381	32,482	33,804	34,722	35,137	35,275 36,444
2009 2010	15,983 16,102	21,310	26,082 26,029	29,460	31,774	34,224 33,215	35,269 34,124	35,938 34,530	36,237 34,790	35,170
2010	16,102	21,110	25,523	28,436	30,324	31,356	31,930	32,202	32,442	35,170
2011	16,459	21,229	24,534	26,470	27,906	28,904	29,355	29,777	32,442	
2012	16,105	20,292	22,980	24,820	25,874	26,423	26,859	23,111		
2014	15,951	19,408	22,160	23,922	24,781	25,519	20,000			
2015	16,302	19,523	22,335	23,894	24,594	20,0.0				
2016	16,263	19,705	22,029	22,997	,					
2017	17,229	20,108	22,322	,						
2018	17,698	21,045								
2019	17,728									
Accident_		24	22	45		ual Chan		02	105	117
<u>Year</u>	<u>9</u>	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>69</u>	<u>81</u>	<u>93</u>	<u>105</u>	<u>117</u>
1999										13.0%
2000								13.0%	12.4%	10.6%
2001						0.00/	15.3%	15.5%	16.7%	18.7%
2002					2.20/	0.0%	0.9%	0.4%	-0.6%	-1.1%
2003				-10.2%	-3.2%	-1.4%	-1.5%	-1.4%	-0.7%	-0.5%
2004 2005			4.2%	4.1%	-7.3% 2.6%	-7.3% 4.4%	-5.8% 3.9%	-5.4% 4.2%	-5.9% 4.6%	-6.2% 3.0%
2005		7.7%	12.1%	13.1%	14.0%	12.3%	11.8%	11.0%	9.2%	9.3%
2007	6.4%	10.4%	10.7%	11.4%	11.7%	11.6%	11.6%	10.9%	10.4%	9.9%
2008	7.3%	10.4%	8.6%	9.2%	10.3%	9.7%	8.4%	7.6%	6.9%	6.5%
2009	7.9%	4.5%	6.0%	6.0%	6.2%	5.4%	4.3%	3.5%	3.1%	3.3%
2010	0.7%	-0.9%	-0.2%	0.5%	-1.9%	-2.9%	-3.2%	-3.9%	-4.0%	-3.5%
2011	-0.5%	0.6%	-1.9%	-4.0%	-4.6%	-5.6%	-6.4%	-6.7%	-6.7%	
2012	2.8%	-1.0%	-3.9%	-6.9%	-8.0%	-7.8%	-8.1%	-7.5%		
2013	-2.1%	-3.4%	-6.3%	-6.2%	-7.3%	-8.6%	-8.5%			
2014	-1.0%	-4.4%	-3.6%	-3.6%	-4.2%	-3.4%				
2015	2.2%	0.6%	0.8%	-0.1%	-0.8%					
2016	-0.2%	0.9%	-1.4%	-3.8%						
2017	5.9%	2.0%	1.3%							
2018	2.7%	4.7%								
2019	0.2%									
				Δηι	nual Trend	-1 *				
All-Year	1.5%	0.7%	0.5%	1.0%	1.4%	1.7%	2.1%	2.9%	3.7%	4.5%
R ²	0.753	0.139	0.035	0.084	0.143	0.217	0.360	0.633	0.795	0.845
5-Year	2.6%	1.9%	-0.6%	-3.1%	-5.2%	-6.7%	-6.7%	-4.1%	-0.4%	4.1%
R^2	0.877	0.854	0.389	0.906	0.921	0.985	0.974	0.773	0.014	0.726

^{*}Trend is based on an exponential distribution.

Average Indemnity Case Outstanding per Open Indemnity Claim As of September 30, 2019

Accident				Evalu	uated as o	of (in mon	ths):			
<u>Year</u>	9	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	69	<u>81</u>	<u>93</u>	<u>105</u>	<u>117</u>
1994									25,767	27,837
1995								27,264	30,413	31,167
1996							29,212	32,228	33,519	32,221
1997						28,267	31,523	33,024	32,002	34,991
1998					25,989	29,733	32,159	31,981	32,346	33,600
1999				23,004	26,161	27,553	27,974	28,517	30,243	31,186
2000			20,490	23,043	23,926	23,509	24,070	25,009	25,799	26,829
2001		15,635	19,765	19,968	19,456	19,590	20,817	22,003	23,718	24,805
2002	9,769	15,954	17,722	16,627	16,051	17,482	18,066	19,093	20,316	22,327
2003	10,315	14,968	15,527	15,044	16,306	17,872	20,268	22,604	26,272	30,092
2004	9,763	12,426	12,777	13,929	15,047	17,463	19,062	22,464	24,601	27,473
2005	7,432	9,237	10,945	12,171	14,391	16,602	20,289	23,651	25,667	27,606
2006	6,937	9,729	12,026	14,285	16,628	19,584	22,011	24,604	26,302	27,558
2007	6,677	10,200	13,122	15,599	17,373	19,389	22,258	25,855	27,761	30,289
2008	6,825	10,853	13,808	16,205	17,918	19,824	22,541	25,018	29,048	31,828
2009	7,104	11,401	13,928	16,207	18,236	20,408	22,227	24,919	27,993	30,921
2010	7,088	11,062	13,932	15,527	17,365	18,980	21,122	24,070	26,688	30,876
2011	7,214	11,784	14,136	16,484	18,219	20,098	22,434	25,737	27,743	
2012	7,478	11,721	14,205	15,428	17,696	19,874	22,805	27,125		
2013	7,676	11,621	13,694	15,296	16,607	18,946	22,903			
2014	7,728	11,621	14,261	16,314	19,293	21,981				
2015	7,959	12,371	15,716	18,279	21,143					
2016	8,033	12,742	16,044	18,758						
2017	8,336	13,718	17,735							
2018	8,862	14,589								
2019	9,243									
Accident					Annual (Change				
Year	9	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>69</u>	<u>81</u>	93	<u>105</u>	<u>117</u>
1995									18.0%	12.0%
1996								18.2%	10.2%	3.4%
1997							7.9%	2.5%	-4.5%	8.6%
1998						5.2%	2.0%	-3.2%	1.1%	-4.0%
1999					0.7%	-7.3%	-13.0%	-10.8%	-6.5%	-7.2%
2000				0.2%	-8.5%	-14.7%	-14.0%	-12.3%	-14.7%	-14.0%
2001			-3.5%	-13.3%	-18.7%	-16.7%	-13.5%	-12.0%	-8.1%	-7.5%
2002		2.0%	-10.3%	-16.7%	-17.5%	-10.8%	-13.2%	-13.2%	-14.3%	-10.0%
2003	5.6%	-6.2%	-12.4%	-9.5%	1.6%	2.2%	12.2%	18.4%	29.3%	34.8%
2004	-5.4%	-17.0%	-17.7%	-7.4%	-7.7%	-2.3%	-6.0%	-0.6%	-6.4%	-8.7%
2005	-23.9%	-25.7%	-14.3%	-12.6%	-4.4%	-4.9%	6.4%	5.3%	4.3%	0.5%
2006	-6.7%	5.3%	9.9%	17.4%	15.5%	18.0%	8.5%	4.0%	2.5%	-0.2%
2007	-3.7%	4.8%	9.1%	9.2%	4.5%	-1.0%	1.1%	5.1%	5.5%	9.9%
2008	2.2%	6.4%	5.2%	3.9%	3.1%	2.2%	1.3%	-3.2%	4.6%	5.1%
2009	4.1%	5.0%	0.9%	0.0%	1.8%	2.9%	-1.4%	-0.4%	-3.6%	-2.9%
2010	-0.2%	-3.0%	0.0%	-4.2%	-4.8%	-7.0%	-5.0%	-3.4%	-4.7%	-0.1%
2011	1.8%	6.5%	1.5%	6.2%	4.9%	5.9%	6.2%	6.9%	4.0%	
2012	3.7%	-0.5%	0.5%	-6.4%	-2.9%	-1.1%	1.7%	5.4%		
2013	2.6%	-0.9%	-3.6%	-0.9%	-6.2%	-4.7%	0.4%			
2014	0.7%	0.0%	4.1%	6.7%	16.2%	16.0%				
2015	3.0%	6.5%	10.2%	12.0%	9.6%					
2016	0.9%	3.0%	2.1%	2.6%						
2017	3.8%	7.7%	10.5%							
2018	6.3%	6.4%								
2019	4.3%									
				Δn	nual Tren	d*				
All-Year	0.3%	0.4%	0.2%	-0.2%	-0.5%	-1.2%	-1.4%	-1.1%	-0.9%	-0.2%
R ²	0.012	0.017	0.003	0.004	0.033	0.146	0.198	0.145	0.127	0.011
	5.01 <u>L</u>	0.017	0.000	J.00 F	0.000	3.110	5.100	5.110	J. 121	3.011
5-Year	4.1%	5.7%	6.6%	5.9%	3.9%	2.4%	1.4%	2.0%	-0.9%	2.5%
R^2	0.951	0.986	0.967	0.896	0.441	0.376	0.444	0.473	0.203	0.505

^{*}Trend is based on an exponential distribution.

Average Medical Case Outstanding per Open Indemnity Claim As of September 30, 2019

Accident _ Year	9	21	33	Evalu	<u>57</u>	of (in mont	ns): <u>81</u>	93	105	<u>117</u>
	<u>9</u>	<u> 21</u>	<u> 33</u>	43	<u>31</u>	<u>09</u>	01	93		
1994									37,739	45,866
1995							04.044	36,975	47,526	54,520
1996						00.400	31,611	38,009	43,561	48,115
1997					04.540	26,438	35,428	43,682	50,184	59,532
1998				17.000	24,518	33,609	41,704	47,336	55,469	70,021
1999 2000			15,333	17,966 19,834	24,206 24,121	30,849 29,044	36,869 34,642	44,086 45,137	58,235 54,072	71,203 61,398
2001		12,782	15,844	18,383	21,409	26,006	31,907	40,810	54,072	66,244
2002	11,383	13,718	15,296	17,200	19,680	24,659	31,767	40,315	49,278	60,239
2003	12,126	13,167	14,626	16,766	20,283	27,350	35,398	43,656	55,555	68,178
2004	11,678	12,462	13,817	17,575	23,344	29,741	37,987	47,399	56,566	68,739
2005	12,234	13,124	16,355	20,319	24,419	32,602	40,990	51,704	62,440	68,732
2006	11,435	14,395	18,706	23,496	28,881	36,160	43,860	54,552	63,314	69,772
2007	12,551	15,748	20,307	25,422	31,674	38,563	47,989	58,219	66,713	75,063
2008	12,858	17,127	21,109	26,245	32,638	40,057	48,631	58,102	67,527	74,618
2009	13,947	17,675	22,256	26,941	33,570	40,115	47,150	56,101	63,803	72,697
2010	14,122	17,693	22,691	27,735	32,732	38,624	45,242	51,061	57,634	67,866
2011	14,743	19,319	23,698	29,020	35,734	40,954	47,793	54,994	62,653	
2012	15,521	19,365	23,351	26,751	31,800	38,037	45,270	53,999		
2013	14,802	18,922	21,888	25,901	30,319	35,787	43,693			
2014	14,811	17,881	20,991	25,089	29,920	36,906				
2015	15,220	18,289	22,803	28,259	33,993					
2016	15,151	18,991	23,472	28,228						
2017	16,378	20,126	25,339							
2018	16,858	21,517								
2019	17,191									
ccident					Annual (Change				
Year	9	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	69	<u>81</u>	<u>93</u>	<u>105</u>	<u>117</u>
1995									25.9%	18.9%
1996								2.8%	-8.3%	-11.7%
1997							12.1%	14.9%	15.2%	23.7%
1998						27.1%	17.7%	8.4%	10.5%	17.6%
1999					-1.3%	-8.2%	-11.6%	-6.9%	5.0%	1.7%
2000				10.4%	-0.3%	-5.8%	-6.0%	2.4%	-7.1%	-13.8%
2001			3.3%	-7.3%	-11.2%	-10.5%	-7.9%	-9.6%	-0.1%	7.9%
2002		7.3%	-3.5%	-6.4%	-8.1%	-5.2%	-0.4%	-1.2%	-8.8%	-9.1%
2003	6.5%	-4.0%	-4.4%	-2.5%	3.1%	10.9%	11.4%	8.3%	12.7%	13.2%
2004	-3.7%	-5.4%	-5.5%	4.8%	15.1%	8.7%	7.3%	8.6%	1.8%	0.8%
2005	4.8%	5.3%	18.4%	15.6%	4.6%	9.6%	7.9%	9.1%	10.4%	0.0%
2006	-6.5%	9.7%	14.4%	15.6%	18.3%	10.9%	7.0%	5.5%	1.4%	1.5%
2007	9.8%	9.4%	8.6%	8.2%	9.7%	6.6%	9.4%	6.7%	5.4%	7.6%
2008	2.4%	8.8%	4.0%	3.2%	3.0%	3.9%	1.3%	-0.2%	1.2%	-0.6%
2009	8.5%	3.2%	5.4%	2.7%	2.9%	0.1%	-3.0%	-3.4%	-5.5%	-2.6%
2010	1.3%	0.1%	2.0%	2.9%	-2.5%	-3.7%	-4.0%	-9.0%	-9.7%	-6.6%
2011	4.4%	9.2%	4.4%	4.6%	9.2%	6.0%	5.6%	7.7%	8.7%	
2012	5.3%	0.2%	-1.5%	-7.8%	-11.0%	-7.1%	-5.3%	-1.8%		
2013	-4.6%	-2.3%	-6.3%	-3.2%	-4.7%	-5.9%	-3.5%			
2014	0.1%	-5.5%	-4.1%	-3.1%	-1.3%	3.1%				
2015	2.8%	2.3%	8.6%	12.6%	13.6%					
2016	-0.4% 8.1%	3.8% 6.0%	2.9%	-0.1%						
2017	8.1%	6.0%	8.0%							
2018 2019	2.9% 2.0%	6.9%								
_0.0	2.070									
111 V	0.50/	2.40/	2 40/		nual Tren		2.20/	2.00/	2.00/	0.00
All-Year R ²	2.5% 0.911	3.1% 0.837	3.4% 0.773	3.3%	3.2% 0.649	2.3%	2.2%	2.2% 0.661	2.0%	2.2%
К	0.911	0.837	0.773	0.720	0.049	0.512	0.551	0.001	0.649	0.595
5-Year	3.6%	4.8%	4.1%	2.0%	-1.6%	-2.2%	-1.5%	-1.7%	-2.8%	-0.9%
0	0.007	0.000		0.244	0.113	0.494	0.446	0.301	0.510	0.404
R^2	0.907	0.962	0.800	0.344	0.113	0.494	0.440	0.301	0.510	0.101

^{*}Trend is based on an exponential distribution.

Average Paid Indemnity Loss per Reported Indemnity Claim As of September 30, 2019

Accident				Evalu	uated as o	of (in mon	ths):			
Year	9	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	69	<u>81</u>	<u>93</u>	<u>105</u>	<u>117</u>
1994									11,659	11,802
1995								12,946	13,235	13,450
1996							14,188	14,708	15,090	15,382
1997						15,441	16,253	16,883	17,303	17,506
1998					15,590	16,899	17,889	18,583	18,987	19,388
1999				14,589	16,894	18,527	19,591	20,211	20,744	21,149
2000			11,365	15,299	17,912	19,536	20,475	21,301	21,879	22,286
2001		6,155	12,111	16,566	19,566	21,277	22,496	23,322	23,935	24,381
2002	1,968	6,139	11,909	16,176	18,756	20,338	21,426	22,178	22,682	23,097
2003	2,035	6,278	12,099	16,166	18,598	20,140	21,164	21,881	22,481	23,025
2004	1,959	5,934	10,040	12,938	14,698	15,900	16,780	17,517	18,159	18,748
2005	1,888	5,445	8,884	11,332	12,954	14,072	14,929	15,669	16,360	16,878
2006	2,016	5,712	9,617	12,164	13,975	15,332	16,433	17,288	17,962	18,406
2007	2,122	6,176	10,326	13,201	15,246	16,762	17,946	18,862	19,470	20,044
2008 2009	2,321 2,363	6,700 6,726	11,212 11,544	14,643 15,154	17,079 17,725	18,795 19,523	20,000 20,780	20,849 21,707	21,457 22,427	21,945 22,979
2010	2,332	6,708	11,515	15,185	17,723	19,363	20,780	21,707	22,053	22,559
2010	2,372	6,819	11,704	15,174	17,463	19,074	20,219	21,088	21,752	22,000
2012	2,457	6,920	11,689	15,050	17,484	18,979	20,003	20,772	21,702	
2013	2,464	6,929	11,645	15,144	17,371	18,780	19,666	20,2		
2014	2,437	6,956	12,158	15,807	18,097	19,514	.0,000			
2015	2,437	7,281	12,621	16,305	18,505	-,-				
2016	2,574	7,488	12,637	16,112	•					
2017	2,602	7,622	12,889							
2018	2,783	7,969								
2019	2,929									
A!-!4					A	01				
Accident_ <u>Year</u>	9	<u>21</u>	33	<u>45</u>	Annual (change 69	81	93	<u>105</u>	117
	<u>~</u>	=	<u> </u>	<u></u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		
1995								12 60/	13.5%	14.0%
1996 1997							1160/	13.6% 14.8%	14.0% 14.7%	14.4% 13.8%
1998						9.4%	14.6% 10.1%	10.1%	9.7%	10.7%
1999					8.4%	9.6%	9.5%	8.8%	9.3%	9.1%
2000				4.9%	6.0%	5.4%	4.5%	5.4%	5.5%	5.4%
2001			6.6%	8.3%	9.2%	8.9%	9.9%	9.5%	9.4%	9.4%
2002		-0.3%	-1.7%	-2.4%	-4.1%	-4.4%	-4.8%	-4.9%	-5.2%	-5.3%
2003	3.4%	2.3%	1.6%	-0.1%	-0.8%	-1.0%	-1.2%	-1.3%	-0.9%	-0.3%
2004	-3.7%	-5.5%	-17.0%	-20.0%	-21.0%	-21.1%	-20.7%	-19.9%	-19.2%	-18.6%
2005	-3.6%	-8.2%	-11.5%	-12.4%	-11.9%	-11.5%	-11.0%	-10.6%	-9.9%	-10.0%
2006	6.8%	4.9%	8.3%	7.3%	7.9%	9.0%	10.1%	10.3%	9.8%	9.1%
2007	5.3%	8.1%	7.4%	8.5%	9.1%	9.3%	9.2%	9.1%	8.4%	8.9%
2008	9.4%	8.5%	8.6%	10.9%	12.0%	12.1%	11.4%	10.5%	10.2%	9.5%
2009	1.8%	0.4%	3.0%	3.5%	3.8%	3.9%	3.9%	4.1%	4.5%	4.7%
2010	-1.3%	-0.3%	-0.2%	0.2%	-0.2%	-0.8%	-0.9%	-1.3%	-1.7%	-1.8%
2011	1.7%	1.7%	1.6%	-0.1%	-1.3%	-1.5%	-1.8%	-1.6%	-1.4%	
2012	3.6%	1.5%	-0.1%	-0.8%	-1.0%	-0.5%	-1.1%	-1.5%		
2013	0.3%	0.1%	-0.4%	0.6% 4.4%	0.5% 4.2%	-1.1%	-1.7%			
2014 2015	-1.1% 0.0%	0.4% 4.7%	4.4% 3.8%	4.4% 3.1%	4.2% 2.3%	3.9%				
2016	5.6%	2.8%	0.1%	-1.2%	2.570					
2017	1.1%	1.8%	2.0%	-1.270						
2018	7.0%	4.5%	2.070							
2019	5.3%									
						14				
All-Year	2.3%	1.9%	1.0%	An 0.5%	nual Tren 0.2%	d* 0.2%	0.4%	1.0%	1.7%	2.6%
R ²	0.899	0.807	0.241	0.046	0.2%	0.27	0.4%	0.137	0.276	0.397
13	0.033	0.007	0.241	0.040	0.000	0.007	0.032	0.137	0.270	0.381
5-Year	4.6%	3.2%	2.4%	2.1%	1.6%	0.0%	-1.4%	-0.4%	2.5%	5.6%
R^2	0.967	0.979	0.899	0.847	0.739	0.000	0.991	0.095	0.504	0.854

^{*}Trend is based on an exponential distribution.

Average Paid Medical Loss per Indemnity Claim As of September 30, 2019

Accident				Evalu	uated as o	of (in mon	ths):			
<u>Year</u>	<u>9</u>	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>69</u>	<u>81</u>	<u>93</u>	<u>105</u>	<u>117</u>
2001									22,423	23,334
2002								21,816	22,748	23,506
2003							19,823	20,953	21,906	22,761
2004						16,501	17,846	19,011	20,094	21,113
2005					15,156	16,853	18,310	19,486	20,861	21,818
2006				14,523	17,005	18,957	20,618	22,053	23,221	24,047
2007			12,625	16,223	18,973	21,275	23,306	24,922	26,040	26,964
2008		8,978	13,866	17,886	21,160	23,864	25,906	27,348	28,456	29,291
2009	3,595	9,278	14,499	18,988	22,707	25,529	27,445	28,896	29,928	30,743
2010	3,611	9,174	14,498	19,325	22,918	25,373	27,265	28,601	29,516	30,299
2011	3,191	8,572	13,918	18,281	21,335	23,743	25,356	26,560	27,453	
2012	3,108	8,424	13,423	17,318	20,135	22,248	23,593	24,644		
2013	3,285	8,101	12,713	16,410	19,006	20,679	21,816			
2014	3,056	7,810	12,459	15,992	18,373	19,934				
2015	3,107	7,887	12,467	15,919	18,151					
2016	3,167	8,090	12,452	15,526						
2017	3,358	8,300	12,636							
2018	3,519	8,593								
2019	3,321									
Accident					Annual (
<u>Year</u>	<u>9</u>	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>69</u>	<u>81</u>	<u>93</u>	<u>105</u>	<u>117</u>
2002									1.5%	0.7%
2003								-4.0%	-3.7%	-3.2%
2004							-10.0%	-9.3%	-8.3%	-7.2%
2005						2.1%	2.6%	2.5%	3.8%	3.3%
2006					12.2%	12.5%	12.6%	13.2%	11.3%	10.2%
2007				11.7%	11.6%	12.2%	13.0%	13.0%	12.1%	12.1%
2008			9.8%	10.3%	11.5%	12.2%	11.2%	9.7%	9.3%	8.6%
2009		3.3%	4.6%	6.2%	7.3%	7.0%	5.9%	5.7%	5.2%	5.0%
2010**	0.5%	-1.1%	0.0%	1.8%	0.9%	-0.6%	-0.7%	-1.0%	-1.4%	-1.4%
2011**	-11.6%	-6.6%	-4.0%	-5.4%	-6.9%	-6.4%	-7.0%	-7.1%	-7.0%	
2012**	-2.6%	-1.7%	-3.6%	-5.3%	-5.6%	-6.3%	-7.0%	-7.2%		
2013	5.7%	-3.8%	-5.3%	-5.2%	-5.6%	-7.1%	-7.5%			
2014	-7.0%	-3.6%	-2.0%	-2.5%	-3.3%	-3.6%				
2015	1.7%	1.0%	0.1%	-0.5%	-1.2%					
2016	1.9%	2.6%	-0.1%	-2.5%						
2017	6.0%	2.6%	1.5%							
2018	4.8%	3.5%								
2019	-5.6%									
All Vac:	0.40/	4.00/	4.00/		nual Tren		2.00/	4.40/	4.00/	2.00/
All-Year	0.1%	-1.2%	-1.8%	-1.6%	-0.4%	1.4%	3.2%	4.1%	4.2%	3.9%
R^2	0.005	0.362	0.776	0.370	0.012	0.102	0.372	0.610	0.709	0.688
5-Year	2 40/	2 = 0/	0.40/	2 50/	1 10/	6.00/	5 O0/	2 00/	1 40/	C 10/
5-Year R ²	2.4%	2.5%	-0.1%	-2.5%	-4.1%	-6.0%	-5.9%	-2.9%	1.4%	6.1%
K-	0.584	0.969	0.044	0.899	0.945	0.991	0.951	0.518	0.159	0.850

^{*}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.

Average Paid Medical Loss per Claim** As of September 30, 2019

Accident				Evalu	ıated as o	f (in mon	ths):			
Year	9	<u>21</u>	<u>33</u>	45	<u>57</u>	69	<u>81</u>	93	<u>105</u>	<u>117</u>
1998									5,048	5,225
1999								5,745	5,964	6,199
2000							6,234	6,526	6,845	7,076
2001						6,930	7,344	7,737	8,040	8,343
2002					6,824	7,333	7,824	8,192	8,519	8,779
2003				5,789	6,485	7,063	7,475	7,866	8,192	8,486
2004			3,718	4,535	5,193	5,695	6,122	6,485	6,821	7,140
2005		2,476	3,450	4,282	4,923	5,426	5,851	6,192	6,595	6,872
2006	1,167	2,596	3,816	4,734	5,459	6,023	6,503	6,920	7,257	7,504
2007	1,170	2,931	4,299	5,386	6,212	6,899	7,505	7,984	8,323	8,600
2008	1,423	3,297	4,852	6,114	7,141	7,987	8,624	9,084	9,428	9,693
2009	1,582	3,608	5,389	6,906	8,160	9,114	9,768	10,253	10,599	10,871
2010	1,592	3,709	5,610	7,323	8,593	9,471	10,138	10,609	10,930	11,203
2011	1,469	3,566	5,548	7,153	8,291	9,168	9,756	10,194	10,517	
2012	1,454	3,556	5,452	6,927	7,977	8,764	9,264	9,652		
2013	1,531	3,519	5,329	6,740	7,743	8,377	8,811			
2014	1,483	3,438	5,228	6,575	7,476	8,062				
2015 2016	1,511	3,476	5,243	6,540	7,378					
2016	1,541 1,596	3,579 3,557	5,279 5,171	6,449						
2017	1,670	3,699	5,171							
2019	1,606	3,099								
2013	1,000									
Accident					Annual C	Change				
Year	9	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>69</u>	<u>81</u>	<u>93</u>	<u>105</u>	<u>117</u>
1999										18.7%
2000								13.6%	14.8%	14.1%
2001							17.8%	18.6%	17.5%	17.9%
2002						5.8%	6.5%	5.9%	6.0%	5.2%
2003					-5.0%	-3.7%	-4.5%	-4.0%	-3.8%	-3.3%
2004				-21.7%	-19.9%	-19.4%	-18.1%	-17.6%	-16.7%	-15.9%
2005			-7.2%	-5.6%	-5.2%	-4.7%	-4.4%	-4.5%	-3.3%	-3.8%
2006		4.8%	10.6%	10.5%	10.9%	11.0%	11.2%	11.7%	10.0%	9.2%
2007	0.2%	12.9%	12.7%	13.8%	13.8%	14.5%	15.4%	15.4%	14.7%	14.6%
2008	21.6%	12.5%	12.9%	13.5%	15.0%	15.8%	14.9%	13.8%	13.3%	12.7%
2009	11.2%	9.4%	11.1%	12.9%	14.3%	14.1%	13.3%	12.9%	12.4%	12.2%
2010	0.6%	2.8%	4.1%	6.0%	5.3%	3.9%	3.8%	3.5%	3.1%	3.1%
2011	-7.7%	-3.9%	-1.1%	-2.3%	-3.5%	-3.2%	-3.8%	-3.9%	-3.8%	
2012	-1.0%	-0.3%	-1.7%	-3.2%	-3.8%	-4.4%	-5.0%	-5.3%		
2013	5.3%	-1.0%	-2.3%	-2.7%	-2.9%	-4.4%	-4.9%			
2014	-3.1%	-2.3% 1.1%	-1.9%	-2.4%	-3.5%	-3.8%				
2015 2016	1.9% 2.0%	3.0%	0.3% 0.7%	-0.5% -1.4%	-1.3%					
2017	3.6%	-0.6%	-2.0%	-1.470						
2018	4.6%	4.0%	-2.0 /0							
2019	-3.8%	4.070								
2010	0.070									
				_						
All Voor	1.5%	1.7%	2.8%		nual Trend 3.5%		2 20/	3.6%	1 10/	4.6%
All-Year R ²				3.6%		3.3%	3.3%		4.1% 0.625	
71	0.432	0.436	0.492	0.573	0.519	0.458	0.465	0.549	0.625	0.655
5-Year	2.0%	1.7%	-0.5%	-1.7%	-2.9%	-4.0%	-2.9%	1.2%	6.4%	10.9%
R ²	0.678	0.888	0.510	0.940	0.979	0.997	0.736	0.090	0.749	0.964

^{*}Trend is based on an exponential distribution.

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

Average Paid Indemnity Loss per Closed Indemnity Claim** As of September 30, 2019

Accident				Fvalı	uated as c	of (in mon	hs).			
Year	9	<u>21</u>	33	45	<u>57</u>	69	<u>81</u>	93	<u>105</u>	<u>117</u>
1994									10,593	10,801
1995								11,481	11,839	12,122
1996							12,385	12,908	13,341	13,743
1997						13,084	13,935	14,651	15,220	15,503
1998					12,564	13,986	15,206	16,141	16,637	17,194
1999				11,061	13,445	15,221	16,643	17,496	18,232	18,897
2000			6,689	10,920	13,944	16,023	17,432	18,244	19,179	19,895
2001		2,333	6,503	11,397	15,315	17,203	18,341	19,659	20,531	21,134
2002	1,001	2,089	6,475	11,650	14,715	16,363	17,945	18,938	19,675	20,211
2003	1,260	2,685	7,623	12,038	14,345	16,503	17,719	18,569	19,249	19,869
2004	937	2,739	6,265	8,987	11,509	12,893	13,858	14,645	15,422	16,308
2005 2006	965 1,223	2,439	4,697	7,801 8,435	9,894 10,520	11,124 12,033	12,089 13,294	12,962	13,996	14,771
2007	1,075	2,458 2,741	5,578 5,999	8,990	11,290	13,016	14,649	14,589 15,996	15,588 16,964	16,353 17,884
2007	1,206	3,141	6,508	9,894	12,583	14,929	16,668	17,982	18,983	19,811
2009	1,451	3,251	6,850	10,403	13,508	15,886	17,714	19,169	20,153	21,022
2010	1,206	3,229	6,979	10,895	13,972	16,263	18,000	19,346	20,267	20,990
2011	1,273	3,584	7,510	11,413	14,306	16,488	18,082	19,293	20,233	20,000
2012	1,458	3,925	8,102	11,818	14,512	16,620	18,030	19,154	-,	
2013	1,635	4,368	8,444	12,186	14,911	16,718	17,943	,		
2014	1,627	4,546	9,043	12,970	15,795	17,598				
2015	1,724	4,993	9,807	13,714	16,384					
2016	1,851	5,368	9,913	13,690						
2017	1,969	5,399	10,089							
2018	2,135	5,819								
2019	2,412									
Accident					Anr	nual Chan	ae			
Year	9	21	33	<u>45</u>	<u>57</u>	69	<u>81</u>	93	<u>105</u>	<u>117</u>
1995									11.8%	12 2%
1995 1996								12.4%	11.8% 12.7%	12.2% 13.4%
1996							12.5%	12.4% 13.5%	12.7%	13.4%
						6.9%	12.5% 9.1%	12.4% 13.5% 10.2%		
1996 1997					7.0%	6.9% 8.8%		13.5%	12.7% 14.1%	13.4% 12.8%
1996 1997 1998				-1.3%	7.0% 3.7%		9.1%	13.5% 10.2%	12.7% 14.1% 9.3%	13.4% 12.8% 10.9%
1996 1997 1998 1999 2000 2001			-2.8%	4.4%	3.7% 9.8%	8.8% 5.3% 7.4%	9.1% 9.5% 4.7% 5.2%	13.5% 10.2% 8.4% 4.3% 7.8%	12.7% 14.1% 9.3% 9.6% 5.2% 7.0%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2%
1996 1997 1998 1999 2000 2001 2002		-10.5%	-0.4%	4.4% 2.2%	3.7% 9.8% -3.9%	8.8% 5.3% 7.4% -4.9%	9.1% 9.5% 4.7% 5.2% -2.2%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7%	12.7% 14.1% 9.3% 9.6% 5.2% 7.0% -4.2%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4%
1996 1997 1998 1999 2000 2001 2002 2003	25.8%	28.5%	-0.4% 17.7%	4.4% 2.2% 3.3%	3.7% 9.8% -3.9% -2.5%	8.8% 5.3% 7.4% -4.9% 0.9%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -1.9%	12.7% 14.1% 9.3% 9.6% 5.2% 7.0% -4.2% -2.2%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -1.7%
1996 1997 1998 1999 2000 2001 2002 2003 2004	-25.6%	28.5% 2.0%	-0.4% 17.7% -17.8%	4.4% 2.2% 3.3% -25.4%	3.7% 9.8% -3.9% -2.5% -19.8%	8.8% 5.3% 7.4% -4.9% 0.9% -21.9%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3% -21.8%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -1.9% -21.1%	12.7% 14.1% 9.3% 9.6% 5.2% 7.0% -4.2% -2.2% -19.9%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -1.7%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005	-25.6% 2.9%	28.5% 2.0% -11.0%	-0.4% 17.7% -17.8% -25.0%	4.4% 2.2% 3.3% -25.4% -13.2%	3.7% 9.8% -3.9% -2.5% -19.8% -14.0%	8.8% 5.3% 7.4% -4.9% 0.9% -21.9% -13.7%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3% -21.8% -12.8%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -1.9% -21.1% -11.5%	12.7% 14.1% 9.3% 9.6% 5.2% 7.0% -4.2% -2.2% -19.9% -9.2%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -1.7% -17.9%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	-25.6% 2.9% 26.8%	28.5% 2.0% -11.0% 0.8%	-0.4% 17.7% -17.8% -25.0% 18.8%	4.4% 2.2% 3.3% -25.4% -13.2% 8.1%	3.7% 9.8% -3.9% -2.5% -19.8% -14.0% 6.3%	8.8% 5.3% 7.4% -4.9% 0.9% -21.9% -13.7% 8.2%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3% -21.8% -12.8% 10.0%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -1.9% -21.1% -11.5% 12.6%	12.7% 14.1% 9.3% 9.6% 5.2% 7.0% -4.2% -2.2% -19.9% -9.2% 11.4%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -1.7% -17.9% -9.4% 10.7%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	-25.6% 2.9% 26.8% -12.1%	28.5% 2.0% -11.0% 0.8% 11.5%	-0.4% 17.7% -17.8% -25.0% 18.8% 7.5%	4.4% 2.2% 3.3% -25.4% -13.2% 8.1% 6.6%	3.7% 9.8% -3.9% -2.5% -19.8% -14.0% 6.3% 7.3%	8.8% 5.3% 7.4% -4.9% 0.9% -21.9% -13.7% 8.2% 8.2%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3% -21.8% -12.8% 10.0% 10.2%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -1.9% -21.1% -11.5% 12.6% 9.6%	12.7% 14.1% 9.3% 9.6% 5.2% 7.0% -4.2% -2.2% -19.9% -9.2% 11.4% 8.8%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -1.7% -17.9% -9.4% 10.7% 9.4%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	-25.6% 2.9% 26.8% -12.1% 12.1%	28.5% 2.0% -11.0% 0.8% 11.5% 14.6%	-0.4% 17.7% -17.8% -25.0% 18.8% 7.5% 8.5%	4.4% 2.2% 3.3% -25.4% -13.2% 8.1% 6.6% 10.1%	3.7% 9.8% -3.9% -2.5% -19.8% -14.0% 6.3% 7.3% 11.5%	8.8% 5.3% 7.4% -4.9% 0.9% -21.9% -13.7% 8.2% 8.2% 14.7%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3% -21.8% -10.0% 10.2% 13.8%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -1.9% -21.1% -11.5% 12.6% 9.6% 12.4%	12.7% 14.1% 9.3% 9.6% 5.2% 7.0% -4.2% -2.2% -19.9% -9.2% 11.4% 8.8% 11.9%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -1.7% -9.4% 10.7% 9.4% 10.8%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	-25.6% 2.9% 26.8% -12.1% 12.1% 20.3%	28.5% 2.0% -11.0% 0.8% 11.5% 14.6% 3.5%	-0.4% 17.7% -17.8% -25.0% 18.8% 7.5% 8.5% 5.3%	4.4% 2.2% 3.3% -25.4% -13.2% 8.1% 6.6% 10.1% 5.1%	3.7% 9.8% -3.9% -2.5% -19.8% -14.0% 6.3% 7.3% 11.5% 7.4%	8.8% 5.3% 7.4% -4.9% 0.9% -21.9% -13.7% 8.2% 8.2% 14.7% 6.4%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3% -21.8% -12.8% 10.0% 10.2% 13.8% 6.3%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -11.9% -21.1% -11.5% 12.6% 9.6% 12.4% 6.6%	12.7% 14.1% 9.3% 9.6% 5.2% 7.0% -4.2% -2.2% -9.2% 11.4% 8.8% 11.9% 6.2%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -17.7% -9.4% 10.7% 9.4% 10.8% 6.1%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010	-25.6% 2.9% 26.8% -12.1% 12.1% 20.3% -16.9%	28.5% 2.0% -11.0% 0.8% 11.5% 14.6% 3.5% -0.7%	-0.4% 17.7% -17.8% -25.0% 18.8% 7.5% 8.5% 5.3% 1.9%	4.4% 2.2% 3.3% -25.4% -13.2% 8.1% 6.6% 10.1% 5.1% 4.7%	3.7% 9.8% -3.9% -2.5% -19.8% -14.0% 6.3% 7.3% 11.5% 7.4% 3.4%	8.8% 5.3% 7.4% -4.9% 0.9% -21.9% -13.7% 8.2% 8.2% 14.7% 6.4% 2.4%	9.1% 9.5% 4.7% 5.2% -2.2% -21.8% -21.8% 10.0% 10.2% 13.8% 6.3% 1.6%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -1.9% -21.1.% 12.6% 9.6% 12.4% 6.6% 0.9%	12.7% 14.1% 9.3% 9.6% 5.2% -4.2% -2.2% -19.9% -9.2% 11.4% 8.8% 6.2% 0.6%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -1.7% -9.4% 10.7% 9.4% 10.8%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011	-25.6% 2.9% 26.8% -12.1% 12.1% 20.3% -16.9% 5.5%	28.5% 2.0% -11.0% 0.8% 11.5% 14.6% 3.5% -0.7% 11.0%	-0.4% 17.7% -17.8% -25.0% 18.8% 7.5% 8.5% 5.3% 1.9% 7.6%	4.4% 2.2% 3.3% -25.4% -13.2% 8.1% 6.6% 10.1% 5.1% 4.7% 4.8%	3.7% 9.8% -3.9% -2.5% -19.8% -14.0% 6.3% 7.3% 11.5% 7.4% 3.4% 2.4%	8.8% 5.3% 7.4% -4.9% 0.9% -21.9% -13.7% 8.2% 8.2% 14.7% 6.4% 2.4% 1.4%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3% -21.8% 10.0% 10.2% 13.8% 6.3% 1.6% 0.5%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -11.9% -21.1% -11.5% 12.6% 9.6% 12.4% 6.6%	12.7% 14.1% 9.3% 9.6% 5.2% 7.0% -4.2% -2.2% -9.2% 11.4% 8.8% 11.9% 6.2%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -17.7% -9.4% 10.7% 9.4% 10.8% 6.1%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010	-25.6% 2.9% 26.8% -12.1% 12.1% 20.3% -16.9%	28.5% 2.0% -11.0% 0.8% 11.5% 14.6% 3.5% -0.7%	-0.4% 17.7% -17.8% -25.0% 18.8% 7.5% 8.5% 5.3% 1.9%	4.4% 2.2% 3.3% -25.4% -13.2% 8.1% 6.6% 10.1% 5.1% 4.7%	3.7% 9.8% -3.9% -2.5% -19.8% -14.0% 6.3% 7.3% 11.5% 7.4% 3.4%	8.8% 5.3% 7.4% -4.9% 0.9% -21.9% -13.7% 8.2% 8.2% 14.7% 6.4% 2.4%	9.1% 9.5% 4.7% 5.2% -2.2% -21.8% -21.8% 10.0% 10.2% 13.8% 6.3% 1.6%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -1.9% -21.1% 12.6% 12.4% 6.6% 0.9% -0.3%	12.7% 14.1% 9.3% 9.6% 5.2% -4.2% -2.2% -19.9% -9.2% 11.4% 8.8% 6.2% 0.6%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -17.7% -9.4% 10.7% 9.4% 10.8% 6.1%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	-25.6% 2.9% 26.8% -12.1% 12.1% 20.3% -16.9% 5.5% 14.6%	28.5% 2.0% -11.0% 0.8% 11.5% 14.6% 3.5% -0.7% 11.0% 9.5%	-0.4% 17.7% -17.8% -25.0% 18.8% 7.5% 8.5% 5.3% 1.9% 7.6% 7.9%	4.4% 2.2% 3.3% -25.4% -13.2% 8.1% 6.6% 10.1% 5.1% 4.7% 4.8% 3.5%	3.7% 9.8% -3.9% -2.5% -19.8% -14.0% 6.3% 7.3% 11.5% 7.4% 3.4% 2.4% 1.4%	8.8% 5.3% 7.4% -4.9% 0.9% -21.9% -13.7% 8.2% 8.2% 14.7% 6.4% 2.4% 1.4% 0.8%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3% -21.8% -12.8% 10.0% 10.2% 13.8% 6.3% 0.5% -0.3%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -1.9% -21.1% 12.6% 12.4% 6.6% 0.9% -0.3%	12.7% 14.1% 9.3% 9.6% 5.2% -4.2% -2.2% -19.9% -9.2% 11.4% 8.8% 6.2% 0.6%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -17.7% -9.4% 10.7% 9.4% 10.8% 6.1%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	-25.6% 2.9% 26.8% -12.1% 12.1% 20.3% -16.9% 5.5% 14.6% 12.1%	28.5% 2.0% -11.0% 0.8% 11.5% 14.6% 3.5% -0.7% 11.0% 9.5% 11.3%	-0.4% 17.7% -17.8% -25.0% 18.8% 7.5% 6.5% 5.3% 1.9% 7.6% 7.9% 4.2%	4.4% 2.2% 3.3% -25.4% -13.2% 8.1% 6.6% 10.1% 5.1% 4.7% 4.8% 3.5% 3.1%	3.7% 9.8% -3.9% -2.5% -19.8% -14.0% 6.3% 7.3% 71.4% 7.4% 2.4% 1.4% 2.7%	8.8% 5.3% 7.4% -4.9% -21.9% -13.7% 8.2% 8.2% 14.7% 6.4% 2.4% 0.8% 0.6%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3% -21.8% -12.8% 10.0% 10.2% 13.8% 6.3% 0.5% -0.3%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -1.9% -21.1% 12.6% 12.4% 6.6% 0.9% -0.3%	12.7% 14.1% 9.3% 9.6% 5.2% -4.2% -2.2% -19.9% -9.2% 11.4% 8.8% 6.2% 0.6%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -17.7% -9.4% 10.7% 9.4% 10.8% 6.1%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016	-25.6% 2.9% 26.8% -12.1% 12.1% 20.3% -16.9% 5.5% 14.6% 12.1% -0.5% 6.0% 7.4%	28.5% 2.0% -11.0% 0.8% 11.5% 14.6% 3.5% -0.7% 11.3% 4.1% 9.9% 7.5%	-0.4% 17.7% -17.8% -25.0% 18.8% 7.5% 8.5% 5.3% 1.9% 7.6% 7.9% 4.2% 7.1% 8.5% 1.1%	4.4% 2.2% 3.3% -25.4% -13.2% 8.1% 6.6% 10.1% 5.1% 4.7% 4.8% 3.5% 3.1% 6.4%	3.7% 9.8% -3.9% -2.5% -19.8% -14.0% 6.3% 7.3% 71.4% 7.4% 2.4% 1.4% 2.7% 5.9%	8.8% 5.3% 7.4% -4.9% -21.9% -13.7% 8.2% 8.2% 14.7% 6.4% 2.4% 0.8% 0.6%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3% -21.8% -12.8% 10.0% 10.2% 13.8% 6.3% 0.5% -0.3%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -1.9% -21.1% 12.6% 12.4% 6.6% 0.9% -0.3%	12.7% 14.1% 9.3% 9.6% 5.2% -4.2% -2.2% -19.9% -9.2% 11.4% 8.8% 6.2% 0.6%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -17.7% -9.4% 10.7% 9.4% 10.8% 6.1%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017	-25.6% 2.9% 26.8% -12.1% 12.1% 20.3% -16.9% 5.5% 14.6% 12.1% -0.5% 6.0% 7.4% 6.3%	28.5% 2.0% -11.0% 0.8% 11.5% 14.6% 3.5% -0.7% 11.0% 9.9% 4.1% 9.9% 7.5% 0.6%	-0.4% 17.7% -17.8% -25.0% 18.8% 7.5% 8.5% 5.3% 1.9% 7.6% 7.9% 4.2% 7.1% 8.5%	4.4% 2.2% 3.3% -25.4% 6.6% 10.1% 5.1% 4.7% 4.8% 3.5% 3.1% 6.4% 5.7%	3.7% 9.8% -3.9% -2.5% -19.8% -14.0% 6.3% 7.3% 71.4% 7.4% 2.4% 1.4% 2.7% 5.9%	8.8% 5.3% 7.4% -4.9% -21.9% -13.7% 8.2% 8.2% 14.7% 6.4% 2.4% 0.8% 0.6%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3% -21.8% -12.8% 10.0% 10.2% 13.8% 6.3% 0.5% -0.3%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -1.9% -21.1% 12.6% 12.4% 6.6% 0.9% -0.3%	12.7% 14.1% 9.3% 9.6% 5.2% -4.2% -2.2% -19.9% -9.2% 11.4% 8.8% 6.2% 0.6%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -17.7% -9.4% 10.7% 9.4% 10.8% 6.1%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	-25.6% 2.9% 26.8% -12.1% 12.1% 20.3% -16.9% 5.5% 14.6% -0.5% 6.0% 7.4% 6.3% 8.5%	28.5% 2.0% -11.0% 0.8% 11.5% 14.6% 3.5% -0.7% 11.3% 4.1% 9.9% 7.5%	-0.4% 17.7% -17.8% -25.0% 18.8% 7.5% 8.5% 5.3% 1.9% 7.6% 7.9% 4.2% 7.1% 8.5% 1.1%	4.4% 2.2% 3.3% -25.4% 6.6% 10.1% 5.1% 4.7% 4.8% 3.5% 3.1% 6.4% 5.7%	3.7% 9.8% -3.9% -2.5% -19.8% -14.0% 6.3% 7.3% 71.4% 7.4% 2.4% 1.4% 2.7% 5.9%	8.8% 5.3% 7.4% -4.9% -21.9% -13.7% 8.2% 8.2% 14.7% 6.4% 2.4% 0.8% 0.6%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3% -21.8% -12.8% 10.0% 10.2% 13.8% 6.3% 0.5% -0.3%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -1.9% -21.1% 12.6% 12.4% 6.6% 0.9% -0.3%	12.7% 14.1% 9.3% 9.6% 5.2% -4.2% -2.2% -19.9% -9.2% 11.4% 8.8% 6.2% 0.6%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -17.7% -9.4% 10.7% 9.4% 10.8% 6.1%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017	-25.6% 2.9% 26.8% -12.1% 12.1% 20.3% -16.9% 5.5% 14.6% 12.1% -0.5% 6.0% 7.4% 6.3%	28.5% 2.0% -11.0% 0.8% 11.5% 14.6% 3.5% -0.7% 11.0% 9.9% 4.1% 9.9% 7.5% 0.6%	-0.4% 17.7% -17.8% -25.0% 18.8% 7.5% 8.5% 5.3% 1.9% 7.6% 7.9% 4.2% 7.1% 8.5% 1.1%	4.4% 2.2% 3.3% -25.4% 6.6% 10.1% 5.1% 4.7% 4.8% 3.5% 3.1% 6.4% 5.7%	3.7% 9.8% -3.9% -2.5% -19.8% -14.0% 6.3% 7.3% 71.4% 7.4% 2.4% 1.4% 2.7% 5.9%	8.8% 5.3% 7.4% -4.9% -21.9% -13.7% 8.2% 8.2% 14.7% 6.4% 2.4% 0.8% 0.6%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3% -21.8% -12.8% 10.0% 10.2% 13.8% 6.3% 0.5% -0.3%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -1.9% -21.1% 12.6% 12.4% 6.6% 0.9% -0.3%	12.7% 14.1% 9.3% 9.6% 5.2% -4.2% -2.2% -19.9% -9.2% 11.4% 8.8% 6.2% 0.6%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -17.7% -9.4% 10.7% 9.4% 10.8% 6.1%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	-25.6% 2.9% 26.8% -12.1% 12.1% 20.3% -16.9% 5.5% 14.6% -0.5% 6.0% 7.4% 6.3% 8.5%	28.5% 2.0% -11.0% 0.8% 11.5% 14.6% 3.5% -0.7% 11.0% 9.9% 4.1% 9.9% 7.5% 0.6%	-0.4% 17.7% -17.8% -25.0% 18.8% 7.5% 8.5% 5.3% 1.9% 7.6% 7.9% 4.2% 7.1% 8.5% 1.1%	4.4% 2.2% 3.3% -25.4% -13.2% 8.1% 6.6% 10.1% 5.1% 4.7% 4.8% 3.5% 3.11% 6.4% 5.7% -0.2%	3.7% 9.8% -3.9% -2.5% -19.8% -14.0% 6.3% 7.3% 71.4% 7.4% 2.4% 1.4% 2.7% 5.9%	8.8% 5.3% 7.4% -4.9% 0.9% -21.9% -13.7% 8.2% 14.7% 6.4% 2.4% 1.4% 0.6% 5.3%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3% -21.8% -12.8% 10.0% 10.2% 13.8% 6.3% 0.5% -0.3%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -1.9% -21.1% 12.6% 12.4% 6.6% 0.9% -0.3%	12.7% 14.1% 9.3% 9.6% 5.2% -4.2% -2.2% -19.9% -9.2% 11.4% 8.8% 6.2% 0.6%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -17.7% -9.4% 10.7% 9.4% 10.8% 6.1%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	-25.6% 2.9% 26.8% -12.1% 12.1% 20.3% -16.9% 5.5% 14.6% -0.5% 6.0% 7.4% 6.3% 8.5%	28.5% 2.0% -11.0% 0.8% 11.5% 14.6% 3.5% -0.7% 11.0% 9.9% 4.1% 9.9% 7.5% 0.6%	-0.4% 17.7% -17.8% -25.0% 18.8% 7.5% 8.5% 5.3% 1.9% 7.6% 7.9% 4.2% 7.1% 8.5% 1.1%	4.4% 2.2% 3.3% -25.4% -13.2% 8.1% 6.6% 10.1% 5.1% 4.7% 4.8% 3.5% 3.11% 6.4% 5.7% -0.2%	3.7% 9.8% -3.9% -2.5% -19.8% -14.0% 6.3% 7.3% 11.5% 7.4% 3.4% 2.4% 1.4% 2.7% 5.9% 3.7%	8.8% 5.3% 7.4% -4.9% 0.9% -21.9% -13.7% 8.2% 14.7% 6.4% 2.4% 1.4% 0.6% 5.3%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3% -21.8% -12.8% 10.0% 10.2% 13.8% 6.3% 0.5% -0.3%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -1.9% -21.1% 12.6% 12.4% 6.6% 0.9% -0.3%	12.7% 14.1% 9.3% 9.6% 5.2% -4.2% -2.2% -19.9% -9.2% 11.4% 8.8% 6.2% 0.6%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -17.7% -9.4% 10.7% 9.4% 10.8% 6.1%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	-25.6% 2.9% 26.8% -12.1% 12.1% 20.3% -16.9% 14.6% 12.1% -0.5% 6.0% 7.4% 6.3% 8.5%	28.5% 2.0% -11.0% 0.8% 11.5% 14.6% 3.5% 11.0% 9.5% 11.3% 4.1% 9.9% 7.5% 0.6% 7.8%	-0.4% 17.7% -17.8% -25.0% 18.8% 7.5% 5.3% 1.9% 7.6% 7.9% 4.2% 7.1% 8.5% 1.1%	4.4% 2.2% 3.3% -25.4% -13.2% 6.6% 10.1% 5.1% 4.7% 4.8% 3.5% 3.1% 6.4% 5.7% -0.2%	3.7% 9.8% -3.9% -2.5% -14.0% -14.0% 7.3% 11.5% 7.4% 3.4% 2.4% 1.4% 2.7% 5.9% 3.7%	8.8% 5.3% 7.4% -4.9% 0.9% -21.9% 8.2% 8.2% 6.4% 2.4% 0.8% 0.6% 5.3%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3% -21.8% 10.0% 10.2% 13.8% 6.3% 10.5% -0.5%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -21.1% -11.5% 12.6% 9.6% 12.4% 6.6% -0.3% -0.7%	12.7% 14.1% 9.3% 9.6% 5.2% 7.0% -4.2% -19.9% -9.2% 11.4% 8.8% 11.9% 6.2% 0.6% -0.2%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -1.7% -17.9% 9.4% 10.7% 9.4% -0.2%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	-25.6% 2.9% 26.8% -12.1% 12.1% 20.3% -16.9% 5.5% 14.6% 12.1% -0.5% 6.0% 7.4% 6.3% 8.5% 13.0%	28.5% 2.0% -11.0% 0.8% 11.5% 14.6% 3.5% -0.7% 11.0% 9.5% 11.3% 4.1% 9.9% 7.5% 0.6% 7.8%	-0.4% 17.7% -17.8% -25.0% 18.8% 7.5% 5.3% 1.9% 7.6% 7.9% 4.2% 7.1% 8.5% 1.1% 1.8%	4.4% 2.2% 3.3% -25.4% 8.1% 6.6% 10.1% 5.1% 4.7% 4.8% 3.5% 6.4% 5.7% -0.2% An 1.7% 0.253	3.7% 9.8% -3.9% -2.5% -19.8% -14.0% 7.3% 11.5% 7.4% 3.4% 2.4% 1.4% 2.7% 3.7% 3.7%	8.8% 5.3% 7.4% -4.9% 0.9% -21.9% 8.2% 8.2% 14.7% 6.4% 2.4% 1.4% 0.6% 5.3% d*	9.1% 9.5% 4.7% 5.2% -2.2% -1.2.8% 10.0% 10.2% 13.8% 6.3% 1.6% -0.5% -0.5%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -11.5% 12.6% 9.6% 12.4% 6.6% 0.9% -0.3% -0.7%	12.7% 14.1% 9.3% 9.6% 5.2% 7.0% -4.2% -19.9% -9.2% 11.4% 8.8% 11.9% 6.2% 0.6% -0.2%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -1.7% -17.9% 9.4% 10.8% 6.1% -0.2%
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	-25.6% 2.9% 26.8% -12.1% 12.1% 20.3% -16.9% 14.6% 12.1% -0.5% 6.0% 7.4% 6.3% 8.5% 13.0%	28.5% 2.0% -11.0% 0.8% 11.5% 14.6% 3.5% 11.0% 9.5% 11.3% 4.1% 9.9% 7.5% 0.6% 7.8%	-0.4% 17.7% -17.8% -25.0% 18.8% 7.5% 8.5% 5.3% 1.9% 7.6% 7.9% 4.2% 7.1% 8.5% 1.1% 1.8%	4.4% 2.2% 3.3% -25.4% -13.2% 8.1% 6.6% 10.1% 5.1% 4.7% 4.8% 3.5% 3.1% 6.4% 5.7% -0.2%	3.7% 9.8% -3.9% -2.5% -14.0% 6.3% 7.3% 11.5% 7.4% 3.4% 2.4% 2.4% 5.9% 3.7%	8.8% 5.3% 7.4% -4.9% 0-21.9% -13.7% 8.2% 8.2% 6.4% 2.4% 0.8% 0.6% 5.3%	9.1% 9.5% 4.7% 5.2% -2.2% -1.3% -12.8% 10.0% 10.2% 13.8% 6.3% 1.6% 0.5% -0.5%	13.5% 10.2% 8.4% 4.3% 7.8% -3.7% -1.9% -21.1% -11.5% 12.6% 9.6% 12.4% 6.6% 0.9% -0.3% -0.7%	12.7% 14.1% 9.3% 9.6% 5.2% 7.0% -4.2% -2.2% -19.9% -9.2% 11.4% 8.8% 11.9% -0.2%	13.4% 12.8% 10.9% 9.9% 5.3% 6.2% -4.4% -1.7% -9.4% 10.7% 9.4% 6.1% -0.2%

^{*}Trend is based on an exponential distribution.

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

Average Paid Medical Loss per Closed Indemnity Claim*** As of September 30, 2019

Accident					Evaluated	l as of (in	months):			
Year	9	<u>21</u>	33	<u>45</u>	<u>57</u>	69	<u>81</u>	<u>93</u>	<u>105</u>	<u>117</u>
2001									18,243	19,094
2002								17,752	18,715	19,492
2003							15,842	16,866	17,735	18,576
2004						12,248	13,444	14,512	15,593	16,916
2005					10,585	12,156	13,432	14,668	16,271	17,634
2006				9,361	11,589	13,522	15,227	17,046	18,566	19,869
2007			7,266	10,303	12,865	15,079	17,397	19,530	21,225	22,828
2008		4,543	7,200	11,374	14,431	17,661	20,200	22,202	23,896	25,240
2009	3,022	4,699	8,314	12,274	16,113	19,407	22,143	24,292	25,843	27,348
2010	2,793	4,685	8,613	13,149	17,052	20,117	22,747	24,868	26,314	27,366
2011	1,784	4,180	8,444	12,871	16,456	19,694	21,916	23,711	25,019	21,000
2012	1,823	4,489	8,889	12,941	16,225	18,807	20,662	22,102	20,010	
2013	2,002	4,803	8,871	12,783	15,969	18,128	19,597	22,102		
2014	1,943	4,839	9,063	12,841	15,781	17,738	10,001			
2015	2,012	5,159	9,483	13,111	15,721	17,700				
2016	2,161	5,459	9,467	12,779	10,721					
2017	2,243	5,572	9,768	12,775						
2018	2,407	5,774	3,700							
2019	2,544	0,114								
2010	2,044									
Accident					Anr	nual Chan	ge			
<u>Year</u>	<u>9</u>	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>69</u>	<u>81</u>	<u>93</u>	<u>105</u>	<u>117</u>
2002									2.6%	2.1%
2003								-5.0%	-5.2%	-4.7%
2004							-15.1%	-14.0%	-12.1%	-8.9%
2005						-0.8%	-0.1%	1.1%	4.4%	4.2%
2006					9.5%	11.2%	13.4%	16.2%	14.1%	12.7%
2007				10.1%	11.0%	11.5%	14.2%	14.6%	14.3%	14.9%
2008			9.7%	10.4%	12.2%	17.1%	16.1%	13.7%	12.6%	10.6%
2009		3.4%	4.3%	7.9%	11.7%	9.9%	9.6%	9.4%	8.1%	8.3%
2010**	-7.6%	-0.3%	3.6%	7.1%	5.8%	3.7%	2.7%	2.4%	1.8%	0.1%
2011**	-36.1%	-10.8%	-2.0%	-2.1%	-3.5%	-2.1%	-3.7%	-4.7%	-4.9%	
2012**	2.2%	7.4%	5.3%	0.5%	-1.4%	-4.5%	-5.7%	-6.8%		
2013	9.8%	7.0%	-0.2%	-1.2%	-1.6%	-3.6%	-5.2%			
2014	-2.9%	0.7%	2.2%	0.5%	-1.2%	-2.2%				
2015	3.5%	6.6%	4.6%	2.1%	-0.4%					
2016	7.4%	5.8%	-0.2%	-2.5%						
2017	3.8%	2.1%	3.2%							
2018	7.3%	3.6%								
2019	5.7%									
					nual Tren					
All-Year	1.6%	3.0%	2.1%	1.9%	2.9%	4.3%	5.7%	6.1%	5.7%	5.1%
R^2	0.102	0.749	0.954	0.525	0.485	0.549	0.677	0.740	0.736	0.695
Г. V ::	E 00'	4.40/	0.40/	0.00/	4.00/	0.00/	0.00/	0.00/	4.00/	0.00/
5-Year	5.9%	4.4%	2.4%	0.0%	-1.2%	-3.3%	-3.3%	-0.3%	4.3%	8.6%
R^2	0.993	0.961	0.935	0.000	0.964	0.985	0.803	0.010	0.613	0.912

^{*}Trend is based on an exponential distribution.

Source: WCIRB quarterly calls for experience

^{**}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.

Ratio of Quarterly Paid Medical to Indemnity Claims Inventory* Through September 30, 2019

Developme					Eva	luation Year	s							
Period	<u>2006</u>	2007	2008	2009	<u>2010</u>	2011	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	2017	2018	2019
3/0	1,201	1,147	1,289	1,553	1,615	1,714	1,601	1,587	1,672	1,847	1,737	2,105	2,124	2,273
6/3	2,477	2,330	2,870	3,029	3,071	3,139	3,000	3,013	2,873	3,178	3,161	3,357	3,497	3,296
9/6	2,440	2,517	2,952	3,160	3,137	3,108	3,148	3,269	3,080	3,089	3,221	3,310	3,604	3,312
12/9	2,431	2,697	3,012	3,075	3,134	3,065	3,243	3,033	2,983	2,951	3,157	3,361	3,513	
12/0	4,839	5,103	6,035	6,228	6,172	6,076	6,139	6,065	5,902	5,997	6,232	6,547	6,844	
15/12	2,284	2,571	2,927	3,040	3,131	3,159	3,354	3,316	3,074	3,130	3,135	3,406	3,446	3,558
18/15	2,430	2,186	2,680	2,784	2,924	2,982	3,221	3,187	2,839	2,871	3,006	3,039	3,150	3,171
21/18	1,881	2,168	2,474	2,616	2,711	2,802	2,975	2,914	2,827	2,824	2,817	2,791	2,933	3,061
24/21	1,834	2,190	2,407	2,537	2,603	2,738	3,035	2,929	2,747	2,706	2,790	2,870	2,921	
24/12	6,360	7,576	8,762	9,141	9,420	9,576	10,215	9,966	9,299	9,274	9,359	9,483	9,685	
27/24	1,495	1,728	2,214	2,353	2,531	2,563	2,740	3,022	2,862	2,784	2,810	2,889	2,811	3,111
30/27	1,865	1,801	2,337	2,607	2,708	2,857	2,988	3,162	3,036	3,027	3,055	3,016	3,080	3,105
33/30	1,632	1,807	2,342	2,560	2,770	2,912	3,100	3,196	3,177	3,003	2,984	2,926	3,094	3,192
36/33	1,704	1,965	2,389	2,596	2,731	2,889	3,406	3,308	3,120	3,096	3,072	3,041	3,092	
36/24	5,540	6,452	8,158	8,942	9,452	9,861	10,661	11,007	10,483	10,161	10,091	9,885	9,910	
39/36	1,471	1,710	2,032	2,278	2,500	2,680	3,019	3,258	3,177	3,265	3,026	3,041	3,111	3,102
42/39	1,981	1,791	2,146	2,524	2,786	2,944	3,124	3,539	3,463	3,344	3,114	3,267	3,481	3,205
45/42	1,646	1,836	2,166	2,517	2,735	3,083	3,246	3,427	3,691	3,372	3,215	3,017	3,237	3,279
48/45	1,812	1,953	2,251	2,551	2,913	3,072	3,411	3,629	3,433	3,281	3,414	3,141	3,410	
48/36	5,551	6,360	7,478	8,645	9,621	10,316	11,224	12,024	11,867	11,391	10,771	10,478	10,940	
Developme	nt				Voor t	o-Year Cha	ngo							
Period	05-to-06	06-to-07	07-to-08	08-to-09	09-to-10	10-to-11	11-to-12	12-to-13	13-to-14	14-to-15	15-to-16	16-to-17	17-to-18	18-to-19
3/0	8.8%	-4.6%	12.4%	20.5%	4.0%	6.1%	-6.6%	-0.8%	5.4%	10.5%	-6.0%	21.2%	0.9%	7.0%
6/3	17.9%	-6.0%	23.2%	5.5%	1.4%	2.2%	-4.4%	0.4%	-4.6%	10.6%	-0.6%	6.2%	4.2%	-5.7%
9/6	19.1%	3.1%	17.3%	7.0%	-0.7%	-0.9%	1.3%	3.9%	-5.8%	0.3%	4.3%	2.8%	8.9%	-8.1%
12/9	11.8%	11.0%	11.7%	2.1%	1.9%									
12/0	13.0%	5.5%				-2.2%	5.8%	-6.5%	-1.6%	-1.1%	7.0%	6.5%	4.5%	
15/12			18.2%	3.2%	-0.9%	-2.2% -1.5%	5.8% 1.0%	-6.5% - 1.2%	-1.6% -2.7%	-1.1% 1.6%	7.0% 3.9%	6.5% 5.1%	4.5% 4.5%	
	1.2%	12.6%			-0.9%	-1.5%	1.0%	-1.2%	-2.7%	1.6%	3.9%	5.1%	4.5%	3.3%
18/15	1.2% 15.9%	12.6% -10.1%	13.8%	3.9%	-0.9% 3.0%	-1.5% 0.9%	1.0% 6.2%	-1.2% -1.1%	-2.7% -7.3%	1.6% 1.8%	3.9% 0.1%	5.1% 8.7%	4.5% 1.2%	
18/15 21/18	15.9%	-10.1%	13.8% 22.6%	3.9% 3.9%	-0.9% 3.0% 5.0%	-1.5% 0.9% 2.0%	1.0% 6.2% 8.0%	-1.2% -1.1% -1.1%	-2.7% -7.3% -10.9%	1.6% 1.8% 1.1%	3.9% 0.1% 4.7%	5.1% 8.7% 1.1%	4.5% 1.2% 3.7%	0.7%
21/18	15.9% 7.4%	-10.1% 15.3%	13.8% 22.6% 14.1%	3.9% 3.9% 5.8%	-0.9% 3.0% 5.0% 3.6%	-1.5% 0.9% 2.0% 3.4%	1.0% 6.2% 8.0% 6.2%	-1.2% -1.1% -1.1% -2.1%	-2.7% -7.3% -10.9% -3.0%	1.6% 1.8% 1.1% -0.1%	3.9% 0.1% 4.7% -0.3%	5.1% 8.7% 1.1% -0.9%	4.5% 1.2% 3.7% 5.1%	0.7%
	15.9%	-10.1%	13.8% 22.6%	3.9% 3.9%	-0.9% 3.0% 5.0%	-1.5% 0.9% 2.0%	1.0% 6.2% 8.0%	-1.2% -1.1% -1.1%	-2.7% -7.3% -10.9%	1.6% 1.8% 1.1%	3.9% 0.1% 4.7%	5.1% 8.7% 1.1%	4.5% 1.2% 3.7%	0.7%
21/18 24/21	15.9% 7.4% 9.8%	-10.1% 15.3% 19.4%	13.8% 22.6% 14.1% 9.9% 15.7%	3.9% 3.9% 5.8% 5.4% 4.3%	-0.9% 3.0% 5.0% 3.6% 2.6% 3.0%	-1.5% 0.9% 2.0% 3.4% 5.2%	1.0% 6.2% 8.0% 6.2% 10.8%	-1.2% -1.1% -1.1% -2.1% -3.5%	-2.7% -7.3% -10.9% -3.0% -6.2% -6.7%	1.6% 1.8% 1.1% -0.1% -1.5% -0.3%	3.9% 0.1% 4.7% -0.3% 3.1%	5.1% 8.7% 1.1% -0.9% 2.9% 1.3%	4.5% 1.2% 3.7% 5.1% 1.8% 2.1%	0.7% 4.4%
21/18 24/21 24/12 27/24	15.9% 7.4% 9.8% 0.0% -13.1%	-10.1% 15.3% 19.4% 19.1%	13.8% 22.6% 14.1% 9.9% 15.7% 28.1%	3.9% 3.9% 5.8% 5.4% 4.3% 6.3%	-0.9% 3.0% 5.0% 3.6% 2.6% 3.0%	-1.5% 0.9% 2.0% 3.4% 5.2%	1.0% 6.2% 8.0% 6.2% 10.8% 6.7%	-1.2% -1.1% -1.1% -2.1% -3.5% -2.4% 10.3%	-2.7% -7.3% -10.9% -3.0% -6.2% -6.7%	1.6% 1.8% 1.1% -0.1% -1.5% -0.3%	3.9% 0.1% 4.7% -0.3% 3.1% 0.9%	5.1% 8.7% 1.1% -0.9% 2.9%	4.5% 1.2% 3.7% 5.1% 1.8%	0.7% 4.4% 10.7%
21/18 24/21 24/12 27/24 30/27	15.9% 7.4% 9.8% 0.0% -13.1% 12.8%	-10.1% 15.3% 19.4% 19.1% 15.6% -3.5%	13.8% 22.6% 14.1% 9.9% 15.7% 28.1% 29.8%	3.9% 3.9% 5.8% 5.4% 4.3% 6.3% 11.5%	-0.9% 3.0% 5.0% 3.6% 2.6% 3.0% 7.6% 3.9%	-1.5% 0.9% 2.0% 3.4% 5.2% 1.7% 1.2% 5.5%	1.0% 6.2% 8.0% 6.2% 10.8% 6.7% 6.9% 4.6%	-1.2% -1.1% -1.1% -2.1% -3.5% -2.4% 10.3% 5.8%	-2.7% -7.3% -10.9% -3.0% -6.2% -6.7% -5.3% -4.0%	1.6% 1.8% 1.1% -0.1% -1.5% -0.3% -2.7% -0.3%	3.9% 0.1% 4.7% -0.3% 3.1% 0.9% 0.9%	5.1% 8.7% 1.1% -0.9% 2.9% 1.3% 2.8% -1.3%	4.5% 1.2% 3.7% 5.1% 1.8% 2.1% -2.7% 2.1%	0.7% 4.4% 10.7% 0.8%
21/18 24/21 24/12 27/24 30/27 33/30	15.9% 7.4% 9.8% 0.0% -13.1% 12.8% 5.7%	-10.1% 15.3% 19.4% 19.1% 15.6% -3.5% 10.7%	13.8% 22.6% 14.1% 9.9% 15.7% 28.1% 29.8% 29.6%	3.9% 3.9% 5.8% 5.4% 4.3% 6.3% 11.5% 9.3%	-0.9% 3.0% 5.0% 3.6% 2.6% 3.0% 7.6% 3.9% 8.2%	-1.5% 0.9% 2.0% 3.4% 5.2% 1.7% 1.2% 5.5% 5.1%	1.0% 6.2% 8.0% 6.2% 10.8% 6.7% 6.9% 4.6% 6.5%	-1.2% -1.1% -1.1% -2.1% -3.5% -2.4% 10.3% 5.8% 3.1%	-2.7% -7.3% -10.9% -3.0% -6.2% -6.7% -5.3% -4.0% -0.6%	1.6% 1.8% 1.1% -0.1% -1.5% -0.3% -2.7% -0.3% -5.5%	3.9% 0.1% 4.7% -0.3% 3.1% 0.9% 0.9% -0.6%	5.1% 8.7% 1.1% -0.9% 2.9% 1.3% 2.8% -1.3% -2.0%	4.5% 1.2% 3.7% 5.1% 1.8% 2.1% -2.7% 2.1% 5.8%	0.7% 4.4% 10.7% 0.8%
21/18 24/21 24/12 27/24 30/27	15.9% 7.4% 9.8% 0.0% -13.1% 12.8%	-10.1% 15.3% 19.4% 19.1% 15.6% -3.5%	13.8% 22.6% 14.1% 9.9% 15.7% 28.1% 29.8%	3.9% 3.9% 5.8% 5.4% 4.3% 6.3% 11.5%	-0.9% 3.0% 5.0% 3.6% 2.6% 3.0% 7.6% 3.9%	-1.5% 0.9% 2.0% 3.4% 5.2% 1.7% 1.2% 5.5%	1.0% 6.2% 8.0% 6.2% 10.8% 6.7% 6.9% 4.6%	-1.2% -1.1% -1.1% -2.1% -3.5% -2.4% 10.3% 5.8%	-2.7% -7.3% -10.9% -3.0% -6.2% -6.7% -5.3% -4.0%	1.6% 1.8% 1.1% -0.1% -1.5% -0.3% -2.7% -0.3%	3.9% 0.1% 4.7% -0.3% 3.1% 0.9% 0.9%	5.1% 8.7% 1.1% -0.9% 2.9% 1.3% 2.8% -1.3%	4.5% 1.2% 3.7% 5.1% 1.8% 2.1%	0.7% 4.4% 10.7% 0.8%
21/18 24/21 24/12 27/24 30/27 33/30 36/33 36/24	15.9% 7.4% 9.8% 0.0% -13.1% 12.8% 5.7% 7.1%	-10.1% 15.3% 19.4% 19.1% 15.6% -3.5% 10.7% 15.3%	13.8% 22.6% 14.1% 9.9% 15.7% 28.1% 29.6% 21.6% 26.4%	3.9% 3.9% 5.8% 5.4% 4.3% 6.3% 11.5% 9.3% 8.7%	-0.9% 3.0% 5.0% 3.6% 2.6% 3.0% 7.6% 3.9% 8.2% 5.2%	-1.5% 0.9% 2.0% 3.4% 5.2% 1.7% 1.2% 5.5% 5.1% 5.8% 4.3%	1.0% 6.2% 8.0% 6.2% 10.8% 6.7% 6.9% 4.6% 6.5% 17.9% 8.1%	-1.2% -1.1% -1.1% -2.1% -3.5% -2.4% 10.3% 5.8% 3.1% -2.9% 3.2%	-2.7% -7.3% -10.9% -3.0% -6.2% -6.7% -5.3% -4.0% -0.6% -5.7%	1.6% 1.8% 1.1% -0.1% -1.5% -0.3% -2.7% -0.3% -5.5% -0.7% -3.1%	3.9% 0.1% 4.7% -0.3% 3.1% 0.9% 0.9% 0.9% -0.6% -0.8%	5.1% 8.7% 1.1% -0.9% 2.9% 1.3% 2.8% -1.3% -2.0% -1.0%	4.5% 1.2% 3.7% 5.1% 1.8% 2.1% -2.7% 2.1% 5.8% 1.7% 0.3%	0.7% 4.4% 10.7% 0.8% 3.2%
21/18 24/21 24/12 27/24 30/27 33/30 36/33 36/24	15.9% 7.4% 9.8% 0.0% -13.1% 12.8% 5.7% 7.1% -4.2% -11.9%	-10.1% 15.3% 19.4% 19.1% 15.6% -3.5% 10.7% 15.3% 16.5%	13.8% 22.6% 14.1% 9.9% 15.7% 28.1% 29.8% 29.6% 21.6% 26.4% 18.8%	3.9% 3.9% 5.8% 5.4% 4.3% 6.3% 11.5% 9.3% 8.7% 9.6%	-0.9% 3.0% 5.0% 3.6% 2.6% 3.0% 7.6% 3.9% 8.2% 5.2% 5.7%	-1.5% 0.9% 2.0% 3.4% 5.2% 1.7% 1.2% 5.5% 5.1% 5.8% 4.3% 7.2%	1.0% 6.2% 8.0% 6.2% 10.8% 6.7% 6.9% 4.6% 6.5% 17.9% 8.1%	-1.2% -1.1% -1.1% -2.1% -3.5% -2.4% -10.3% -5.8% -2.9% -2.9% -2.9% -2.9%	-2.7% -7.3% -10.9% -3.0% -6.2% -6.7% -5.3% -4.0% -0.6% -5.7% -4.8%	1.6% 1.8% 1.1% -0.1% -1.5% -0.3% -2.7% -0.3% -5.5% -0.7% -3.1%	3.9% 0.1% 4.7% -0.3% 3.1% 0.9% 0.9% -0.6% -0.8% -0.7%	5.1% 8.7% 1.1% -0.9% 2.9% 1.3% 2.8% -1.3% -2.0% -1.0% -2.0%	4.5% 1.2% 3.7% 5.1% 1.8% 2.1% -2.7% 2.1% 5.8% 1.7% 0.3%	0.7% 4.4% 10.7% 0.8% 3.2%
21/18 24/21 24/12 27/24 30/27 33/30 36/33 36/24 39/36 42/39	15.9% 7.4% 9.8% 0.0% -13.1% 12.8% 5.7% 7.1% -4.2% -11.9% 23.7%	-10.1% 15.3% 19.4% 19.1% 15.6% -3.5% 10.7% 15.3% 16.5% 16.2% -9.6%	13.8% 22.6% 14.1% 9.9% 15.7% 28.1% 29.8% 29.6% 21.6% 26.4% 18.8% 19.8%	3.9% 3.9% 5.8% 5.4% 4.3% 6.3% 11.5% 9.3% 8.7% 9.6% 12.1% 17.6%	-0.9% 3.0% 5.0% 3.6% 2.6% 3.0% 7.6% 3.9% 8.2% 5.2% 5.7%	-1.5% 0.9% 2.0% 3.4% 5.2% 1.7% 1.2% 5.5% 5.1% 5.8% 4.3% 7.2% 5.7%	1.0% 6.2% 8.0% 6.2% 10.8% 6.7% 6.9% 4.6% 6.5% 17.9% 8.1% 12.6% 6.1%	-1.2% -1.1% -1.1% -2.1% -3.5% -2.4% -1.3% -2.4% -2.9% -2.9% -3.2% -2.9% -3.3%	-2.7% -7.3% -10.9% -3.0% -6.2% -6.7% -5.3% -4.0% -0.6% -5.7% -4.8% -2.5% -2.1%	1.6% 1.8% 1.1% -0.1% -1.5% -0.3% -2.7% -0.3% -5.5% -0.7% -3.1% 2.7% -3.4%	3.9% 0.1% 4.7% -0.3% 3.1% 0.9% 0.9% -0.6% -0.8% -7.3% -6.9%	5.1% 8.7% 1.1% -0.9% 2.9% 1.3% 2.8% -1.3% -2.0% -1.0% 0.5% 4.9%	4.5% 1.2% 3.7% 5.1% 1.8% 2.1% -2.7% 2.1% 5.8% 1.7% 0.3% 2.3% 6.6%	0.7% 4.4% 10.7% 0.8% 3.2% -0.3% -7.9%
21/18 24/21 24/12 27/24 30/27 33/30 36/33 36/24	15.9% 7.4% 9.8% 0.0% -13.1% 12.8% 5.7% 7.1% -4.2% -11.9%	-10.1% 15.3% 19.4% 19.1% 15.6% -3.5% 10.7% 15.3% 16.5%	13.8% 22.6% 14.1% 9.9% 15.7% 28.1% 29.8% 29.6% 21.6% 26.4% 18.8%	3.9% 3.9% 5.8% 5.4% 4.3% 6.3% 11.5% 9.3% 8.7% 9.6%	-0.9% 3.0% 5.0% 3.6% 2.6% 3.0% 7.6% 3.9% 8.2% 5.2% 5.7%	-1.5% 0.9% 2.0% 3.4% 5.2% 1.7% 1.2% 5.5% 5.1% 5.8% 4.3% 7.2%	1.0% 6.2% 8.0% 6.2% 10.8% 6.7% 6.9% 4.6% 6.5% 17.9% 8.1%	-1.2% -1.1% -1.1% -2.1% -3.5% -2.4% -10.3% -5.8% -2.9% -2.9% -2.9% -2.9%	-2.7% -7.3% -10.9% -3.0% -6.2% -6.7% -5.3% -4.0% -0.6% -5.7% -4.8%	1.6% 1.8% 1.1% -0.1% -1.5% -0.3% -2.7% -0.3% -5.5% -0.7% -3.1%	3.9% 0.1% 4.7% -0.3% 3.1% 0.9% 0.9% -0.6% -0.8% -0.7%	5.1% 8.7% 1.1% -0.9% 2.9% 1.3% 2.8% -1.3% -2.0% -1.0% -2.0%	4.5% 1.2% 3.7% 5.1% 1.8% 2.1% -2.7% 2.1% 5.8% 1.7% 0.3%	3.3% 0.7% 4.4% 10.7% 0.8% 3.2% -0.3% -7.9% 1.3%

^{*} All paid medical include the paid cost of medical cost containment programs. 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.

7.2%

Source: WCIRB accident year experience calls.

14.6%

17.6%

15.6%

11.3%

48/36

8.8%

7.1%

-1.3%

-4.0%

Estimated Ultimate Severities by Injury Type

sted to	Medical	Only	620	514 514	689	711	774	819	606	926	886	206	981	1,135	1,225	1,326	1,300	1,364				10.6%	-2.9%	34.1%	3.1%	8.8%	2.9%	10.9%	1.9%	-4.3%	2.4%	8.1%	15.7%	7.9%	8.3%	-2.0%	2.0%
Medical Severity Adjusted to PY 2020 Benefit Level**		Temporary	3,007	3,300	4.317	4,456	5,070	5,675	6,388	7,236	6,993	7,218	7,201	7,633	8,145	8,293	8,463	6,039		Annual Change		10.0%	-1.1%	32.0%	3.2%	13.8%	11.9%	12.6%	13.3%	-3.4%	3.2%	-0.2%	%0.9	%2.9	1.8%	2.0%	%8.9
Medica PY 2	Permanent	Partial 26 705	20,703	20,548	42,824	46,103	49,912	50,444	49,925	47,790	43,355	41,150	39,090	41,557	43,229	43,843	45,124	47,981		`	!	3.2%	7.2%	44.9%	7.7%	8.3%	1.1%	-1.0%	-4.3%	-9.3%	-5.1%	-2.0%	6.3%	4.0%	1.4%	2.9%	6.3%
eritv**	Medical	Only 854	908	909	854	881	962	1,038	1,156	1,182	1,134	1,131	1,163	1,225	1,244	1,317	1,292	1,356		40		6.5%	-7.4%	1.4%	3.1%	9.5%	7.9%	11.4%	2.3%	-4.0%	-0.3%	2.9%	5.3%	1.5%	2.9%	-1.9%	2.0%
Ultimate Medical Severity**		Temporary	5,365	5,357	5,345	5,517	6,303	7,188	8,124	9,240	8,956	8,993	8,542	8,239	8,270	8,235	8,412	8,985		Annual Change		2.9%	-5.7%	-0.2%	3.2%	14.3%	14.1%	13.0%	13.7%	-3.1%	0.4%	-5.0%	-3.6%	0.4%	-0.4%	2.1%	%8.9
Ultima	Permanent	<u>Partial</u>	47,633	47,537	53.023	57,083	62,047	63,900	63,497	61,024	55,527	51,275	46,367	44,853	43,896	43,539	44,854	47,695		1		%9.0-	2.2%	%9.6	7.7%	8.7%	3.0%	%9:0-	-3.9%	%0.6-	% 2'.2-	%9.6-	-3.3%	-2.1%	-0.8%	3.0%	6.3%
	Accident	Year	2002	2003	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018*	Accident	Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018*
ndemnity Severity Adjusted to PY 2020 Benefit Level		<u>Temporary</u>	6,200	5, 130 5, 848	5,364	5,257	5,526	6,268	7,029	8,139	8,388	8,776	9,057	8,737	8,653	8,727	8,795	9,269		Annual Change		-2.0%	-4.7%	-8.3%	-2.0%	5.1%	13.4%	12.1%	15.8%	3.1%	4.6%	3.2%	-3.5%	-1.0%	%8.0	%8.0	5.4%
Indemnity Sev PY 2020 E	Permanent	Partial 47 979	47,070	43,703 53,230	61,026	60,554	62,080	59,021	58,745	56,216	53,264	50,633	46,712	44,349	43,853	42,949	42,925	43,775		Annua		4.0%	%6.9	14.6%	-0.8%	2.5%	4.9%	-0.5%	4.3%	-5.3%	4.9%	-7.7%	-5.1%	-1.1%	-2.1%	-0.1%	2.0%
unity Severity		Temporary	3,900	, t 1, 1, 1 1, 1, 1, 1	3 844	3,866	4,153	4,806	5,427	6,379	089'9	7,166	7,450	7,434	7,571	7,748	8,047	8,700		Change		6.2%	-2.3%	%9:9-	%9.0	7.4%	15.7%	12.9%	17.5%	4.7%	7.3%	4.0%	-0.2%	1.8%	2.3%	3.9%	8.1%
Ultimate Indemnity Severity	Permanent	Partial 42 440	42,449	36,040	34.593	37,276	39,812	41,887	41,907	40,648	39,130	38,117	36,455	38,549	39,090	38,755	39,743	41,414		Annual Change		-1.3%	-14.0%	-4.0%	7.8%	%8.9	5.2%	%0.0	-3.0%	-3.7%	-2.6%	-4.4%	2.7%	1.4%	%6:0-	2.6%	4.2%
	Accident	Year	2002	2002	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018*	Accident	Year	2002	2003	2004	2002	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018*

* Accident year 2018 experience is partial in that it only reflects experience from policy year 2017.
** 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

Average Permanent Disability Ratings by Type of Loss

2002 169 204 214 320 221 2002 169 223 256 258 258 258 200 200 160 167 167 160 167 160 167 160 167 160 167 160 167 160 167 160 167 160 167 160 167 160 167 160 167 160 167 160 167 160 167 160 167 160 167 160 167 167 160 167 </th <th> 18</th> <th>Permanent Disability Rating 2 3</th> <th>ating</th> <th>4</th> <th>2</th> <th>PY/RL</th> <th>Average f</th> <th>Permanent I</th> <th>Average Permanent Disability Rating 1 2 3</th> <th>iting 4</th> <th>5</th> <th>PY/RL</th> <th>Average 1</th> <th>Permanent 2</th> <th>Average Permanent Disability Rating 1 2 3</th> <th>ating 4</th> <th>5</th>	18	Permanent Disability Rating 2 3	ating	4	2	PY/RL	Average f	Permanent I	Average Permanent Disability Rating 1 2 3	iting 4	5	PY/RL	Average 1	Permanent 2	Average Permanent Disability Rating 1 2 3	ating 4	5
2006 1150 127 144 157 164 167 2006 126 144 156 148 159 162 162 2006 115 144 155 144 155 144 155 147 146 151 144 155 144 155 144 155 145 2006 120 144 155 147	2006 150 167 164 167 2004 168 163 167 169 167 169 167 169 167 169 168 169 168 169 168 </th <th>24.7 25.4 23.2 23.0</th> <th>25.4</th> <th></th> <th>25.2 22.6</th> <th>2002 2003</th> <th>16.9</th> <th>20.4</th> <th>21.4</th> <th>22.0 20.1</th> <th>22.1 19.9</th> <th>2002</th> <th>18.9 20.0</th> <th>23.9</th> <th>25.2 23.6</th> <th>25.8</th> <th>25.6</th>	24.7 25.4 23.2 23.0	25.4		25.2 22.6	2002 2003	16.9	20.4	21.4	22.0 20.1	22.1 19.9	2002	18.9 20.0	23.9	25.2 23.6	25.8	25.6
2005 110 12.7 14.4 15.3 16.4 2005 12.6 14.4 15.9 16.2 2007 10.3 12.7 14.4 15.8 16.0 12.0 14.4 15.6 16.7 17.6 17.6 2007 10.1 11.2 14.4 15.8 16.2 </td <td> 2005 110 127 144 153 164 2005 126 148 156 167 176 2007 121 141 156 160 2007 121 141 156 160 2007 121 141 156 160 2007 121 141 156 160 2007 121 141 151 141 151 141 151 141</td> <td></td> <td>18.4</td> <td></td> <td>18.2</td> <td>2004</td> <td>15.0</td> <td>16.0</td> <td>16.7</td> <td>16.4</td> <td>16.7</td> <td>2004</td> <td>16.4</td> <td>18.4</td> <td>19.1</td> <td>18.6</td> <td>18.4</td>	2005 110 127 144 153 164 2005 126 148 156 167 176 2007 121 141 156 160 2007 121 141 156 160 2007 121 141 156 160 2007 121 141 156 160 2007 121 141 151 141 151 141 151 141		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
2007 110 143 145 147 147 147 147 147 147 147 147 147 147 147 147 147 147 147 147 <td>2009 114 141 141 141 141 141 141 141 141 14</td> <td></td> <td>16.1</td> <td></td> <td>16.9</td> <td>2005</td> <td>11.0</td> <td>12.7</td> <td>14.4 4.4</td> <td>15.3</td> <td>16.4</td> <td>2005</td> <td>12.6</td> <td>8. 4. 8. 4</td> <td>15.9</td> <td>16.2</td> <td>16.9</td>	2009 114 141 141 141 141 141 141 141 141 14		16.1		16.9	2005	11.0	12.7	14.4 4.4	15.3	16.4	2005	12.6	8. 4. 8. 4	15.9	16.2	16.9
2008 115 414 161 174 175 106 107 115 114 161 174 168 2009 115 153 163 163 162 163 164 164 164 164 164 165 165 165 165 165 162 163 164 165 165 164 167 </td <td> 2008 115 140 161 174 175 2008 126 157 150 151 174 181 18</td> <td></td> <td>17.5</td> <td></td> <td>18.1</td> <td>2007</td> <td>10.9</td> <td>13.5</td> <td>15.5</td> <td>16.7</td> <td>17.6</td> <td>2007</td> <td>12.1</td> <td>14.7</td> <td>16.7</td> <td>17.6</td> <td>18.2</td>	2008 115 140 161 174 175 2008 126 157 150 151 174 181 18		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
2009 12.1 14.0 15.8 16.2 16.8 2009 17.5 14.9 16.9 17.4 2011 12.1 14.9 15.8 15.6 2010 17.5 14.5 15.9 16.2 2012 10.9 12.1 14.4 14.2 14.8 15.6 2011 17.7 14.5 15.9 16.2 2012 10.9 12.1 11.2 13.0 12.1 14.7 14.7 15.9 16.2 16.2 2014 10.1 10.1 12.0 12.8 13.0 2014 10.3 12.2 14.3 14.7	2009 17.1 14.0 15.8 16.2 16.9 17.4 16.9 17.4 2010 17.1 11.0 14.0 15.8 16.2 16.0 17.5 16.9 17.4 17.4 17.6 17.2 17.2 17.7 17		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
2011 112 113 113 113 113 113 113 113 113 1	Court of Permanent Disability Calms Fig. 1		17.3		17.3	2009	11.5	14.0 14.0	15.8 4.7.1	16.2	16.6 16.4	2009	12.6	15.3	16.9 15.9	17.4	17.4
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Median Permanent Disability Rating PY/RL 1 2 3 4 5 PY/RL 1 2 3 4 2002 14.5 15.5 17.5 18.0 19.0 2002 16.0 20.5 22.0 22.5 2003 14.5 14.5 15.0 14.5 2003 17.0 19.0 2002 20.5 20.0 12.0	Median Permanent Disability Rating PY/RL 1 2 3 4 5 PY/RL 1 2 3 4 2002 14.5 15.5 17.5 18.0 19.0 2002 16.0 20.5 22.0 22.5 2003 14.5 14.5 15.0 14.5 20.0 17.0 19.0 20.0					2017	7,385	2,730				2017	36,902	5			
PV/RL 1 2 3 4 5 PV/RL 1 2 3 4 2002 14.5 17.5 18.0 19.0 2002 16.0 20.5 22.5 2003 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 12.0 20.5 2003 17.0 20.5 20.0 <td>PV/RL 1 2 3 4 5 PV/RL 1 2 3 4 2002 14.5 17.5 18.0 19.0 2002 16.0 20.5 22.5 2003 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 12.0 20.5 2004 12.5 14.5 14.5 15.0 20.0<td>Median Permanent Disability Rating</td><td>ating</td><td></td><td></td><td></td><td>Median F</td><td>ermanent E</td><td>Disability Ra</td><td>ting</td><td></td><td></td><td>Median</td><td>Permanent I</td><td>Disability Ra</td><td>ıting</td><td></td></td>	PV/RL 1 2 3 4 5 PV/RL 1 2 3 4 2002 14.5 17.5 18.0 19.0 2002 16.0 20.5 22.5 2003 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 12.0 20.5 2004 12.5 14.5 14.5 15.0 20.0 <td>Median Permanent Disability Rating</td> <td>ating</td> <td></td> <td></td> <td></td> <td>Median F</td> <td>ermanent E</td> <td>Disability Ra</td> <td>ting</td> <td></td> <td></td> <td>Median</td> <td>Permanent I</td> <td>Disability Ra</td> <td>ıting</td> <td></td>	Median Permanent Disability Rating	ating				Median F	ermanent E	Disability Ra	ting			Median	Permanent I	Disability Ra	ıting	
2002 145 155 175 180 190 2002 160 205 225 2003 145 145 150 145 120 2003 170 190 200 205 220 225 2004 105 145 120 125 2004 125 145 145 145 145 160 200 2005 8.0 10.0 11.0 12.0 2006 8.5 10.5 12.0 12.0 200 2007 7.5 9.5 11.0 11.5 12.0 200 8.5 10.0 12.0 12.0 2008 8.5 10.0 11.0 11.0 12.0 2008 10.0 10.5 13.0 14.0 2009 9.5 10.0 11.0 11.0 12.0 2009 10.0 10.5 12.0 12.0 2009 9.5 10.0 11.0 11.0 11.0 11.0 11.0	2002 14.5 15.5 17.5 18.0 19.0 2002 16.0 20.5 22.5 2003 14.5 14.5 14.5 14.5 14.5 14.5 20.0 17.0 19.0 20.0 22.5 20.0 20	3 4	4		2	PY/RL	-	2	3	4	5	PY/RL	1	2	3	4	5
2003 14.5 14.5 15.0 14.5 16.0 17.0 19.0 20.0 <th< td=""><td>2003 14.5 14.0 20.0 20.0 14.5 14.0 14.0 20.0 20.0 14.5 14.0 12.0 20.0 14.5 14.0 <th< td=""><td>22.0</td><td>0</td><td>(4)</td><td>1.5</td><td>2002</td><td>14.5</td><td>15.5</td><td>17.5</td><td>18.0</td><td>19.0</td><td>2002</td><td>16.0</td><td>20.5</td><td>22.0</td><td>22.5</td><td>23.0</td></th<></td></th<>	2003 14.5 14.0 20.0 20.0 14.5 14.0 14.0 20.0 20.0 14.5 14.0 12.0 20.0 14.5 14.0 <th< td=""><td>22.0</td><td>0</td><td>(4)</td><td>1.5</td><td>2002</td><td>14.5</td><td>15.5</td><td>17.5</td><td>18.0</td><td>19.0</td><td>2002</td><td>16.0</td><td>20.5</td><td>22.0</td><td>22.5</td><td>23.0</td></th<>	22.0	0	(4)	1.5	2002	14.5	15.5	17.5	18.0	19.0	2002	16.0	20.5	22.0	22.5	23.0
2004 10.3 17.3 12.9 2004 12.9 2004 12.9 12.9 2004 12.9 12.9 12.9 12.9 12.9 12.9 12.9 12.0 <th< td=""><td>2004 10.3 17.3 <th< td=""><td>19.5</td><td>ΩU</td><td>- •</td><td>ດ. <u>ເ</u></td><td>2003</td><td>14.0</td><td>U.4.</td><td>U.4.</td><td>15.0</td><td>14.5 7.5</td><td>2003</td><td>0.71</td><td>19.0</td><td>20.0</td><td>20.0</td><td>19.5</td></th<></td></th<>	2004 10.3 17.3 <th< td=""><td>19.5</td><td>ΩU</td><td>- •</td><td>ດ. <u>ເ</u></td><td>2003</td><td>14.0</td><td>U.4.</td><td>U.4.</td><td>15.0</td><td>14.5 7.5</td><td>2003</td><td>0.71</td><td>19.0</td><td>20.0</td><td>20.0</td><td>19.5</td></th<>	19.5	ΩU	- •	ດ. <u>ເ</u>	2003	14.0	U.4.	U.4.	15.0	14.5 7.5	2003	0.71	19.0	20.0	20.0	19.5
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2007 7.5 9.5 1.0 1.5 1.5 2.0 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.0 1.5 <td>2007 7.5 9.5 1.0 1.5 1.5 2.0 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.0 1.0 1.5 1.0<td>13.0</td><td>o c</td><td></td><td>0.0</td><td>2002</td><td>) (</td><td>o o</td><td>0.0</td><td>5.0</td><td>12.0</td><td>2003</td><td>o o</td><td>5.0</td><td>12.0</td><td>13.0</td><td>12.0</td></td>	2007 7.5 9.5 1.0 1.5 1.5 2.0 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.0 1.0 1.5 1.0 <td>13.0</td> <td>o c</td> <td></td> <td>0.0</td> <td>2002</td> <td>) (</td> <td>o o</td> <td>0.0</td> <td>5.0</td> <td>12.0</td> <td>2003</td> <td>o o</td> <td>5.0</td> <td>12.0</td> <td>13.0</td> <td>12.0</td>	13.0	o c		0.0	2002) (o o	0.0	5.0	12.0	2003	o o	5.0	12.0	13.0	12.0
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2009 9.5 10.0 10.5 12.0 2009 10.0 10.5 13.0 14.0 2010 10.0 11.0 10.5 12.0 12.0 2010 9.5 10.5 12.5 2011 9.5 10.0 11.0 11.5 2011 10.0 11.0 11.5 12.5 2013 8.0 9.5 9.5 9.5 2013 8.5 9.5 10.0 11.0 2014 8.0 7.5 8.5 10.0 9.5 2013 8.5 9.5 11.0 11.0 2014 8.0 7.5 8.5 10.0 9.5 2014 9.0 9.5 11.0 11.0 2015 7.0 7.5 8.5 10.0 9.5 2014 9.0 9.5 10.5 9.5 10.5 2016 7.0 7.5 8.5 10.0 20.4 8.0 10.0 9.5 9.5 9.5 9.5 9.5 9.5	2009 9.5 10.0 10.5 12.0 2009 10.0 10.5 13.0 14.0 2010 10.0 11.0 10.5 12.0 12.0 2010 9.5 10.5 12.5 2011 9.5 10.0 9.5 2011 10.0 11.0 11.5 12.5 2013 8.0 9.5 9.5 2013 8.5 9.5 10.0 11.0 2014 8.0 7.5 8.5 10.0 9.5 2013 8.5 9.5 11.0 11.0 2014 8.0 7.5 8.5 10.0 9.5 2014 9.0 9.5 10.5 10.0 2015 7.0 7.5 8.5 10.0 9.5 2014 9.0 10.0 9.5 10.5 2015 7.0 7.5 8.0 8.5 10.0 9.5 9.5 9.5 9.5 9.5 2017 7.0 7.5 8.0 1.0 <	13.5	2	_	3.5	2008	. 80	10.0	11.0	12.0	12.0	2008	10.0	12.0	13.0	14.0	14.0
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2012 3.0 3.5 3.5 10.0 3.5 2012 3.5 3.5 10.5 12.0 2013 8.0 8.5 10.0 9.5 9.5 2013 8.5 10.0 11.0 11.0 2014 8.0 7.5 8.5 10.0 2014 9.0 10.0 9.5 10.5 2015 7.0 8.5 2016 8.0 7.0 7.0 2016 8.0 7.0 7.0 2016 8.0 7.0 7.0 7.0 2016 8.0 7.0 7.0 2016 8.0 7.0 7.0 2016 8.0 7.0 7.0 2016 8.0 7.0 7.0 2016 8.0 7.0 7.0 2016 8.0 7.0 7.0 2016 8.0 7.0 2016 8.0 7.0 2016 8.0 7.0 2016 8.0 7.0 2016 8.0 7.0 2016 8.0 7.0 2016 8.0 7.0 2016 8.0 7.0 2016 8.0 7.0 2016 8.0 2016	2012 3.0 3.5 3.5 10.0 3.5 2012 3.5 3.5 10.5 12.0 2013 8.0 8.5 10.0 3.5 2013 8.5 3.5 10.5 12.0 2014 8.0 7.5 8.5 10.0 2014 9.0 10.0 9.5 10.5 2015 7.0 8.0 8.5 10.0 2016 8.0 10.0 2016 2017 7.5 2017 7.5 3.5 3.5 10.5 2017 7.5 3.5 3.5 10.5 2017 7.5 3.5 3.5 10.5 2017 7.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3		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
8.0 7.5 8.5 10.0 2014 9.0 10.0 9.5 7.0 8.0 8.5 2015 7.5 9.5 9.5 7.0 7.5	8.0 7.5 8.5 10.0 2014 9.0 10.0 9.5 7.0 8.0 8.5 2015 2016 8.0 10.0 7.0 2015 2017 7.5 9.5 9.5 2017 7.5 9.5 9.5 2017 7.5 9.5 9.5 2017 7.5 9.5 9.5 2017 7.5 9.5 9.5 2017 7.5 9.5 9.5 2017 7.5 9.5 9.5 2017 7.5 9.5 9.5 2017 7.5 9.5 9.5 2017 7.5 9.5 9.5 9.5 2017 7.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9	9.5 11.0	11.0		11.0	2012	0.8 0.8	. 8 . 5	10.0	9.5	9.5	2013	8 5.5	9.5	11.0	11.0	12.0
7.0 7.5 6.3 20.1 7.0 7.5	7.0 7.5 6.9 2017 7.5 0.0 2017 7.5 7.5 2017 7.5 7.5 2017 7.5 2017 7.5 7.5 2017 7.5 20	9.5 10.0	10.0			2014	8.0	7.5	8.5	10.0		2014	9.0	10.0	9.5	10.5	
	7.0 2017 7.5	0				2016	0.7	7.5	o C			2013	. 6	10.0	9.		

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

Source: WCIRB unit statistical data

Average Paid ALAE^[1] per Reported Indemnity Claim - Private Insurers
As of September 30, 2019

Accident				Evalı	uated as of	f (in month	s):			
Year	<u>9</u>	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	69	<u>81</u>	93	<u>105</u>	<u>117</u>
2000	_							4,492	4,662	4,858
2001							5,407	5,637	5,927	6,099
2002						5,570	5,859	6,202	6,401	6,576
2003					5,348	5,796	6,232	6,527	6,756	6,968
2004				4,134	4,911	5,460	5,865	6,157	6,388	6,590
2005			2,722	3,774	4,549	5,101	5,501	5,824	6,092	6,281
2006		1,480	2,831	3,909	4,704	5,306	5,766	6,090	6,352	6,572
2007	378	1,616	3,025	4,177	5,043	5,711	6,244	6,613	6,912	7,144
2008	415	1,734	3,273	4,582	5,577	6,331	6,862	7,294	7,615	7,837
2009	464	1,944	3,685	5,142	6,238	7,024	7,653	8,107	8,428	8,663
2010	510	2,060	3,861	5,274	6,318	7,129	7,753	8,164	8,453	8,673
2011	496	2,091	3,800	5,214	6,311	7,170	7,733	8,115	8,396	0,0.0
2012	509	2,086	3,925	5,422	6,548	7,308	7,804	8,157	0,000	
2013	518	2,282	4,171	5,647	6,652	7,301	7,740	0,101		
2014	569	2,452	4,378	5,778	6,685	7,274	7,7 10			
2015	627	2,548	4,468	5,777	6,604	,,_, .				
2016	631	2,617	4,501	5,781	0,001					
2017	677	2,710	4,576	0,701						
2018	751	2,835	4,070							
2019	756	2,000								
2010	, 00									
Accident					Annual C	hange				
Year	<u>9</u>	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>69</u>	<u>81</u>	93	<u>105</u>	<u>117</u>
2001								25.5%	27.1%	25.6%
2002							8.4%	10.0%	8.0%	7.8%
2003						4.1%	6.4%	5.3%	5.5%	6.0%
2004					-8.2%	-5.8%	-5.9%	-5.7%	-5.5%	-5.4%
2005				-8.7%	-7.4%	-6.6%	-6.2%	-5.4%	-4.6%	-4.7%
2006			4.0%	3.6%	3.4%	4.0%	4.8%	4.6%	4.3%	4.6%
2007		9.1%	6.8%	6.8%	7.2%	7.6%	8.3%	8.6%	8.8%	8.7%
2008	9.7%	7.3%	8.2%	9.7%	10.6%	10.9%	9.9%	10.3%	10.2%	9.7%
2009	11.9%	12.1%	12.6%	12.2%	11.9%	10.9%	11.5%	11.1%	10.7%	10.5%
2010	10.0%	5.9%	4.8%	2.6%	1.3%	1.5%	1.3%	0.7%	0.3%	0.1%
2011	-2.8%	1.5%	-1.6%	-1.1%	-0.1%	0.6%	-0.3%	-0.6%	-0.7%	01.70
2012	2.6%	-0.2%	3.3%	4.0%	3.8%	1.9%	0.9%	0.5%	0.1 70	
2013	1.7%	9.4%	6.3%	4.2%	1.6%	-0.1%	-0.8%			
2014	9.9%	7.5%	5.0%	2.3%	0.5%	-0.4%				
2015	10.1%	3.9%	2.1%	0.0%	-1.2%	• • • • • • • • • • • • • • • • • • • •				
2016	0.6%	2.7%	0.7%	0.1%						
2017	7.3%	3.5%	1.7%	01170						
2018	11.0%	4.6%								
2019	0.7%									
	• • • • • • • • • • • • • • • • • • • •									
Annual Tre	nd ^[2]									
All-Year	5.6%	5.3%	4.6%	3.9%	3.3%	3.2%	3.4%	4.3%	4.5%	4.5%
R^3	0.964	0.968	0.936	0.882	0.771	0.772	0.812	0.820	0.808	0.786
	3.50→	0.000	0.000	0.002	0.771	V.112	0.012	0.020	0.000	0.700
5-Year	5.7%	3.6%	2.2%	1.5%	1.1%	0.6%	0.3%	2.3%	5.1%	7.8%
R ³	0.914	0.993	0.890	0.738	0.594	0.668	0.429	0.527	0.771	0.948
	0.314	0.993	0.090	0.730	0.534	0.000	0.423	0.321	0.771	0.540

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

Source: WCIRB accident year experience calls.

^[2] Trend is based on exponential distribution.

Percentage of Represented Permanent Disability Claims by Region and Loss Type

First and Second Survey Level, Open Claims Only

First Survey Level					
		Northern	Southern		
		California	California	CT Claims	Non-CT Claims
	% of Represented				
	AY 2011	66.1%	80.9%	88.2%	73.0%
	AY 2012	67.3%	82.4%	89.8%	74.3%
	AY 2013	68.8%	84.2%	91.7%	%0.92
	AY 2014	%8′29	83.1%	%9.06	75.0%
	AY 2015	%9:99	81.4%	88.7%	73.5%
	AY 2016	%2'99	81.7%	89.0%	73.7%
	AY 2017	61.4%	75.3%	85.0%	%6'29
Second Survey Level					
		Northern	Southern		
		California	California	CT Claims	Non-CT Claims
	% of Represented				
	AY 2011	69.2%	84.7%	92.3%	76.4%
	AY 2012	71.4%	87.5%	%2'3%	78.9%
	AY 2013	71.7%	84.8%	%2'36	79.3%
	AY 2014	69.4%	82.0%	92.6%	76.7%
	AY 2015	70.3%	86.1%	93.8%	77.7%
	AY 2016	68.4%	83.8%	91.3%	75.6%

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. Note:

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

Changes in the Number and Cost of Medical-Legal Reports by Service Year

Service		Nu	mber of Med-	Legal Rep	orts per Claim ^[1] b	y Service \	⁄ear	
<u>Year</u>	<u>Southern</u>	<u>Central</u>	<u>Northern</u>	<u>All</u>	<u>Southern</u>	<u>Central</u>	<u>Northern</u>	All
2013	0.21	0.21	0.25	0.22				
2014	0.22	0.23	0.25	0.23	6.5%	7.5%	0.3%	4.9%
2015	0.22	0.24	0.25	0.23	-2.7%	7.6%	0.4%	-0.5%
2016	0.23	0.28	0.25	0.24	8.3%	13.7%	-0.2%	7.2%
2017	0.23	0.26	0.24	0.24	-2.7%	-6.3%	-5.6%	-3.9%
2018	0.22	0.27	0.24	0.23	-2.2%	3.7%	0.1%	-0.6%

Service		Med-	Legal Payme	nt per Repo	ort by Service Yea	ar on All Cl	aims ^[2]	
<u>Year</u>	<u>Southern</u>	<u>Central</u>	<u>Northern</u>	<u>All</u>	<u>Southern</u>	<u>Central</u>	<u>Northern</u>	<u>All</u>
2013	\$1,689	\$1,064	\$1,305	\$1,485				
2014	\$1,859	\$1,222	\$1,382	\$1,636	10.1%	14.8%	6.0%	10.1%
2015	\$1,821	\$1,285	\$1,368	\$1,624	-2.0%	5.1%	-1.1%	-0.8%
2016	\$1,878	\$1,244	\$1,354	\$1,643	3.1%	-3.2%	-1.0%	1.2%
2017	\$1,692	\$1,029	\$1,242	\$1,467	-9.9%	-17.3%	-8.3%	-10.7%
2018	\$1,631	\$1,028	\$1,236	\$1,423	-3.6%	-0.2%	-0.5%	-3.0%

 $^{^{[1]}}$ Includes claims with any medical transaction for the service year.

Source: WCIRB medical data call (MDC).

^[2] 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.

Average Paid MCCP per Reported Indemnity Claim - Statewide

As of September 30, 2019

Accident			Eva	luated as of (in months):			
Year	<u>9</u>	<u>21</u>	<u>33</u>	<u>45</u>	<u>57</u>	<u>69</u>	<u>81</u>	93
2012	544	1,230	1,675	1,933	2,066	2,186	2,265	2,347
2013	531	1,136	1,541	1,780	1,933	2,044	2,120	
2014	512	1,091	1,505	1,745	1,902	1,998		
2015	504	1,095	1,473	1,704	1,844			
2016	485	1,041	1,386	1,593				
2017	467	1,019	1,373					
2018	495	1,078						
2019	491							
Accident				Annual Ch	ange			
Year	9	<u>21</u>	<u>33</u>	45	<u>57</u>	69	<u>81</u>	93
2013	-2.4%	-7.6%	-8.0%	-7.9%	-6.4%	-6.5%	-6.4%	
2014	-3.5%	-4.0%	-2.4%	-2.0%	-1.6%	-2.2%		
2015	-1.5%	0.4%	-2.1%	-2.3%	-3.1%			
2016	-3.9%	-5.0%	-5.9%	-6.5%				
2017	-3.7%	-2.1%	-0.9%					
2018	5.9%	5.9%						
2019	-0.7%							

Source: WCIRB accident year experience calls.

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

Staff has prepared a preliminary analysis of statewide experience through December 31, 2019, which is included in Exhibits 1 through 8. This information reflects insurers writing approximately 100% of the market based on 2019 premium levels. The methodologies used were consistent with those reflected in the January 1, 2020 Pure Premium Rate Filing. Wage and loss levels were projected to April 1, 2021 (the approximate midpoint of experience on policies incepting between July 1, 2020 and December 31, 2020) and premiums were adjusted to the industry average filed pure premium rate level as of July 1, 2019 as reflected in the January 1, 2020 Pure Premium Rate Filing.

As shown on Exhibit 8, the projected loss to the industry average filed pure premium ratio for policies incepting between July 1, 2020 and December 31, 2020 based on December 31, 2019 experience and the January 1, 2020 Pure Premium Rate Filing methodology is 0.557. (The policy year 2020 loss to pure premium ratio reflected in the January 1, 2020 Pure Premium Rate Filing based on March 31, 2019 experience was 0.583. The comparable projected loss to pure premium ratio based on September 30, 2019 experience was 0.567.)

Additional supplemental information is included in Exhibits 9 through 12.

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

	Earned	Paid	Indemnity	Paid	Medical		Total	Loss
<u>Year</u>	<u>Premium</u>	<u>Indemnity</u>	Reserves	Medical**	Reserves	IBNR*	Incurred**	Ratio*
1987	4,374,085,383	1,506,586,217	6,788,123	1,334,475,511	44,824,706	51,174,762	2,943,849,319	0.673
1988	5,173,049,472	1,703,995,443	6,020,498	1,542,154,007	34,457,070	38,596,813	3,325,223,831	0.643
1989	5,676,279,371	1,940,504,130	6,885,040	1,798,369,778	50,426,878	37,727,348	3,833,913,174	0.675
1990	5,705,878,797	2,261,017,175	7,080,474	2,045,692,846	41,984,392	60,949,353	4,416,724,240	0.774
1991	5,872,566,346	2,481,039,430	15,443,972	2,203,949,723	48,346,440	54,904,603	4,803,684,168	0.818
1992	5,692,939,950	1,979,853,751	13,426,410	1,765,835,664	52,311,831	57,815,580	3,869,243,236	0.680
1993	5,942,544,967	1,695,567,397	13,112,257	1,516,394,844	62,774,974	46,215,598	3,334,065,070	0.561
1994	5,034,831,820	1,628,835,229	20,387,175	1,467,360,963	86,322,151	38,983,681	3,241,889,199	0.644
1995	3,790,122,732	1,766,934,235	25,504,579	1,624,334,746	94,743,497	50,559,246	3,562,076,303	0.940
1996	3,748,266,525	1,957,534,276	30,979,364	1,718,844,292	96,206,132	58,590,457	3,862,154,521	1.030
1997	3,928,295,572	2,319,753,353	38,165,376	2,016,714,398	125,090,083	93,758,099	4,593,481,309	1.169
1998	4,333,560,338	2,775,301,843	49,731,336	2,643,031,839	215,345,949	184,625,971	5,868,036,938	1.354
1999	4,551,546,853	3,057,436,790	54,879,885	3,039,124,528	171,629,260	246,938,847	6,570,009,310	1.443
2000	5,923,031,823	3,429,896,218	64,584,283	3,561,057,107	209,688,221	401,680,518	7,666,906,347	1.294
2001	10,120,534,867	4,842,975,436	99,258,469	5,366,989,563	367,527,793	597,064,069	11,273,815,330	1.114
2002	13,434,933,190	4,774,257,970	91,263,940	5,484,565,192	323,197,790	886,436,297	11,559,721,189	0.860
2003	19,476,317,174	4,548,266,768	147,991,461	5,053,039,913	362,086,426	1,241,416,519	11,352,801,087	0.583
2004	23,096,787,993	3,210,920,223	124,057,962	4,053,390,069	284,630,028	1,370,396,727	9,043,395,009	0.392
2005	21,398,213,516	2,528,360,799	106,037,924	3,648,292,351	270,201,460	1,117,651,765	7,670,544,299	0.358
2006	17,232,800,048	2,615,380,965	112,324,564	3,753,259,909	293,829,483	779,799,688	7,554,594,609	0.438
2007	13,275,649,610	2,752,845,612	141,041,071	4,019,738,128	352,170,330	837,885,639	8,103,680,780	0.610
2008	10,764,323,955	2,800,230,280	145,508,251	4,012,666,932	357,273,618	503,888,243	7,819,567,324	0.726
2009	8,896,709,168	2,674,163,104	145,733,439	3,820,462,528	357,725,388	486,082,391	7,484,166,850	0.841
2010	9,398,228,398	2,683,942,798	148,125,181	3,904,953,059	319,455,389	575,975,201	7,632,451,628	0.812
2011	10,129,285,077	2,648,185,813	156,442,964	3,531,529,486	355,245,243	775,259,193	7,466,662,699	0.737
2012	11,692,134,220	2,671,212,764	196,152,434	3,412,555,946	392,748,838	943,055,095	7,615,725,077	0.651
2013	14,149,827,161	2,690,505,286	215,029,517	3,234,915,576	416,076,424	1,566,658,373	8,123,185,176	0.574
2014	15,997,914,039	2,785,329,665	288,703,155	3,112,667,472	488,337,668	2,108,327,654	8,783,365,614	0.549
2015	17,059,168,432	2,738,649,314	382,788,628	2,946,471,879	635,041,110	3,305,456,369	10,008,407,300	0.587
2016	17,954,524,605	2,474,625,444	510,151,659	2,662,666,253	778,878,915	3,241,081,865	9,667,404,136	0.538
2017	17,671,411,530	2,049,736,188	744,721,796	2,278,277,185	1,068,207,473	3,627,798,360	9,768,741,002	0.553
2018	17,426,435,785	1,389,844,965	1,024,199,430	1,742,216,812	1,443,893,460	4,488,561,257	10,088,715,924	0.579
2019	16,086,555,826	474,396,762	872,599,990	729,709,757	1,492,423,315	5,708,948,950	9,278,078,774	0.577

^{*} Shown for informational purposes only.

Source: WCIRB quarterly experience calls

^{**} 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.

Incurred Indemnity Loss Development Factors

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

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

Cumulative

1.012

1.011

1.010

1.010

1.009

Incurred Indemnity Loss Development Factors (Continued)

								A	Age-to-Age	(in month	s)								
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	ULT/420Inc (b)
1983						1.002	1.001	1.001	1.000	1.000	1.001	1.001	1.001	1.001	1.001	1.000	1.001	1.001	
1984					1.000	1.001	1.000	1.000	1.001	1.001	1.000	1.001	1.001	1.000	0.999	1.000	1.000	1.001	
1985				1.000	1.001	1.001	1.000	1.001	1.000	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	
1986			1.000	1.000	1.000	1.001	1.001	1.000	1.001	1.002	1.001	1.000	0.999	1.000	1.000	1.000	1.000		
1987		0.999	1.000	1.000	0.999	1.000	1.000	1.001	1.002	1.000	1.001	1.001	1.001	1.001	1.001	1.000			
1988	1.001	1.001	1.000	1.001	1.000	1.001	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.001				
1989	1.003	1.000	1.000	1.001	1.000	1.001	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000					
1990	1.000	1.001	1.000	0.999	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.001	1.000						
1991	1.000	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.001							
1992	0.998	1.001	1.001	1.000	1.001	1.001	1.000	1.000	1.000	1.000	1.001								
1993	0.999	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.001									
1994	1.001	1.001	1.002	1.000	1.001	1.001	0.999	1.001	1.001										
1995	1.003	1.001	0.998	1.001	1.000	1.001	1.000	1.001											
1996	1.003	1.000	1.000	1.000	1.001	1.001	1.002												
1997	1.000	1.000	1.000	1.000	1.001	1.001													
1998	1.003	1.001	1.001	1.000	1.001														
1999	1.000	1.000	1.002	1.002															
2000	1.002	1.001	1.001																
2001	1.001	1.002																	
2002	1.002																		
Selected (a)	1.001	1.001	1.000	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.001	

1.005

1.005

1.005

1.005

1.005

1.004

1.007

1.007

1.006

1.006

1.006

1.007

1.008

1.007

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

Incurred Medical Loss Development Factors

							Age	e-to-Age (in months)) (b)						
Accident Year	24/12	36/24	<u>48/36</u>	60/48	72/60	84/72	96/84	108/96	120/108	132/120	144/132	<u>156/144</u>	<u>168/156</u>	<u>180/168</u>	192/180	204/192
1994											1.011	1.018	1.008	1.009	1.021	1.011
1995										1.018	1.011	1.023	1.028	1.016	1.005	1.009
1996									1.019	1.019	1.014	1.024	1.018	1.013	1.014	1.005
1997								1.021	1.015	1.023	1.030	1.012	1.015	1.012	1.003	1.007
1998							1.022	1.024	1.038	1.023	1.020	1.017	1.004	1.014	1.008	1.012
1999						1.033	1.026	1.038	1.030	1.019	1.018	1.013	1.011	1.013	1.005	0.999
2000					1.038	1.029	1.044	1.028	1.017	1.024	1.018	1.018	1.012	1.006	0.999	0.995
2001				1.047	1.041	1.045	1.040	1.034	1.035	1.022	1.017	1.015	1.013	1.001	0.997	0.994
2002			1.059	1.039	1.056	1.040	1.036	1.029	1.028	1.022	1.014	1.010	0.999	0.997	1.000	0.999
2003		1.119	1.057	1.059	1.060	1.042	1.042	1.037	1.029	1.018	1.011	1.003	0.998	0.999	1.001	1.007
2004	1.351	1.135	1.113	1.081	1.060	1.061	1.043	1.032	1.026	1.012	1.006	1.001	0.996	0.998	1.003	
2005	1.389	1.172	1.087	1.074	1.084	1.055	1.045	1.032	1.020	1.006	1.006	0.999	1.000	1.000		
2006	1.460	1.196	1.103	1.081	1.066	1.048	1.040	1.022	1.012	1.000	1.001	1.006	1.000			
2007	1.518	1.204	1.124	1.081	1.070	1.050	1.032	1.018	1.004	1.008	1.001	1.004				
2008	1.527	1.212	1.129	1.092	1.061	1.041	1.026	1.010	1.005	1.002	1.005					
2009	1.604	1.227	1.140	1.087	1.061	1.030	1.016	1.007	1.006	1.009						
2010	1.620	1.245	1.134	1.077	1.045	1.025	1.012	1.008	1.010							
2011	1.667	1.222	1.125	1.069	1.034	1.016	1.010	1.011								
2012	1.592	1.188	1.092	1.056	1.031	1.015	1.016									
2013	1.559	1.150	1.086	1.039	1.022	1.015										
2014	1.523	1.159	1.079	1.035	1.028											
2015	1.511	1.146	1.064	1.031												
2016	1.498	1.124	1.046													
2017	1.440	1.119														
2018	1.452															
Selected (a)	1.452	1.119	1.046	1.031	1.028	1.015	1.016	1.011	1.010	1.006	1.005	1.004	1.001	1.000	1.001	1.001
Cumulative	1.979	1.363	1.218	1.165	1.129	1.099	1.082	1.065	1.054	1.044	1.038	1.032	1.028	1.027	1.027	1.026

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

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

Incurred Medical Loss Development Factors (Continued)

									Age-to-Ag	e (in mont	hs)								
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	<u>ULT/420Inc (c)</u>
1983						1.001	1.005	1.001	1.006	1.004	1.002	1.006	1.003	1.004	1.003	0.997	0.999	0.998	
1984					1.002	1.004	1.002	1.003	1.003	1.002	1.003	1.001	1.003	1.001	0.997	1.000	1.001	1.000	
1985				1.008	1.004	1.000	1.001	1.003	1.003	1.003	1.005	1.002	1.003	0.998	0.999	0.999	1.000	1.001	
1986			1.004	1.001	1.005	1.003	1.006	1.005	1.006	1.004	1.005	1.000	1.002	0.998	1.001	1.006	0.994		
1987		0.998	1.006	1.000	1.003	1.011	0.999	1.007	1.003	1.004	1.005	1.001	0.997	1.001	1.000	1.005			
1988	1.004	1.004	1.002	1.006	1.005	1.005	1.002	1.005	1.003	1.003	1.002	0.998	0.999	1.000	1.001				
1989	0.999	1.007	1.006	1.005	1.005	1.008	1.006	1.000	1.003	0.999	0.999	0.999	0.999	1.002					
1990	1.003	1.007	1.007	1.005	1.003	1.003	1.003	0.997	1.002	1.000	1.000	0.998	0.999						
1991	1.008	1.005	1.006	1.002	1.003	1.002	1.003	1.001	1.000	0.999	0.998	1.000							
1992	1.005	1.004	1.002	1.005	1.003	1.005	1.000	0.999	1.001	0.999	1.002								
1993	1.007	1.011	1.014	1.004	0.999	1.000	0.996	0.999	0.998	0.998									
1994	1.011	1.004	1.007	1.006	1.001	0.996	0.995	1.002	1.002										
1995	1.015	0.996	1.006	0.999	1.006	0.992	0.999	1.001											
1996	1.008	1.005	1.001	0.998	0.999	0.997	1.000												
1997	1.001	0.994	0.998	0.997	0.998	1.001													
1998	1.001	1.001	0.994	1.001	1.003														
1999	0.999	0.995	1.002	0.999															
2000	0.996	0.999	0.999																
2001	1.001	1.004																	
2002	1.002																		
Selected (a)	1.000	1.000	1.000	1.000	1.001	0.999	0.999	1.000	1.001	1.000	1.001	0.999	1.000	1.000	1.000	1.001	0.999	1.000	
Cumulative	1.025	1.025	1.026	1.026	1.026	1.025	1.026	1.027	1.028	1.027	1.027	1.026	1.027	1.027	1.027	1.027	1.025	1.027	1.027

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

Paid Indemnity Loss Development Factors

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

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

Paid Indemnity Loss Development Factors (Continued)

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

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

Paid Medical Loss Development Factors

Unadjusted (a)								Age-to-Age	(in months)							
Accident Year	24/12	36/24	48/36	60/48	72/60	84/72	96/84	108/96	120/108	132/120	144/132	<u>156/144</u>	168/156	180/168	192/180	204/192
1994										4 000	1.017	1.018	1.014	1.017	1.013	1.012
1995									1.020	1.020	1.024 1.027	1.021	1.019	1.018	1.018	1.015
1996 1997								1.036	1.029 1.033	1.025 1.028	1.027	1.023 1.022	1.020 1.019	1.018 1.016	1.016 1.014	1.013 1.014
1998							1.047	1.030	1.033	1.020	1.020	1.022	1.019	1.010	1.014	1.017
1999						1.059	1.044	1.035	1.032	1.032	1.025	1.025	1.016	1.016	1.018	1.015
2000					1.079	1.056	1.042	1.038	1.031	1.027	1.023	1.020	1.020	1.017	1.013	1.010
2001				1.109	1.076	1.057	1.045	1.038	1.034	1.030	1.022	1.022	1.022	1.017	1.012	1.011
2002			1.168	1.112	1.072	1.054	1.046	1.034	1.032	1.024	1.023	1.018	1.016	1.012	1.011	1.010
2003		1.318	1.170	1.112	1.074	1.057	1.048	1.041	1.030	1.030	1.026	1.019	1.016	1.013	1.012	1.010
2004	2.298	1.345	1.189	1.123	1.092	1.070	1.055	1.040	1.036	1.034	1.024	1.018	1.015	1.012	1.013	
2005	2.251	1.345	1.209	1.138	1.095	1.073	1.054	1.049	1.038	1.031	1.021	1.019	1.014	1.013		
2006	2.340	1.399	1.220	1.140	1.099	1.068	1.056	1.042	1.034	1.025	1.020	1.015	1.015			
2007 2008	2.416 2.325	1.413 1.421	1.230 1.241	1.142 1.148	1.097 1.103	1.075 1.072	1.057 1.051	1.041 1.035	1.031 1.027	1.022 1.018	1.020 1.017	1.015				
2009	2.323	1.447	1.241	1.140	1.103	1.072	1.031	1.033	1.027	1.016	1.017					
2010	2.479	1.468	1.265	1.152	1.096	1.066	1.043	1.032	1.024	1.020						
2011	2.580	1.470	1.248	1.145	1.095	1.058	1.041	1.029	1.020							
2012	2.561	1.468	1.247	1.143	1.087	1.056	1.040									
2013	2.492	1.464	1.238	1.130	1.077	1.048										
2014	2.518	1.462	1.226	1.121	1.076											
2015	2.533	1.439	1.218	1.111												
2016	2.480	1.410	1.197													
2017	2.373	1.391														
2018	2.378															
Adjusted (b)																
riajaotoa (b)								Age-to-Age	(in months)							
Accident Year	24/12	<u>36/24</u>	48/36	60/48	72/60	84/72	96/84	Age-to-Age 108/96	(in months) 120/108	132/120	144/132	<u>156/144</u>	168/156	180/168	192/180	204/192
Accident Year 2001	24/12	36/24	<u>48/36</u>	60/48	72/60	<u>84/72</u>	96/84			132/120	144/132	<u>156/144</u>	<u>168/156</u>	180/168		1.012
Accident Year 2001 2002	<u>24/12</u>	<u>36/24</u>	48/36	60/48	72/60	84/72	96/84			132/120	144/132	<u>156/144</u>	<u>168/156</u>		1.012	1.012 1.011
Accident Year 2001 2002 2003	<u>24/12</u>	<u>36/24</u>	48/36	60/48	<u>72/60</u>	<u>84/72</u>	<u>96/84</u>			132/120	144/132	<u>156/144</u>		1.014	1.012 1.013	1.012
Accident Year 2001 2002 2003 2004	<u>24/12</u>	<u>36/24</u>	<u>48/36</u>	60/48	<u>72/60</u>	<u>84/72</u>	<u>96/84</u>			132/120	144/132		1.016	1.014 1.013	1.012	1.012 1.011
Accident Year 2001 2002 2003 2004 2005	24/12	<u>36/24</u>	<u>48/36</u>	60/48	<u>72/60</u>	<u>84/72</u>	<u>96/84</u>			132/120		1.020	1.016 1.016	1.014	1.012 1.013	1.012 1.011
Accident Year 2001 2002 2003 2004 2005 2006	24/12	<u>36/24</u>	48/36	60/48	<u>72/60</u>	<u>84/72</u>	<u>96/84</u>				1.022	1.020 1.016	1.016	1.014 1.013	1.012 1.013	1.012 1.011
Accident Year 2001 2002 2003 2004 2005 2006 2007 2008	<u>24/12</u>	<u>36/24</u>	48/36	60/48	<u>72/60</u>	<u>84/72</u>	<u>96/84</u>	108/96	120/108 1.029	1.024 1.020		1.020	1.016 1.016	1.014 1.013	1.012 1.013	1.012 1.011
Accident Year 2001 2002 2003 2004 2005 2006 2007 2008 2009	<u>24/12</u>	<u>36/24</u>	<u>48/36</u>	60/48	<u>72/60</u>	<u>84/72</u>		108/96 1.034	1.029 1.026	1.024	1.022 1.022	1.020 1.016	1.016 1.016	1.014 1.013	1.012 1.013	1.012 1.011
Accident Year 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010	24/12	<u>36/24</u>	<u>48/36</u>	60/48	<u>72/60</u>		1.044	1.034 1.032	120/108 1.029	1.024 1.020	1.022 1.022	1.020 1.016	1.016 1.016	1.014 1.013	1.012 1.013	1.012 1.011
Accident Year 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011	24/12	<u>36/24</u>	48/36	60/48		1.062	1.044 1.046	108/96 1.034	1.029 1.026	1.024 1.020	1.022 1.022	1.020 1.016	1.016 1.016	1.014 1.013	1.012 1.013	1.012 1.011
Accident Year 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	<u>24/12</u>	<u>36/24</u>	48/36		1.092	1.062 1.062	1.044	1.034 1.032	1.029 1.026	1.024 1.020	1.022 1.022	1.020 1.016	1.016 1.016	1.014 1.013	1.012 1.013	1.012 1.011
Accident Year 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	<u>24/12</u>	<u>36/24</u>		1.137	1.092 1.084	1.062	1.044 1.046	1.034 1.032	1.029 1.026	1.024 1.020	1.022 1.022	1.020 1.016	1.016 1.016	1.014 1.013	1.012 1.013	1.012 1.011
Accident Year 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014	24/12		1.233	1.137 1.128	1.092	1.062 1.062	1.044 1.046	1.034 1.032	1.029 1.026	1.024 1.020	1.022 1.022	1.020 1.016	1.016 1.016	1.014 1.013	1.012 1.013	1.012 1.011
Accident Year 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015		1.443	1.233 1.224	1.137	1.092 1.084	1.062 1.062	1.044 1.046	1.034 1.032	1.029 1.026	1.024 1.020	1.022 1.022	1.020 1.016	1.016 1.016	1.014 1.013	1.012 1.013	1.012 1.011
Accident Year 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	2.486	1.443 1.416	1.233	1.137 1.128	1.092 1.084	1.062 1.062	1.044 1.046	1.034 1.032	1.029 1.026	1.024 1.020	1.022 1.022	1.020 1.016	1.016 1.016	1.014 1.013	1.012 1.013	1.012 1.011
Accident Year 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015		1.443	1.233 1.224	1.137 1.128	1.092 1.084	1.062 1.062	1.044 1.046	1.034 1.032	1.029 1.026	1.024 1.020	1.022 1.022	1.020 1.016	1.016 1.016	1.014 1.013	1.012 1.013	1.012 1.011
Accident Year 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2016 2017	2.486 2.386	1.443 1.416	1.233 1.224	1.137 1.128	1.092 1.084	1.062 1.062	1.044 1.046	1.034 1.032	1.029 1.026	1.024 1.020	1.022 1.022	1.020 1.016	1.016 1.016	1.014 1.013	1.012 1.013	1.012 1.011
Accident Year 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 Selected (c)	2.486 2.386 2.378	1.443 1.416 1.393	1.233 1.224 1.199	1.137 1.128 1.114	1.092 1.084 1.080	1.062 1.062 1.052	1.044 1.046 1.043	1.034 1.032 1.032	1.029 1.026 1.027	1.024 1.020 1.022	1.022 1.022 1.018	1.020 1.016 1.017	1.016 1.016 1.016	1.014 1.013 1.015	1.012 1.013 1.014	1.012 1.011 1.011
Accident Year 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	2.486 2.386 2.378	1.443 1.416 1.393	1.233 1.224 1.199	1.137 1.128 1.114	1.092 1.084 1.080	1.062 1.062 1.052	1.044 1.046 1.043	1.034 1.032 1.032	1.029 1.026 1.027	1.024 1.020 1.022	1.022 1.022 1.018	1.020 1.016 1.017	1.016 1.016 1.016	1.014 1.013 1.015	1.012 1.013 1.014	1.012 1.011 1.011
Accident Year 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 Selected (c)	2.486 2.386 2.378 2.378	1.443 1.416 1.393	1.233 1.224 1.199	1.137 1.128 1.114	1.092 1.084 1.080	1.062 1.062 1.052	1.044 1.046 1.043	1.034 1.032 1.032	1.029 1.026 1.027	1.024 1.020 1.022	1.022 1.022 1.018	1.020 1.016 1.017	1.016 1.016 1.016	1.014 1.013 1.015	1.012 1.013 1.014	1.012 1.011 1.011
Accident Year 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 Selected (c)	2.486 2.386 2.378 2.378	1.443 1.416 1.393	1.233 1.224 1.199	1.137 1.128 1.114	1.092 1.084 1.080	1.062 1.062 1.052	1.044 1.046 1.043	1.034 1.032 1.032	1.029 1.026 1.027	1.024 1.020 1.022	1.022 1.022 1.018	1.020 1.016 1.017	1.016 1.016 1.016	1.014 1.013 1.015	1.012 1.013 1.014	1.012 1.011 1.011

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

⁽b) These factors are adjusted for the losses paid prior to July 1, 2017 by -3.6%, -3.8%, -3.4%, -2.4%, -0.9%, and -0.1% to accident years 2011 to 2016, respectively, for the SB 1160 lien reforms. Factors are also adjusted for the impact of pharmaceutical cost reductions to bring the historical payments to the current pharmaceutical cost level.

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

⁽d) The cumulative factors for 36, 48, 60, and 72 months are adjusted by -4.1%, -2.8%, -1.7%, and -1.0%, respectively, for the impact of the SB 1160 reductions in future lien filings.

Paid Medical Loss Development Factors (Continued)

Unadjusted (a)										Age-1	o-Age (in m	nonths)							
Accident Year	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300	324/312	336/324	348/336	360/348	372/360	384/372	396/384	408/396	420/408	420Inc/420Pd (e) ULT/420Inc (f)
1983						1.004	1.005	1.005	1.003	1.005	1.004	1.004	1.003	1.004	1.003	1.002	1.004	1.003	1.037
1984					1.004	1.004	1.004	1.003	1.004	1.003	1.004	1.004	1.003	1.003	1.002	1.002	1.002	1.002	1.037
1985				1.005	1.005	1.006	1.004	1.004	1.003	1.004	1.004	1.004	1.003	1.002	1.003	1.002	1.002	1.002	1.027
1986			1.006	1.004	1.005	1.004	1.005	1.005	1.005	1.005	1.005	1.005	1.004	1.006	1.004	1.004	1.003		1.020
1987		1.007	1.006	1.007	1.006	1.005	1.005	1.005	1.005	1.005	1.005	1.003	1.003	1.003	1.003	1.002			1.023
1988	1.005	1.006	1.007	1.006	1.005	1.005	1.006	1.005	1.005	1.004	1.003	1.003	1.003	1.004	1.003				1.017
1989	1.005	1.006	1.007	1.005	1.006	1.008	1.006	1.007	1.006	1.003	1.003	1.003	1.003	1.003					1.019
1990	1.006	1.005	1.005	1.005	1.005	1.006	1.004	1.004	1.003	1.002	1.003	1.002	1.003						
1991	1.007	1.006	1.006	1.005	1.006	1.005	1.006	1.003	1.003	1.003	1.003	1.004							
1992	1.008	1.007	1.002	1.006	1.008	1.006	1.005	1.005	1.005	1.004	1.006								
1993	1.011	1.011	1.010	1.013	1.011	1.007	1.006	1.006	1.005	1.008									
1994	1.013	1.009	1.010	1.010	1.009	1.008	1.007	1.004	1.004										
1995	1.011	1.016	1.013	1.012	1.009	1.012	1.007	1.008											
1996	1.014	1.013	1.011	1.009	1.007	1.009	1.008												
1997	1.014	1.011	1.006	1.006	1.007	1.007													
1998	1.013	1.010	1.009	1.008	1.009														
1999	1.012	1.009	1.009	1.008															
2000	1.009	1.008	1.007																
2001	1.010	1.010																	
2002	1.009																		
Adjusted (b)											o-Age (in m								
Accident Year	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300	Age-1 324/312	o-Age (in m <u>336/324</u>	nonths) 348/336	360/348	372/360	384/372	396/384	408/396	420/408	420Inc/420Pd (e) ULT/420Inc (f)
Accident Year 1983	216/204	228/216	240/228	<u>252/240</u>	<u>264/252</u>	276/264	288/276	300/288	312/300				360/348	372/360	384/372		1.000	1.000	1.037
Accident Year 1983 1985	216/204	228/216	240/228	<u>252/240</u>	<u>264/252</u>	276/264	288/276	300/288	312/300				360/348	372/360		1.002	1.000 1.002		1.037 1.027
Accident Year 1983 1985 1986	216/204	228/216	240/228	<u>252/240</u>	264/252	276/264	288/276	300/288	312/300				360/348		1.005	1.002 1.004	1.000	1.000	1.037 1.027 1.020
Accident Year 1983 1985 1986 1987	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300					1.003	1.005 1.004	1.002	1.000 1.002	1.000	1.037 1.027 1.020 1.023
Accident Year 1983 1985 1986 1987 1988	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300			348/336	1.003	1.003 1.004	1.005	1.002 1.004	1.000 1.002	1.000	1.037 1.027 1.020 1.023 1.017
Accident Year 1983 1985 1986 1987 1988 1989	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300		336/324	348/336 1.003	1.003 1.004	1.003	1.005 1.004	1.002 1.004	1.000 1.002	1.000	1.037 1.027 1.020 1.023
Accident Year 1983 1985 1986 1987 1988 1989 1990	216/204	228/216	240/228	<u>252/240</u>	264/252	276/264	288/276	300/288	312/300	324/312	336/324	348/336 1.003 1.002	1.003	1.003 1.004	1.005 1.004	1.002 1.004	1.000 1.002	1.000	1.037 1.027 1.020 1.023 1.017
Accident Year 1983 1985 1986 1987 1988 1989 1990 1991	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288		324/312 1.003	336/324 1.003 1.004	348/336 1.003	1.003 1.004	1.003 1.004	1.005 1.004	1.002 1.004	1.000 1.002	1.000	1.037 1.027 1.020 1.023 1.017
Accident Year 1983 1985 1986 1987 1988 1989 1990 1991 1992	216/204	228/216	240/228	252/240	264/252	276/264	288/276		1.006	324/312 1.003 1.004	336/324	348/336 1.003 1.002	1.003 1.004	1.003 1.004	1.005 1.004	1.002 1.004	1.000 1.002	1.000	1.037 1.027 1.020 1.023 1.017
Accident Year 1983 1985 1986 1987 1988 1989 1990 1991 1992 1993	216/204	228/216	240/228	252/240	264/252	276/264		1.007	1.006 1.005	324/312 1.003	336/324 1.003 1.004	348/336 1.003 1.002	1.003 1.004	1.003 1.004	1.005 1.004	1.002 1.004	1.000 1.002	1.000	1.037 1.027 1.020 1.023 1.017
Accident Year 1983 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994	216/204	228/216	240/228	252/240	264/252		1.008	1.007 1.005	1.006	324/312 1.003 1.004	336/324 1.003 1.004	348/336 1.003 1.002	1.003 1.004	1.003 1.004	1.005 1.004	1.002 1.004	1.000 1.002	1.000	1.037 1.027 1.020 1.023 1.017
Accident Year 1983 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995	216/204	228/216	240/228	252/240		1.014	1.008 1.008	1.007	1.006 1.005	324/312 1.003 1.004	336/324 1.003 1.004	348/336 1.003 1.002	1.003 1.004	1.003 1.004	1.005 1.004	1.002 1.004	1.000 1.002	1.000	1.037 1.027 1.020 1.023 1.017
Accident Year 1983 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996	216/204	228/216	240/228		1.008	1.014 1.010	1.008	1.007 1.005	1.006 1.005	324/312 1.003 1.004	336/324 1.003 1.004	348/336 1.003 1.002	1.003 1.004	1.003 1.004	1.005 1.004	1.002 1.004	1.000 1.002	1.000	1.037 1.027 1.020 1.023 1.017
Accident Year 1983 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	216/204	228/216		1.007	1.008 1.008	1.014	1.008 1.008	1.007 1.005	1.006 1.005	324/312 1.003 1.004	336/324 1.003 1.004	348/336 1.003 1.002	1.003 1.004	1.003 1.004	1.005 1.004	1.002 1.004	1.000 1.002	1.000	1.037 1.027 1.020 1.023 1.017
Accident Year 1983 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998	216/204		1.009	1.007 1.009	1.008	1.014 1.010	1.008 1.008	1.007 1.005	1.006 1.005	324/312 1.003 1.004	336/324 1.003 1.004	348/336 1.003 1.002	1.003 1.004	1.003 1.004	1.005 1.004	1.002 1.004	1.000 1.002	1.000	1.037 1.027 1.020 1.023 1.017
Accident Year 1983 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999		1.010	1.009 1.010	1.007	1.008 1.008	1.014 1.010	1.008 1.008	1.007 1.005	1.006 1.005	324/312 1.003 1.004	336/324 1.003 1.004	348/336 1.003 1.002	1.003 1.004	1.003 1.004	1.005 1.004	1.002 1.004	1.000 1.002	1.000	1.037 1.027 1.020 1.023 1.017
Accident Year 1983 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000	1.010	1.010 1.009	1.009	1.007 1.009	1.008 1.008	1.014 1.010	1.008 1.008	1.007 1.005	1.006 1.005	324/312 1.003 1.004	336/324 1.003 1.004	348/336 1.003 1.002	1.003 1.004	1.003 1.004	1.005 1.004	1.002 1.004	1.000 1.002	1.000	1.037 1.027 1.020 1.023 1.017
Accident Year 1983 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	1.010 1.012	1.010	1.009 1.010	1.007 1.009	1.008 1.008	1.014 1.010	1.008 1.008	1.007 1.005	1.006 1.005	324/312 1.003 1.004	336/324 1.003 1.004	348/336 1.003 1.002	1.003 1.004	1.003 1.004	1.005 1.004	1.002 1.004	1.000 1.002	1.000	1.037 1.027 1.020 1.023 1.017
Accident Year 1983 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000	1.010	1.010 1.009	1.009 1.010	1.007 1.009	1.008 1.008	1.014 1.010	1.008 1.008	1.007 1.005	1.006 1.005	324/312 1.003 1.004	336/324 1.003 1.004	348/336 1.003 1.002	1.003 1.004	1.003 1.004	1.005 1.004	1.002 1.004	1.000 1.002	1.000	1.037 1.027 1.020 1.023 1.017
Accident Year 1983 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	1.010 1.012 1.010	1.010 1.009 1.011	1.009 1.010 1.007	1.007 1.009 1.009	1.008 1.008 1.010	1.014 1.010 1.008	1.008 1.008 1.009	1.007 1.005 1.010	1.006 1.005 1.005	1.003 1.004 1.009	336/324 1.003 1.004 1.006	1.003 1.002 1.004	1.003 1.004 1.003	1.003 1.004 1.003	1.005 1.004 1.003	1.002 1.004 1.002	1.000 1.002 1.003	1.000	1.037 1.027 1.020 1.023 1.017 1.019
Accident Year 1983 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	1.010 1.012	1.010 1.009	1.009 1.010	1.007 1.009	1.008 1.008	1.014 1.010	1.008 1.008	1.007 1.005	1.006 1.005	324/312 1.003 1.004	336/324 1.003 1.004	348/336 1.003 1.002	1.003 1.004	1.003 1.004	1.005 1.004	1.002 1.004	1.000 1.002	1.000	1.037 1.027 1.020 1.023 1.017

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

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

											Age-to	-Age (in r	nonths)									
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	264Inc/264Pd (b)
1993												1.004	1.004	1.004	1.004	1.003	1.002	1.003	1.003	1.002	1.002	1.012
1994											1.009	1.008	1.007	1.006	1.003	1.003	1.004	1.003	1.003	1.003	1.002	1.016
1995										1.010	1.012	1.008	1.007	1.005	1.005	1.003	1.005	1.005	1.003	1.003	1.002	1.020
1996									1.018	1.014	1.012	1.009	1.006	1.006	1.004	1.004	1.005	1.004	1.003	1.003	1.002	1.020
1997								1.025	1.018	1.016	1.012	1.008	1.007	1.006	1.006	1.005	1.004	1.003	1.003	1.002	1.003	1.018
1998							1.037	1.027	1.021	1.015	1.012	1.009	1.009	1.007	1.006	1.006	1.006	1.004	1.003	1.003	1.003	1.018
1999						1.055	1.036	1.025	1.018	1.015	1.011	1.009	1.008	1.007	1.006	1.004	1.004	1.003	1.003	1.003		
2000					1.088	1.052	1.035	1.025	1.016	1.013	1.010	1.009	1.008	1.007	1.005	1.004	1.004	1.004	1.003			
2001				1.145	1.077	1.051	1.034	1.024	1.017	1.014	1.012	1.011	1.008	1.007	1.006	1.005	1.005	1.005				
2002			1.290	1.127	1.075	1.046	1.031	1.020	1.018	1.015	1.014	1.008	1.008	1.006	1.006	1.005	1.005					
2003		1.696	1.249	1.128	1.072	1.043	1.030	1.026	1.023	1.021	1.015	1.012	1.009	1.008	1.007	1.007						
2004	2.914	1.522	1.236	1.116	1.073	1.049	1.041	1.035	1.030	1.020	1.015	1.011	1.009	1.008	1.009							
2005	2.734	1.512	1.235	1.121	1.079	1.060	1.047	1.042	1.028	1.020	1.015	1.013	1.010	1.010								
2006	2.866	1.539	1.229	1.135	1.090	1.068	1.050	1.035	1.026	1.018	1.016	1.012	1.011									
2007	2.905	1.547	1.246	1.140	1.092	1.066	1.046	1.033	1.027	1.020	1.016	1.013										
2008	2.927	1.577	1.271	1.150	1.092	1.060	1.041	1.027	1.023	1.018	1.015											
2009	3.069	1.616	1.280	1.156	1.092	1.061	1.043	1.031	1.023	1.021												
2010	3.157	1.628	1.281	1.147	1.091	1.060	1.038	1.027	1.022													
2011	3.208	1.613	1.266	1.144	1.087	1.056	1.041	1.027														
2012	3.137	1.597	1.262	1.137	1.087	1.051	1.035															
2013	3.169	1.606	1.260	1.129	1.072	1.044																
2014	3.229	1.635	1.257	1.129	1.071																	
2015	3.278	1.618	1.244	1.119																		
2016	3.235	1.586	1.230																			
2017	3.185	1.569																				
2018	3.109																					
Selected (a)	3.106(c)	1.568(c)	1.210(c)	1.104(c)	1.058(c)	1.039(c)	1.035	1.027	1.023	1.020	1.016	1.013	1.010	1.009	1.007	1.006	1.005	1.004	1.003	1.003	1.003	1.019
Cumulative	8.795	2.832	1.806	1.492	1.351	1.277	1.229	1.188	1.156	1.131	1.109	1.092	1.078	1.067	1.058	1.051	1.045	1.040	1.036	1.033	1.030	

⁽a) Selections are latest year for the 12-to-24 month through 96-to-108 month factors and three-year average for the subsequent paid age-to-age factors. Paid development factors are selected to age 264, where an incurred-to-paid ratio is chosen, and subsequently, six-year average incurred loss development factors are selected until ultimate.

⁽b) A three-year average of the 264Inc/264Pd factor is selected.

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

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

							Age-to-/	Age (in mo	nths)					
Accident Year	276/264	288/276	300/288	312/300	324/312	336/324	348/336	360/348	372/360	384/372	<u>396/384</u>	408/396	420/408	ULT/420Inc (c)
1983	1.002	1.001	1.001	1.000	1.000	1.001	1.001	1.001	1.001	1.001	1.000	1.001	1.001	
1984	1.001	1.000	1.000	1.001	1.001	1.000	1.001	1.001	1.000	0.999	1.000	1.000	1.001	
1985	1.001	1.000	1.001	1.000	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	
1986	1.001	1.001	1.000	1.001	1.002	1.001	1.000	0.999	1.000	1.000	1.000	1.000		
1987	1.000	1.000	1.001	1.002	1.000	1.001	1.001	1.001	1.001	1.001	1.000			
1988	1.001	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.001				
1989	1.001	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000					
1990	1.000	1.000	1.000	1.000	1.000	1.000	1.001	1.000						
1991	1.000	1.000	1.000	1.000	1.000	1.000	1.001							
1992	1.001	1.000	1.000	1.000	1.000	1.001								
1993	1.000	1.000	1.000	1.000	1.001									
1994	1.001	0.999	1.001	1.001										
1995	1.001	1.000	1.001											
1996	1.001	1.002												
1997	1.001													
1998														
Selected (a)	1.001	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.001	
Cumulative	1.008	1.007	1.007	1.007	1.007	1.006	1.006	1.006	1.005	1.005	1.005	1.005	1.005	1.004
244.40														

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

A. Total Reported Indemnity Claim Counts

Accident			Evaluate	d as of (in mo	onths)		
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	84
2010							102,485
2011						104,081	104,223
2012					110,133	110,427	110,545
2013				118,524	119,067	119,282	119,454
2014			123,470	124,674	125,185	125,448	
2015		125,703	129,076	129,821	130,153		
2016	103,246	128,490	132,165	132,976			
2017	106,364	129,759	132,527				
2018	108,501	132,009					
2019	110,942						

B. Development of Total Reported Indemnity Claim Counts

Accident		А	.ge-to-Age De	evelopment (in months):		
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	60-72	<u>72-84</u>	<u>84-Ult</u>
2011						1.001	
2012					1.003	1.001	
2013				1.005	1.002	1.001	
2014			1.010	1.004	1.002		
2015		1.027	1.006	1.003			
2016	1.244	1.029	1.006				
2017	1.220	1.021					
2018	1.217						
Latest Year	1.217	1.021	1.006	1.003	1.002	1.001	
Cumulative	1.263	1.038	1.016	1.010	1.007	1.005	1.004
Acc. Year	2019	2018	2017	<u>2016</u>	<u>2015</u>	<u>2014</u>	2013
Ult. Claim Counts	140,090	137,007	134,672	134,304	131,118	126,113	119,914

C. Closed Indemnity Claim Counts

Accident			Evaluate	d as of (in mo	onths)		
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2010							92,315
2011						90,578	94,785
2012					91,303	97,567	101,718
2013				90,727	100,829	107,058	111,226
2014			81,274	97,335	107,769	113,802	
2015		63,518	88,067	104,555	114,305		
2016	29,143	68,603	93,756	109,617			
2017	32,349	73,006	97,072				
2018	33,681	74,428					
2019	34,839						

D. Ultimate Indemnity Claim Settlement Ratio (a)

Accident			Evaluated	as of (in mo	nths)		
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2010							89.7%
2011						86.6%	90.6%
2012					82.3%	87.9%	91.7%
2013				75.7%	84.1%	89.3%	92.8%
2014			64.4%	77.2%	85.5%	90.2%	
2015		48.4%	67.2%	79.7%	87.2%		
2016	21.7%	51.1%	69.8%	81.6%			
2017	24.0%	54.2%	72.1%				
2018	24.6%	54.3%					
2019	24.9%						

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

Accident							
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2010							95,448
2011						94,413	97,046
2012					96,742	100,138	102,931
2013				97,872	104,538	108,208	111,226
2014			90,903	102,931	109,942	113,802	
2015		71,229	94,510	107,016	114,305		
2016	33,400	72,960	96,807	109,617			
2017	33,492	73,159	97,072				
2018	34,072	74,428					
2019	34,839						

F. Average Paid Indemnity per Closed Claim

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>			
2010							18,492			
2011						16,943	18,469			
2012					15,094	16,994	18,282			
2013				12,928	15,376	17,028	18,141			
2014			10,096	13,671	16,209	17,797				
2015		6,127	10,800	14,368	16,706					
2016	2,474	6,494	10,941	14,341						
2017	2,582	6,621	10,998							
2018	2,876	7,016								
2019	3,138									

⁽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.

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>	84	
2010							19,812	
2011						18,329	19,368	
2012					16,731	17,781	18,734	
2013				14,616	16,340	17,329	18,141	
2014			12,108	14,978	16,764	17,797		
2015		7,321	12,074	14,925	16,706			
2016	2,745	7,108	11,525	14,341				
2017	2,651	6,642	10,998					
2018	2,901	7,016						
2019	3,138							

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>	84		
2010							1,891,050		
2011						1,730,497	1,879,561		
2012					1,618,554	1,780,574	1,928,298		
2013				1,430,455	1,708,149	1,875,118	2,017,751		
2014			1,100,640	1,541,754	1,843,066	2,025,312			
2015		521,460	1,141,136	1,597,248	1,909,522				
2016	91,687	518,600	1,115,732	1,571,977					
2017	88,787	485,952	1,067,593						
2018	98,846	522,198							
2019	109,314								

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

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>	
2010							435,106	
2011						493,651	391,085	
2012					570,818	461,676	368,130	
2013				695,566	558,813	437,801	342,170	
2014			800,371	704,930	550,496	435,998		
2015		692,027	798,031	672,888	523,134			
2016	277,020	683,980	766,040	632,930				
2017	282,198	681,622	751,490					
2018	304,706	716,916						
2019	316,448							

⁽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.

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

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>	84	
2010							42,784	
2011						36,561	41,438	
2012					30,314	35,900	41,705	
2013				25,023	30,640	35,815	41,586	
2014			18,968	25,784	31,609	37,438		
2015		11,128	19,460	26,632	33,009			
2016	3,738	11,421	19,944	27,096				
2017	3,813	12,010	21,196					
2018	4,073	12,451						
2019	4,158							

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

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>	84	
2010							-134,044	
2011						-140,210	-93,691	
2012					-164,881	-92,298	-50,588	
2013				-178,790	-113,645	-41,187		
2014			-182,625	-144,289	-68,686			
2015		-85,812	-125,379	-65,542				
2016	-15,918	-49,762	-60,850					
2017	-4,358	-1,838						
2018	-1,592							

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

Accident	t 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>	84
2010							301,062
2011						353,442	297,394
2012					405,937	369,378	317,542
2013				516,776	445,168	396,614	342,170
2014			617,746	560,641	481,810	435,998	
2015		606,216	672,652	607,346	523,134		
2016	261,103	634,218	705,190	632,930			
2017	277,840	679,785	751,490				
2018	303,113	716,916					
2019	316,448						

- (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)].

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

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>	84
2010							2,192,112
2011						2,083,939	2,176,955
2012					2,024,491	2,149,952	2,245,840
2013				1,947,231	2,153,316	2,271,732	2,359,921
2014			1,718,386	2,102,395	2,324,876	2,461,310	
2015		1,127,676	1,813,788	2,204,594	2,432,656		
2016	352,790	1,152,818	1,820,922	2,204,906			
2017	366,627	1,165,737	1,819,083				
2018	401,959	1,239,114					
2019	425,762						

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

Accident	Evaluated as of (in months)								
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	60-72	72-84			
2010									
2011						1.045			
2012					1.062	1.045			
2013				1.106	1.055	1.039			
2014			1.223	1.106	1.059				
2015		1.608	1.215	1.103					
2016	3.268	1.580	1.211						
2017	3.180	1.560							
2018	3.083								
Latest Year	3.083	1.560	1.211	1.103	1.059	1.039			
3-Year Average	3.177	1.583	1.217	1.105	1.059	1.043			

O. Paid Indemnity Loss Development Factors (i)

Accident		Evaluated as of (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>				
2011						1.056				
2012					1.088	1.051				
2013				1.129	1.072	1.044				
2014			1.256	1.129	1.071					
2015		1.618	1.244	1.118						
2016	3.235	1.586	1.231							
2017	3.186	1.561								
2018	3.086									

⁽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.

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

Accident	Evaluated as of (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>	72-84		
2011						-1.06%		
2012					-2.36%	-0.61%		
2013				-2.04%	-1.58%	-0.48%		
2014			-2.58%	-2.02%	-1.19%			
2015		-0.58%	-2.26%	-1.34%				
2016	1.00%	-0.43%	-1.60%					
2017	-0.18%	-0.06%						
2018	-0.09%							

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

Accident	Evaluated as of (in months)										
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	48-60	60-72	72-84					
2011						1.045					
2012					1.061	1.045					
2013				1.106	1.055	1.039					
2014			1.225	1.106	1.058						
2015		1.609	1.216	1.104							
2016	3.267	1.579	1.210								
2017	3.179	1.568									
2018	3.106										
Latest Year	3.106	1.568	1.210	1.104	1.058	1.039					
3-Year Average	3.184	1.585	1.217	1.105	1.058	1.043					

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

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

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

Unadjusted (a)												Age (in mo										
Accident Year 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	2.298 2.251 2.340 2.416 2.325 2.408 2.479 2.580 2.561 2.492 2.518 2.533 2.480 2.373 2.378	1.318 1.345 1.345 1.345 1.399 1.413 1.421 1.447 1.468 1.470 1.468 1.464 1.462 1.439 1.410 1.391	1.168 1.170 1.189 1.209 1.220 1.230 1.241 1.251 1.265 1.248 1.247 1.238 1.226 1.218 1.197	1.109 1.112 1.112 1.123 1.138 1.140 1.142 1.148 1.160 1.152 1.145 1.143 1.130 1.121 1.111	1.079 1.076 1.072 1.074 1.092 1.095 1.099 1.097 1.103 1.104 1.096 1.095 1.087 1.077	1.059 1.056 1.057 1.054 1.057 1.070 1.073 1.068 1.075 1.067 1.066 1.058 1.056 1.048	1.047 1.044 1.042 1.045 1.046 1.055 1.054 1.057 1.051 1.046 1.043 1.041 1.040	1.036 1.039 1.035 1.038 1.034 1.041 1.040 1.049 1.042 1.041 1.035 1.032 1.030 1.029	1.029 1.033 1.033 1.032 1.031 1.034 1.036 1.036 1.038 1.034 1.031 1.027 1.024 1.025	1.020 1.025 1.028 1.032 1.032 1.027 1.030 1.024 1.030 1.034 1.031 1.025 1.022 1.018 1.020	1.017 1.024 1.027 1.026 1.030 1.025 1.023 1.022 1.023 1.026 1.024 1.021 1.020 1.020 1.017	156/144 1.014 1.018 1.021 1.023 1.022 1.021 1.025 1.020 1.022 1.018 1.019 1.018 1.019 1.015 1.015	168/156 1.012 1.014 1.019 1.020 1.019 1.016 1.020 1.022 1.016 1.015 1.014 1.015	180/168 1.014 1.017 1.018 1.018 1.016 1.019 1.016 1.017 1.012 1.013 1.012 1.013	192/180 1.013 1.013 1.018 1.016 1.014 1.015 1.018 1.013 1.012 1.011 1.012 1.013	204/192 1.011 1.012 1.015 1.013 1.014 1.017 1.015 1.010 1.011 1.010	216/204 1.011 1.013 1.011 1.014 1.013 1.012 1.009 1.010 1.009	228/216 1.011 1.009 1.016 1.013 1.011 1.009 1.008 1.010	240/228 1.010 1.010 1.013 1.011 1.006 1.009 1.009 1.007	252/240 1.013 1.010 1.012 1.009 1.006 1.008 1.008	264/252 1.011 1.009 1.009 1.007 1.007 1.009	264Inc/264Pd (e) 1.083 1.091 1.097 1.078 1.069 1.078
Adjusted (b) <u>Accident Year</u> 1996 1997	<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>	120/108	132/120	Age-to- 144/132	Age (in mo 156/144	onths) 168/156	<u>180/168</u>	<u>192/180</u>	204/192	<u>216/204</u>	<u>228/216</u>	240/228	<u>252/240</u> 1.007	264/252 1.008 1.008	264Inc/264Pd (e) 1.078 1.069
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	2.486 2.386 2.378	1.443 1.416 1.393	1.233 1.224 1.199	1.137 1.128 1.114	1.092 1.084 1.080	1.062 1.062 1.052	1.044 1.046 1.043	1.034 1.032 1.032	1.029 1.026 1.027	1.024 1.020 1.022	1.022 1.022 1.018	1.020 1.016 1.017	1.016 1.016 1.016	1.014 1.013 1.015	1.012 1.013 1.014	1.012 1.011 1.011	1.010 1.012 1.010	1.010 1.009 1.011	1.009 1.010 1.007	1.009 1.009	1.010	1.078
Selected (c)	2.378(e)	1.393(e)	1.186(e)	1.102(e)	1.067(e)	1.047(e)	1.043	1.032	1.027	1.022	1.021	1.018	1.016	1.014	1.013	1.011	1.011	1.010	1.009	1.008	1.009	1.075
Cumulative Unadjusted for Impact of SB 1160	6.911	2.906	2.087	1.760	1.597	1.496	1.429	1.370	1.328	1.292	1.264	1.239	1.217	1.198	1.182	1.166	1.153	1.141	1.130	1.120	1.111	
Cumulative Adjusted for Impact of SB 1160(f)	6.629	2.788	2.002	1.711	1.570	1.482																

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

⁽b) These factors are adjusted for the losses paid prior to July 1, 2017 by -3.6%, -3.8%, -3.4%, -2.4%, -0.9%, and -0.1% to accident years 2011 to 2016, respectively, for the SB 1160 lien reforms. Factors are also adjusted for the impact of pharmaceutical cost reductions to bring the historical payments to the current pharmaceutical cost level.

⁽c) Selections are latest year for the 12-to-24 month through 96-to-108 month factors and three-year average for the subsequent paid age-to-age factors. Paid development factors are selected to age 264, where an incurred-to-paid ratio is chosen, and subsequently, six-year average incurred loss development factors are selected until ultimate.

⁽d) A three-year average of the 264Inc/264Pd factor is selected.

⁽e) Based on calculations shown on Exhibits 2.6.3 to 2.6.8. Each of these selections are calculated as the latest year paid medical age-to-age factor multiplied by an adjustment for changes in claim settlement rates.

⁽f) The cumulative factors for 36, 48, 60, and 72 months are adjusted by -4.1%, -2.8%, -1.7%, and -1.0%, respectively, for the impact of the SB 1160 reductions in future lien filings.

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

							Age-to-	Age (in mo	onths)					
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	ULT/420Inc (g)
1983	1.001	1.005	1.001	1.006	1.004	1.002	1.006	1.003	1.004	1.003	0.997	0.999	0.998	
1984	1.004	1.002	1.003	1.003	1.002	1.003	1.001	1.003	1.001	0.997	1.000	1.001	1.000	
1985	1.000	1.001	1.003	1.003	1.003	1.005	1.002	1.003	0.998	0.999	0.999	1.000	1.001	
1986	1.003	1.006	1.005	1.006	1.004	1.005	1.000	1.002	0.998	1.001	1.006	0.994		
1987	1.011	0.999	1.007	1.003	1.004	1.005	1.001	0.997	1.001	1.000	1.005			
1988	1.005	1.002	1.005	1.003	1.003	1.002	0.998	0.999	1.000	1.001				
1989	1.008	1.006	1.000	1.003	0.999	0.999	0.999	0.999	1.002					
1990	1.003	1.003	0.997	1.002	1.000	1.000	0.998	0.999						
1991	1.002	1.003	1.001	1.000	0.999	0.998	1.000							
1992	1.005	1.000	0.999	1.001	0.999	1.002								
1993	1.000	0.996	0.999	0.998	0.998									
1994	0.996	0.995	1.002	1.002										
1995	0.992	0.999	1.001											
1996	0.997	1.000												
1997	1.001													
1998														
Selected (c)	0.999	0.999	1.000	1.001	1.000	1.001	0.999	1.000	1.000	1.000	1.001	0.999	1.000	
Cumulative	1.025	1.026	1.000	1.028	1.000	1.027	1.026	1.027	1.027	1.000	1.027	1.025	1.000	1.027
Carrialative	1.020	1.020	1.521	1.520	1.521	1.521	1.520	1.521	1.021	1.021	1.021	1.020	1.021	1.021

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

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>	84			
2010							102,485			
2011						104,081	104,223			
2012					110,133	110,427	110,545			
2013				118,524	119,067	119,282	119,454			
2014			123,470	124,674	125,185	125,448				
2015		125,703	129,076	129,821	130,153					
2016	103,246	128,490	132,165	132,976						
2017	106,364	129,759	132,527							
2018	108,501	132,009								
2019	110,942									

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>	60-72	<u>72-84</u>	84-Ult			
2011						1.001				
2012					1.003	1.001				
2013				1.005	1.002	1.001				
2014			1.010	1.004	1.002					
2015		1.027	1.006	1.003						
2016	1.244	1.029	1.006							
2017	1.220	1.021								
2018	1.217									
Latest Year	1.217	1.021	1.006	1.003	1.002	1.001				
Cumulative	1.263	1.038	1.016	1.010	1.007	1.005	1.004			
Acc. Year	2019	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u> 2015</u>	2014	2013			
Ult. Claim Counts	140,090	137,007	134,672	134,304	131,118	126,113	119,914			

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>			
2010							92,315			
2011						90,578	94,785			
2012					91,303	97,567	101,718			
2013				90,727	100,829	107,058	111,226			
2014			81,274	97,335	107,769	113,802				
2015		63,518	88,067	104,555	114,305					
2016	29,143	68,603	93,756	109,617						
2017	32,349	73,006	97,072							
2018	33,681	74,428								
2019	34,839									

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>	84			
2010							89.7%			
2011						86.6%	90.6%			
2012					82.3%	87.9%	91.7%			
2013				75.7%	84.1%	89.3%	92.8%			
2014			64.4%	77.2%	85.5%	90.2%				
2015		48.4%	67.2%	79.7%	87.2%					
2016	21.7%	51.1%	69.8%	81.6%						
2017	24.0%	54.2%	72.1%							
2018	24.6%	54.3%								
2019	24.9%									

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>	84			
2010							95,448			
2011						94,413	97,046			
2012					96,742	100,138	102,931			
2013				97,872	104,538	108,208	111,226			
2014			90,903	102,931	109,942	113,802				
2015		71,229	94,510	107,016	114,305					
2016	33,400	72,960	96,807	109,617						
2017	33,492	73,159	97,072							
2018	34,072	74,428								
2019	34.839									

F. Average Paid Medical per Closed Indemnity Claim

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>		
2010 2011 2012 2013 2014 2015 2016 2017	2,739 2,867	6,330 6,542 6,722	10,208 10,577 10,600 10,722	13,887 13,872 14,043 13,588	17,344 16,841 16,614 16,380	20,750 19,737 18,913 18,425	24,091 23,000 21,472 20,282		
2017 2018 2019	3,026 3,279	7,033	10,722						

⁽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.

G. Adjusted Average Paid Medical per Closed Indemnity 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>			
2010							26,156			
2011						22,792	24,337			
2012					19,404	20,795	22,045			
2013				15,917	18,046	19,282	20,282			
2014			12,269	15,281	17,245	18,425				
2015		7,438	11,816	14,600	16,380					
2016	3,008	7,112	11,119	13,588						
2017	2,936	6,742	10,722							
2018	3,051	7,033								
2019	3,279									

H. Adjusted Paid Medical (in \$000) on Closed Indemnity Claims (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>	84			
2010							2,496,490			
2011						2,151,897	2,361,827			
2012					1,877,195	2,082,365	2,269,126			
2013				1,557,799	1,886,505	2,086,468	2,255,853			
2014			1,115,244	1,572,903	1,895,938	2,096,790				
2015		529,791	1,116,739	1,562,384	1,872,265					
2016	100,483	518,894	1,076,365	1,489,492						
2017	98,338	493,249	1,040,774							
2018	103,950	523,435								
2019	114,254									

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

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>	84			
2010							683,274			
2011						705,645	566,883			
2012					740,091	611,804	503,904			
2013				809,119	657,622	521,964	421,888			
2014			857,547	756,534	591,763	482,773				
2015		753,862	813,286	697,864	553,123					
2016	344,155	744,676	769,112	662,087						
2017	366,313	743,183	761,371							
2018	381,804	788,962								
2019	371,518									

- (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.

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

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>	84
2010							67,187
2011						52,261	60,065
2012					39,304	47,574	57,087
2013				29,108	36,058	42,700	51,275
2014			20,323	27,672	33,978	41,454	
2015		12,123	19,832	27,621	34,902		
2016	4,644	12,435	20,024	28,344			
2017	4,949	13,095	21,474				
2018	5,103	13,702					
2019	4,882						

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

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>
2010							-210,497
2011						-200,421	-135,806
2012					-213,775	-122,312	-69,246
2013				-207,978	-133,740	-49,105	
2014			-195,671	-154,851	-73,834		
2015		-93,479	-127,776	-67,974			
2016	-19,775	-54,178	-61,094				
2017	-5,657	-2,004					
2018	-1,995						

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

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>	84
2010							472,776
2011						505,224	431,077
2012					526,316	489,493	434,658
2013				601,141	523,882	472,859	421,888
2014			661,876	601,682	517,929	482,773	
2015		660,382	685,510	629,890	553,123		
2016	324,380	690,498	708,018	662,087			
2017	360,657	741,180	761,371				
2018	379,809	788,962					
2019	371,518						

- (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)].

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

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>	84
2010							202,851
2011						192,622	195,766
2012					196,471	200,526	202,402
2013				198,211	203,951	206,497	209,050
2014			211,765	218,348	221,910	224,358	
2015		207,596	216,852	222,091	227,482		
2016	145,811	219,737	229,512	237,046			
2017	159,507	233,656	244,153				
2018	170,747	246,458					
2019	168,455						

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

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>	84
2010							3,172,117
2011						2,849,744	2,988,670
2012					2,599,981	2,772,383	2,906,186
2013				2,357,152	2,614,338	2,765,824	2,886,791
2014			1,988,885	2,392,933	2,635,777	2,803,921	
2015		1,397,769	2,019,100	2,414,365	2,652,869		
2016	570,674	1,429,129	2,013,895	2,388,625			
2017	618,501	1,468,085	2,046,298				
2018	654,506	1,558,855					
2019	654,226						

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

Accident		Eva	aluated as of	f (in months	s)	
<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>
2011						1.049
2012					1.066	1.048
2013				1.109	1.058	1.044
2014			1.203	1.101	1.064	
2015		1.445	1.196	1.099		
2016	2.504	1.409	1.186			
2017	2.374	1.394				
2018	2.382					
Latest Year	2.382	1.394	1.186	1.099	1.064	1.044

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

P. Paid Medical Loss Development Factors (i)

Accident		Eva	aluated as of	f (in months	s)	
<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>
2011						1.059
2012					1.086	1.056
2013				1.129	1.076	1.048
2014			1.224	1.120	1.077	
2015		1.439	1.217	1.111		
2016	2.480	1.410	1.199			
2017	2.373	1.394				
2018	2.382					

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

Accident	Evaluated as of (in months)						
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	60-72	<u>72-84</u>	
2011						-1.00%	
2012					-1.86%	-0.70%	
2013				-1.76%	-1.65%	-0.45%	
2014			-1.73%	-1.65%	-1.20%		
2015		0.41%	-1.78%	-1.08%			
2016	0.97%	-0.05%	-1.07%				
2017	0.04%	-0.03%					
2018	0.00%						

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

Accident		Eva	aluated as of	(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>	72-84
2011						1.051
2012					1.072	1.055
2013				1.117	1.066	1.047
2014			1.212	1.109	1.067	
2015		1.449	1.202	1.102		
2016	2.510	1.415	1.186			
2017	2.387	1.393				
2018	2.378					
Latest Year 3-Year Average	2.378 2.425	1.393 1.419	1.186 1.200	1.102 1.109	1.067 1.068	1.047 1.051

- (i) Development factors are based on paid medical losses from the same insurer mix as that used in the adjustment for changes in claim settlement rates and applied in the calculation of the development factors in Item O.
- (j) Each factor represents the change in age-to-age development factors from Item P to those in Item O.
- (k) Each factor is the product of [1.0 + the impact of adjustment for changes in claim settlement rates (Item Q)] and [the adjusted paid medical age-to-age development factor from Exhibit 2.6.1].

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

	<u>-</u>	Developm	_	
Accident	(1) Paid or	(2)	(3)	(4) Projected
Accident Year	Incurred Loss Ratio (a)	Annual (b)	Cumulative	Ultimate Loss Ratio
· · · · · · · · · · · · · · · · · · ·		·		$(4) = (1) \times (3)$
1986	0.396	1.001	1.005	0.398
1987	0.346	1.000	1.005	0.348
1988	0.331	1.000	1.005	0.332
1989	0.343	1.000	1.005	0.345
1990	0.398	1.000	1.005	0.400
1991	0.425	1.000	1.006	0.427
1992	0.350	1.001	1.006	0.352
1993	0.288	1.000	1.006	0.289
1994	0.328	1.000	1.007	0.330
1995	0.473	1.000	1.007	0.476
1996	0.531	1.000	1.007	0.534
1997	0.600	1.000	1.007	0.605
1998	0.652	1.001	1.008	0.657
1999	0.672	1.003	1.030	0.692
2000	0.579	1.003	1.033	0.598
2001	0.479	1.003	1.036	0.496
2002	0.355	1.004	1.040	0.369
2003	0.234	1.005	1.045	0.244
2004	0.139	1.006	1.051	0.146
2005	0.118	1.007	1.058	0.125
2006	0.152	1.009	1.067	0.162
2007	0.207	1.010	1.078	0.224
2008	0.260	1.013	1.092	0.284
2009	0.301	1.016	1.109	0.333
2010	0.286	1.020	1.131	0.323
2011	0.261	1.023	1.156	0.302
2012	0.228	1.027	1.188	0.271
2013	0.190	1.035	1.229	0.234
2014	0.174	1.039	1.277	0.222
2015	0.161	1.058	1.351	0.217
2016	0.138	1.104	1.492	0.206
2017	0.116	1.210	1.806	0.209
2018	0.080	1.568	2.832	0.226
2019	0.029	3.106	8.795	0.259

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

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

(1) (6)(7)(2)(3)(5)**Reform Adjusted Development Factors** Adjusted Cumulative Adjusted Projected Accident Paid or Incurred Paid or Incurred Unadjusted for Adjusted for Developed Ultimate Loss Ratio (a) Loss Ratio (b) Reforms (c) Loss Ratio (d) <u>Year</u> Annual (c) Reforms (c) Loss Ratio $(2) \times (5)$ (1) + ((6) - (2))1986 0.332 1.027 0.341 0.332 1.000 1.027 0.341 1987 0.315 0.999 0.323 0.315 1.025 1.025 0.323 0.305 0.305 1988 1.001 1.027 1.027 0.313 0.313 1989 0.326 0.326 1.000 1.027 1.027 0.334 0.334 1990 0.366 0.366 1.000 1.027 1.027 0.376 0.376 1991 0.384 1.000 1.027 1.027 0.394 0.394 0.384 1992 1.026 1.026 0.319 0.319 0.999 0.328 0.328 1993 0.266 0.266 1.001 1.027 1.027 0.273 0.273 1994 0.309 0.309 1.000 1.027 1.027 0.317 0.317 1995 0.454 0.454 1.001 1.028 1.028 0.466 0.466 1996 0.484 0.484 1.000 1.027 1.027 0.498 0.498 1997 0.999 1.026 1.026 0.560 0.545 0.545 0.560 0.999 1998 0.660 0.660 1.025 1.025 0.676 0.676 1999 0.668 0.595 1.009 1.111 1.111 0.661 0.734 2000 0.601 1.008 0.536 1.120 1.120 0.601 0.666 2001 0.530 0.475 1.009 1.130 1.130 0.537 0.592 2002 0.408 0.367 1.010 1.141 1.141 0.419 0.460 2003 0.259 0.234 1.011 1.153 1.153 0.270 0.295 2004 0.175 0.159 1.011 1.166 1.166 0.186 0.202 2005 0.170 0.155 1.013 1.182 1.182 0.183 0.199 2006 0.218 0.198 1.014 1.198 1.198 0.237 0.257 2007 1.217 0.336 0.303 0.276 1.016 1.217 0.363 0.373 2008 0.341 1.018 1.239 1.239 0.422 0.454 2009 0.429 0.397 1.021 1.264 1.264 0.502 0.534 2010 0.415 0.385 1.022 1.292 1.292 0.498 0.528 2011 0.349 0.326 1.027 1.328 1.328 0.433 0.456 0.377 2012 0.292 0.275 1.032 1.370 1.370 0.394 2013 0.229 0.218 1.043 1.429 1.429 0.311 0.322 2014 0.195 0.189 1.047 1.496 1.482 0.280 0.286 2015 0.173 0.170 1.067 1.597 1.570 0.266 0.269 2016 0.148 0.147 1.102 1.760 1.711 0.251 0.253 2017 0.129 0.129 1.186 2.087 2.002 0.257 0.258 2018 0.100 0.100 1.393 2.906 2.788 0.279 0.279 2019 0.045 0.045 2.378 6.911 6.629 0.301 0.301

⁽a) Based on Exhibit 1. Paid MCCP costs are excluded from accident years 2011 and subsequent. To reflect the selected loss development methodology, reported loss ratios displayed prior to 1999 are on an incurred basis. Subsequent reported loss ratios are on a paid basis.

⁽b) Based on experience evaluated as of December 31, 2019. Reflects an adjustment for the pharmaceutical cost reductions to restate the historical medical paid-to-date ratios at a 2018 pharmaceutical cost level.

⁽c) See Exhibits 2.6.1 and 2.6.2.

⁽d) The developed medical loss ratios shown were derived based on an adjustment for pharmaceutical cost reductions. They are only for purposes of projecting future medical loss ratios and do not reflect true estimates of ultimate loss ratios for those accident years.

Indemnity Benefit Level Factors

Accident <u>Year</u>	(1) Annual Benef Change Prior Frequency Adjustments (to Frequency	(3) Annual Impact on Indemnity Ben Due to Wage Inflation (b)	efits Cost	(5) Composite Indemnity Adjustment <u>Factor (d)</u>
					4 ==0
1987	0.0	0.0	1.9	1.9	1.550
1988	0.0	0.0	1.5	1.5	1.527
1989	0.0	0.0	1.5	1.5	1.505
1990	2.3	19.9	1.7	24.7	1.206
1991	4.9	14.8	0.8	21.4	0.994
1992	1.8	-8.3	1.6	-5.2	1.048
1993	0.2	-18.1	0.4	-17.6	1.272
1994	-5.1	0.2	0.6	-4.3	1.329
1995	6.3	0.6	1.0	8.0	1.231
1996	5.3	0.4	1.2	7.0	1.150
1997	9.7	0.2	1.6	11.7	1.030
1998	6.5	0.0	1.8	8.4	0.950
1999	5.7	0.0	2.1	7.9	0.880
2000	3.9	0.0	3.1	7.1	0.822
2001	-0.3	0.0	0.2	-0.1	0.823
2002	-0.7	0.0	0.4	-0.3	0.843 (e)
2003	7.3	0.0	1.2	8.6	0.840 (e)
2004	-6.0	-13.7	2.1	-17.2	1.150 (e)
2005	-31.6	-15.3	1.6	-41.2	1.558
2006	5.6	-5.7	2.2	1.8	1.531
2007	1.6	0.0	2.1	3.7	1.476
2008	4.8	0.6	1.0	6.5	1.386
2009	0.4	1.4	0.2	2.0	1.359
2010	0.4	0.0	1.5	1.9	1.334
2011	0.0	0.0	1.4	1.4	1.315
2012	-0.8	0.0	2.1	1.3	1.299
2013	1.4	0.2	0.6	2.3	1.270
2014	5.8	1.5	1.7	9.2	1.163
2015	-0.8	0.0	2.3	1.4	1.147
2016	0.3	0.0	1.0	1.3	1.132
2017	0.5	0.0	2.2	2.7	1.103
2018	0.4	0.0	2.0	2.4	1.076
2019	0.4	0.0	2.2	2.6	1.049
2020	0.5	0.0	2.5	3.0	
4/1/2021	0.3 (Annual 0.4) 0.0	1.6 (/	Annual 2.1) 1.9	

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

Annual Medical Cost Level Change - Non-Legislative

	(1)	(2)	(3)	(4)	(5)		(6)
	Proportion of	Proportion of	Impact of		Impact of		Annual
A ' 1 '	Medical	Medical Not	Fee Schedul	•			Non-Legislative
Accident	Subject to	Subject to	Change on				Cost Impact on
<u>Year</u>	Fee Schedule (a)	Fee Schedule (a)	Total Medical			<u>(d)</u>	Total Medical (e)
1987	0.610	0.390	0.9%	7.4%			3.8%
1988	0.649	0.351	0.8%	7.7%			3.8%
1989	0.647	0.353	0.0%	8.6%			3.0%
1990	0.661	0.339	0.0%	10.49			3.7%
1991	0.631	0.369	0.0%	10.69			3.6%
1992	0.628	0.372	0.0%	8.1%			3.0%
1993	0.565	0.435	0.0%	7.3%			2.7%
1994	0.691	0.309	-3.6%	4.3%		(i)	-2.3%
1995	0.681	0.319	0.0%	3.0%	6 0.9%		0.9%
1996	0.663	0.337	0.0%	3.0%	6 1.0%		1.0%
1997	0.643	0.357	0.0%	2.2%	6 0.7%		0.7%
1998	0.658	0.342	0.0%	2.2%	6 0.8%		0.8%
1999	0.728	0.272	1.6%	3.3%	6 0.9%	(ii)	2.5%
2000	0.715	0.285	0.5%	4.3%	6 1.2%		1.7%
2001	0.722	0.278	1.5%	4.8%	6 1.4%		2.9%
2002	0.635	0.365	0.6%	5.1%	6 1.4%		2.0%
2003	0.786	0.214	0.0%	4.8%	6 1.4%	(iii)	1.4%
2004	0.952	0.048	0.0%	5.0%	6 0.0%	(iv),(v)	0.0%
2005	0.936	0.064	0.0%	4.8%	6 0.0%	(v)	0.0%
2006	0.926	0.074	0.0%	4.1%	6 0.3%		0.3%
2007	0.923	0.077	1.4%	5.3%	6 0.4%		1.8%
2008	0.896	0.104	-0.1%	4.2%	6 0.3%		0.2%
2009	0.894	0.106	0.0%	3.6%	6 0.4%		0.4%
2010	0.895	0.105	0.0%	2.8%	6 0.3%		0.3%
2011	0.969	0.031	0.0%	3.2%	6 0.3%		0.3%
2012	0.969	0.031	0.0%	2.7%	6 0.1%		0.1%
2013	0.938	0.062	0.0%	2.6%	6 0.1%		0.1%
2014	0.928	0.072	0.0%	4.2%	6 0.3%		0.3%
2015	0.933	0.067	0.0%	3.1%			0.2%
2016	0.919	0.081	0.0%	5.4%			0.4%
2017	0.906	0.094	0.0%	2.2%			0.2%
2018	0.905	0.095	0.0%	2.4%			0.2%
2019	0.905	0.095	0.0%	3.8%			0.4%
2020	0.905	0.095	0.0%	3.5%			0.3%
4/1/2021	0.905	0.095		(Annual 0.0%) 2.3%			0.2%

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

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

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

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

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

Annual Medical Cost Level Change - Legislative

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

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

Total Medical Cost Level Factors

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

⁽a) See Exhibit 4.2, Column (6).

⁽b) See Exhibit 4.3, Column (3).

⁽c) Column (3) = $[1.0 + Column (1)] \times [1.0 + Column (2)] - 1.0$.

⁽d) These factors adjust the annual impact shown in Column (3) to the 4/1/2021 level.

Annual Wage Level Changes

	Annual Wage	Factor to a
<u>Year</u>	Level Change (a)	4/1/2021 Wage Level
1987	5.6	3.197
1988	4.4	3.063
1989	4.3	2.936
1990	5.0	2.796
1991	2.3	2.734
1992	4.7	2.611
1993	1.2	2.580
1994	1.8	2.534
1995	2.9	2.463
1996	3.4	2.382
1997	4.7	2.275
1998	5.2	2.163
1999	6.2	2.036
2000	9.0	1.868
2001	0.6	1.857
2002	1.1	1.837
2003	3.6	1.773
2004	5.0	1.689
2005	3.2	1.636
2006	4.6	1.564
2007	4.5	1.497
2008	2.1	1.466
2009	0.5	1.459
2010	3.0	1.416
2011	3.0	1.375
2012	4.3	1.318
2013	0.7	1.309
2014	3.3	1.267
2015	4.5	1.213
2016	1.8	1.191
2017	4.1	1.144
2018	3.4	1.107
2019	3.6	1.068
Projected:		
2020	4.1	
4/1/2021	2.6 (Annual = 3.	5)

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

Premium Adjustment Factors

	(1)	(2a)	(2b)	(2c)	(3)	(4)	(5)	(6)	(7)
		Deffect	E	Factor to Adjust			Off Dalance		
		Ratio of	Factor to	Insurer Premium			Off-Balance	F11- A.P1	
		Industry Average	Industry	to an Industry			Correction in	Factor to Adjust	
		Charged Rates	Average Filed	Average Filed	Adjustment		Advisory	for Impact	Composite
_	Factor to a	to Advisory	Pure Premium	Pure Premium	to Remove	Average	January 1, 2019	of Premium	Premium
Calendar	4/1/2021	Pure Premium	Rate Level as of	Rate Level as of	Surcharge	Experience	Pure Premium	Resulting from	Adjustment
<u>Year</u>	Wage Level (a)	Rates (b)	July 1, 2019 (c)	July 1, 2019 (d)	<u>Premium (e)</u>	Modification (f)	<u>Rates</u>	Audits (g)	Factor (h)
1987	3.197			0.635	0.992	0.983	1.017		2.013
1988	3.063			0.568	0.993	0.963	1.017		1.763
1989	2.936			0.559	0.993	0.945	1.017		1.695
1990	2.796			0.545	0.991	0.942	1.017		1.576
1991	2.734			0.504	0.987	0.939	1.017		1.425
1992	2.611			0.484	0.982	0.940	1.017		1.299
1993	2.580			0.478	0.981	0.949	1.017		1.253
1994	2.534			0.547	0.986	0.948	1.017		1.419
1995	2.463			0.741	0.995	0.958	1.017		1.863
1996	2.382	1.023	0.787	0.769	1.000	0.935	1.017		1.927
1997	2.275	0.989	0.785	0.794	1.000	0.949	1.017		1.872
1998	2.163	0.965	0.818	0.848	1.000	0.959	1.017		1.879
1999	2.036	0.972	0.827	0.851	1.000	0.954	1.017		1.785
2000	1.868	1.005	0.750	0.746	1.000	0.970	1.017		1.413
2001	1.857	1.030	0.660	0.641	1.000	0.969	1.017		1.208
2002	1.837	1.157	0.591	0.511	1.000	0.991	1.017		0.931
2003	1.773	1.266	0.484	0.382	1.000	1.005	1.017		0.663
2004	1.689	1.397	0.492	0.352	1.000	0.981	1.017		0.596
2005	1.636	1.470	0.592	0.403	1.000	0.982	1.017		0.660
2006	1.564	1.447	0.763	0.527	1.000	0.956	1.017		0.848
2007	1.497	1.492	1.039	0.696	1.000	0.931	1.017	0.985	1.084
2008	1.466	1.426	1.237	0.867	1.000	0.946	1.017	0.991	1.310
2009	1.459	1.366	1.219	0.892	1.000	0.937	1.017	1.034	1.412
2010	1.416	1.384	1.195	0.863	1.000	0.941	1.017	1.005	1.284
2011	1.375	1.401	1.194	0.852	1.000	0.982	1.017		1.173
2012	1.318	1.223	0.984	0.805	1.000	1.000	1.017		1.043
2013	1.309	1.138	0.792	0.696	1.000	0.983	1.017		0.911
2014	1.267	1.126	0.730	0.648	1.000	0.961	1.017		0.840
2015	1.213	1.109	0.709	0.640	1.000	0.951	1.017		0.802
2016	1.191	1.148	0.772	0.672	1.000	0.949	1.017		0.830
2017	1.144	1.156	0.854	0.739	1.000	0.955	1.017		0.871
2018	1.107	1.196	0.966	0.808	1.000	0.956	1.017		0.919
2019	1.068	1.215	1.122	0.924	1.000	0.948	1.017		1.024

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

0.075

0.043

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

hanges Intra- lass Ind Freq	Intra-0			Annual Log Differences			
lass Ind Freq	iiid (Class Indemnity Freque	ency	AY+1		Economic	CalOSHA
	per \$M	Exposure at PY 2017	Level	Indemnity	Cumulative	Variables	Dummy
Total	Total	Cumulative	Non-cum.	Benefit Level	Injury Index	(1st Prin. Comp.)	Variable
0.5%	0.005	-0.053	0.007	0.000	-0.060	0.134	0.000
-6.5%	-0.068	-0.132	-0.066	0.033	-0.066	-0.080	0.000
							0.000
							0.000
							0.000
9.5%			0.084	0.000		0.222	0.000
2.0%	0.020	0.138	0.014	0.000	0.124	0.081	0.000
-2.4%	-0.024	0.039	-0.028	0.000	0.067	0.078	0.000
1.5%	0.015	0.053	0.013	0.000	0.041	0.151	0.000
0.7%	0.007	0.104	0.000	0.000	0.104	0.088	0.000
2.5%	0.024	0.212	0.009	0.046	0.203	0.045	0.000
9.0%	0.087	0.337	0.061	0.071	0.276	-0.121	0.000
0.3%	0.003	0.166	-0.018	0.023	0.184	-0.293	0.000
-11.1%	-0.118	-0.272	-0.098	0.013	-0.174	-0.186	0.068
-14.9%	-0.162	-0.240	-0.153	-0.057	-0.088	-0.022	0.464
-12.8%	-0.136	-0.462	-0.107	0.061	-0.355	0.106	0.173
-4.6%	-0.048	-0.016	-0.050	0.053	0.034	0.092	0.295
-6.8%	-0.070	-0.136	-0.065	0.096	-0.071	0.075	0.000
-3.3%	-0.033	-0.023	-0.034	0.066	0.011	0.138	0.000
-3.8%	-0.038	-0.040	-0.038	0.058	-0.002	0.079	0.000
1.5%	0.014	0.100	0.008	0.040	0.092	0.128	0.000
4.0%	0.039	0.071	0.037	-0.003	0.034	0.066	0.000
		-0.018	-0.076		0.059	-0.101	0.000
		0.007	-0.026		0.033	-0.202	0.000
							0.000
							0.000
							0.000
							0.000
							0.000
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							0.000
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							0.000
							0.000
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							0.000
							0.000
							0.000
							0.000
							0.000
-2.7% -2.0%	-0.027 -0.020	-0.027 -0.020	-0.027 -0.020	0.004	0.000	-0.011	0.000
	-2.4% 1.5% 0.7% 2.5% 9.0% 0.3% -11.1% -14.9% -12.8% -4.6% -6.8% -3.3% -3.8% 1.5%	-1.6%	-1.6%	-1.6%	-1.6%	-1.6% -0.016	-1.8%

Notes:

Indemnity Benefit Level variable is leading. The benefit level change for AY 2004 is related to the AY 2003 change in non-cumulative frequency.

Regression is over AY 1979 through AY 2018. AY 2019 through AY 2022 are projections.

Std Err of Coef.

The constant term, -0.020, consists of measured offsets that recognize annual changes in real benefit levels relative to nominal benefit levels and long-term economic growth. Without these offsets, the indemnity benefit level and economic variables would project

0.071

0.060

The Indemnity Benefit Level change for Ogilvie & Almaraz / Guzman in 2009-2010 is not leading.

The Indemnity Benefit Level variable excludes indemnity benefit utilization, and changes in the death and permanent total benefits.

The Indemnity Benefit Level variable has been revised due to on-leveling reassessments. See Actuarial Committee item AC09-03-03.

For 1993 on, cumulative claims include both cumulative trauma and occupational disease claims. See March 19, 2014 Actuarial Committee Agenda Item III.

Economic variables are historical through 2018; December 2019 UCLA Anderson Forecasts for 2019 on.

frequency to increase without bound. *AY 2018 is preliminary and change is based on a comparison of 2018 accidents on 2017 policies to 2017 accidents on 2016 policies.

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

	(1)	(2)	(3)	(4)	(5)	
	Estimated	Α .	Indemnity	Ultimate		
Accident	Ultimate	Annual	Adjustment	On-level	Annual	
<u>Year</u>	<u>Severity</u>	% Change	Factor (a)	Severity	% Change	
				(1) x (3)		
1990	9,974		1.929	19,243		
1991	10,921	9.5%	1.825	19,926	3.6%	
1992	11,027	1.0%	1.764	19,453	-2.4%	
1993	11,997	8.8%	1.753	21,037	8.1%	
1994	12,973	8.1%	1.837	23,827	13.3%	
1995	14,546	12.1%	1.711	24,885	4.4%	
1996	16,320	12.2%	1.605	26,199	5.3%	
1997	19,359	18.6%	1.440	27,884	6.4%	
1998	21,231	9.7%	1.329	28,207	1.2%	
1999	23,286	9.7%	1.231	28,666	1.6%	
2000	24,723	6.2%	1.149	28,412	-0.9%	
2001	27,210	10.1%	1.150	31,302	10.2%	
2002	26,313	-3.3%	1.178	31,006	-0.9%	
2003	25,978	-1.3%	1.175	30,516	-1.6%	
2004	21,214	-18.3%	1.388	29,438	-3.5%	
2005	19,182	-9.6%	1.593	30,558	3.8%	
2006	20,918	9.0%	1.476	30,876	1.0%	
2007	22,733	8.7%	1.423	32,348	4.8%	
2008	24,827	9.2%	1.344	33,376	3.2%	
2009	26,124	5.2%	1.336	34,910	4.6%	
2010	25,700	-1.6%	1.311	33,701	-3.5%	
2011	25,440	-1.0%	1.293	32,899	-2.4%	
2012	24,926	-2.0%	1.277	31,834	-3.2%	
2013	24,381	-2.2%	1.251	30,512	-4.2%	
2014	25,182	3.3%	1.163	29,293	-4.0%	
2015	25,392	0.8%	1.147	29,116	-0.6%	
2016	24,720	-2.6%	1.132	27,990	-3.9%	
2017	24,674	-0.2%	1.103	27,208	-2.8%	
2018	25,698	4.2%	1.076	27,660	1.7%	
2019	26,686	3.8%	1.049	28,002	1.2%	
(e) F-	stimated Assuel For	oonantial Trand D	and an 1000 to 20	110.	4.00/	
, ,	stimated Annual Exp				1.2% -1.3%	
	stimated Annual Exp					
(8) ES	stimated Annual Ex	ponential Trend B	aseu on 2015 to 20	JIB.	-0.9%	
Selected Indemnity Severity Trend:						

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

Source: WCIRB experience calls.

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

	(1)	(2)	(3)	(4)	(5)
	Estimated		Medical	Ultimate	
Accident	Ultimate	Annual	Adjustment	On-level	Annual
<u>Year</u>	Severity (a)	% Change	Factor (b)	<u>Severity</u>	% Change
				(1) x (3)	
1990	8,733		0.911	7,958	
1991	9,386	7.5%	0.894	8,390	5.4%
1992	9,479	1.0%	0.864	8,185	-2.4%
1993	10,462	10.4%	0.847	8,859	8.2%
1994	11,583	10.7%	0.890	10,307	16.3%
1995	13,274	14.6%	0.882	11,706	13.6%
1996	14,191	6.9%	0.873	12,391	5.9%
1997	16,889	19.0%	0.867	14,644	18.2%
1998	20,709	22.6%	0.764	15,821	8.0%
1999	23,470	13.3%	0.662	15,535	-1.8%
2000	26,220	11.7%	0.608	15,949	2.7%
2001	31,235	19.1%	0.555	17,321	8.6%
2002	31,496	0.8%	0.576	18,139	4.7%
2003	30,080	-4.5%	0.604	18,174	0.2%
2004	27,802	-7.6%	0.799	22,220	22.3%
2005	28,660	3.1%	0.799	22,906	3.1%
2006	31,238	9.0%	0.796	24,867	8.6%
2007	34,810	11.4%	0.781	27,193	9.4%
2008	37,538	7.8%	0.778	29,207	7.4%
2009	39,743	5.9%	0.775	30,799	5.5%
2010	39,943	0.5%	0.773	30,861	0.2%
2011	36,358 (c)		0.794	28,874 (c)	
2012	34,242	-5.8%	0.839	28,717	-0.5%
2013	31,745	-7.3%	0.923	29,291	2.0%
2014	30,396	-4.3%	0.982	29,843	1.9%
2015	29,567	-2.7%	1.005	29,714	-0.4%
2016	28,322	-4.2%	1.006	28,492	-4.1%
2017	28,156	-0.6%	1.008	28,382	-0.4%
2018	29,428	4.5%	1.009	29,693	4.6%
2019	28,740	-2.3%	1.005	28,883	-2.7%

Selected Medical Severity Trend:

2.5%

- (a) Estimated ultimate severities for all accident years are derived by dividing ultimate medical losses on indemnity claims by ultimate indemnity claim counts. The estimated ultimate medical severities were derived from the projected ultimate loss ratios shown in Exhibit 3.2, column (7).
- (b) These adjustment factors are based on Exhibit 4.4, excluding the impact of frequency, and including the impact of SB 1160 provisions applicable to outstanding medical losses.
- (c) Severities for accident years 2011 and subsequent do not reflect the cost of medical cost containment programs (MCCP). Severities for accident years 2010 and prior do reflect MCCP costs.

Source: WCIRB experience calls.

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

MCCP Removed Based on WCIRB Aggregate

MCCP Included						Calendar Year		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Estimated		Ultimate		Estimated		Ultimate	
Accident	Ultimate	Annual	On-Level	Annual	Ultimate	Annual	On-Level	Annual
<u>Year</u>	Severity (a)	% Change	Severity (c)	% Change	Severity (a)	% Change	Severity (c)	% Change
2005	28,660		22,906		27,227		21,760	
2006	31,238	9.0%	24,867	8.6%	29,364	7.8%	23,375	7.4%
2007	34,810	11.4%	27,193	9.4%	32,583	11.0%	25,453	8.9%
2008	37,538	7.8%	29,207	7.4%	34,348	5.4%	26,725	5.0%
2009	39,743	5.9%	30,799	5.5%	36,524	6.3%	28,304	5.9%
2010	39,943	0.5%	30,861	0.2%	36,671	0.4%	28,333	0.1%
2011	39,819	-0.3%	31,622	2.5%	36,358	-0.9%	28,874	1.9%
2012	37,434	-6.0%	31,394	-0.7%	34,242	-5.8%	28,717	-0.5%
2013	34,795	-7.1%	32,105	2.3%	31,745	-7.3%	29,291	2.0%
2014	33,292	-4.3%	32,686	1.8%	30,396	-4.3%	29,843	1.9%
2015	32,307	-3.0%	32,467	-0.7%	29,567	-2.7%	29,714	-0.4%
2016	30,888	-4.4%	31,073	-4.3%	28,322	-4.2%	28,492	-4.1%
2017	30,773	-0.4%	31,020	-0.2%	28,156	-0.6%	28,382	-0.4%
2018	32,368	5.2%	32,661	5.3%	29,428	4.5%	29,693	4.6%
2019	31,662	-2.2%	31,821	-2.6%	28,740	-2.3%	28,883	-2.7%
Estimated /	Annual Exponenti	al Trend						
Trend Base	ed on 1990 to 201	9:		5.5%				N/A
	ed on 2005 to 201			1.8%				1.6%
Trend Base	ed on 2015 to 201	9:		0.1%				-0.2%
				Se	elected Medical Sev	erity Trend:		2.5%

⁽a) Estimated ultimate severities for all accident years were derived by dividing ultimate medical losses on indemnity claims by ultimate indemnity claim counts.

Source: WCIRB experience calls.

⁽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.

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

	(1)	(2)	(3)	(4)
				On-Level Indemnity to
Accident	Developed Indemnity	Composite Indemnity	Composite Premium	Industry Average Filed
<u>Year</u>	<u>Loss Ratio (a)</u>	Adjustment Factor (b)	Adjustment Factor (c)	Pure Premium Ratio
				$(1) \times (2) \div (3)$
1986	0.398	1.580	2.416	0.260
1987	0.348	1.550	2.013	0.268
1988	0.332	1.527	1.763	0.288
1989	0.345	1.505	1.695	0.306
1990	0.400	1.206	1.576	0.306
1991	0.427	0.994	1.425	0.298
1992	0.352	1.048	1.299	0.284
1993	0.289	1.272	1.253	0.294
1994	0.330	1.329	1.419	0.309
1995	0.476	1.231	1.863	0.315
1996	0.534	1.150	1.927	0.319
1997	0.605	1.030	1.872	0.333
1998	0.657	0.950	1.879	0.332
1999	0.692	0.880	1.785	0.341
2000	0.598	0.822	1.413	0.348
2001	0.496	0.823	1.208	0.338
2002	0.369	0.843	0.931	0.335
2003	0.244	0.840	0.663	0.309
2004	0.146	1.150	0.596	0.282
2005	0.125	1.558	0.660	0.295
2006	0.162	1.531	0.848	0.292
2007	0.224	1.476	1.084	0.304
2008	0.284	1.386	1.310	0.301
2009	0.333	1.359	1.412	0.321
2010	0.323	1.334	1.284	0.335
2011	0.302	1.315	1.173	0.339
2012	0.271	1.299	1.043	0.338
2013	0.234	1.270	0.911	0.326
2014	0.222	1.163	0.840	0.308
2015	0.217	1.147	0.802	0.310
2016	0.206	1.132	0.830	0.281
2017	0.209	1.103	0.871	0.265
2018	0.226	1.076	0.919	0.264
2019	0.259	1.049	1.024	0.266
2010	0.200	1.040	1.027	3.200
				Projections (d)
2020				0.258
4/1/2021				0.252

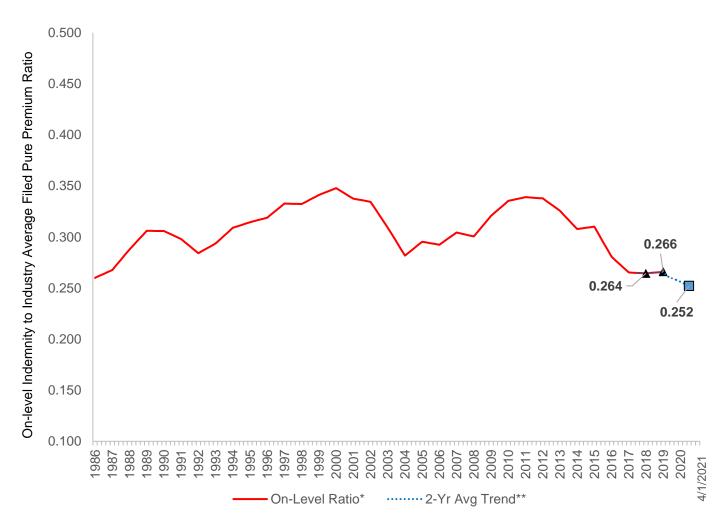
⁽a) See Exhibit 3.1.

⁽b) See Exhibit 4.1.

⁽c) See Exhibit 5.2.

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

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



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

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

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

	(1)	(2)	(3)	(4)
Accident	Developed Medical	Composite Medical	Composite Premium	On-Level Medical to Industry Average Filed
Year	Loss Ratio (a)	On-Level Factor (b)	Adjustment Factor (c)	Pure Premium Ratio (e)
<u>rear</u>	Loss Natio (a)	On-Level Lactor (b)	Adjustifient Factor (c)	$\frac{1 \text{ die 1 femidii (4e)}}{(1)\times(2)\div(3)}$
1986	0.341	0.834	2.416	0.118
1987	0.323	0.803	2.013	0.129
1988	0.313	0.774	1.763	0.137
1989	0.334	0.751	1.695	0.148
1990	0.376	0.608	1.576	0.145
1991	0.394	0.520	1.425	0.144
1992	0.328	0.549	1.299	0.138
1993	0.273	0.657	1.253	0.143
1994	0.317	0.688	1.419	0.154
1995	0.466	0.679	1.863	0.170
1996	0.498	0.669	1.927	0.173
1997	0.560	0.663	1.872	0.198
1998	0.676	0.585	1.879	0.210
1999	0.661	0.506	1.785	0.188
2000	0.601	0.465	1.413	0.198
2001	0.537	0.424	1.208	0.189
2002	0.419	0.441	0.931	0.198
2003	0.270	0.462	0.663	0.189
2004	0.186	0.699	0.596	0.218
2005	0.183	0.812	0.660	0.225
2006	0.237	0.853	0.848	0.239
2007	0.336	0.837	1.084	0.260
2008	0.422	0.831	1.310	0.268
2009	0.502	0.820	1.412	0.291
2010	0.498	0.817	1.284	0.317
2011	0.433	0.831	1.173	0.307
2012	0.377	0.869	1.043	0.314
2013	0.311	0.944	0.911	0.323
2014	0.280	0.987	0.840	0.328
2015	0.266	1.005	0.802	0.334
2016	0.251	1.006	0.830	0.305
2017	0.257	1.008	0.871	0.298
2018	0.279	1.009	0.919	0.306
2019	0.301	1.005	1.024	0.295
				Projections (d)
2020				0.306
4/1/2021				0.305

⁽a) See Exhibit 3.2. Medical loss ratios for accident years 2011 and subsequent do not reflect the cost of medical cost containment programs (MCCP). Ratios for accident years 2010 and prior do reflect MCCP costs.

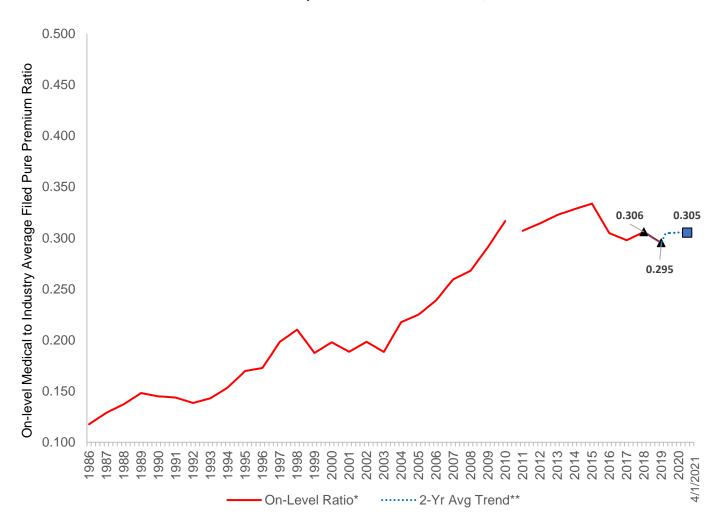
⁽b) See Exhibit 4.4.

⁽c) See Exhibit 5.2.

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

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

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



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

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

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

	<u>Indemnity</u>	<u>Medical</u>	<u>Total</u>
Projected Loss to Industry Average Filed Pure Premium Ratio	0.252	0.305	0.557
(See Exhibits 7.1 and 7.3)			

Quarterly Incurred Indemnity Loss Development Factors Through December 31, 2019

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

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

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

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

Quarterly Paid Indemnity Loss Development Factors Through December 31, 2019

Age in	-										Accide	ent Yea	ar									
<u>Months</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
6/3	4.325	4.024	4.170	4.461	4.720	4.908	4.745	4.512	4.376	4.495	4.553	4.807	4.911	4.722	4.854	5.099	5.076	5.056	5.087	5.060	4.987	5.082
9/6	2.284	2.367	2.283	2.369	2.443	2.424	2.399	2.303	2.259	2.375	2.377	2.398	2.452	2.432	2.484	2.462	2.462	2.484	2.456	2.445	2.538	2.504
12/9	1.826	1.806	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
15/12	1.499	1.536	1.538	1.552	1.550	1.516	1.491	1.456	1.482	1.488	1.481	1.507	1.532	1.539	1.506	1.539	1.540	1.559	1.571	1.544	1.527	
18/15	1.380	1.399	1.395	1.401	1.403	1.379	1.331	1.306	1.306	1.327	1.332	1.343	1.355	1.361	1.361	1.353	1.364	1.372	1.366	1.358	1.354	
21/18	1.323	1.298	1.303	1.303	1.311	1.297	1.241	1.217	1.233	1.235	1.243	1.259	1.257	1.261	1.261	1.263	1.267	1.264	1.256	1.260	1.248	
24/21	1.259	1.257	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	
27/24	1.186	1.199	1.203	1.200	1.205	1.186	1.140	1.142	1.151	1.149	1.153	1.162	1.165	1.168	1.164	1.159	1.170	1.176	1.161	1.159		
30/27	1.157	1.161	1.165	1.175	1.172	1.161	1.122	1.117	1.126	1.129	1.130	1.141	1.141	1.137	1.134	1.141	1.147	1.142	1.137	1.131		
33/30	1.118	1.125	1.130	1.142	1.136	1.123	1.097	1.096	1.100	1.101	1.108	1.114	1.116	1.112	1.111	1.111	1.115	1.107	1.104	1.105		
36/33	1.102	1.103	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		
39/36	1.074	1.081	1.081	1.092	1.087	1.072	1.070	1.066	1.064	1.067	1.074	1.078	1.077	1.073	1.075	1.074	1.075	1.071	1.068			
42/39	1.067	1.071	1.077	1.080	1.073	1.063	1.059	1.058	1.058	1.062	1.067	1.067	1.071	1.070	1.065	1.064	1.066	1.062	1.060			
45/42	1.057	1.054	1.063	1.064	1.056	1.049	1.047	1.049	1.047	1.051	1.058	1.059	1.057	1.055	1.054	1.052	1.050	1.050	1.045			
48/45	1.049	1.050	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			
51/48	1.039	1.038	1.043	1.044	1.036	1.035	1.033	1.036	1.036	1.037	1.042	1.042	1.043	1.039	1.038	1.038	1.039	1.035				
54/51	1.035	1.038	1.036	1.037	1.034	1.035	1.030	1.028	1.035	1.036	1.038	1.041	1.038	1.036	1.036	1.033	1.032	1.031				
57/54	1.029	1.033	1.037	1.030	1.028	1.026	1.025	1.028	1.030	1.032	1.033	1.033	1.032	1.033	1.028	1.027	1.028	1.025				
60/57	1.025	1.030	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				
63/60	1.023	1.026	1.024	1.021	1.022	1.019	1.019	1.021	1.023	1.025	1.025	1.024	1.026	1.025	1.025	1.021	1.021					
66/63	1.023	1.023	1.023	1.021	1.019	1.019	1.019	1.020	1.025	1.025	1.025	1.025	1.023	1.022	1.022	1.018	1.018					
69/66	1.019	1.021	1.020	1.017	1.016	1.017	1.016	1.021	1.020	1.020	1.020	1.022	1.020	1.019	1.022	1.017	1.014					
72/69	1.018	1.016	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					
75/72	1.015	1.016	1.015	1.014	1.012	1.012	1.013	1.015	1.019	1.018	1.016	1.016	1.017	1.015	1.014	1.012						
78/75	1.014	1.014	1.012	1.013	1.012	1.011	1.012	1.015	1.017	1.016	1.015	1.016	1.016	1.015	1.013	1.011						
81/78	1.013	1.013	1.011	1.012	1.011	1.010	1.012	1.015	1.015	1.016	1.015	1.015	1.013	1.012	1.011	1.010						
84/81	1.011	1.011	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						
87/84	1.012	1.010	1.008	1.010	1.009	1.008	1.009	1.012	1.014	1.013	1.010	1.012	1.010	1.011	1.010							
90/87						1.008																
93/90	1.009	1.009	1.008	1.008	1.007	1.008	1.012	1.011	1.011	1.012	1.010	1.010	1.009	1.009	1.008							
96/93	1.008	1.009	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							

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

Age in										Accide	ent Yea	ar									
<u>Months</u>	<u>1998</u> <u>1999</u>	<u> 2000</u>	<u>2001</u>	2002	2003	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
6/3	6.375 5.95	5 5.518	6.168	7.221	7.127	7.617	5.563	5.308	5.615	6.579	6.101	6.048	5.854	5.989	6.284	5.604	5.720	5.897	5.238	5.462	4.985
9/6	2.369 2.400	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	2.249	2.351	2.286
12/9	1.728 1.739	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	1.795
15/12	1.453 1.490	0 1.514	1.547	1.554	1.510	1.437	1.423	1.429	1.444	1.413	1.429	1.445	1.472	1.446	1.443	1.460	1.454	1.479	1.434	1.425	
18/15	1.241 1.26	7 1.286	1.310	1.330	1.295	1.243	1.230	1.227	1.259	1.243	1.259	1.268	1.282	1.284	1.263	1.265	1.278	1.262	1.250	1.245	
21/18	1.164 1.168	3 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	
24/21	1.132 1.12	4 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	
27/24	1.096 1.108	3 1.121	1.128	1.123	1.093	1.090	1.093	1.106	1.107	1.110	1.112	1.119	1.120	1.123	1.122	1.122	1.124	1.111	1.111		
30/27	1.077 1.088	3 1.101	1.108	1.103	1.077	1.084	1.087	1.097	1.100	1.100	1.106	1.107	1.111	1.109	1.111	1.111	1.105	1.100	1.092		
33/30	1.065 1.072	2 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		
36/33	1.055 1.06	6 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		
39/36	1.051 1.059	9 1.060	1.061	1.049	1.044	1.053	1.056	1.057	1.059	1.061	1.066	1.071	1.066	1.069	1.065	1.064	1.061	1.055			
42/39	1.044 1.049	9 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	1.049			
45/42	1.039 1.04	5 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			
48/45	1.035 1.039	9 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			
51/48	1.030 1.03	5 1.037	1.034	1.031	1.030	1.033	1.037	1.036	1.036	1.039	1.041	1.043	1.040	1.039	1.038	1.037	1.032				
54/51	1.031 1.036	6 1.032	1.027	1.030	1.029	1.034	1.034	1.035	1.035	1.036	1.042	1.038	1.035	1.035	1.034	1.032	1.029				
57/54	1.026 1.030	0 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				
60/57	1.026 1.028	8 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				
63/60	1.023 1.02	5 1.022	1.019	1.019	1.020	1.024	1.024	1.024	1.024	1.027	1.027	1.026	1.027	1.025	1.022	1.022					
66/63	1.026 1.02	1 1.020	1.020	1.018	1.021	1.023	1.024	1.026	1.026	1.029	1.029	1.024	1.028	1.023	1.021	1.018					
69/66	1.021 1.022	2 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					
72/69	1.022 1.018	8 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					
75/72	1.017 1.010	6 1.014	1.015	1.015	1.014	1.018	1.020	1.019	1.019	1.018	1.018	1.018	1.015	1.015	1.013						
78/75	1.018 1.01	5 1.014	1.015	1.016	1.015	1.016	1.018	1.017	1.022	1.019	1.018	1.017	1.016	1.015	1.013						
81/78	1.015 1.014	4 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						
84/81	1.013 1.012	2 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	1.011						
87/84	1.013 1.01	1 1.010	1.012	1.012	1.012	1.014	1.013	1.015	1.017	1.013	1.013	1.011	1.012	1.010							
90/87	1.013 1.012	2 1.011	1.013	1.012	1.013	1.015	1.013	1.015	1.013	1.013	1.012	1.011	1.012	1.009							
93/90	1.011 1.010	0 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							
96/93	1.010 1.010	0 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							

^{*} 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								Develop	oment							
<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>84-96</u>	<u>96-108</u>	<u>108-120</u>	120-132	<u>132-144</u>	<u>144-156</u>	<u>156-168</u>	<u>168-180</u>	<u>180-192</u>	192-204
1994																1.000
1995															1.001	1.000
1996														1.000	1.000	1.000
1997													1.000	1.000	1.000	1.000
1998												1.001	1.000	1.000	1.000	1.000
1999											1.001	1.000	1.000	1.000	1.000	1.000
2000										1.000	1.000	1.001	1.000	1.000	1.000	1.000
2001									1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2002								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2003							0.999	0.999	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000
2004						1.000	0.999	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005					1.001	1.001	1.000	1.000	1.000	1.000	0.999	1.000	1.000	1.000		
2006				1.002	1.001	1.000	1.001	1.001	1.000	1.000	1.000	1.000	1.000			
2007			1.006	1.004	1.002	1.000	1.001	1.000	1.000	1.000	1.000	1.000				
2008		1.022	1.011	1.005	1.003	1.001	1.001	1.001	1.000	1.000	1.000					
2009	1.189	1.028	1.011	1.006	1.004	1.001	1.001	1.000	1.000	1.000						
2010	1.215	1.029	1.011	1.006	1.002	1.002	1.001	1.000	1.000							
2011	1.229	1.032	1.013	1.005	1.002	1.001	1.001	1.001								
2012	1.244	1.034	1.010	1.005	1.003	1.001	1.001									
2013	1.248	1.025	1.010	1.005	1.002	1.001										
2014	1.215	1.027	1.010	1.004	1.002											
2015	1.236	1.027	1.006	1.003												
2016	1.244	1.029	1.006													
2017	1.220	1.021														
2018	1.217															
								Latest	Year							
	Age-to-Age															
	1.217	1.021	1.006	1.003	1.002	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	Age-to-Ultim															
	1.263	1.038	1.016	1.010	1.007	1.005	1.004	1.003	1.003	1.002	1.002	1.002	1.002	1.001	1.002	1.002

Quarterly Reported Indemnity Claim Count Development Factors

Accident							De	velopment							
Year	<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>
2008	2.539	1.651	1.336	1.093	1.025	1.015	1.010	1.008	1.006	1.004	1.003	1.003	1.002	1.003	1.002
2009	2.681	1.683	1.382	1.109	1.036	1.021	1.012	1.009	1.007	1.007	1.005	1.004	1.003	1.002	1.002
2010	2.688	1.708	1.407	1.124	1.037	1.021	1.015	1.011	1.008	1.005	1.005	1.003	1.004	1.003	1.001
2011	2.691	1.738	1.424	1.123	1.041	1.026	1.018	1.010	1.010	1.006	1.005	1.004	1.004	1.003	1.002
2012	2.749	1.727	1.420	1.123	1.050	1.028	1.018	1.012	1.010	1.007	1.004	1.004	1.003	1.007	1.001
2013	2.821	1.739	1.421	1.138	1.045	1.027	1.016	1.010	1.009	1.013	1.003	1.003	1.003	1.001	1.002
2014	2.778	1.723	1.421	1.130	1.045	1.037	1.015	1.010	1.008	1.004	1.003	1.003	1.003	1.002	1.002
2015	2.817	1.781	1.414	1.135	1.045	1.023	1.014	1.014	1.008	1.005	1.003	1.003	1.002	1.002	1.002
2016	2.733	1.717	1.410	1.144	1.045	1.027	1.017	1.012	1.010	1.005	1.004	1.003	1.002	1.002	1.002
2017	2.848	1.689	1.417	1.129	1.041	1.025	1.013	1.009	1.008	1.005	1.004				
2018	2.825	1.731	1.414	1.139	1.045	1.023	1.017								
2019	2.780	1.751	1.426												

Reported Indemnity Claim Settlement Ratios

Accident							Е	valuated	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>	<u>96</u>	<u>108</u>	<u>120</u>	<u>132</u>	<u>144</u>	<u>156</u>	<u>168</u>	<u>180</u>	<u>192</u>	204
1994																	98.9%
1995																98.5%	98.7%
1996															98.2%	98.4%	98.6%
1997														97.7%	98.0%	98.2%	98.4%
1998													97.1%	97.5%	97.8%	98.0%	98.2%
1999												96.6%	97.0%	97.3%	97.7%	97.9%	98.1%
2000											95.5%	96.2%	96.6%	97.2%	97.5%	97.8%	98.0%
2001										93.5%	94.5%	95.2%	96.0%	96.5%	96.9%	97.3%	97.6%
2002									92.4%	93.7%	94.6%	95.7%	96.3%	96.8%	97.3%	97.7%	98.0%
2003								90.6%	92.4%	93.7%	95.1%	95.9%	96.4%	97.0%	97.5%	97.9%	98.3%
2004							88.2%	90.6%	92.4%	94.3%	95.3%	96.0%	96.8%	97.3%	97.8%	98.2%	
2005						85.4%	88.5%	90.8%	93.0%	94.4%	95.5%	96.4%	97.0%	97.6%	98.1%		
2006					81.0%	85.2%	88.2%	91.2%	93.0%	94.3%	95.5%	96.4%	97.1%	97.7%			
2007				73.5%	80.2%	84.6%	88.7%	91.3%	93.2%	94.8%	95.9%	96.7%	97.4%				
2008			61.8%	72.0%	79.1%	84.9%	88.7%	91.5%	93.6%	95.1%	96.2%	97.0%					
2009		46.2%	59.9%	70.6%	79.0%	84.5%	88.5%	91.7%	93.8%	95.3%	96.4%						
2010	26.9%	46.7%	60.6%	72.4%	80.5%	85.9%	90.1%	92.8%	94.7%	96.0%							
2011	27.5%	47.1%	62.1%	73.6%	81.5%	87.0%	90.9%	93.6%	95.4%								
2012	27.4%	47.8%	63.1%	74.9%	82.9%	88.4%	92.0%	94.4%									
2013	26.8%	48.1%	64.3%	76.5%	84.7%	89.8%	93.1%										
2014	26.4%	49.1%	65.8%	78.1%	86.1%	90.7%											
2015	26.8%	50.5%	68.2%	80.5%	87.8%												
2016	28.2%	53.4%	70.9%	82.4%													
2017	30.4%	56.3%	73.2%														
2018	31.0%	56.4%															
2019	31.4%																

Estimated Ultimate Indemnity Claim Settlement Ratios

Accident							E	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>	<u>96</u>	<u>108</u>	<u>120</u>	<u>132</u>	<u>144</u>	<u>156</u>	<u>168</u>	<u>180</u>	<u>192</u>	204
1994																	98.6%
1995																98.3%	98.5%
1996															98.0%	98.2%	98.4%
1997														97.4%	97.7%	97.9%	98.2%
1998													96.8%	97.2%	97.5%	97.8%	98.0%
1999												96.3%	96.7%	97.1%	97.5%	97.8%	98.0%
2000											95.2%	95.9%	96.4%	97.0%	97.3%	97.6%	97.9%
2001										93.2%	94.2%	95.0%	95.8%	96.3%	96.7%	97.1%	97.5%
2002									92.3%	93.5%	94.5%	95.6%	96.2%	96.7%	97.1%	97.5%	97.8%
2003								90.6%	92.3%	93.6%	95.0%	95.7%	96.2%	96.9%	97.3%	97.7%	98.1%
2004							88.3%	90.6%	92.4%	94.2%	95.2%	95.9%	96.6%	97.2%	97.6%	98.0%	
2005						85.3%	88.4%	90.7%	93.0%	94.4%	95.4%	96.3%	96.9%	97.5%	97.9%		
2006					80.6%	84.9%	88.0%	90.9%	92.8%	94.2%	95.4%	96.3%	97.0%	97.5%			
2007				72.8%	79.7%	84.2%	88.4%	91.1%	92.9%	94.6%	95.7%	96.6%	97.3%				
2008			60.3%	71.1%	78.4%	84.5%	88.3%	91.1%	93.4%	94.8%	96.0%	96.8%					
2009		43.9%	58.4%	69.6%	78.3%	84.0%	88.1%	91.5%	93.5%	95.1%	96.2%						
2010	20.9%	44.3%	59.1%	71.4%	79.8%	85.4%	89.7%	92.5%	94.5%	95.8%							
2011	21.2%	44.5%	60.5%	72.7%	80.9%	86.6%	90.6%	93.3%	95.1%								
2012	20.9%	45.2%	61.7%	73.9%	82.3%	87.9%	91.7%	94.1%									
2013	20.5%	45.9%	63.0%	75.7%	84.1%	89.3%	92.8%										
2014	20.7%	46.8%	64.4%	77.2%	85.5%	90.2%											
2015	20.8%	48.4%	67.2%	79.7%	87.2%												
2016	21.7%	51.1%	69.8%	81.6%													
2017	24.0%	54.2%	72.1%														
2018	24.6%	54.3%															
2019	24.9%																

Source: WCIRB quarterly calls for experience

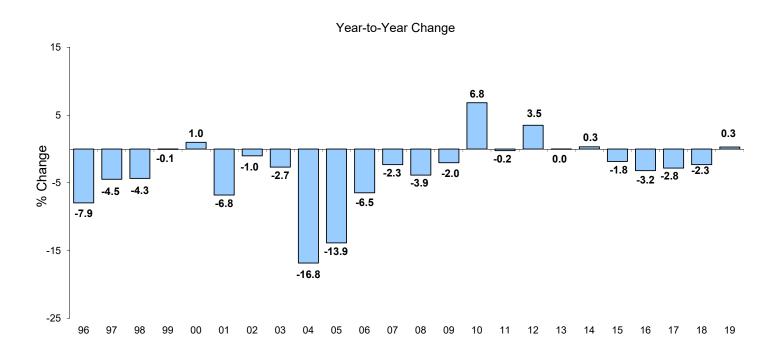
Quarterly Ultimate Settlement Ratios

Accident							Eval	uated as of	(in months)	:						
<u>Year</u>	<u>3</u>	<u>6</u>	<u>9</u>	<u>12</u>	<u>15</u>	<u>18</u>	<u>21</u>	<u>24</u>	<u>27</u>	<u>30</u>	<u>33</u>	<u>36</u>	<u>39</u>	<u>42</u>	<u>45</u>	<u>48</u>
2010	0.6%	4.7%	11.9%	21.1%	29.9%	35.9%	40.2%	44.5%	48.3%	52.2%	55.8%	59.3%	62.5%	65.9%	68.9%	71.8%
2011	0.8%	5.1%	12.0%	21.3%	29.7%	35.9%	40.3%	44.7%	48.6%	52.9%	56.8%	60.8%	64.1%	67.1%	70.2%	72.9%
2012	0.8%	5.1%	12.1%	21.2%	29.5%	35.9%	40.8%	45.6%	49.8%	54.1%	58.3%	62.2%	65.6%	68.8%	71.7%	74.4%
2013	0.9%	5.1%	11.8%	21.0%	29.4%	36.0%	41.4%	46.4%	51.0%	55.5%	59.6%	63.6%	67.1%	70.5%	73.4%	76.2%
2014	0.8%	4.8%	11.8%	20.8%	29.6%	36.4%	42.1%	47.3%	52.0%	56.5%	60.8%	64.8%	68.2%	71.7%	74.6%	77.5%
2015	0.8%	4.8%	12.2%	21.2%	30.4%	37.8%	43.5%	48.8%	53.9%	59.0%	63.4%	67.5%	71.1%	74.4%	77.4%	80.0%
2016	0.8%	5.1%	12.3%	21.9%	31.7%	39.5%	45.5%	51.3%	56.3%	61.5%	65.9%	70.1%	73.7%	76.9%	79.3%	81.6%
2017	0.9%	5.6%	13.5%	24.2%	34.2%	42.1%	48.3%	54.2%	59.1%	64.0%	68.1%	72.1%				
2018	1.0%	5.8%	13.9%	24.6%	34.7%	42.6%	48.6%	54.3%								
2019	1.0%	5.9%	13.7%	24.9%												
Accident							Quarterly In	ncremental (Change							
<u>Year</u>	<u>3-6</u>	<u>6-9</u>	<u>9-12</u>	<u>12-15</u>	<u>15-18</u>	<u>18-21</u>	21-24	<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>	45-48	
2010	4.1%	7.2%	9.2%	8.8%	6.0%	4.3%	4.3%	3.8%	3.9%	3.5%	3.5%	3.2%	3.4%	3.0%	2.9%	
2011	4.3%	6.9%	9.3%	8.5%	6.1%	4.5%	4.3%	3.9%	4.4%	3.9%	4.0%	3.3%	3.1%	3.0%	2.7%	
2012	4.2%	7.1%	9.1%	8.3%	6.4%	4.8%	4.9%	4.1%	4.3%	4.2%	3.9%	3.4%	3.2%	3.0%	2.7%	
2013	4.2%	6.7%	9.1%	8.4%	6.6%	5.4%	5.0%	4.6%	4.5%	4.1%	3.9%	3.6%	3.4%	2.9%	2.8%	
2014	4.1%	6.9%	9.1%	8.8%	6.7%	5.8%	5.1%	4.8%	4.5%	4.3%	4.0%	3.4%	3.5%	2.9%	2.8%	
2015	4.0%	7.4%	9.0%	9.3%	7.4%	5.7%	5.3%	5.1%	5.1%	4.4%	4.1%	3.6%	3.4%	3.0%	2.6%	
2016	4.2%	7.3%	9.6%	9.8%	7.8%	6.0%	5.8%	5.0%	5.2%	4.3%	4.3%	3.6%	3.2%	2.3%	2.3%	
2017	4.8%	7.8%	10.7%	10.0%	7.9%	6.2%	5.9%	5.0%	4.9%	4.1%	4.0%	-	-			
2018	4.9%	8.1%	10.7%	10.1%	7.9%	6.0%	5.7%									
2019	4.9%	7.9%	11.1%													

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 87% to 100% of the total California workers' compensation insured market measured using 2019 earned premium levels).

Source: WCIRB quarterly calls for experience

California Workers' Compensation Estimated Indemnity Claim Frequency by Accident Year



Note:

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