

## **Actuarial Committee**

### **Meeting Agenda**

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Released: March 12, 2018

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

#### I. Approval of Minutes

Meeting held on December 6, 2017

#### II. Working Group Meeting Summaries

Actuarial Research Working Group Meeting held February 28, 2018

#### III. Unfinished Business

- A. AC12-12-02: Review of Trending Methodology
- B. AC17-04-04: New Drug Formulary
- C. AC17-12-03: On-leveling for Wage Level Changes in Pure Premium Ratemaking

#### IV. New Business

- A. AC18-03-01: First Quarter 2018 Review of Diagnostics
- B. AC18-03-02: 12/31/2017 Experience Review of Methodologies
- C. AC18-03-03: Impact of SB 1160 & AB 1244 on Loss Development

#### V. Matters Arising at Time of Meeting

- VI. Next Meeting Date: April 3, 2018
- VII. Adjournment

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#### **Actuarial Research Working Group**

## **Meeting Summary**

To: Participants of the Actuarial Research Working Group

From: Ward Brooks
Date: March 8, 2018

RE: Summary of February 28, 2018 Meeting

#### **Insurer Meeting Participants Were Reminded of the Antitrust Notice**

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#### **Discussion Topics**

At the meeting, the following topics were discussed.

#### 1. Maximum Payroll Limitations

The Working Group was informed that WCIRB staff is currently leading a multi-jurisdictional working group to review payroll as the basis of premium for workers' compensation insurance. The goals of the review are to ensure that the payroll reported for workers' compensation purposes (1) provides a basis of exposure that is reasonably correlated with the losses expected to emerge, (2) mitigates the risk of potential manipulation and (3) can be reasonably and efficiently audited by insurers. Related to this review, staff is evaluating expansion of the maximum payroll limitations for select classifications that have exhibited significant year-to-year variations in payrolls. Currently, the five classifications with payroll limitations are:

- 7610, Radio, Television or Commercial Broadcasting Stations
- 9151, Theaters Musical Entertainment
- 9156, Theaters dance, opera and theater companies
- 9181, Athletic Teams or Athletic Facilities
- 9610, Motion Pictures production

The Working Group was advised that the expansion of the maximum payroll limitations were also expected to address concerns with equity-based compensation plans, such as compensation with restricted stock units and, in some cases, volatility associated with year-to-year swings in pure premium rates and expected loss rates for classifications with only one significant digit of refinement.

Staff reviewed for the Working Group the general proposed approach to adjusting historical unlimited payrolls to a limited basis. Staff noted that the one-time change due to the

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implementation of the maximum payroll limitation need not be shown on the rate relativity review sheet but might be shown elsewhere and that the change was intended to have no impact on collected pure premiums. The pure premiums developed by applying higher rates to limited payrolls was expected to be equal to the pure premium previously developed by applying lower rates to unlimited payrolls.

Staff reviewed for the Working Group the development of the factors to adjust historical unlimited payrolls to a limited basis. Staff discussed the review of available data sources to develop factors to adjust historical insured payrolls to a basis with a maximum payroll limitation. Staff noted that when mappings between WCIRB classifications and occupations or industries are good, the American Community Survey (ACS) provided refined data that could be used to estimate the shares of wages and salaries expected to be above annual salary thresholds for select occupations and industries. The ACS data is available at both occupation and industry levels, and either can be used independently or in combination. Staff noted that the ACS source allows the exclusion of data for officers of companies, for example, if this data is expected to be excluded from insured payrolls. Staff noted that the appropriateness of development of an adjustment using this approach would need to be evaluated for each classification on a case-by-case basis.

Staff reviewed for the Working Group the development of adjustments for Classification 8859, Computer Programming or Software Development, using ACS data for the North American Industrial Classification System (NAICS) software publishing industry (NAICS 5112). Staff reviewed the approaches available to adapt the ACS data to develop adjustment factors. The Working Group was informed that staff would determine which kinds of adjustments were appropriate and that the methodology would be used only if staff determined such adjustments were reasonable. Staff determined that definitional differences among data sources required adapting ACS data to develop appropriate factors for each year. Staff noted that other information, such as test audits of payroll determinations, might be reviewed to vet the reasonableness of any assumptions required to adapt the ACS data.

The Working Group discussed the proposed methodologies. A Working Group member noted that, while the approach seemed sound, the magnitude of adjustments was very large. Staff noted that the magnitude of any potential adjustment was directly related to the impetus for implementing the maximum payroll limitation and therefore expected. Staff suggested that the magnitude of the adjustment and making an adjustment using the approaches reviewed would be considered relative to developing adjustments using survey methods, which would necessitate insurer involvement, or making no change.

#### 2. Retrospective Rating Tables of Insurance Charges—Policy Year 2019 Update

The Working Group was informed that staff was now completing the last set of rating values—the tables of insurance charges—in the final stage of the multi-year update of the advisory *California Retrospective Rating Plan*. Staff advised the Working Group that staff had retained the approach of smoothing out the insurance charges resulting from stochastic simulations and only made minor technical enhancements related to the significant increase in the numbers of simulations from 5 to 100, an ability to use all data at a detailed level without the need to bin data, and a change in the software used to do the smoothing. Staff provided an overview of the methodology and noted that changes in insurance charges were substantially in line with changes in experience and the loss elimination ratios.

Staff noted that the previous need to bin data had resulted in larger insurance charges than would have been developed using detailed data for smaller risks. Insurance charges were not expected to have been used for these risks.

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### 3. Retrospective Rating Supplementary Information—Parametric Excess Loss Curves

The Working Group was informed that staff had investigated fitting the simulated losses of the retro database in order to provide parametric excess loss curves, which are published for other jurisdictions, using a weighted mixture of lognormal distributions. Staff noted that a methodological adjustment to group claims by open/closed status, rather than likely/not likely groupings used in other jurisdictions, was done to be consistent with the manner in which the claim simulations are conducted.

The Working Group was informed that staff also examined modeling permanent partial and temporary total claims both together and separately. The impetus for separately modeling them was that differences in their size of loss distributions are evident in the retro starting database and manifest themselves in simulated ultimate values.

Staff reviewed how closely the loss elimination ratios from the parameterizations replicated promulgated values. Staff noted that separate modeling of permanent partial and temporary total claims more closely replicated promulgated values, but both methods resulted in much higher elimination ratios at very high limits. The Working Group was informed that staff had also developed a lognormal-Pareto hybrid parameterization that used the lognormal results up to a \$2,000,000 limit, and then used the Pareto smoothing for the promulgated values. The hybrid model also sets the share of total claims excess \$2,000,000 to the share underlying the promulgated values. This adjustment brought the parametric curves much more in line with the promulgated results, but significant differences remain.

Staff noted that the parametric loss elimination ratios had been developed both for pure losses and for loss and allocated loss adjustment expense (ALAE). The Working Group discussed staff's findings. The Working Group also noted that different results might be useful for different purposes. Staff informed the Working Group that staff expected to publish the parameters for the different alternatives as supplementary information on the WCIRB's website.

#### 4. Experience Modifications by Industry, Classification and Region

The Working Group was informed that staff had received requests to explore development of information on experience modifications, cost differentials and potentially other information at a classification-regional level. Staff discussed that this request shared technical challenges that might need to be addressed if expected long-run earthquake costs were developed at an industry level. Staff noted that if, for example, the expected statewide earthquake losses for information technology exposures were high due to the high concentration of information technology exposures in high earthquake hazard zones, that the expected earthquake losses in lower earthquake hazard zones might be lower than the statewide expectation.

The Working Group was informed that staff had developed information similar to this to produce insurer regional loss ratio relativities in the WCIRB's Annual Business Comparative (ABC) reports. In the ABC report, the metric is the ratio of an insurer's regional losses to modified pure premiums by classification, allocated to regions. Staff noted that unrated employers were treated as having a unity experience modification. The ABC report metric controls for differences in classification mix but assumes an experience modification does not vary by classification or region. A single location employer's experience modification might reflect both a regional differential as well as the employer's credibility-weighted relative experience within the region. For multi-region employers, the experience modification might reflect mixtures of these elements.

Staff reviewed for the Working Group the approaches staff had evaluated to date. The Working Group was informed that approaches such as generalized linear models had not produced satisfactory results but agreed to share these results at future meetings to compare with results

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developed from other approaches. Staff reviewed an approach which sought to identify regional differentials separately through an iterative process using similar data as used to develop the ABC report metric. The Working Group was informed that staff had developed relative loss ratios using geo-located paid losses from the WCIRB's transactional medical data. A Working Group member suggested that staff also explore using incurred losses and the Working Group discussed the potential for a disconnect between paid and incurred losses, especially at early maturities. Additionally, in order to evaluate how influential regional differentials were on experience modifications, a Working Group member suggested that staff also evaluate approaches using unmodified losses.

Staff is evaluating the potential to further refine this metric to estimate the impact on experience modifications on both regions and classifications or industries simultaneously. Staff reviewed the commonalities between the problem of disentangling the correlation between the regional effects and classification-level experience effects and the problem of disentangling the contributions to expected earthquake costs by classification and region. Staff expects that the potential integration of expected earthquake costs in pure premium rates might require the development of an approach to measure the relative contributions if earthquake costs were to be reflected at a classification or industry level.

# Item AC12-12-02 Review of Trending Methodology

At the August 2, 2017 meeting, the Committee reviewed the latest retrospective analysis of trending methodologies that has been reviewed by the Committee periodically since 2012. At that meeting, a Committee member noted that, based on an initial review of the information presented, methods based on trending from the latest year generally appeared more accurate than those based on trending from the latest two years (the methodology reflected in the last several pure premium rate filings). However, it was noted that trending from the latest year may overstate trends during periods of significant transition and there was concern regarding potential over-reliance on the latest year, which is typically valued at 12 or 15 months in pure premium rate filings, given its relative immaturity. Staff's follow-up analysis regarding these issues is summarized below.

In prior reviews of the trending methodology, the basis of the retrospective analysis was the most recent on-level loss ratio projection for each accident year. In order to assess the trending methodology's effectiveness for less mature periods, the basis of this analysis was reported paid and incurred indemnity and medical loss ratios valued at 12 months and 15 months for accident years 1994 through 2016. Each of the 12-month and 15-month loss ratios were developed to ultimate based primarily on the latest year paid or incurred development method using loss development factors available at that maturity for the accident year. No reform adjustments were applied to the loss development projections to preserve consistency but, as in the WCIRB's current loss development methodology, three-year average paid or six-year average incurred development was applied after 108 months, and six-year average incurred development was applied to the paid development method after 228 months.

Although the loss development projection was based on the loss development factors available at 12 or 15 months for the accident year, each projected ultimate loss ratio was on-leveled to the current (January 1, 2018 Filing) loss level using the most recent premium and loss on-level factors. In this way, changes in the assessment of the cost impact of reforms or other system changes will not be the primary driver of differences between the latest year and two-year average trending methodologies.

The on-level loss ratios computed as described above were trended forward to project the accident year two years after the latest historical year using both the separate frequency and severity trending method reflected in the last several WCIRB pure premium rate filings and the combined loss ratio trending method. For the frequency and severity trending method, the frequency projections were based on the actual 12-month or 15-month indemnity claim frequency change for the first year (in the two-year average method) and the most recent indemnity claim frequency model projections for the other two years. The severity projections were based on longer-term average annual severity trends based on the most recent projected on-level claim severities; specifically, from 1991 and forward for accident years 1996 through 2008, and 2005 and forward for accident years 2009 through 2016. For the loss ratio trending method, a five-year average annual exponential trend was selected. The "actual" loss ratio used to compare the accuracy of the trending methods was based on the March 31, 2017 evaluation of each accident year developed to ultimate based on the incurred or paid loss development methodology described above.

Exhibits 1.1 through 1.4 show the relative difference in accuracy between the latest year and two-year average trending methods under the alternative loss development and trending methodologies. The "relative error" shown in Exhibits 1.1 through 1.4 represent the absolute error from the latest year trending method less the absolute error from the two-year average trending method. In other words, positive

<sup>&</sup>lt;sup>1</sup> The frequency model constant term was kept consistent at -0.02 for all years in the analysis.

<sup>&</sup>lt;sup>2</sup> A single severity trend selection method was chosen for consistency, but this method is similar to approaches used to select the severity trends in prior pure premium rate filings.

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values indicate that the two-year average trending method was more accurate while negative values indicate the latest year trending method was more accurate. These values are shown graphically for paid development using the separate frequency and severity trending methodology in Exhibits 2.1 and 2.2. On average, the two-year average trending method was relatively more accurate, particularly for December evaluations in which the latest accident year is projected from 12 months. The two-year average trending method was also generally more accurate during periods during which the loss ratio trends were changing direction (highlighted in the boxes on Exhibits 1.1 through 2.2).

Exhibits 3.1 and 3.2 summarize the results by claims environment. Generally, the two-year average trending method was more accurate than the latest year trending method overall and in most claims environments, although the latest year trending method was more accurate in the most recent post-SB 863 period (2015 and 2016). However, it should be noted that the loss development on the "actual" loss ratios for this most recent period is more leveraged than for the other periods given the relative immaturity of those accident years.

Based on Frequency and Severity Trends Applied to On-Level Ratios

|           | Based on In                  | demnity Incurred [ | Development           |   | Based on N                   | Medical Incurred De | velopment             |
|-----------|------------------------------|--------------------|-----------------------|---|------------------------------|---------------------|-----------------------|
|           | Year-to-Year                 | Relative           | e Errors <sup>2</sup> |   | Year-to-Year                 | Relative            | e Errors <sup>2</sup> |
|           | Change in                    | Dec. Valuations    | Mar. Valuations       |   | Change in                    | Dec. Valuations     | Mar. Valuations       |
|           | "Actual" Ratios <sup>1</sup> | (12 or 24 mo.)     | (15 or 27 mo.)        |   | "Actual" Ratios <sup>1</sup> | (12 or 24 mo.)      | (15 or 27 mo.)        |
| 1997      | 0.012                        | 0.008              | 0.014                 |   | 0.025                        | 0.006               | 0.009                 |
| 1998      | -0.001                       | 0.015              | 0.015                 |   | 0.013                        | 0.010               | 0.007                 |
| 1999      | 0.006                        | 0.007              | 0.010                 |   | -0.004                       | 0.001               | 0.002                 |
| 2000      | 0.006                        | 0.018              | 0.036                 |   | 0.012                        | 0.017               | 0.022                 |
| 2001      | -0.010                       | 0.051              | -0.002                |   | -0.012                       | 0.015               | 0.010                 |
| 2002      | -0.005                       | 0.000              | 0.019                 |   | 0.005                        | 0.000               | -0.009                |
| 2003      | -0.019                       | -0.024             | -0.039                |   | -0.011                       | -0.028              | -0.043                |
| 2004      | -0.021                       | -0.008             | -0.008                |   | 0.030                        | 0.005               | 0.005                 |
| 2005      | 0.011                        | 0.006              | 0.005                 | • | 0.006                        | -0.001              | 0.006                 |
| 2006      | -0.001                       | 0.031              | 0.025                 |   | 0.014                        | 0.038               | 0.029                 |
| 2007      | 0.010                        | -0.003             | -0.001                |   | 0.021                        | -0.008              | -0.009                |
| 2008      | -0.003                       | 0.004              | -0.001                |   | 0.008                        | -0.008              | -0.016                |
| 2009      | 0.013                        | 0.003              | 0.000                 |   | 0.016                        | 0.006               | 0.002                 |
| 2010      | 0.012                        | 0.004              | 0.003                 |   | 0.018                        | 0.001               | 0.002                 |
| 2011      | 0.001                        | -0.001             | -0.003                |   | -0.011                       | 0.000               | 0.001                 |
| 2012      | -0.004                       | -0.004             | -0.004                | • | -0.003                       | -0.003              | -0.006                |
| 2013      | -0.010                       | 0.003              | 0.003                 |   | -0.009                       | 0.004               | 0.007                 |
| 2014      | -0.018                       | -0.007             | -0.005                |   | 0.000                        | 0.001               | 0.002                 |
| 2015      | 0.011                        | -0.002             | -0.006                |   | 0.010                        | -0.008              | -0.015                |
| 2016      | -0.013                       | -0.015             | -0.014                |   | -0.006                       | -0.006              | -0.007                |
| All Voors | Average:                     | 0.004              | 0.002                 |   |                              | 0.002               | 0.000                 |
|           | reas Average <sup>3</sup> :  | 0.004              | 0.002                 |   |                              | 0.002               | -0.002                |
| DUXEU A   | icas Avelage .               | 0.000              | 0.000                 |   |                              | 0.001               | -0.002                |

<sup>&</sup>lt;sup>1</sup> Based on projections as of March 31, 2017.

<sup>&</sup>lt;sup>2</sup> Relative error measures the difference between the absolute error from the projection based on latest year trending method less the absolute error from the projection based on two-year average trending method. Positive values indicate the two year average method performed better while negative values indicate the latest year method performed better.

<sup>&</sup>lt;sup>3</sup> Points in the boxed areas represent periods of changing trend direction.

Based on Frequency and Severity Trends Applied to On-Level Ratios

|            | Based on                     | Indemnity Paid De | velopment             |   | Based or                     | Medical Paid Deve | elopment              |
|------------|------------------------------|-------------------|-----------------------|---|------------------------------|-------------------|-----------------------|
|            | Year-to-Year                 | Relative          | e Errors <sup>2</sup> |   | Year-to-Year                 | Relative          | e Errors <sup>2</sup> |
|            | Change in                    | Dec. Valuations   | Mar. Valuations       |   | Change in                    | Dec. Valuations   | Mar. Valuations       |
|            | "Actual" Ratios <sup>1</sup> | (12 or 24 mo.)    | (15 or 27 mo.)        |   | "Actual" Ratios <sup>1</sup> | (12 or 24 mo.)    | (15 or 27 mo.)        |
| 1997       | 0.012                        | -0.002            | -0.002                |   | 0.025                        | 0.004             | 0.005                 |
| 1998       | 0.000                        | -0.005            | -0.003                |   | 0.012                        | 0.007             | 0.005                 |
| 1999       | 0.008                        | 0.007             | 0.010                 |   | 0.002                        | 0.001             | 0.004                 |
| 2000       | 0.006                        | 0.012             | 0.041                 |   | 0.014                        | 0.016             | 0.021                 |
| 2001       | -0.010                       | 0.086             | 0.000                 |   | -0.013                       | 0.058             | 0.010                 |
| 2002       | -0.003                       | -0.004            | -0.010                |   | 0.010                        | 0.004             | -0.001                |
| 2003       | -0.022                       | 0.022             | 0.001                 |   | -0.012                       | 0.027             | 0.037                 |
| 2004       | -0.022                       | -0.004            | -0.004                |   | 0.031                        | -0.003            | -0.004                |
| 2005       | 0.011                        | 0.008             | 0.006                 |   | 0.007                        | 0.008             | 0.005                 |
| 2006       | -0.001                       | 0.038             | 0.037                 |   | 0.016                        | 0.024             | -0.014                |
| 2007       | 0.011                        | 0.031             | 0.006                 |   | 0.024                        | -0.011            | -0.010                |
| 2008       | -0.001                       | -0.003            | -0.006                |   | 0.012                        | -0.008            | -0.015                |
| 2009       | 0.015                        | -0.001            | -0.001                |   | 0.022                        | 0.004             | 0.004                 |
| 2010       | 0.017                        | 0.000             | 0.001                 |   | 0.030                        | -0.007            | -0.003                |
| 2011       | 0.002                        | 0.001             | 0.001                 |   | -0.014                       | 0.003             | 0.004                 |
| 2012       | -0.001                       | 0.004             | 0.004                 |   | 0.005                        | 0.009             | 0.010                 |
| 2013       | -0.005                       | -0.001            | 0.000                 |   | -0.006                       | -0.009            | -0.005                |
| 2014       | -0.018                       | 0.000             | -0.001                |   | 0.005                        | -0.006            | -0.007                |
| 2015       | 0.012                        | -0.009            | -0.009                | • | 0.011                        | -0.010            | -0.018                |
| 2016       | -0.005                       | 0.005             | 0.007                 |   | 0.006                        | -0.008            | -0.005                |
| All Years  | Average:                     | 0.009             | 0.004                 |   |                              | 0.005             | 0.001                 |
|            | reas Average <sup>3</sup> :  | 0.018             | 0.005                 |   |                              | 0.010             | 0.006                 |
| - 3/104 /1 |                              | 0.010             | 0.003                 |   |                              | 0.010             | 0.000                 |

<sup>&</sup>lt;sup>1</sup> Based on projections as of March 31, 2017.

<sup>&</sup>lt;sup>2</sup> Relative error measures the difference between the absolute error from the projection based on latest year trending method less the absolute error from the projection based on two-year average trending method. Positive values indicate the two year average method performed better while negative values indicate the latest year method performed better.

<sup>&</sup>lt;sup>3</sup> Points in the boxed areas represent periods of changing trend direction.

Based on Combined Loss Ratio Trend Applied to On-Level Ratios

|           | Based on In                  | demnity Incurred [ | Development           | Based on N                   | Medical Incurred De | velopment             |
|-----------|------------------------------|--------------------|-----------------------|------------------------------|---------------------|-----------------------|
|           | Year-to-Year                 | Relative           | e Errors <sup>2</sup> | Year-to-Year                 | Relative            | e Errors <sup>2</sup> |
|           | Change in                    | Dec. Valuations    | Mar. Valuations       | Change in                    | Dec. Valuations     | Mar. Valuations       |
|           | "Actual" Ratios <sup>1</sup> | (12 or 24 mo.)     | (15 or 27 mo.)        | "Actual" Ratios <sup>1</sup> | (12 or 24 mo.)      | (15 or 27 mo.)        |
| 1997      | 0.012                        | 0.014              | 0.019                 | 0.025                        | 0.008               | 0.009                 |
| 1998      | -0.001                       | 0.014              | 0.020                 | 0.013                        | 0.007               | 0.006                 |
| 1999      | 0.006                        | 0.004              | 0.003                 | -0.004                       | -0.006              | -0.008                |
| 2000      | 0.006                        | 0.015              | 0.036                 | 0.012                        | 0.008               | 0.007                 |
| 2001      | -0.010                       | 0.063              | -0.004                | -0.012                       | 0.005               | 0.002                 |
| 2002      | -0.005                       | -0.006             | -0.001                | 0.005                        | -0.002              | -0.008                |
| 2003      | -0.019                       | -0.013             | -0.014                | -0.011                       | 0.019               | 0.006                 |
| 2004      | -0.021                       | -0.003             | 0.001                 | 0.030                        | -0.015              | -0.011                |
| 2005      | 0.011                        | 0.007              | 0.000                 | 0.006                        | 0.009               | 0.011                 |
| 2006      | -0.001                       | 0.014              | 0.006                 | 0.014                        | 0.002               | -0.018                |
| 2007      | 0.010                        | 0.026              | 0.030                 | 0.021                        | 0.004               | 0.002                 |
| 2008      | -0.003                       | 0.032              | 0.024                 | 0.008                        | -0.002              | -0.004                |
| 2009      | 0.013                        | 0.008              | 0.005                 | 0.016                        | -0.008              | -0.011                |
| 2010      | 0.012                        | 0.010              | 0.009                 | 0.018                        | -0.009              | -0.007                |
| 2011      | 0.001                        | 0.001              | -0.004                | -0.011                       | -0.009              | -0.013                |
| 2012      | -0.004                       | -0.009             | -0.011                | -0.003                       | 0.012               | 0.022                 |
| 2013      | -0.010                       | 0.004              | 0.011                 | -0.009                       | 0.016               | 0.017                 |
| 2014      | -0.018                       | 0.005              | 0.004                 | 0.000                        | 0.030               | 0.028                 |
| 2015      | 0.011                        | 0.005              | 0.005                 | 0.010                        | 0.017               | 0.016                 |
| 2016      | -0.013                       | -0.018             | -0.018                | -0.006                       | 0.007               | 0.004                 |
| All Years | Average:                     | 0.009              | 0.006                 |                              | 0.005               | 0.003                 |
| Boxed A   | reas Average <sup>3</sup> :  | 0.014              | 0.004                 |                              | 0.004               | 0.001                 |

<sup>&</sup>lt;sup>1</sup> Based on projections as of March 31, 2017.

<sup>&</sup>lt;sup>2</sup> Relative error measures the difference between the absolute error from the projection based on latest year trending method less the absolute error from the projection based on two-year average trending method. Positive values indicate the two year average method performed better while negative values indicate the latest year method performed better.

<sup>&</sup>lt;sup>3</sup> Points in the boxed areas represent periods of changing trend direction.

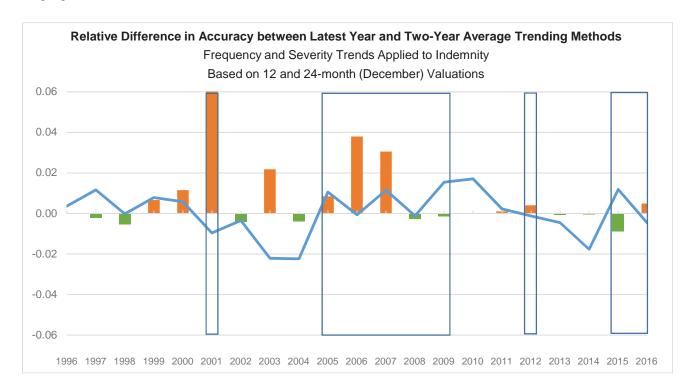
Based on Combined Loss Ratio Trend Applied to On-Level Ratios

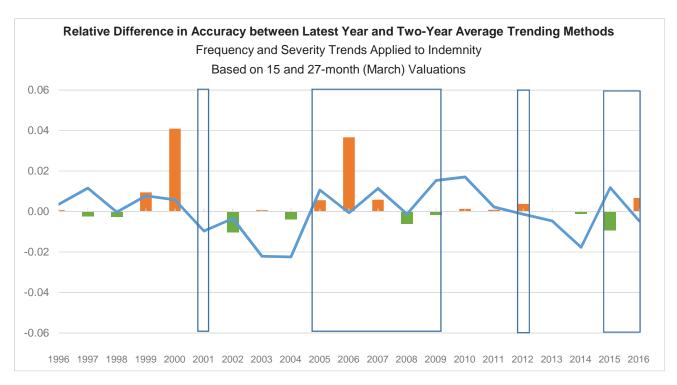
|           | Based on                     | Indemnity Paid De | velopment             | Based or                     | Medical Paid Deve | lopment               |
|-----------|------------------------------|-------------------|-----------------------|------------------------------|-------------------|-----------------------|
|           | Year-to-Year                 | Relative          | e Errors <sup>2</sup> | Year-to-Year                 | Relative          | e Errors <sup>2</sup> |
|           | Change in                    | Dec. Valuations   | Mar. Valuations       | Change in                    | Dec. Valuations   | Mar. Valuations       |
|           | "Actual" Ratios <sup>1</sup> | (12 or 24 mo.)    | (15 or 27 mo.)        | "Actual" Ratios <sup>1</sup> | (12 or 24 mo.)    | (15 or 27 mo.)        |
| 1997      | 0.012                        | 0.007             | 0.000                 | 0.025                        | 0.006             | 0.004                 |
| 1998      | 0.000                        | 0.000             | 0.002                 | 0.012                        | 0.003             | 0.004                 |
| 1999      | 0.008                        | 0.000             | 0.000                 | 0.002                        | -0.005            | -0.005                |
| 2000      | 0.006                        | 0.005             | 0.066                 | 0.014                        | 0.005             | 0.017                 |
| 2001      | -0.010                       | 0.151             | -0.001                | -0.013                       | 0.078             | 0.003                 |
| 2002      | -0.003                       | 0.000             | -0.001                | 0.010                        | 0.003             | 0.001                 |
| 2003      | -0.022                       | 0.018             | 0.014                 | -0.012                       | 0.019             | 0.019                 |
| 2004      | -0.022                       | 0.000             | 0.002                 | 0.031                        | -0.012            | -0.015                |
| 2005      | 0.011                        | 0.008             | 0.000                 | 0.007                        | -0.015            | -0.009                |
| 2006      | -0.001                       | 0.023             | 0.020                 | 0.016                        | -0.018            | -0.012                |
| 2007      | 0.011                        | 0.011             | 0.005                 | 0.024                        | 0.000             | 0.001                 |
| 2008      | -0.001                       | 0.019             | 0.014                 | 0.012                        | -0.001            | -0.002                |
| 2009      | 0.015                        | 0.002             | 0.002                 | 0.022                        | -0.005            | -0.005                |
| 2010      | 0.017                        | 0.005             | 0.006                 | 0.030                        | -0.013            | -0.011                |
| 2011      | 0.002                        | 0.004             | 0.001                 | -0.014                       | -0.006            | -0.008                |
| 2012      | -0.001                       | -0.006            | -0.009                | 0.005                        | -0.014            | -0.016                |
| 2013      | -0.005                       | -0.007            | -0.008                | -0.006                       | 0.006             | 0.003                 |
| 2014      | -0.018                       | 0.011             | 0.008                 | 0.005                        | -0.018            | -0.015                |
| 2015      | 0.012                        | -0.001            | 0.003                 | 0.011                        | -0.013            | 0.006                 |
| 2016      | -0.005                       | -0.018            | -0.018                | 0.006                        | -0.004            | 0.007                 |
| All Vears | Average:                     | 0.012             | 0.005                 |                              | 0.000             | -0.002                |
|           | reas Average <sup>3</sup> :  | 0.021             | 0.003                 |                              | 0.007             | -0.002                |
| DUNEU A   | icus Avelage .               | 0.021             | 0.002                 |                              | 0.007             | -0.004                |

<sup>&</sup>lt;sup>1</sup> Based on projections as of March 31, 2017.

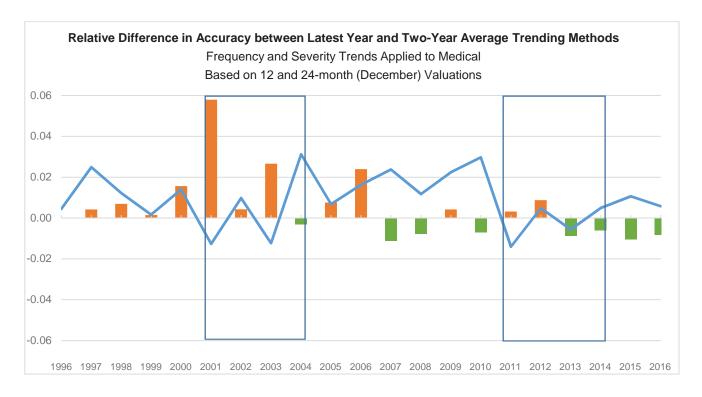
<sup>&</sup>lt;sup>2</sup> Relative error measures the difference between the absolute error from the projection based on latest year trending method less the absolute error from the projection based on two-year average trending method. Positive values indicate the two year average method performed better while negative values indicate the latest year method performed better.

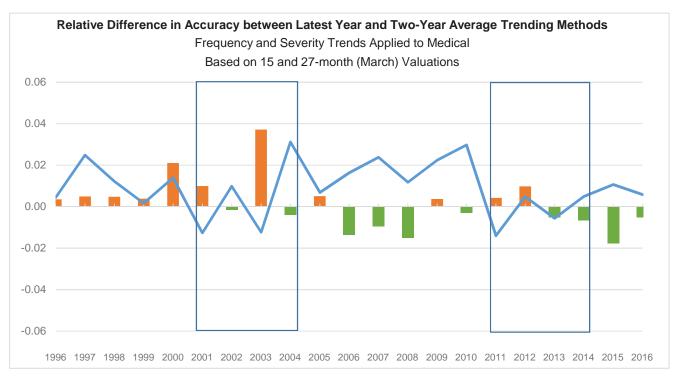
<sup>&</sup>lt;sup>3</sup> Points in the boxed areas represent periods of changing trend direction.





- Year-to-Year trend in "actual" (projected as of March 31, 2017) loss ratios. Points in the boxed areas represent periods of cahnging trend direction.
- Relative difference in error by the latest year trending method over the two-year average method (two-year average performs better).
- Relative difference in error by the two-year average trending method over the latest year method (latest year performs better).





- Year-to-Year trend in "actual" (projected as of March 31, 2017) loss ratios. Points in the boxed areas represent periods of cahnging trend direction.
- Relative difference in error by the latest year trending method over the two-year average method (two-year average performs better).
- Relative difference in error by the two-year average trending method over the latest year method (latest year performs better).

Summary of Retrospective Tests of Frequency/Severity Trending Methodology - Trending from Latest Two Years vs. Latest Year

|                                    |                        | More           | More Accurate Projection <sup>1</sup>                        | ection <sup>1</sup> |             |               | More           | More Accurate Projection <sup>1</sup>                    | ection <sup>1</sup> |             |
|------------------------------------|------------------------|----------------|--|---------------------|-------------|---------------|----------------|--|---------------------|-------------|
|                                    | Indemnity              | Incurred from  | Indemnity Incurred from December (12 or 24 Month) Valuations | 2 or 24 Month       | Valuations  | Indemnit      | ty Paid from D | Indemnity Paid from December (12 or 24 Month) Valuations | or 24 Month) \      | aluations   |
|                                    | Trending from          | g from         | Trending from  | lg from             |             | Trending from | g from         | Trending from  | lg from             |             |
|                                    | # of                   | 00100          | # 01   | ובמו                | Total # of  | # Of          | VO Teals       | # Of   | ובמו                | Total # of  |
|                                    | Projections % of Total | % of Total     | Projections  | % of Total          | Projections | Projections   | % of Total     | Projections  | % of Total          | Projections |
| Post-Minniear Period 1996-2000     | 2                      | 100%           | 0  | %0                  | 2           | 2             | 40%            | 33   | %09                 | 2           |
| Reform Transition Period 2001-2004 | 2                      | 20%            | 2  | 20%                 | 4           | 2             | 20%            | 2  | 20%                 | 4           |
| Post-Reform Period 2005-2008       | 3                      | 75%            | 7  | 25%                 | 4           | ю             | 75%            | 7  | 25%                 | 4           |
| Recession Period 2009-2011         | 2                      | %29            | 1  | 33%                 | 3           | 2             | %29            | T  | 33%                 | æ           |
| SB863 Transition Period 2012-2014  | Т                      | 33%            | 2  | %29                 | ဧ           | Н             | 33%            | 2  | %29                 | 3           |
| Post-SB 863 Period 2015-2016       | 0                      | %0             | 2  | 100%                | 2           | 1             | 20%            | 1  | 20%                 | 2           |
| Total Observations                 | 13                     | 97%            | ∞  | 38%                 | 21          | 11            | 25%            | 10   | 48%                 | 21          |
|                                    | Indemnit               | y Incurred fro | Indemnity Incurred from March (15 or 27 Month) Valuations    | or 27 Month) V      | /aluations  | Indemi        | nity Paid from | Indemnity Paid from March (15 or 27 Month) Valuations    | 27 Month) Val       | uations     |
| Post-Minniear Period 1996-2000     | 2                      | 100%           | 0  | %0                  | 2           | 3             | %09            | 2  | 40%                 | 5           |
| Reform Transition Period 2001-2004 | П                      | 25%            | 3  | 75%                 | 4           | 1             | 25%            | 3  | 75%                 | 4           |
| Post-Reform Period 2005-2008       | 2                      | 20%            | 2  | 20%                 | 4           | 3             | 75%            | Н  | 25%                 | 4           |
| Recession Period 2009-2011         | П                      | 33%            | 2  | %29                 | 3           | 2             | %29            | Н  | 33%                 | 3           |
| SB863 Transition Period 2012-2014  | П                      | 33%            | 2  | %29                 | 8           | 2             | %29            | ⊣  | 33%                 | 33          |
| Post-SB 863 Period 2015-2016       | 0                      | %0             | 2  | 100%                | 2           | 1             | 20%            | 1  | 20%                 | 2           |

<sup>1</sup> "More Accurate" defined as having smaller difference in absolute value between the projected loss ratio and actual (projected as of March 31, 2017) for the accident year based on the same loss development methodology.

10

Total Observations

21

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Summary of Retrospective Tests of Frequency/Severity Trending Methodology - Trending from Latest Two Years vs. Latest Year

|                                    |                       | More                  | e Accurate Projection <sup>1</sup>                         | ection <sup>1</sup> |             |                          | More         | More Accurate Projection                               | ection <sup>1</sup> |             |
|------------------------------------|-----------------------|-----------------------|--|---------------------|-------------|--------------------------|--------------|--|---------------------|-------------|
|                                    | Medical Ir            | ncurred from I        | Medical Incurred from December (12 or 24 Month) Valuations | or 24 Month)        | Valuations  | Medical                  | Paid from De | Medical Paid from December (12 or 24 Month) Valuations | . 24 Month) Va      | luations    |
|                                    | Trending from         | g from                | Trending from  | g from              |             | Trending from            | g from       | Trending from  | g from              |             |
|                                    | Latest Two Years # of | vo Years              | Latest Year<br># of  | Year                | Total # of  | Latest Two Years<br># of | /o Years     | Latest Year<br># of                                    | Year                | Total # of  |
|                                    | Projections           | % of Total            | Projections  | % of Total          | Projections | Projections              | % of Total   | Projections  | % of Total          | Projections |
| Post-Minniear Period 1996-2000     | 2                     | 100%                  | 0  | %0                  | 5           | 2                        | 100%         | 0  | %0                  | 5           |
| Reform Transition Period 2001-2004 | 3                     | 75%                   | 1  | 25%                 | 4           | ю                        | 75%          | 1  | 25%                 | 4           |
| Post-Reform Period 2005-2008       | 1                     | 25%                   | cc.  | 75%                 | 4           | 2                        | 20%          | 2  | 20%                 | 4           |
| Recession Period 2009-2011         | 3                     | 100%                  | 0  | %0                  | 3           | 2                        | %29          | 1  | 33%                 | cc          |
| SB863 Transition Period 2012-2014  | 2                     | %29                   | 1  | 33%                 | 8           | 1                        | 33%          | 2  | %29                 | cc          |
| Post-SB 863 Period 2015-2016       | 0                     | %0                    | 2  | 100%                | 2           | 0                        | %0           | 2  | 100%                | 2           |
| Total Observations                 | 14                    | %29                   | 7  | 33%                 | 21          | 13                       | %29          | ∞  | 38%                 | 21          |
|                                    |                       |                       |  |                     |             |                          |              |  |                     |             |
|                                    | Medical               | Medical Incurred fron | om March (15 or 27 Month) Valuations                       | 27 Month) Va        | luations    | Medic                    | al Paid from | Medical Paid from March (15 or 27 Month) Valuations    | 7 Month) Valu       | ations      |
| Post-Minniear Period 1996-2000     | 4                     | %08                   | 1  | 70%                 | 2           | 2                        | 100%         | 0  | %0                  | 2           |
| Reform Transition Period 2001-2004 | 2                     | 20%                   | 2  | 20%                 | 4           | 2                        | %05          | 2  | 20%                 | 4           |
| Post-Reform Period 2005-2008       | 2                     | 20%                   | 2  | 20%                 | 4           | 1                        | 25%          | 3  | 75%                 | 4           |
| Recession Period 2009-2011         | 3                     | 100%                  | 0  | %0                  | 3           | 2                        | %29          | П  | 33%                 | 33          |
| SB863 Transition Period 2012-2014  | 2                     | %29                   | 1  | 33%                 | 3           | 1                        | 33%          | 2  | %29                 | 3           |
| Post-SB 863 Period 2015-2016       | 0                     | %0                    | 2  | 100%                | 2           | 0                        | %0           | 2  | 100%                | 2           |
| Total Observations                 | 13                    | %79                   | ∞  | 38%                 | 21          | 11                       | 25%          | 10   | 48%                 | 21          |

<sup>1</sup> "More Accurate" defined as having smaller difference in absolute value between the projected loss ratio and actual (projected as of March 31, 2017) for the accident year based on the same loss development methodology.

### Item AC17-04-04 New Drug Formulary

Assembly Bill No. 1124 (AB 1124), which was signed by the Governor on October 7, 2015, requires the Division of Workers' Compensation (DWC) to implement a formulary for prescription medications. The DWC has adopted the new drug formulary to be effective January 1, 2018. The DWC regulations can be accessed through the following link: http://www.dir.ca.gov/dwc/DWCPropRegs/MTUS-Formulary/MTUS-Formulary.htm.

The Committee discussed the potential impact of the formulary at the meetings of April 3, 2017 and December 6, 2017. It was noted that the formulary may impact the cost of utilization review and independent medical review as well as the volume and cost of pharmaceuticals being prescribed. The Committee also noted that, as shown in Exhibit 1, there has been dramatic decline in the cost of pharmaceuticals in California Workers' Compensation over the last several years as both the number of prescriptions per claim and the average cost per prescription have declined.

The potential cost impact of the new formulary will be discussed at the meeting.

Exhibit 1 - % Change in *Pharmaceutical* Per Claim (8% of Medical Paid in 2016)



Downward cost impacts from the CA MediCal Fee methodology change (Federal Upper limit/AWP), reduced physician prescribing (including opioids) and increased PBM transactions, and impacts from IMR and fraud indictments.

Source: WCIRB medical transaction data collected beginning in the third quarter of 2012.

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# Item AC17-12-03 On-Leveling for Wage Level Changes in Pure Premium Ratemaking

The Committee reviewed the underlying series used to on-level premiums and indemnity benefit level costs for wage level changes in pure premium ratemaking during the December 6, 2017 meeting. This included a review of the UCLA Anderson School of Management (UCLA) and Occupational Employee Statistics (OES) wage series. Based on the review, staff did not recommend adopting the OES series because it was not more accurate than the UCLA estimates and also does not provide wage forecasts of future wage inflation. At the meeting, the Committee asked staff to investigate the UCLA forecast's historical accuracy, including evidence of possible bias, and requested that staff explore alternative forecasts such as those provided by the California Department of Finance.

In 2003, the Committee recommended use of the UCLA wage series and forecast model for pure premium ratemaking in that the UCLA model's forecasts were California specific, comparable or superior in accuracy to those of the previously selected model (DRI/McGraw Hill, now Global Insights), and adjusts for not only pure wage inflation but also changes in industrial mix and the qualitative makeup of the labor force in California.<sup>2</sup> As a result, the Global Insights model was not evaluated based on the findings of the previous study. The UCLA wage series and forecasts were first used in the January 1, 2004 Pure Premium Rate Filing.

#### Wage Forecast Models Reviewed

The UCLA Anderson School of Management develops and maintains the UCLA Forecast Model, which began in December of 2001. The UCLA wage forecast relies on historical data collected by the Bureau of Labor and Statistics (BLS). Forecast models are released quarterly and obtained through paid subscription.

The California Department of Finance's (DoF) Economic Research Unit develops and maintains the DoF Econometric Mode beginning November 2006. While the DoF does not state the underlying data source, the model accounts for the U.S. economic forecast and on the most available California economic data.<sup>3</sup> The DoF releases updates to the forecast model twice a year, in April and November. The forecasts are available to the public on the DoF's website.

#### Wage Series Review

Staff summarized the UCLA and DoF annual wage change forecasts on Exhibits 1.1 and 1.2 based on forecast model and projection year and shows how forecasts of wage growth evolve over time. Note that, in many cases, quarter-to-quarter differences in the annual wage changes are beyond the forecast period and based on corrections received in the underlying data rather than the forecast model. The colors represent wage forecasts that would be applied in a particular quarterly loss analysis. For example, the March 2013 model projects wage changes of 1.34% for 2013, 2.44% for 2014, and 2.67% for 2015 (orange color on Exhibit 1.1) were used to prepare Item AC13-06-01 for the June 12, 2013 Agenda. For accuracy comparison purposes, the wages are assumed to reach "full maturity" 12 months after the end of the year from the UCLA model. Staff compared the "full maturity" wage changes from the UCLA forecast with mature wage changes from the DoF forecast and determined they are essentially equivalent for analysis purposes.

<sup>&</sup>lt;sup>1</sup> See AC17-12-03 of the December 6, 2017 Agenda.

<sup>&</sup>lt;sup>2</sup> See AC02-05-02 of the May 28, 2003 Agenda.

<sup>&</sup>lt;sup>3</sup> http://www.dof.ca.gov/Forecasting/Economics/Documents/Economic\_Models.pdf

Exhibits 2.1 and 2.2 compare the forecast wage changes to "full maturity" changes. Values greater than 1.0 indicate that the forecast understated the true wage change while a value less than 1.0 indicates that the forecast overstated the wage change. The models were analyzed for bias by reviewing the frequency and accuracy of overstated and understated forecasts. As shown in Exhibit 2.1 for the UCLA model, the 3<sup>rd</sup> projection year (YYYY-2) has a partial overstated bias but the overall forecast is generally unbiased due to the three years used in a particular loss analysis result in offsetting forecast errors. The UCLA forecast model understates the wage change 54% of the time with "full maturity" approximately 1.2% above on average and overstates the wage change 46% of the time with "full maturity" approximately 1.3% below on average. As shown for the DoF model in Exhibit 2.2, the 3<sup>rd</sup> projection year also has a partial overstated bias but the overall forecast is again generally unbiased due to offsetting forecast errors. The DoF forecast model understates the wage change 41% of the time with "full maturity" approximately 1.0% above on average and overstates the wage change 59% of the time with "full maturity" approximately 1.2% below on average.

Exhibit 3 examines the overall wage forecast error by rate filing using the UCLA forecast model, DoF forecast model, and an average based on the data from both models. The models are examined on a "rate filing level" (June/April forecasts for an annual filing and December/November forecasts for a midyear filing), which represents a cumulative three-year error factor for the corresponding years of a rate filing from Exhibit 2. For example, the overall UCLA forecast selected in the January 1, 2014 annual rate filing understated wage change by 1.45% which was derived from the product of projection errors on Exhibit 2.1 (0.993 for 2013, 1.005 for 2014, and 1.016 for 2015). Based on a direct comparison, the DoF and UCLA forecast models were generally comparable in overall accuracy, though each model was a more accurate predictor in particular periods and sometimes the year-to-year errors were in opposite directions. As a result, the approach of averaging data from both forecasts had the overall lowest total absolute error with comparable year-to-year accuracy to the more accurate individual model. Additionally, the DoF and UCLA models were also examined by individual forecast years and performed consistent with the cumulative results, indicating that averaging both forecasts will improve the accuracy of the forecasts.

Given the results of this analysis, staff recommends adopting the method of averaging the UCLA and Department of Finance wage forecast models to on-level premiums and indemnity benefit level costs for wage level changes in pure premium ratemaking. Staff believes combining the two wage forecast models incorporates more information and should reduce the overall volatility of the wage forecast.

|                | $Dec^2$ | <b>YYYY+1</b>                  | 2.86% | 4.91% | 3.56% | 4.54% | 4.55% | 2.26% | %98.0  | 3.50% | 3.35% | 3.68% | 0.77%  | 2.99% | 4.38% | 1.95% |       |
|----------------|---------|--------------------------------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|-------|
|                | Sept    | <b>YYYY+1</b>                  | 3.21% | 4.59% | 4.71% | 5.25% | 4.80% | 2.91% | 0.77%  | 3.69% | 3.59% | 3.16% | %99.0  | 2.64% | 3.86% | 2.91% |       |
|                | June    | <b>YYYY+1</b>                  | 3.16% | 4.28% | 4.69% | 5.13% | 4.51% | 3.50% | 1.71%  | 2.74% | 3.93% | 2.16% | 0.42%  | 2.68% | 3.83% | 3.21% |       |
|                | March   | <b>YYYY+1</b>                  | 3.06% | 4.18% | 3.46% | 2.09% | 4.10% | 2.99% | 1.86%  | 3.03% | 3.19% | 2.05% | -0.16% | 2.73% | 4.32% | 3.22% |       |
|                | Dec     | $\lambda\lambda\lambda\lambda$ | 3.57% | 4.25% | 4.84% | %90.7 | 4.05% | 2.64% | -0.59% | 2.77% | 3.77% | 0.91% | 0.61%  | 3.36% | 2.95% | 2.44% | 2.33% |
|                | Sept    | $\lambda\lambda\lambda\lambda$ | 3.15% | 3.95% | 5.20% | 3.07% | 4.42% | 4.45% | 2.00%  | 2.20% | 2.52% | 1.11% | 3.03%  | 2.93% | 2.69% | 2.67% | 2.13% |
| el ¹           | June    | $\lambda\lambda\lambda\lambda$ | 1.01% | 4.09% | 3.33% | 3.53% | 2.25% | 3.48% | 3.87%  | 3.76% | 2.26% | 1.46% | 1.50%  | 2.67% | 2.78% | 2.86% | 4.06% |
| -orecast Model | March   | \\\\ <u>\</u>                  | 1.83% | 3.84% | 3.22% | 2.09% | 2.25% | 2.91% | 2.64%  | 4.29% | 2.30% | 1.82% | 1.34%  | 1.97% | 2.54% | 3.81% | 4.63% |
| –A Wage Fα     | Dec     | YYYY-1                         | 2.34% | 4.06% | 3.37% | 2.91% | 2.68% | 2.91% | 1.68%  | 2.86% | 1.87% | 2.05% | 1.69%  | 2.16% | 3.57% | 3.72% | 4.44% |
| NCI            | Sept    | YYYY-1                         | 2.34% | 2.81% | 3.40% | 3.10% | 2.55% | 3.04% | 2.76%  | 3.03% | 3.21% | 1.98% | 2.45%  | 2.46% | 3.51% | 3.97% | 4.31% |
|                | June    | YYYY-1                         | 3.30% | 1.99% | 3.44% | 2.57% | 2.58% | 2.70% | 2.73%  | 2.88% | 3.56% | 3.08% | 1.70%  | 2.44% | 2.59% | 4.44% | 4.45% |
|                | March   | YYYY-1                         | 3.69% | 2.75% | 3.46% | 2.70% | 2.25% | 2.55% | 2.50%  | 2.92% | 4.33% | 2.89% | 1.98%  | 2.44% | 2.53% | 4.43% | 4.39% |
|                | Dec     | YYYY-2                         | 3.66% | 2.78% | 3.44% | 2.70% | 2.56% | 2.49% | 2.82%  | 2.96% | 4.33% | 2.91% | 1.96%  | 2.01% | 2.47% | 4.38% | 4.47% |
|                | Sept    | YYYY-2                         |       | 2.78% | 3.27% | 2.61% | 2.57% | 2.50% | 3.74%  | 3.37% | 4.22% | 3.91% | 1.84%  | 1.97% | 2.57% | 4.41% | 4.48% |
|                | June    | YYYY-2                         |       |       |       | 2.61% | 2.30% | 2.49% | 4.01%  | 3.32% | 4.13% | 3.81% | 2.92%  | 2.56% | 2.69% | 3.24% | 4.45% |
|                | March   | YYYY-2                         |       |       |       |       |       | 2.55% | 3.30%  | 3.36% | 4.23% | 4.11% | 2.92%  | 2.57% | 2.67% | 3.08% | 4.45% |
|                |         | Year                           | 2003  | 2004  | 2002  | 2006  | 2007  | 2008  | 2009   | 2010  | 2011  | 2012  | 2013   | 2014  | 2015  | 2016  | 2017  |

<sup>1</sup> The column represent the maturity of the wage level changes. The diagonal represents the set of wage forecasts that would be used for an agenda item. For example, the March 2013 model projects wage changes of 1.34% for 2013, 2.44% for 2014, and 2.67% for 2015 were used in preparing Item AC13-06-01 for the June 12, 2013 Agenda.

<sup>2</sup> Assumed the wage change is "full maturity" the following December after the year. For 2017, the December 2017 model was used to determine a preliminary "full maturity".

|             |        |        | California De | epartment of Fin | ance Wage Fore | ecast Model 1 |        |        |
|-------------|--------|--------|---------------|------------------|----------------|---------------|--------|--------|
|             | April  | Nov    | April         | Nov              | April          | Nov           | April  | Nov    |
| <u>Year</u> | YYYY-2 | YYYY-2 | YYYY-1        | YYYY-1           | YYYY           | YYYY          | YYYY+1 | YYYY+1 |
| 2006        |        |        |               |                  |                | 4.83%         | 4.13%  | 4.67%  |
| 2007        |        |        |               | 3.70%            | 3.54%          | 4.01%         | 4.49%  | 4.52%  |
| 2008        |        | 3.63%  | 3.89%         | 3.97%            | 3.91%          | 3.54%         | 2.41%  | 2.25%  |
| 2009        | 3.67%  | 4.28%  | 3.90%         | 2.70%            | 1.32%          | 0.54%         | 0.66%  | 0.53%  |
| 2010        | 3.62%  | 2.76%  | 2.17%         | 2.11%            | 2.23%          | 2.03%         | 2.21%  | 3.43%  |
| 2011        | 2.59%  | 2.09%  | 2.19%         | 3.12%            | 2.48%          | 3.87%         | 4.13%  | 3.30%  |
| 2012        | 2.72%  | 2.82%  | 2.64%         | 2.54%            | 4.42%          | 4.01%         | 3.71%  | 3.69%  |
| 2013        | 3.21%  | 2.82%  | 1.23%         | 2.36%            | 1.85%          | 2.19%         | 0.45%  | 0.70%  |
| 2014        | 3.30%  | 3.26%  | 3.00%         | 2.82%            | 2.39%          | 3.09%         | 2.57%  | 2.99%  |
| 2015        | 3.74%  | 2.92%  | 2.69%         | 2.97%            | 3.10%          | 2.86%         | 3.67%  | 4.38%  |
| 2016        | 2.73%  | 2.53%  | 2.83%         | 3.86%            | 4.28%          | 2.83%         | 3.08%  | 1.98%  |
| 2017        | 2.51%  | 3.82%  | 4.10%         | 3.38%            | 3.37%          | 3.53%         |        |        |

<sup>&</sup>lt;sup>1</sup> The column represent the maturity of the wage level changes. The diagonal represents the set of wage forecasts that would be used for an agenda item. For example, the April 2013 model projects wage changes of 1.85% for 2013, 3.00% for 2014, and 3.74% for 2015. Note that the "Farming and Related" sector is included for the April 2014 and later forecast models (comparable to UCLA) but not previous models.

|      |        |        |        | JCLA Wage F | orecast Comp | pared to Full N | //aturity (Fully | Mature / Curr | ent Projection | )'    |       |       |
|------|--------|--------|--------|-------------|--------------|-----------------|------------------|---------------|----------------|-------|-------|-------|
|      | March  | June   | Sept   | Dec         | March        | June            | Sept             | Dec           | March          | June  | Sept  | Dec   |
| Year | YYYY-2 | YYYY-2 | YYYY-2 | YYYY-2      | YYYY-1       | YYYY-1          | YYYY-1           | YYYY-1        | YYYY           | YYYY  | YYYY  | YYYY  |
| 2003 |        |        |        | 0.992       | 0.992        | 0.996           | 1.005            | 1.005         | 1.010          | 1.018 | 0.997 | 0.993 |
| 2004 |        |        | 1.021  | 1.021       | 1.021        | 1.029           | 1.020            | 1.008         | 1.010          | 1.008 | 1.009 | 1.006 |
| 2005 |        |        | 1.003  | 1.001       | 1.001        | 1.001           | 1.001            | 1.002         | 1.003          | 1.002 | 0.984 | 0.988 |
| 2006 |        | 1.019  | 1.019  | 1.018       | 1.018        | 1.019           | 1.014            | 1.016         | 0.995          | 1.010 | 1.014 | 0.976 |
| 2007 |        | 1.022  | 1.019  | 1.019       | 1.023        | 1.019           | 1.019            | 1.018         | 1.023          | 1.022 | 1.001 | 1.005 |
| 2008 | 0.997  | 0.998  | 0.998  | 0.998       | 0.997        | 0.996           | 0.992            | 0.994         | 0.994          | 0.988 | 0.979 | 0.996 |
| 2009 | 0.976  | 0.970  | 0.972  | 0.981       | 0.984        | 0.982           | 0.982            | 0.992         | 0.983          | 0.971 | 0.989 | 1.015 |
| 2010 | 1.001  | 1.002  | 1.001  | 1.005       | 1.006        | 1.006           | 1.005            | 1.006         | 0.992          | 0.997 | 1.013 | 1.007 |
| 2011 | 0.992  | 0.993  | 0.992  | 0.991       | 0.991        | 0.998           | 1.001            | 1.015         | 1.010          | 1.011 | 1.008 | 0.996 |
| 2012 | 0.996  | 0.999  | 0.998  | 1.008       | 1.008        | 1.006           | 1.017            | 1.016         | 1.018          | 1.022 | 1.025 | 1.027 |
| 2013 | 0.979  | 0.979  | 0.990  | 0.988       | 0.988        | 0.991           | 0.984            | 0.991         | 0.994          | 0.993 | 0.978 | 1.002 |
| 2014 | 1.004  | 1.004  | 1.010  | 1.010       | 1.005        | 1.005           | 1.005            | 1.008         | 1.010          | 1.003 | 1.001 | 0.996 |
| 2015 | 1.017  | 1.016  | 1.018  | 1.019       | 1.018        | 1.017           | 1.008            | 1.008         | 1.018          | 1.015 | 1.016 | 1.014 |
| 2016 | 0.989  | 0.987  | 0.976  | 0.977       | 0.976        | 0.976           | 0.980            | 0.983         | 0.982          | 0.991 | 0.993 | 0.995 |
| 2017 | 0.980  | 0.980  | 0.979  | 0.980       | 0.980        | 0.980           | 0.981            | 0.980         | 0.978          | 0.983 | 1 002 |       |

|                            | <u>All</u> | <u>Year</u>  | <u>Lates</u> | t 5 Years    |
|----------------------------|------------|--------------|--------------|--------------|
| Forecast Bias <sup>2</sup> | Count      | Avg % Error  | Count        | Avg % Error  |
| Understated                | 54%        | 1.2%         | 42%          | 1.0%         |
| Overstated                 | <u>46%</u> | <u>-1.3%</u> | <u>58%</u>   | <u>-1.6%</u> |
| Total                      | 100%       | 0.0%         | 100%         | -0.5%        |

<sup>1</sup> Assumed the wage change is "full maturity" the following December after the year. For 2017, the December 2017 model was used to determine a preliminary "full maturity".

<sup>&</sup>lt;sup>2</sup> A factor greater than 1 means the forecast understated the wage change while a factor less than 1 means the factor overstated the wage change.

| April  | Nov    | April  | Nov    | April | Nov   |
|--------|--------|--------|--------|-------|-------|
| YYYY-2 | YYYY-2 | YYYY-1 | YYYY-1 | YYYY  | YYYY  |
|        |        |        |        |       | 0.997 |
|        |        |        | 1.008  | 1.010 | 1.005 |
|        | 0.987  | 0.984  | 0.984  | 0.984 | 0.988 |
| 0.973  | 0.967  | 0.971  | 0 982  | 0 995 | 1 003 |

California Department of Finance Wage Forecast Compared to Full Maturity (Fully Mature / Current Projection) 1

| <u>Year</u> | <u>YYYY-2</u> | YYYY-2 | <u>YYYY-1</u> | YYYY-1 | <u>YŸYY</u> | YYYY  |
|-------------|---------------|--------|---------------|--------|-------------|-------|
| 2006        |               |        |               |        |             | 0.997 |
| 2007        |               |        |               | 1.008  | 1.010       | 1.005 |
| 2008        |               | 0.987  | 0.984         | 0.984  | 0.984       | 0.988 |
| 2009        | 0.973         | 0.967  | 0.971         | 0.982  | 0.995       | 1.003 |
| 2010        | 0.999         | 1.007  | 1.013         | 1.014  | 1.012       | 1.014 |
| 2011        | 1.007         | 1.012  | 1.011         | 1.002  | 1.008       | 0.995 |
| 2012        | 1.009         | 1.008  | 1.010         | 1.011  | 0.993       | 0.997 |
| 2013        | 0.976         | 0.980  | 0.995         | 0.984  | 0.989       | 0.986 |
| 2014        | 0.997         | 0.997  | 1.000         | 1.002  | 1.006       | 0.999 |
| 2015        | 1.006         | 1.014  | 1.016         | 1.014  | 1.012       | 1.015 |
| 2016        | 0.992         | 0.994  | 0.991         | 0.982  | 0.978       | 0.991 |
| 2017        | 0.998         | 0.986  | 0.983         | 0.990  | 0.990       | 0.988 |

| Forecast Bias <sup>2</sup> | Count      | Avg % Error  |
|----------------------------|------------|--------------|
| Understated                | 41%        | 1.0%         |
| Overstated                 | <u>59%</u> | <u>-1.2%</u> |
| Total                      | 100%       | -0.3%        |

<sup>&</sup>lt;sup>1</sup> Assumed the wage change is "full maturity" the following December UCLA model after the year. For 2017, the December 2017 model was used to determine "full maturity".

<sup>&</sup>lt;sup>2</sup> A factor greater than 1 means the forecast understated the wage change while a factor less than 1 means the factor overstated the wage change

|                  | Wage Forecast Error by Rate Filing <sup>1</sup> |               |                                 |                 |                 |                              |  |  |  |
|------------------|---|---------------|---------------------------------|-----------------|-----------------|------------------------------|--|--|--|
| <del>-</del>     | Annual Filing                                   | Annual Filing | Annual Filing                   | Mid-year Filing | Mid-year Filing | Mid-year Filing              |  |  |  |
| Rate Filing Year | UCLA (June)                                     | DoF (April)   | Avg (June / April) <sup>2</sup> | UCLA (Dec)      | DoF (Nov)       | Avg (Dec / Nov) <sup>2</sup> |  |  |  |
| 2007             |   |               |                                 | -0.81%          | -0.80%          | -0.81%                       |  |  |  |
| 2008             | -1.28%  | -3.31%        | -2.30%                          | -2.07%          | -4.39%          | -3.24%                       |  |  |  |
| 2009             | -2.81%  | -4.57%        | -3.70%                          | -0.66%          | -2.30%          | -1.48%                       |  |  |  |
| 2010             | -3.04%  | 1.60%         | -0.76%                          | 1.13%           | 2.95%           | 2.03%                        |  |  |  |
| 2011             | -0.56%  | 3.35%         | 1.37%                           | 2.95%           | 2.53%           | 2.74%                        |  |  |  |
| 2012             | -0.46%  | -0.53%        | -0.49%                          | 0.01%           | -1.39%          | -0.69%                       |  |  |  |
| 2013             | 1.68%   | -1.46%        | 0.09%                           | 2.81%           | -2.11%          | 0.30%                        |  |  |  |
| 2014             | 1.45%   | -0.46%        | 0.49%                           | 2.86%           | 0.16%           | 1.50%                        |  |  |  |
| 2015             | 0.78%   | 1.45%         | 1.12%                           | -1.93%          | 0.69%           | -0.63%                       |  |  |  |
| 2016             | -2.89%  | 0.19%         | -1.37%                          | -2.39%          | -1.82%          | -2.11%                       |  |  |  |
| Avg              | -0.79%  | -0.42%        | -0.62%                          | 0.19%           | -0.65%          | -0.24%                       |  |  |  |
| Abs Avg          | 1.66%   | 1.88%         | 1.30%                           | 1.76%           | 1.91%           | 1.55%                        |  |  |  |

|                  | Wage Forecast Model Accuracy Comparison |               |                 |                 |  |  |  |  |  |
|------------------|---|---------------|-----------------|-----------------|--|--|--|--|--|
| _                | Annual Filing                           | Annual Filing | Mid-year Filing | Mid-year Filing |  |  |  |  |  |
| Rate Filing Year | UCLA vs DoF                             | UCLA vs Avg   | UCLA vs DoF     | UCLA vs Avg     |  |  |  |  |  |
| 2007             |   |               | Dept of Finance | UCLA            |  |  |  |  |  |
| 2008             | UCLA                                    | UCLA          | UCLA            | UCLA            |  |  |  |  |  |
| 2009             | UCLA                                    | UCLA          | UCLA            | UCLA            |  |  |  |  |  |
| 2010             | Dept of Finance                         | Avg           | UCLA            | UCLA            |  |  |  |  |  |
| 2011             | UCLA                                    | UCLA          | Dept of Finance | Avg             |  |  |  |  |  |
| 2012             | UCLA                                    | UCLA          | UCLA            | UCLA            |  |  |  |  |  |
| 2013             | Dept of Finance                         | Avg           | Dept of Finance | Avg             |  |  |  |  |  |
| 2014             | Dept of Finance                         | Avg           | Dept of Finance | Avg             |  |  |  |  |  |
| 2015             | UCLA                                    | UCLA          | Dept of Finance | Avg             |  |  |  |  |  |
| 2016             | Dept of Finance                         | Avg           | Dept of Finance | Avg             |  |  |  |  |  |

<sup>&</sup>lt;sup>1</sup> The error percentages are determined using cumulative error factors from Exhibit 2 for a corresponding filing. For example, the forecast used for the 1/1/2014 Pure Premium Rate Filing underestimated the wage change by 1.45% (the product of 0.993 for 2013, 1.005 for 2014, and 1.016 for 2015).

<sup>&</sup>lt;sup>2</sup> The error percentages are based on 50% weight assigned to the UCLA forecasts and 50% weight assigned to the Department of Finance forecasts.

### Item AC18-03-01 First Quarter 2018 Review of Diagnostics

Twice a year WCIRB staff compiles a comprehensive list of measures to be reviewed by the Claims Working Group and the 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:<sup>1</sup>

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

#### Please note the following:

- 1. Permanent disability claims continue to close at a faster rate, especially in the Los Angeles region at first unit statistical report. The rate at which temporary disability claims close has also increased but at a more moderate rate than for permanent disability. (Exhibit M5).
- The percentage of claims settled through compromise and release has increased in all regions in the state. The average costs of compromise and release claims have been relatively consistent (Exhibit M6.1 through M6.4).
- 3. The number of expedited hearings are continuing to increase in most regions while the overall distribution of expedited hearings by type of hearing have remained relatively stable for all regions (Exhibit M8.2).
- 4. As anticipated with the adoption of Senate Bill No. 1160 in September of 2016 which became effective on January 1, 2017, lien filings increased in the fourth quarter of 2016. The number of filed liens in 2017 are significantly less than the levels files in recent prior years (Exhibit M9.2).
- 5. Settlement rates on permanent disability claims continue to rise and seem to be accelerating, while settlement rates on temporary disability claims are beginning to increase (Exhibit C2.2).
- 6. The number of quarterly incremental medical-only claims increased more in the second and third quarters of 2017 than in the prior several quarters, while numbers of indemnity claims also continue to increase (Exhibit C11).
- The proportion of indemnity claims involving cumulative trauma in the Los Angeles Basin and San Diego regions continue to increase, while the Bay Area and All Other regions decline (Exhibit C17).
- 8. Despite the increase in cumulative injury claims, the frequency of indemnity claims in the Los Angeles Basin and San Diego regions declined by more than 4% each in 2016 (Exhibit C21).
- 9. Reported accident year 2017 incremental paid medical on open indemnity claims through September 30, 2017 increased significantly following several years of modest growth or decline (Exhibit S6.2).
- 10. Paid allocated loss adjustment expenses per indemnity claim continues to rise, although generally at a decelerating rate of change (Exhibit E5).

<sup>&</sup>lt;sup>1</sup> Certain diagnostics for which updates are available on an annual basis that were reviewed at the August 2, 2017 meeting was excluded from this summary but will be updated and available for review at the August 1, 2018 meeting.

## Exhibit Numbering Guide March 2018

| Exhibit # | Exhibit Name   |
|-----------|--|
|           | Market/Claim Characteristics   |
| M4        | Distribution of Estimated Ultimate Number of Claims by Injury Type   |
| M5        | Percentage of Claims Open by Injury Type and Region - First through Third Report Level                                 |
| M6        | Percentage of Claim Count and Average Severity by Method of Settlement   |
| M7        | Division of Workers' Compensation (DWC) Distribution of Decisions by Type  |
| M8        | Statewide Number of Division of Workers' Compensation (DWC) Quartery Expedited Hearings                                |
| M9        | Number of Division of Workers' Compensation (DWC) Quarterly Lien Filed Counts  |
| M14       | IMR Filed Counts   |
|           | Claim Count  |
| C2.2      | Estimated Ultimate Indemnity Claim Settlement Ratios & 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 as of September 30, 2017         |
| C7        | 2016 Accident Year Indemnity Claim Frequency Model & Indemnity Claim Frequency History and Projections                 |
| C11       | Changes in Incremental Indemnity Claim Counts and Medical Only Claim Counts  |
| C15       | Partial 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  |
| C19       | Distribution of Cumulative Injury Claims by Injury Type  |
| C21       | Indemnity Claim Frequency by Geographic Region   |
| C22       | Top 20 Part of Body Codes for Cumulative and Non-Cumulative Injury Indemnity Claims Based on Accident Year 2013 Shares |
|           | Claim Severity   |
| S2        | Average Incurred Indemnity Loss Per Reported Indemnity Claim & Incurred Medical Loss per Reported Claim                |
| S3        | Average Indemnity Case Outstanding & Outstanding Medical Loss Per Open Indemnity Claim                                 |
| S4        | Average Paid Indemnity & Medical Loss per Indemnity Claim & Average Paid Medical Loss Per Claim                        |
| S5        | Average Paid Losses per Closed Indemnity Claim   |
| S6        | Ratio of Incremental Paid Indemnity & Medical to Indemnity Claims Open During Period                                   |
| S7        | Ratio of Quarterly Paid Medical to Indemnity Claims Inventory Through March 31, 2018                                   |
| S8        | Estimated Ultimate Indemnity & Medical Severities by Injury Type   |
| S9        | Average and Median Indemnity Claim Severities at USR 1st   |
| S11       | Average Permanent Disability Ratings by Type of Loss   |
|           | Loss Adjustment Expense  |
| E5        | Average Paid ALAE Per Reported Indemnity Claim - Private Insurers  |

#### Distribution of Estimated Ultimate Number of Claims by Injury Type

#### I. Distribution of Ultimate Number of Indemnity Claims

| Accident    | Permanent    | Temporary        |              |
|-------------|--------------|------------------|--------------|
| <u>Year</u> | Indemnity ** | <u>Indemnity</u> | <u>Total</u> |
| 2001        | 52.9%        | 47.1%            | 100%         |
| 2002        | 54.3%        | 45.7%            | 100%         |
| 2003        | 53.7%        | 46.3%            | 100%         |
| 2004        | 49.8%        | 50.2%            | 100%         |
| 2005        | 46.2%        | 53.8%            | 100%         |
| 2006        | 47.2%        | 52.8%            | 100%         |
| 2007        | 48.3%        | 51.7%            | 100%         |
| 2008        | 50.5%        | 49.5%            | 100%         |
| 2009        | 51.9%        | 48.1%            | 100%         |
| 2010        | 51.5%        | 48.5%            | 100%         |
| 2011        | 51.2%        | 48.8%            | 100%         |
| 2012        | 50.5%        | 49.5%            | 100%         |
| 2013        | 50.5%        | 49.5%            | 100%         |
| 2014        | 50.7%        | 49.3%            | 100%         |
| 2015        | 50.9%        | 49.1%            | 100%         |
| 2016*       | 49.3%        | 50.7%            | 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> |
| 2001        | 17.9%       | 16.0%            | 66.1%       | 100%         |
| 2002        | 18.9%       | 15.9%            | 65.2%       | 100%         |
| 2003        | 18.7%       | 16.1%            | 65.2%       | 100%         |
| 2004        | 15.6%       | 15.7%            | 68.7%       | 100%         |
| 2005        | 13.5%       | 15.7%            | 70.8%       | 100%         |
| 2006        | 13.6%       | 15.2%            | 71.2%       | 100%         |
| 2007        | 14.3%       | 15.3%            | 70.4%       | 100%         |
| 2008        | 15.5%       | 15.2%            | 69.3%       | 100%         |
| 2009        | 17.2%       | 15.9%            | 66.9%       | 100%         |
| 2010        | 17.8%       | 16.8%            | 65.4%       | 100%         |
| 2011        | 18.2%       | 17.3%            | 64.5%       | 100%         |
| 2012        | 18.4%       | 18.0%            | 63.6%       | 100%         |
| 2013        | 18.9%       | 18.6%            | 62.5%       | 100%         |
| 2014        | 19.0%       | 18.5%            | 62.5%       | 100%         |
| 2015        | 19.1%       | 18.4%            | 62.5%       | 100%         |
| 2016*       | 18.6%       | 19.1%            | 62.3%       | 100%         |

<sup>\*</sup> Accident year 2015 experience is partial in that it only reflects experience from policy year 2014.

Source: WCIRB unit statistical data

<sup>\*\*</sup> Permanent indemnity consists of the death, permanent total, and permanent partial injury types.

#### Percentage of Claims Open by Injury Type and Region

Permanent Partial & Temporary

|                    |                      |      | illianoni i | india a rom | porary      |      |      |             |                                  |
|--------------------|----------------------|------|-------------|-------------|-------------|------|------|-------------|----------------------------------|
| Permanent F        | Partial              |      |             |             | Policy Year | ,    |      |             | Latest Year<br>Reported<br>Claim |
| Report Leve        | I Region*            | 2009 | 2010        | <u>2011</u> | 2012        | 2013 | 2014 | <u>2015</u> | Distribution                     |
|                    |                      |      |             |             |             |      |      |             |                                  |
| 1                  | Bay Area             | 91%  | 90%         | 88%         | 86%         | 85%  | 84%  | 82%         | 15%                              |
| 1                  | Los Angeles          | 91%  | 89%         | 88%         | 85%         | 84%  | 83%  | 79%         | 54%                              |
| 1                  | Remainder of CA      | 89%  | 88%         | 87%         | 84%         | 82%  | 82%  | 80%         | 31%                              |
|                    | ALL REGIONS COMBINED | 90%  | 89%         | 88%         | 85%         | 84%  | 83%  | 80%         | 100%                             |
| 2                  | Bay Area             | 70%  | 68%         | 65%         | 62%         | 62%  | 59%  |             | 15%                              |
| 2                  | Los Angeles          | 74%  | 72%         | 68%         | 63%         | 63%  | 59%  |             | 55%                              |
| 2                  | Remainder of CA      | 69%  | 67%         | 63%         | 61%         | 60%  | 58%  |             | 30%                              |
|                    | ALL REGIONS COMBINED | 72%  | 70%         | 66%         | 62%         | 62%  | 59%  |             | 100%                             |
| 3                  | Bay Area             | 50%  | 47%         | 45%         | 42%         | 41%  |      |             | 14%                              |
| 3                  | Los Angeles          | 57%  | 52%         | 49%         | 45%         | 45%  |      |             | 55%                              |
| 3                  | Remainder of CA      | 50%  | 46%         | 43%         | 41%         | 39%  |      |             | 31%                              |
|                    | ALL REGIONS COMBINED | 54%  | 50%         | 47%         | 44%         | 42%  |      |             | 100%                             |
|                    |                      |      |             |             |             |      |      |             |                                  |
| _                  |                      |      |             |             |             |      |      |             | Latest Year                      |
| Temporary          |                      |      |             |             | Policy Year |      |      |             | Reported<br>Claim                |
| Report Leve        | I Region*            | 2009 | 2010        | 2011        | 2012        | 2013 | 2014 | 2015        | Distribution                     |
| <u>INEPOR Leve</u> | <u>i ixegiori</u>    | 2009 | 2010        | 2011        | 2012        | 2013 | 2014 | 2013        | Distribution                     |
| 1                  | Bay Area             | 44%  | 44%         | 44%         | 46%         | 44%  | 41%  | 40%         | 18%                              |
| 1                  | Los Angeles          | 49%  | 50%         | 49%         | 51%         | 53%  | 50%  | 49%         | 46%                              |
| 1                  | Remainder of CA      | 40%  | 41%         | 42%         | 43%         | 45%  | 42%  | 41%         | 36%                              |
|                    | ALL REGIONS COMBINED | 45%  | 46%         | 45%         | 47%         | 48%  | 45%  | <i>4</i> 5% | 100%                             |
| 2                  | Bay Area             | 23%  | 26%         | 26%         | 27%         | 23%  | 23%  |             | 17%                              |
| 2                  | Los Angeles          | 31%  | 32%         | 32%         | 33%         | 32%  | 31%  |             | 46%                              |
| 2                  | Remainder of CA      | 23%  | 24%         | 26%         | 26%         | 26%  | 25%  |             | 37%                              |
|                    | ALL REGIONS COMBINED | 27%  | 28%         | 29%         | 29%         | 28%  | 27%  |             | 100%                             |
| 3                  | Bay Area             | 14%  | 14%         | 15%         | 15%         | 13%  |      |             | 17%                              |
| 3                  | Los Angeles          | 21%  | 22%         | 21%         | 20%         | 19%  |      |             | 46%                              |
| 3                  | Remainder of CA      | 14%  | 15%         | 16%         | 15%         | 14%  |      |             | 37%                              |
|                    | ALL REGIONS COMBINED | 17%  | 18%         | 18%         | 17%         | 16%  |      |             | 100%                             |
|                    |                      |      |             |             |             |      |      |             |                                  |

Firgures in italics are based on preliminary partial data.

## Percentage of Claim Count and Average Severity by Method of Settlement Geographic Region: All Regions Combined

|  | -  |  |  | Policy Ye   | ear 2010  |   |   |
|--|--|--|--|---|---|---|---|
| Compromise & Release<br>Stipulated Award<br>All Other Settlements<br>Total/Average | Claim <u>Distribution</u> 60.8% 10.9% 28.3% 100.0%                       | Average Indemnity 24,684 18,502 19,628 22,582        | Average<br><u>Medical</u><br>29,332<br>17,236<br>18,523<br>24,959        | Average<br>Incurred<br>54,016<br>35,738<br>38,150<br>47,541               | % Change in Avg. Indemnity  | % Change in Avg. Medical  | % Change in Avg. Incurred                         |
|  |  |  |  | Policy Ye   | ear 2011  |   |   |
| Compromise & Release<br>Stipulated Award<br>All Other Settlements<br>Total/Average | Claim<br><u>Distribution</u><br>57.8%<br>11.0%<br><u>31.3%</u><br>100.0% | Average Indemnity 24,578 18,741 21,366 22,933        | Average Medical 28,206 16,784 20,589 24,570                              | Average <u>Incurred</u> 52,784 35,526 41,955 47,503                       | % Change in Avg. Indemnity -0.4% 1.3% 8.9% 1.6%                   | % Change in Avg. Medical -3.8% -2.6% 11.2% -1.6%                              | % Change in Avg. Incurred -2.3% -0.6% 10.0% -0.1% |
|  |  |  |  | Policy Ye   | ear 2012  |   |   |
| Compromise & Release<br>Stipulated Award<br>All Other Settlements<br>Total/Average | Claim <u>Distribution</u> 58.1% 11.0% 30.9% 100.0%                       | Average <u>Indemnity</u> 23,200 17,044 20,907 21,813 | Average<br><u>Medical</u><br>26,737<br>15,359<br><u>19,983</u><br>23,395 | Average<br><u>Incurred</u><br>49,937<br>32,403<br><u>40,890</u><br>45,209 | % Change in<br>Avg. Indemnity<br>-5.6%<br>-9.1%<br>-2.2%<br>-4.9% | % Change in<br><u>Avg. Medical</u><br>-5.2%<br>-8.5%<br><u>-2.9%</u><br>-4.8% | % Change in Avg. Incurred -5.4% -8.8% -2.5% -4.8% |
|  |  |  |  | Policy Ye   | ar 2013*  |   |   |
| Compromise & Release<br>Stipulated Award<br>All Other Settlements<br>Total/Average | Claim <u>Distribution</u> 64.1% 11.8% 24.1% 100.0%                       | Average Indemnity 24,050 17,925 21,142 22,627        | Average<br><u>Medical</u><br>25,961<br>14,362<br><u>19,652</u><br>23,073 | Average<br>Incurred<br>50,012<br>32,287<br>40,794<br>45,700               | % Change in Avg. Indemnity 3.7% 5.2% 1.1% 3.7%                    | % Change in Avg. Medical -2.9% -6.5% -1.7% -1.4%                              | % Change in Avg. Incurred 0.1% -0.4% -0.2% 1.1%   |

<sup>\*</sup>Policy Year 2013 is preliminary

#### Percentage of Claim Count and Average Severity by Method of Settlement

Geographic Region: Bay Area

|  |   |   |   | Policy Y  | ear 2010  |  |  |
|--|---|---|---|---|---|--|--|
| Compromise & Release<br>Stipulated Award<br>All Other Settlements<br>Total/Average | Claim <u>Distribution</u> 54.8% 17.3% <u>27.8%</u> 100.0% | Average Indemnity 28,578 19,337 21,423 24,985 | Average Medical 30,215 14,290 19,983 24,607 | Average <u>Incurred</u> 58,793 33,628 41,406 49,592 | % Change in Avg. Indemnity                        | % Change in Avg. Medical                                     | % Change in Avg. Incurred                        |
|  |   |   |   | Policy Y  | ear 2011  |  |  |
| Compromise & Release<br>Stipulated Award<br>All Other Settlements<br>Total/Average | Claim <u>Distribution</u> 54.6% 12.9% 32.5% 100.0%        | Average Indemnity 29,056 18,366 23,236 25,787 | Average Medical 30,345 15,753 20,646 25,313 | Average Incurred 59,401 34,119 43,882 51,100        | % Change in Avg. Indemnity 1.7% -5.0% 8.5% 3.2%   | % Change in Avg. Medical 0.4% 10.2% 3.3% 2.9%                | % Change in Avg. Incurred 1.0% 1.5% 6.0% 3.0%    |
|  |   |   |   | Policy Y  | ear 2012  |  |  |
| Compromise & Release<br>Stipulated Award<br>All Other Settlements<br>Total/Average | Claim <u>Distribution</u> 53.4% 14.3% 32.4% 100.0%        | Average Indemnity 27,688 18,353 23,890 25,128 | Average Medical 29,431 14,901 20,435 24,447 | Average Incurred 57,120 33,254 44,325 49,575        | % Change in Avg. Indemnity -4.7% -0.1% 2.8% -2.6% | % Change in Avg. Medical -3.0% -5.4% -1.0% -3.4%             | % Change in Avg. Incurred -3.8% -2.5% 1.0% -3.0% |
|  |   |   |   | Policy Ye   | ear 2013*   |  |  |
| Compromise & Release<br>Stipulated Award<br>All Other Settlements<br>Total/Average | Claim <u>Distribution</u> 59.7% 14.7% 25.7% 100.0%        | Average Indemnity 29,898 20,506 22,739 26,682 | Average Medical 29,802 14,726 21,657 25,499 | Average Incurred 59,699 35,232 44,396 52,180        | % Change in Avg. Indemnity 8.0% 11.7% -4.8% 6.2%  | % Change in<br>Avg. Medical<br>1.3%<br>-1.2%<br>6.0%<br>4.3% | % Change in Avg. Incurred 4.5% 5.9% 0.2% 5.3%    |

<sup>\*</sup>Policy Year 2013 is preliminary

## Percentage of Claim Count and Average Severity by Method of Settlement Geographic Region: Los Angeles\*\*

|  | Policy Year 2010                                   |  |  |  |   |   |  |
|--|--|--|--|--|---|---|--|
| Compromise & Release<br>Stipulated Award<br>All Other Settlements<br>Total/Average | Claim <u>Distribution</u> 62.0% 8.6% 29.4% 100.0%  | Average <u>Indemnity</u> 23,759 18,292 18,515 21,750 | Average<br><u>Medical</u><br>28,835<br>19,369<br><u>17,991</u><br>24,837 | Average Incurred 52,594 37,662 36,506 46,587               | % Change in Avg. Indemnity                          | % Change in Avg. Medical  | % Change in Avg. Incurred                          |
|  |  |  |  | Policy Ye  | ar 2011   |   |  |
| Compromise & Release<br>Stipulated Award<br>All Other Settlements<br>Total/Average | Claim <u>Distribution</u> 58.0% 9.8% 32.2% 100.0%  | Average Indemnity 23,023 18,976 20,407 21,784        | Average Medical 26,508 17,627 21,147 23,911                              | Average <u>Incurred</u> 49,531 36,603 <u>41,554</u> 45,695 | % Change in Avg. Indemnity -3.1% 3.7% 10.2% 0.2%    | % Change in Avg. Medical -8.1% -9.0% 17.5% -3.7%                | % Change in Avg. Incurred -5.8% -2.8% 13.8% -1.9%  |
|  |  |  |  | Policy Ye  | ar 2012   |   |  |
| Compromise & Release<br>Stipulated Award<br>All Other Settlements<br>Total/Average | Claim <u>Distribution</u> 58.7% 9.8% 31.5% 100.0%  | Average Indemnity 21,390 16,832 20,201 20,570        | Average<br><u>Medical</u><br>24,199<br>15,488<br><u>19,906</u><br>21,996 | Average Incurred 45,589 32,320 40,107 42,567               | % Change in Avg. Indemnity -7.1% -11.3% -1.0% -5.6% | % Change in Avg. Medical -8.7% -12.1% -5.9% -8.0%               | % Change in Avg. Incurred -8.0% -11.7% -3.5% -6.8% |
|  |  |  |  | Policy Yea   | ar 2013*  |   |  |
| Compromise & Release<br>Stipulated Award<br>All Other Settlements<br>Total/Average | Claim <u>Distribution</u> 65.6% 10.3% 24.1% 100.0% | Average Indemnity 22,103 17,886 20,771 21,348        | Average<br><u>Medical</u><br>23,528<br>14,961<br><u>19,512</u><br>21,679 | Average <u>Incurred</u> 45,631 32,847 40,283 43,028        | % Change in Avg. Indemnity 3.3% 6.3% 2.8% 3.8%      | % Change in<br>Avg. Medical<br>-2.8%<br>-3.4%<br>-2.0%<br>-1.4% | % Change in Avg. Incurred 0.1% 1.6% 0.4% 1.1%      |

<sup>\*</sup>Policy Year 2013 is preliminary

<sup>\*\*</sup>Includes Los Angeles County and remainder of Los Angeles Basin

## Percentage of Claim Count and Average Severity by Method of Settlement Geographic Region: Other

|  |  |   |  | Policy Ye   | ar 2010   |   |   |
|--|--|---|--|---|---|---|---|
| Compromise & Release<br>Stipulated Award<br>All Other Settlements<br>Total/Average | Claim <u>Distribution</u> 61.9% 11.3% 26.8% 100.0% | Average Indemnity 24,433 18,108 20,657 22,708               | Average Medical 29,741 16,910 18,697 25,337                              | Average <u>Incurred</u> 54,174 35,018 39,353 48,045 | % Change in Avg. Indemnity                          | % Change in Avg. Medical                          | % Change in Avg. Incurred                         |
|  |  |   |  | Policy Ye   | ar 2011   |   |   |
| Compromise & Release<br>Stipulated Award<br>All Other Settlements<br>Total/Average | Claim <u>Distribution</u> 58.7% 12.0% 29.2% 100.0% | Average Indemnity 25,188 18,615 22,134 23,504               | Average Medical 29,996 16,183 19,582 25,290                              | Average <u>Incurred</u> 55,184 34,798 41,715 48,794 | % Change in Avg. Indemnity 3.1% 2.8% 7.1% 3.5%      | % Change in Avg. Medical 0.9% -4.3% 4.7% -0.2%    | % Change in Avg. Incurred 1.9% -0.6% 6.0% 1.6%    |
|  |  |   |  | Policy Ye   | ar 2012   |   |   |
| Compromise & Release<br>Stipulated Award<br>All Other Settlements<br>Total/Average | Claim <u>Distribution</u> 59.1% 11.6% 29.3% 100.0% | Average <u>Indemnity</u> 24,393 16,613 20,682 22,401        | Average<br><u>Medical</u><br>29,895<br>15,433<br><u>19,895</u><br>25,283 | Average Incurred 54,288 32,045 40,578 47,684        | % Change in Avg. Indemnity -3.2% -10.8% -6.6% -4.7% | % Change in Avg. Medical -0.3% -4.6% 1.6% 0.0%    | % Change in Avg. Incurred -1.6% -7.9% -2.7% -2.3% |
|  |  |   |  | Policy Yea  | ar 2013*  |   |   |
| Compromise & Release<br>Stipulated Award<br>All Other Settlements<br>Total/Average | Claim <u>Distribution</u> 63.6% 13.0% 23.4% 100.0% | Average <u>Indemnity</u> 24,941 16,741 <u>21,013</u> 22,956 | Average Medical 28,450 13,433 18,950 24,275                              | Average Incurred 53,391 30,174 39,963 47,231        | % Change in Avg. Indemnity 2.2% 0.8% 1.6% 2.5%      | % Change in Avg. Medical -4.8% -13.0% -4.8% -4.0% | % Change in Avg. Incurred -1.7% -5.8% -1.5% -1.0% |

<sup>\*</sup>Policy Year 2013 is preliminary

#### Division of Workers' Compensation (DWC) Distribution of Decisions by Type

|               | Compromise &   | 1                   |               |
|---------------|----------------|---------------------|---------------|
| Calendar Year | <u>Release</u> | <b>Stipulations</b> | <b>Others</b> |
|               |                |                     |               |
| 1993          | 73.5%          | 19.6%               | 6.9%          |
| 1994          | 70.7%          | 22.3%               | 7.0%          |
| 1995          | 63.7%          | 28.7%               | 7.6%          |
| 1996          | 59.7%          | 31.3%               | 9.0%          |
| 1997          | 58.2%          | 32.7%               | 9.1%          |
| 1998          | 57.5%          | 33.2%               | 9.3%          |
| 1999          | 57.0%          | 34.4%               | 8.6%          |
| 2000          | 56.3%          | 35.3%               | 8.4%          |
| 2001          | 56.9%          | 35.3%               | 7.8%          |
| 2002          | 55.7%          | 36.3%               | 8.0%          |
| 2003          | 59.4%          | 33.1%               | 7.5%          |
| 2004          | 59.0%          | 34.0%               | 7.0%          |
| 2005          | 61.2%          | 31.5%               | 7.3%          |
| 2006          | 57.7%          | 33.5%               | 8.8%          |
| 2007          | 55.9%          | 34.7%               | 9.4%          |
| 2008*         | 54.4%          | 38.3%               | 7.3%          |
| 2009          | 52.2%          | 43.4%               | 4.4%          |
| 2010          | 49.5%          | 46.0%               | 4.5%          |
| 2011          | 51.2%          | 44.4%               | 4.3%          |
| 2012          | 51.4%          | 44.4%               | 4.2%          |
| 2013          | 54.5%          | 41.9%               | 3.6%          |
| 2014          | 57.7%          | 38.9%               | 3.4%          |
| 2015          | 59.3%          | 37.7%               | 3.0%          |

Source: DWC via Commission on Health and Safety & Workers' Compensation 2016 Annual Report

<sup>\*</sup>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.

### **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%         |
|              |                   |                   |                   |                |               |

Source: DWC

### **Quarterly Expedited Hearings - DOR Reasons by Region**

#### **Northern California**

|             | Medical   |           |              | Expedited      |
|-------------|-----------|-----------|--------------|----------------|
| Time Period | Treatment | <u>TD</u> | <u>Other</u> | <u>Hearing</u> |
| 2Q14-4Q14   | 77.4%     | 18.1%     | 4.5%         | 2,041          |
| 2015        | 76.4%     | 19.9%     | 3.7%         | 2,922          |
| 2016        | 77.6%     | 19.2%     | 3.2%         | 3,277          |
| 2017        | 77.5%     | 20.5%     | 2.0%         | 3,485          |

#### **Central California**

|             | Medical   |           |              | Expedited      |
|-------------|-----------|-----------|--------------|----------------|
| Time Period | Treatment | <u>TD</u> | <u>Other</u> | <u>Hearing</u> |
| 2Q14-4Q14   | 86.8%     | 12.2%     | 1.0%         | 2,795          |
| 2015        | 84.6%     | 14.2%     | 1.2%         | 3,169          |
| 2016        | 87.3%     | 12.0%     | 0.7%         | 3,770          |
| 2017        | 84.8%     | 14.3%     | 0.9%         | 3,462          |

#### **Southern California**

|             | Medical   |           |              | Expedited      |
|-------------|-----------|-----------|--------------|----------------|
| Time Period | Treatment | <u>TD</u> | <u>Other</u> | <u>Hearing</u> |
| 2Q14-4Q14   | 70.0%     | 19.4%     | 10.7%        | 7,957          |
| 2015        | 65.4%     | 20.5%     | 14.1%        | 10,438         |
| 2016        | 69.1%     | 18.9%     | 12.0%        | 11,424         |
| 2017        | 71.5%     | 18.6%     | 9.9%         | 13,223         |

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          | 56.0           | -13.0%        |
|               |                |               |

Source: DWC via Commission on Health and Safety & Workers' Compensation 2016 Annual Report

<sup>\*</sup>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.

### Liens Filed Counts\*

Counts by Region\*\*

| Time Period  | Bay Area | Central<br>Coast/<br><u>Valley</u> | Los Angeles<br><u>County</u> | Remainder<br>of LA Basin | Remaining<br>CA Zip<br><u>Codes</u> | <u>Sacramento</u> | San Diego<br><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       |

Counts by Type

| Time Period  | <u>Interpreter</u> | <u>Medical</u> | Medical-<br><u>Legal</u> | Copy<br><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                      | 23                     | 7,388    | 40,904       |
| 4th Qtr 2013 | 378                | 37,515         | 537                      | 8                      | 7,715    | 46,153       |
| 1st Qtr 2014 | 421                | 33,105         | 397                      | 16                     | 7,504    | 41,443       |
| 2nd Qtr 2014 | 275                | 38,534         | 320                      | 10                     | 8,105    | 47,244       |
| 3rd Qtr 2014 | 140                | 39,810         | 179                      | 7                      | 7,821    | 47,957       |
| 4th Qtr 2014 | 156                | 45,440         | 160                      | 4                      | 7,788    | 53,548       |
| 1st Qtr 2015 | 143                | 60,155         | 216                      | 18                     | 11,492   | 72,024       |
| 2nd Qtr 2015 | 152                | 74,037         | 268                      | 7                      | 12,257   | 86,721       |
| 3rd Qtr 2015 | 134                | 84,290         | 191                      | 7                      | 13,493   | 98,115       |
| 4th Qtr 2015 | 101                | 91,820         | 236                      | 15                     | 14,837   | 107,009      |
| 1st Qtr 2016 | 60                 | 93,393         | 233                      | 5                      | 14,329   | 108,020      |
| 2nd Qtr 2016 | 90                 | 89,781         | 467                      | 6                      | 15,628   | 105,972      |
| 3rd Qtr 2016 | 64                 | 64,924         | 262                      | 11                     | 11,278   | 76,539       |
| 4th Qtr 2016 | 94                 | 91,867         | 68                       | 4                      | 11,686   | 103,719      |
| 1st Qtr 2017 | 29                 | 33,952         | 19                       | 3                      | 5,664    | 39,667       |
| 2nd Qtr 2017 | 33                 | 43,470         | 34                       | 5                      | 7,851    | 51,393       |
| 3rd Qtr 2017 | 77                 | 37,815         | 31                       | 0                      | 7,392    | 45,315       |
| 4th Qtr 2017 | 65                 | 33,876         | 18                       | 1                      | 7,714    | 41,674       |

<sup>\*</sup> Lien Counts exclude SDI/EDD Liens

<sup>\*\*</sup> 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

<sup>\*\*\*</sup>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        |                 | 129           |                 |
| 2013 3Q        | 31,950     |                 | 515           |                 |
| 2013 4Q        | 51,092     |                 | 3,159         |                 |
| 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        | 61,973     | 2.0%            | 43,480        | 6.0%            |
| 2017 2Q        | 62,773     | -3.2%           | 44,489        | 0.5%            |
| 2017 3Q        | 63,380     | 1.6%            | 43,822        | -0.2%           |
| 2017 4Q        | 60,124     | -1.9%           | 43,370        | -0.6%           |
|                |            |                 |               |                 |

### Yearly IMR Counts

|                 | Original IMR<br>Applications | Duplicates | Ineligible | Total Reiected | Eligible IMRs | Eligible IMR<br>Yearly Change |
|-----------------|------------------------------|------------|------------|----------------|---------------|-------------------------------|
| 2013 IMR Counts | 83,920                       | 15,560     | 15,516     | 31,076         | 52,844        |                               |
| 2014 IMR Counts | 228,084                      | 55,503     | 29,269     | 84,772         | 143,312       | 171.2%                        |
| 2015 IMR Counts | 253,776                      | 58,088     | 30,079     | 88,167         | 165,609       | 15.6%                         |
| 2016 IMR Counts | 249,353                      | 53,314     | 23,219     | 76,533         | 172,820       | 4.4%                          |
| 2017 IMR Counts | 248,250                      | 55,670     | 17,419     | 73,089         | 175,161       | 1.4%                          |

Source: DWC Collected from IMR Vendor

DWC Via Commission on Health and Safety & Workers' Compensation 2016 Annual Report

### Indemnity Claim Settlement Ratios by Injury Type

| Permanent P   | artial |       |       |       |       | Temporary   |       |       |       |       |       |
|---------------|--------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|
| AY/RL         | 1      | 2     | 3     | 4     | 5     | AY/RL       | 1     | 2     | 3     | 4     | 5     |
| 1997          | 9.7%   | 33.2% | 55.7% | 69.7% | 77.5% | 1997        | 74.8% | 88.9% | 93.1% | 98.1% | 97.4% |
| 1998          | 8.9%   | 30.8% | 53.7% | 67.5% | 74.4% | 1998        | 78.0% | 90.1% | 95.4% | 95.4% | 96.6% |
| 1999          | 8.7%   | 29.3% | 50.4% | 62.5% | 69.2% | 1999        | 75.1% | 88.4% | 92.3% | 94.5% | 95.6% |
| 2000          | 8.0%   | 26.8% | 45.2% | 57.3% | 66.2% | 2000        | 70.6% | 84.3% | 89.3% | 92.1% | 93.4% |
| 2001          | 7.1%   | 22.2% | 41.2% | 57.7% | 69.5% | 2001        | 66.1% | 79.4% | 87.1% | 89.7% | 91.5% |
| 2002          | 5.2%   | 19.3% | 41.7% | 60.3% | 71.7% | 2002        | 64.7% | 80.9% | 87.0% | 90.7% | 93.1% |
| 2003          | 4.1%   | 20.8% | 44.3% | 61.3% | 72.5% | 2003        | 67.9% | 81.6% | 88.5% | 92.6% | 94.8% |
| 2004          | 5.2%   | 22.5% | 44.0% | 60.0% | 71.4% | 2004        | 70.1% | 84.8% | 91.6% | 95.6% | 95.6% |
| 2005          | 5.9%   | 22.6% | 43.1% | 59.4% | 69.7% | 2005        | 69.8% | 84.0% | 90.7% | 92.7% | 95.5% |
| 2006          | 6.5%   | 23.6% | 44.3% | 59.5% | 69.1% | 2006        | 71.4% | 86.8% | 91.9% | 95.0% | 95.5% |
| 2007          | 6.0%   | 23.9% | 43.6% | 58.1% | 68.2% | 2007        | 71.3% | 85.3% | 91.7% | 93.8% | 95.0% |
| 2008          | 6.1%   | 24.0% | 43.3% | 58.0% | 69.9% | 2008        | 70.0% | 84.2% | 89.3% | 92.2% | 94.3% |
| 2009          | 6.0%   | 23.5% | 42.5% | 58.5% | 70.7% | 2009        | 67.9% | 81.0% | 87.0% | 91.0% | 93.2% |
| 2010          | 7.2%   | 25.3% | 45.8% | 62.3% | 73.6% | 2010        | 64.9% | 78.3% | 85.5% | 89.8% | 92.5% |
| 2011          | 7.9%   | 27.4% | 48.7% | 64.5% | 75.7% | 2011        | 63.4% | 77.4% | 84.9% | 89.5% | 91.8% |
| 2012          | 9.2%   | 30.6% | 51.5% | 66.5% | 77.2% | 2012        | 63.0% | 77.9% | 86.0% | 90.5% | 93.2% |
| 2013          | 10.1%  | 31.9% | 53.1% | 70.0% |       | 2013        | 62.9% | 79.5% | 86.9% | 91.6% |       |
| 2014          | 10.7%  | 33.2% | 54.5% |       |       | 2014        | 65.1% | 80.0% | 87.6% |       |       |
| 2015          | 12.2%  | 37.5% |       |       |       | 2015        | 64.2% | 78.5% |       |       |       |
| 2016          | 13.9%  |       |       |       |       | 2016        | 65.5% |       |       |       |       |
|               | •      |       |       |       |       | •           | •     |       |       |       |       |
| Cumulative II |        |       | _     |       | _     | Non-Cumulat |       |       |       |       | _     |
| AY/RL         | 1      | 2     | 3     | 4     | 5     | AY/RL       | 1     | 2     | 3     | 4     | 5     |
| 1997          | 16.6%  | 36.9% | 54.8% | 67.2% | 76.0% | 1997        | 46.5% | 64.7% | 77.0% | 86.0% | 88.8% |
| 1998          | 17.2%  | 33.5% | 51.3% | 64.1% | 72.0% | 1998        | 47.4% | 64.0% | 77.2% | 83.2% | 86.9% |
| 1999          | 16.3%  | 31.7% | 48.6% | 60.7% | 68.7% | 1999        | 45.2% | 62.0% | 73.8% | 80.3% | 83.8% |
| 2000          | 13.5%  | 29.7% | 45.3% | 57.1% | 66.5% | 2000        | 42.5% | 58.5% | 69.6% | 76.5% | 81.1% |
| 2001          | 12.8%  | 26.8% | 43.6% | 57.3% | 67.8% | 2001        | 38.1% | 52.2% | 65.2% | 74.5% | 81.0% |
| 2002          | 12.4%  | 26.8% | 43.9% | 59.4% | 70.1% | 2002        | 35.3% | 50.3% | 64.6% | 75.7% | 82.5% |
| 2003          | 12.5%  | 27.6% | 45.6% | 59.9% | 69.5% | 2003        | 36.7% | 51.9% | 67.1% | 77.6% | 84.2% |
| 2004          | 15.6%  | 30.3% | 46.8% | 60.5% | 69.8% | 2004        | 40.3% | 56.3% | 70.1% | 79.6% | 84.8% |
| 2005          | 13.2%  | 27.6% | 42.5% | 55.1% | 64.7% | 2005        | 43.3% | 58.6% | 71.4% | 79.5% | 85.3% |
| 2006          | 13.1%  | 27.7% | 42.7% | 54.8% | 64.2% | 2006        | 43.6% | 59.9% | 72.1% | 80.4% | 84.7% |
| 2007          | 13.5%  | 28.4% | 42.9% | 55.0% | 65.0% | 2007        | 42.7% | 58.6% | 71.1% | 78.7% | 83.7% |
| 2008          | 12.0%  | 26.9% | 41.4% | 54.1% | 65.4% | 2008        | 40.8% | 56.9% | 68.7% | 77.1% | 83.6% |
| 2009          | 10.9%  | 24.3% | 39.2% | 54.0% | 66.7% | 2009        | 39.3% | 54.8% | 67.1% | 76.7% | 83.3% |
| 2010          | 13.0%  | 26.3% | 43.0% | 59.1% | 71.1% | 2010        | 38.4% | 54.4% | 68.0% | 77.8% | 84.3% |
| 2011          | 10.7%  | 26.8% | 45.6% | 61.0% | 72.1% | 2011        | 38.5% | 55.3% | 69.2% | 78.8% | 85.0% |
| 2012          | 11.3%  | 29.4% | 46.7% | 61.2% | 73.4% | 2012        | 39.5% | 57.6% | 71.6% | 80.7% | 86.7% |
| 2013          | 13.9%  | 32.2% | 49.9% | 66.8% |       | 2013        | 40.0% | 59.2% | 72.9% | 82.8% |       |
| 2014          | 14.2%  | 32.8% | 49.7% |       |       | 2014        | 41.7% | 60.2% | 74.2% |       |       |
| 2015          | 14.6%  | 33.6% |       |       |       | 2015        | 42.0% | 61.7% |       |       |       |
| 2016          | 16.5%  |       |       |       |       | 2016        | 43.8% |       |       |       |       |
|               | ı      |       |       |       |       |             |       |       |       |       |       |
| All Indemnity | _      |       |       |       |       |             |       |       |       |       |       |
| AY/RL         | 1      | 2     | 3     | 4     | 5     |             |       |       |       |       |       |
| 1997          | 44.5%  | 62.8% | 75.5% | 84.7% | 87.9% |             |       |       |       |       |       |
| 1998          | 45.3%  | 61.9% | 75.4% | 81.9% | 85.9% |             |       |       |       |       |       |
| 1999          | 43.1%  | 59.8% | 71.9% | 78.8% | 82.7% |             |       |       |       |       |       |
| 2000          | 40.2%  | 56.3% | 67.7% | 75.0% | 80.0% |             |       |       |       |       |       |
| 2001          | 36.0%  | 50.2% | 63.5% | 73.1% | 79.9% |             |       |       |       |       |       |
| 2002          | 33.3%  | 48.3% | 62.8% | 74.3% | 81.5% |             |       |       |       |       |       |
| 2003          | 34.6%  | 49.8% | 65.3% | 76.1% | 82.9% |             |       |       |       |       |       |
| 2004          | 38.2%  | 54.1% | 68.2% | 78.0% | 83.6% |             |       |       |       |       |       |
| 2005          | 41.1%  | 56.4% | 69.4% | 77.7% | 83.8% |             |       |       |       |       |       |
| 2006          | 41.4%  | 57.6% | 69.9% | 78.5% | 83.2% |             |       |       |       |       |       |
| 2007          | 40.5%  | 56.3% | 69.0% | 76.9% | 82.3% |             |       |       |       |       |       |
| 2008          | 38.4%  | 54.5% | 66.5% | 75.3% | 82.2% |             |       |       |       |       |       |
| 2009          | 36.6%  | 51.9% | 64.5% | 74.5% | 81.8% |             |       |       |       |       |       |
| 2010          | 35.9%  | 51.6% | 65.4% | 76.0% | 83.0% |             |       |       |       |       |       |
| 2011          | 35.7%  | 52.4% | 66.8% | 77.0% | 83.7% |             |       |       |       |       |       |
| 2012          | 36.4%  | 54.4% | 68.9% | 78.5% | 85.2% |             |       |       |       |       |       |
| 2013          | 36.7%  | 55.8% | 70.1% | 80.8% |       |             |       |       |       |       |       |
| 2014          | 38.0%  | 56.7% | 70.9% |       |       |             |       |       |       |       |       |
| 2015          | 38.3%  | 58.0% | ,     |       |       |             |       |       |       |       |       |
| 2016          | 40.1%  |       |       |       |       |             |       |       |       |       |       |
| _0.0          | 1      |       |       |       |       |             |       |       |       |       |       |

### Notes:

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

Settlement rates are based on claim counts developed to 5th report. Source: WCIRB Unit Statistical data

<sup>\*</sup>Cumulative Injury includes both cumulative injury and occupational disease.

### Ratio of Incremental Closed Indemnity Claims to Prior Open Indemnity Claims

| Accident |             |              |              | D            | evelopme     | nt           |              |               |         |
|----------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------|
| 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 |
| 1999     |             |              |              |              |              |              |              |               | 17.6%   |
| 2000     |             |              |              |              |              |              |              | 19.4%         | 17.7%   |
| 2001     |             |              |              |              |              |              | 21.5%        | 18.7%         | 16.3%   |
| 2002     |             |              |              |              |              | 25.0%        | 21.1%        | 18.7%         | 16.5%   |
| 2003     |             |              |              |              | 27.8%        | 23.6%        | 19.5%        | 18.2%         | 17.4%   |
| 2004     |             |              |              | 29.5%        | 24.3%        | 20.4%        | 19.6%        | 18.6%         | 22.5%   |
| 2005     |             |              | 30.4%        | 27.3%        | 22.6%        | 21.7%        | 19.3%        | 23.1%         | 20.6%   |
| 2006     |             | 28.1%        | 29.5%        | 26.2%        | 23.1%        | 20.2%        | 24.3%        | 22.1%         | 19.2%   |
| 2007     | 35.3%       | 26.5%        | 28.2%        | 26.2%        | 22.2%        | 25.7%        | 24.6%        | 20.9%         | 23.4%   |
| 2008     | 33.2%       | 25.4%        | 27.4%        | 25.9%        | 26.8%        | 26.7%        | 24.0%        | 25.1%         | 23.2%   |
| 2009     | 31.5%       | 25.0%        | 27.0%        | 27.7%        | 27.3%        | 26.3%        | 27.1%        | 24.6%         |         |
| 2010     | 32.0%       | 26.1%        | 29.2%        | 30.1%        | 28.2%        | 29.0%        | 26.8%        |               |         |
| 2011     | 32.0%       | 27.3%        | 30.7%        | 31.2%        | 29.7%        | 29.5%        |              |               |         |
| 2012     | 32.3%       | 29.4%        | 31.9%        | 32.0%        | 32.0%        |              |              |               |         |
| 2013     | 33.2%       | 30.8%        | 33.8%        | 34.3%        |              |              |              |               |         |
| 2014     | 34.2%       | 32.1%        | 34.9%        |              |              |              |              |               |         |
| 2015     | 35.2%       | 34.7%        |              |              |              |              |              |               |         |
| 2016     | 37.7%       |              |              |              |              |              |              |               |         |

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 70% to 97% of the total California workers' compensation insured market measured using 2016 earned premium levels).

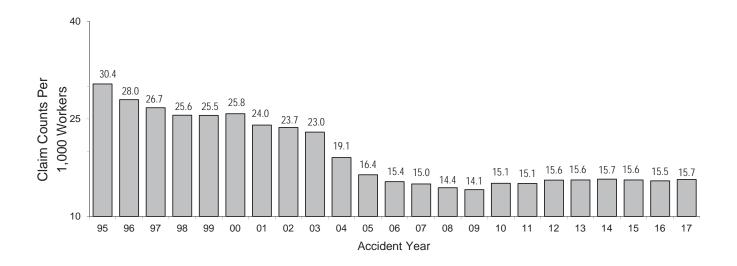
Ratio of Incremental Closed Indemnity Claims to Prior Open Indemnity Claims

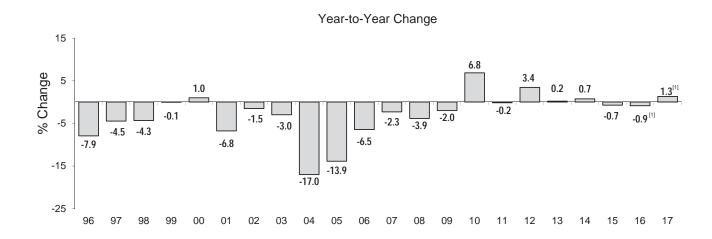
|             | 45-48 | 7.9%  | %9.7  | 7.7%  | 9.2%  | 9.2%  | 9.5%  | 10.3% |       |       |       |      |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|             | 42-45 | 7.7%  | 7.7%  | 7.1%  | 8.8%  | 9.5%  | 9.5%  | 8.6   | 10.1% |       |       |      |
|             | 39-42 | 7.5%  | 7.4%  | 7.9%  | %0.6  | 8.5%  | 9.3%  | 10.1% | 11.0% |       |       |      |
|             | 36-39 | 7.5%  | 7.3%  | 7.3%  | 7.8%  | 8.4%  | %0.6  | 9.7%  | 9.4%  |       |       |      |
|             | 33-36 | 9.1%  | 8.1%  | 7.8%  | 7.9%  | 9.2%  | 9.3%  | 9.7%  | 10.2% |       |       |      |
|             | 30-33 | 7.1%  | 7.4%  | 7.6%  | 7.3%  | 8.2%  | 9.2%  | 9.2%  | 8.6   | 10.4% |       |      |
|             | 27-30 | 7.9%  | 7.3%  | 7.0%  | 7.6%  | 8.5%  | 8.6%  | 9.1%  | 9.3%  | 10.9% |       |      |
| Development | 24-27 | %6.9  | %2'9  | 6.5%  | %8.9  | 7.0%  | %9'.  | 8.5%  | %0.6  | 8.6   |       |      |
| De          | 21-24 | 7.7%  | %2'9  | %9:9  | 7.2%  | 7.3%  | 8.2%  | 8.6%  | 8.8%  | 9.3%  |       |      |
|             | 18-21 | 7.5%  | 7.0%  | 8.9   | 8.9   | 7.1%  | 7.5%  | 8.4%  | %0.6  | %0.6  | 8.6   |      |
|             | 15-18 | 9.7%  | 9.2%  | 8.6%  | 8.6%  | 8.8%  | 9.1%  | 9.4%  | %9.6  | 10.4% | 11.4% |      |
|             | 12-15 | 12.4% | 11.2% | 10.6% | 11.1% | 10.7% | 10.5% | 10.6% | 11.0% | 11.6% | 12.4% |      |
|             | 9-12  | 11.7% | 11.2% | 10.3% | 10.4% | 10.6% | 10.4% | 10.3% | 10.2% | 10.2% | 11.0% |      |
|             | 6-9   | 8.5%  | 8.3%  | 7.9%  | 7.5%  | 7.2%  | 7.4%  | 7.1%  | 7.2%  | %9'.  | %9'.  | 8.1% |
|             | 3-6   | 4.5%  | 4.7%  | 4.0%  | 4.1%  | 4.3%  | 4.3%  | 4.2%  | 4.0%  | 3.9%  | 4.3%  | 4.7% |
| Accident    | Year  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017 |

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 97% of the total California workers' compensation insured market measured using 2016 earned premium levels).

Source: WCIRB quarterly calls for experience

# California Workers' Compensation Estimated Indemnity Claim Frequency by Accident Year As of September 30, 2017





<sup>[1]</sup> The 2016 and 2017 estimates are based on comparison of claim counts based on WCIRB accident year experience as of September 30, 2017 relative to the estimated change in statewide employment. Prior years are based on unit statistical data.

### 2017 Accident Year Indemnity Claim Frequency Model As of PY 2015 1st Set & December 2017 UCLA

|       | Annual %       | Annual Log Differences |                      |          |               |              |                   |          |
|-------|----------------|------------------------|----------------------|----------|---------------|--------------|-------------------|----------|
|       | Changes Intra- |                        | Class Indemnity Free |          | AY+1          |              | Economic          | CalOSHA  |
|       | Class Ind Freq |                        | Exposure at PY 20    |          | Indemnity     | Cumulative   | Variables         | Dummy    |
| AY    | Total          | Total                  | Cumulative           | Non-cum. | Benefit Level | Injury Index | (1st Prin. Comp.) | Variable |
| 1979  | 0.5%           | 0.005                  | -0.053               | 0.007    | 0.000         | -0.060       | 0.134             | 0.000    |
| 1980  | -6.5%          | -0.068                 | -0.132               | -0.066   | 0.033         | -0.066       | -0.080            | 0.000    |
| 1981  | -3.5%          | -0.036                 | -0.028               | -0.036   | 0.000         | 0.008        | -0.078            | 0.000    |
| 1982  | -1.6%          | -0.016                 | 0.153                | -0.022   | 0.352         | 0.175        | -0.292            | 0.000    |
| 1983  | 6.2%           | 0.060                  | 0.214                | 0.054    | 0.081         | 0.160        | 0.029             | 0.000    |
| 1984  | 9.5%           | 0.091                  | 0.235                | 0.084    | 0.000         | 0.151        | 0.221             | 0.000    |
| 1985  | 2.0%           | 0.020                  | 0.138                | 0.014    | 0.000         | 0.124        | 0.080             | 0.000    |
| 1986  | -2.4%          | -0.024                 | 0.039                | -0.028   | 0.000         | 0.067        | 0.077             | 0.000    |
| 1987  | 1.5%           | 0.015                  | 0.053                | 0.013    | 0.000         | 0.041        | 0.150             | 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        | -0.120            | 0.000    |
| 1991  | 0.3%           | 0.003                  | 0.166                | -0.018   | 0.023         | 0.184        | -0.291            | 0.000    |
| 1992  | -11.1%         | -0.118                 | -0.272               | -0.098   | 0.013         | -0.174       | -0.185            | 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       | 0.074             | 0.000    |
| 1997  | -3.3%          | -0.033                 | -0.023               | -0.034   | 0.066         | 0.011        | 0.137             | 0.000    |
| 1998  | -3.8%          | -0.038                 | -0.040               | -0.038   | 0.058         | -0.002       | 0.078             | 0.000    |
| 1999  | 1.5%           | 0.014                  | 0.100                | 800.0    | 0.040         | 0.092        | 0.127             | 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        | -0.100            | 0.000    |
| 2002  | -2.8%          | -0.029                 | 0.001                | -0.031   | 0.060         | 0.033        | -0.197            | 0.000    |
| 2003  | -3.2%          | -0.032                 | -0.009               | -0.035   | -0.065        | 0.026        | -0.022            | 0.000    |
| 2004  | -16.9%         | -0.185                 | -0.212               | -0.182   | -0.398        | -0.030       | 0.098             | 0.000    |
| 2005  | -13.6%         | -0.147                 | -0.299               | -0.134   | 0.051         | -0.165       | 0.143             | 0.000    |
| 2006  | -5.7%          | -0.059                 | -0.050               | -0.059   | 0.016         | 0.009        | 0.090             | 0.000    |
| 2007  | -1.6%          | -0.017                 | 0.021                | -0.020   | 0.049         | 0.040        | -0.095            | 0.000    |
| 2008  | -2.7%          | -0.027                 | 0.038                | -0.033   | 0.006         | 0.071        | -0.320            | 0.000    |
| 2009  | -0.2%          | -0.002                 | 0.168                | -0.018   | 0.066         | 0.186        | -0.414            | 0.000    |
| 2010  | 8.9%           | 0.085                  | 0.139                | 0.079    | 0.012         | 0.060        | -0.077            | 0.000    |
| 2011  | 1.3%           | 0.013                  | 0.033                | 0.010    | 0.003         | 0.022        | 0.048             | 0.000    |
| 2012  | 4.7%           | 0.046                  | 0.130                | 0.036    | 0.022         | 0.094        | 0.120             | 0.000    |
| 2013  | 0.6%           | 0.006                  | 0.155                | -0.015   | 0.071         | 0.170        | 0.154             | 0.000    |
| 2014  | 0.5%           | 0.005                  | 0.095                | -0.009   | 0.003         | 0.104        | 0.172             | 0.000    |
| 2015  | -0.6%          | -0.006                 | 0.075                | -0.020   | 0.002         | 0.094        | 0.192             | 0.000    |
| 2016* | -3.2%          | -0.033                 | 0.000                | -0.039   | 0.004         | 0.040        | 0.128             | 0.000    |
| 2017  | -0.9%          | -0.009                 | -0.009               | -0.009   | 0.004         | 0.000        | 0.109             | 0.000    |
| 2018  | -1.3%          | -0.013                 | -0.013               | -0.013   | 0.004         | 0.000        | 0.066             | 0.000    |
| 2019  | -2.0%          | -0.020                 | -0.020               | -0.020   | 0.004         | 0.000        | -0.005            | 0.000    |
| 2020  | -2.1%          | -0.021                 | -0.021               | -0.021   | 0.004         | 0.000        | -0.016            | 0.000    |

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

| Constant            | -0.020 |
|---------------------|--------|
| Std Err of Y Est    | 0.040  |
| R Squared           | 0.583  |
| No. of Observations | 38     |
| Degrees of Freedom  | 33     |
|                     |        |
|                     |        |

X Coefficient(s) 0.178 0.284 0.094 -0.131 Std Err of Coef. 0.073 0.062 0.044 0.077

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 2016; December 2017 UCLA Anderson Forecasts for 2017 on.

Regression is over AY 1979 through AY 2016. AY 2017 through AY 2020 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 2016 is preliminary and change is based on a comparison of 2016 accidents on 2015 policies to 2015 accidents on 2014 policies.

### **Indemnity Claim Frequency History and Projections**

| <b>A</b> 1/  | Intra-Class<br>Indemnity<br>Claim | Inter-Class<br>Indemnity<br>Claim<br>Frequency | Overall<br>Indemnity<br>Claim |             | ıal Percent Chan | 0       |
|--------------|-----------------------------------|--|-------------------------------|-------------|------------------|---------|
| AY           | Frequency(a)                      | Index(b)                                       | Frequency                     | Intra-Class | Inter-Class      | Overall |
| 1979         | 0.565                             | 0.921  | 0.681                         |             |                  |         |
| 1980         | 0.528                             | 0.914  | 0.632                         | -6.54%      | -0.75%           | -7.24%  |
| 1981         | 0.510                             | 0.900  | 0.600                         | -3.54%      | -1.56%           | -5.04%  |
| 1982         | 0.502                             | 0.882  | 0.578                         | -1.59%      | -2.00%           | -3.56%  |
| 1983         | 0.533                             | 0.873  | 0.608                         | 6.20%       | -0.98%           | 5.17%   |
| 1984         | 0.583                             | 0.871  | 0.665                         | 9.53%       | -0.18%           | 9.32%   |
| 1985         | 0.595                             | 0.867  | 0.675                         | 2.05%       | -0.51%           | 1.52%   |
| 1986         | 0.581                             | 0.859  | 0.653                         | -2.39%      | -0.92%           | -3.28%  |
| 1987         | 0.590                             | 0.854  | 0.659                         | 1.53%       | -0.56%           | 0.97%   |
| 1988         | 0.594                             | 0.854  | 0.664                         | 0.69%       | -0.06%           | 0.64%   |
| 1989         | 0.609                             | 0.853  | 0.679                         | 2.47%       | -0.08%           | 2.39%   |
| 1990         | 0.664                             | 0.845  | 0.734                         | 9.04%       | -0.89%           | 8.07%   |
| 1991         | 0.666                             | 0.832  | 0.725                         | 0.28%       | -1.58%           | -1.30%  |
| 1992         | 0.592                             | 0.820  | 0.635                         | -11.09%     | -1.45%           | -12.37% |
| 1993         | 0.504                             | 0.810  | 0.534                         | -14.91%     | -1.25%           | -15.98% |
| 1994         | 0.439                             | 0.809  | 0.465                         | -12.76%     | -0.06%           | -12.81% |
| 1995         | 0.419                             | 0.811  | 0.444                         | -4.64%      | 0.16%            | -4.49%  |
| 1996         | 0.391                             | 0.800  | 0.409                         | -6.78%      | -1.25%           | -7.94%  |
| 1997         | 0.378                             | 0.791  | 0.391                         | -3.27%      | -1.23%           | -4.46%  |
| 1998         | 0.364                             | 0.786  | 0.374                         | -3.76%      | -0.60%           | -4.34%  |
| 1999         | 0.369                             | 0.774  | 0.374                         | 1.45%       | -1.48%           | -0.05%  |
| 2000         | 0.384                             | 0.752  | 0.377                         | 4.02%       | -2.91%           | 0.99%   |
| 2001         | 0.357                             | 0.753  | 0.352                         | -6.91%      | 0.13%            | -6.79%  |
| 2002         | 0.347                             | 0.763  | 0.346                         | -2.83%      | 1.34%            | -1.53%  |
| 2003         | 0.336                             | 0.764  | 0.336                         | -3.18%      | 0.20%            | -2.99%  |
| 2004         | 0.279                             | 0.763  | 0.279                         | -16.85%     | -0.21%           | -17.03% |
| 2005         | 0.241                             | 0.760  | 0.240                         | -13.63%     | -0.31%           | -13.90% |
| 2006         | 0.228                             | 0.754  | 0.225                         | -5.69%      | -0.81%           | -6.46%  |
| 2007         | 0.224                             | 0.749  | 0.219                         | -1.64%      | -0.68%           | -2.31%  |
| 2008         | 0.218                             | 0.740  | 0.211                         | -2.71%      | -1.18%           | -3.85%  |
| 2009         | 0.217                             | 0.727  | 0.207                         | -0.20%      | -1.82%           | -2.02%  |
| 2010         | 0.237                             | 0.713  | 0.221                         | 8.87%       | -1.87%           | 6.83%   |
| 2011         | 0.240                             | 0.703  | 0.220                         | 1.27%       | -1.42%           | -0.17%  |
| 2012         | 0.251                             | 0.694  | 0.228                         | 4.68%       | -1.20%           | 3.43%   |
| 2013         | 0.252                             | 0.692  | 0.228                         | 0.57%       | -0.36%           | 0.21%   |
| 2014         | 0.254                             | 0.694  | 0.230                         | 0.50%       | 0.23%            | 0.74%   |
| 2015(c)      | 0.252                             | 0.692  | 0.228                         | -0.58%      | -0.16%           | -0.73%  |
| 2015(d)      | 0.251                             | 0.692  | 0.228                         |             |                  |         |
| 2016(e)      | 0.243                             | 0.691  | 0.220                         | -3.23%      | -0.14%           | -3.37%  |
| 2017         | 0.241                             | 0.694  | 0.219                         | -0.90%      | 0.39%            | -0.51%  |
| 2018         | 0.238                             | 0.693  | 0.215                         | -1.31%      | -0.24%           | -1.54%  |
| 2019         | 0.233                             | 0.691  | 0.211                         | -1.96%      | -0.17%           | -2.12%  |
| 2020         | 0.228                             | 0.691  | 0.206                         | -2.06%      | -0.11%           | -2.17%  |
|              |                                   |  |                               |             |                  |         |
|              |                                   |  |                               |             |                  |         |
| <b>D</b> ) ( |                                   |  |                               |             |                  |         |
| PY           | 0.010                             | 0.704  | 0.000                         |             |                  |         |
| 2008         | 0.218                             | 0.734  | 0.209                         | 0.070/      | 4.040/           | 4.040/  |
| 2009         | 0.226                             | 0.721  | 0.213                         | 3.87%       | -1.84%           | 1.91%   |
| 2010         | 0.238                             | 0.708  | 0.221                         | 5.30%       | -1.67%           | 3.57%   |
| 2011         | 0.245                             | 0.699  | 0.224                         | 2.82%       | -1.32%           | 1.45%   |
| 2012         | 0.252                             | 0.693  | 0.228                         | 2.79%       | -0.83%           | 1.95%   |
| 2013         | 0.253                             | 0.693  | 0.229                         | 0.54%       | -0.10%           | 0.44%   |
| 2014         | 0.252                             | 0.693  | 0.229                         | -0.15%      | 0.06%            | -0.09%  |
| 2015         | 0.248                             | 0.692  | 0.224                         | -1.97%      | -0.15%           | -2.11%  |
| 2016         | 0.242                             | 0.693  | 0.219                         | -2.20%      | 0.10%            | -2.11%  |
| 2017         | 0.239                             | 0.693  | 0.217                         | -1.08%      | 0.11%            | -0.97%  |
| 2018         | 0.236                             | 0.692  | 0.213                         | -1.60%      | -0.21%           | -1.80%  |
| 2019         | 0.231                             | 0.691  | 0.209                         | -2.00%      | -0.14%           | -2.14%  |

Notes:

(a) All frequencies are per \$M exposure at PY 2016 Level.

(b) Index is to AY 1961.

(c) 2015 accidents on 2015 and 2014 policies.

(d) 2015 accidents on 2014 policies only.

(e) AY 2016 is preliminary and percent changes are based on a comparison of 2016 accidents on 2015 policies to 2015 accidents on 2014 policies.

(f) Forecasts below thick solid line.

Source: WCIRB Indemnity Frequency Model

# **Changes in Incremental Indemnity Claim Counts and Medical Only Claim Counts**

Change in Statewide Incremental Number of Indemnity Claims

Change in Statewide Incremental Number of Medical-Only Claims

|                   | Change in           | Change in           | Change in               | Change in           |
|-------------------|---------------------|---------------------|-------------------------|---------------------|
|                   | Quarterly Increment | 4-Quarter Increment | Quarterly Increment     | 4-Quarter Increment |
| Calendar          | from Same Quarter   | from Same Quarter   | from Same Quarter       | from Same Quarter   |
| Quarter           | at Prior            | at Prior            | at Prior                | at Prior            |
| <b>Evaluation</b> | Calendar Year       | Calendar Year       | Calendar Year           | Calendar Year       |
| 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%               | -13.0 <i>%</i><br>-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%                    | -7.6%<br>-2.6%      |
| 3/31/2011         | 2.7%                | 5.1%                | -4.1%                   | -2.0%<br>-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         | 8.1%                | 3.9%                | 0.1%                    | -2.6%               |
| 9/30/2012         | 5.5%                | 4.5%                | 3.2%                    | -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         | 12.0%               | 8.5%                | 6.3%                    | 3.2%                |
| 6/30/2014         | 1.5%                | 6.1%                | -3.3%                   | 0.1%                |
| 9/30/2014         | 3.4%                | 5.3%                | 5.9%                    | 2.2%                |
| 12/31/2014        | 2.4%                | 4.5%                | 6.3%                    | 3.7%                |
| 3/31/2015         | 0.1%                | 1.9%                | 7.7%                    | 4.0%                |
| 6/30/2015         | 4.4%                | 2.6%                | 4.8%                    | 6.1%                |
| 9/30/2015         | 2.3%                | 2.3%                | 5.6%                    | 6.0%                |
| 12/31/2015        | 3.8%                | 2.7%                | 1.7%                    | 4.8%                |
| 3/31/2016         | 4.2%                | 3.6%                | 4.5%                    | 4.1%                |
| 6/30/2016         | 2.1%                | 3.1%                | 4.9%                    | 4.2%                |
| 9/30/2016         | -1.0%               | 2.2%                | -4.0%                   | 1.6%                |
| 12/31/2016        | 0.8%                | 1.4%                | 0.7%                    | 1.3%                |
| 3/31/2017         | 2.7%                | 1.1%                | 1.3%                    | 0.1%                |
| 6/30/2017         | 4.1%                | 1.5%                | 6.3%                    | 0.6%                |
|                   |                     |                     |                         |                     |
| 9/30/2017         | 1.4%                | 2.1%                | 6.0%                    | 3.1%                |

### Partial Accident Year Cumulative Injury Indemnity Claim Counts by Policy Year and Report Level

|          |             |             |             |                 | 1st Half Partial |                |             |             |             |              |          |
|----------|-------------|-------------|-------------|-----------------|------------------|----------------|-------------|-------------|-------------|--------------|----------|
| <br>AY   | (AY-1).1    | (AY-1).2    | (AY-1).3    | (AY-1).4        | (AY-1).5         | to (AY-1).6    | to (AY-1).7 | to (AY-1).8 | to (AY-1).9 | to (AY-1).10 |          |
| 2004     | 5,374       | 5,721       | 5,859       | 5,960           | 6,085            | 6,347          | 6,478       | 6,495       | 6,500       | 6,532        |          |
| 2005     | 3,184       | 3,665       | 3,969       | 4,243           | 4,568            | 4,693          | 4,762       | 4,832       | 4,844       | 4,880        |          |
| 2006     | 2,989       | 3,569       | 3,924       | 4,231           | 4,348            | 4,467          | 4,498       | 4,581       | 4,650       | 4,685        |          |
| 2007     | 3,037       | 3,645       | 4,038       | 4,274           | 4,413            | 4,524          | 4,635       | 4,683       | 4,730       | 4,748        |          |
| 2008     | 2,914       | 3,661       | 4,180       | 4,457           | 4,633            | 4,796          | 4,965       | 5,030       | 5,077       |              |          |
| 2009     | 2,977       | 3,932       | 4,524       | 4,820           | 5,124            | 5,334          | 5,423       | 5,502       |             |              |          |
| 2010     | 3,456       | 4,497       | 5,011       | 5,528           | 5,733            | 5,880          | 5,990       |             |             |              |          |
| 2011     | 3,366       | 4,430       | 5,295       | 5,653           | 5,944            | 6,160          |             |             |             |              |          |
| 2012     | 3,557       | 5,140       | 5,822       | 6,416           | 6,821            |                |             |             |             |              |          |
| 2013     | 4,747       | 6,333       | 7,286       | 7,757           |                  |                |             |             |             |              |          |
| 2014     | 5,540       | 7,554       | 8,387       |                 |                  |                |             |             |             |              |          |
| 2015     | 6,111       | 8,118       |             |                 |                  |                |             |             |             |              |          |
| 2016     | 6,184       |             |             |                 |                  |                |             |             |             |              |          |
|          |             |             |             |                 |                  |                |             |             |             |              | 1st Half |
|          |             |             |             | 1ct Holf Dortin | I PY.RL Develop  | mont Easters   |             |             |             |              | Share of |
|          | (AY-1).1    | (AY-1).2    | (AY-1).3    | (AY-1).4        | (AY-1).5         | (AY-1).6       | (AY-1).7    | (AY-1).8    | (AY-1).9    | Final        | Ttl Ind  |
| AY       | to (AY-1).1 | to (AY-1).3 | to (AY-1).4 | to (AY-1).4     | to (AY-1).6      | to (AY-1).7    | to (AY-1).8 | to (AY-1).9 | to (AY-1).9 | Tenths       | Fifths   |
| <br>2004 | 1.065       | 1.024       | 1.017       | 1.021           | 1.043            | 1.021          | 1.003       | 1.001       | 1.005       | 6,532        | 9.8%     |
| 2004     | 1.151       | 1.083       | 1.069       | 1.077           | 1.027            | 1.015          | 1.015       | 1.001       | 1.007       | 4,880        | 8.3%     |
| 2006     | 1.194       | 1.099       | 1.078       | 1.028           | 1.028            | 1.007          | 1.018       | 1.015       | 1.008       | 4,685        | 8.3%     |
| 2007     | 1.200       | 1.108       | 1.059       | 1.032           | 1.025            | 1.025          | 1.010       | 1.010       | 1.004       | 4,748        | 8.6%     |
| 2008     | 1.257       | 1.142       | 1.066       | 1.039           | 1.035            | 1.035          | 1.013       | 1.009       | 1.004       | 5,096        | 9.4%     |
| 2009     | 1.321       | 1.151       | 1.065       | 1.063           | 1.041            | 1.017          | 1.015       | 1.009       | 1.004       | 5,575        | 11.1%    |
| 2010     | 1.301       | 1.114       | 1.103       | 1.037           | 1.026            | 1.019          | 1.015       | 1.009       | 1.004       | 6,157        | 11.9%    |
| 2011     | 1.316       | 1.195       | 1.068       | 1.051           | 1.036            | 1.019          | 1.015       | 1.009       | 1.004       | 6,451        | 12.1%    |
| 2012     | 1.445       | 1.133       | 1.102       | 1.063           | 1.036            | 1.019          | 1.015       | 1.009       | 1.004       | 7,402        | 12.9%    |
| 2013     | 1.334       | 1.151       | 1.065       | 1.063           | 1.036            | 1.019          | 1.015       | 1.009       | 1.004       | 8,949        | 14.9%    |
| 2014     | 1.363       | 1.110       | 1.065       | 1.063           | 1.036            | 1.019          | 1.015       | 1.009       | 1.004       | 10,302       | 16.7%    |
| 2015     | 1.328       | 1.110       | 1.065       | 1.063           | 1.036            | 1.019          | 1.015       | 1.009       | 1.004       | 11,072       | 17.5%    |
| 2016     | 1.328       | 1.110       | 1.065       | 1.063           | 1.036            | 1.019          | 1.015       | 1.009       | 1.004       | 11,204       | 17.9%    |
|          |             |             |             |                 |                  |                |             |             |             | ,            |          |
|          |             |             |             |                 |                  |                |             |             |             |              |          |
|          |             |             |             |                 | Share of Total I | ndemnity Count |             |             |             |              |          |
|          |             |             |             |                 | 1st Half Partial | PY.RL Sources  |             |             |             |              |          |
| <br>AY   | (AY-1).1    | (AY-1).2    | (AY-1).3    | (AY-1).4        | (AY-1).5         | to (AY-1).6    | to (AY-1).7 | to (AY-1).8 | to (AY-1).9 | to (AY-1).10 |          |
| 2004     | 8.4%        | 8.7%        | 8.9%        | 9.0%            | 9.2%             | 9.4%           | 9.8%        | 9.8%        | 9.8%        | 9.8%         |          |
| 2005     | 5.7%        | 6.4%        | 6.8%        | 7.3%            | 7.7%             | 8.0%           | 8.1%        | 8.3%        | 8.3%        | 8.3%         |          |
| 2006     | 5.5%        | 6.4%        | 7.0%        | 7.5%            | 7.8%             | 8.0%           | 8.0%        | 8.2%        | 8.3%        | 8.3%         |          |
| 2007     | 5.9%        | 6.8%        | 7.4%        | 7.8%            | 8.1%             | 8.3%           | 8.4%        | 8.5%        | 8.6%        | 8.6%         |          |
| 2008     | 5.9%        | 7.0%        | 7.9%        | 8.4%            | 8.6%             | 8.9%           | 9.2%        | 9.3%        | 9.4%        |              |          |
| 2009     | 6.7%        | 8.2%        | 9.3%        | 9.8%            | 10.3%            | 10.7%          | 10.9%       | 11.0%       |             |              |          |
| 2010     | 7.5%        | 9.1%        | 9.9%        | 10.8%           | 11.1%            | 11.4%          | 11.6%       |             |             |              |          |
| 2011     | 7.2%        | 8.7%        | 10.2%       | 10.7%           | 11.2%            | 11.6%          |             |             |             |              |          |
| 2012     | 7.1%        | 9.4%        | 10.4%       | 11.3%           | 12.0%            |                |             |             |             |              |          |
| 2013     | 8.9%        | 11.0%       | 12.4%       | 13.1%           |                  |                |             |             |             |              |          |
| 2014     | 10.0%       | 12.7%       | 13.8%       |                 |                  |                |             |             |             |              |          |
| 2015     | 10.8%       | 13.3%       |             |                 |                  |                |             |             |             |              |          |
| 2016     | 11.1%       |             |             |                 |                  |                |             |             |             |              |          |
|          |             |             |             |                 |                  |                |             |             |             |              |          |

Source: WCIRB unit statistical data

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

|   |  |   |   | Ratio of  | Perman  | ent Disa   | bility Cla   | aims to Ir  | ndemnity  | Claims f   | or Accid   | lent Year  |  |   |   |
|---|--|---|---|---|---|--|--|---|---|--|--|--|--|---|---|
| Region  | 2002   | 2003  | 2004  | 2005  | 2006  | 2007   | 2008   | 2009  | 2010  | 2011   | 2012   | 2013   | 2014   | 2015  | 2016  |
| Bay Area  | 0.396  | 0.374   | 0.355   | 0.305   | 0.300   | 0.280  | 0.292  | 0.302   | 0.311   | 0.322  | 0.307  | 0.291  | 0.300  | 0.309   | 0.303   |
| Los Angeles/LA Basin  | 0.484  | 0.478   | 0.453   | 0.392   | 0.377   | 0.385  | 0.401  | 0.401   | 0.395   | 0.401  | 0.396  | 0.367  | 0.373  | 0.391   | 0.387   |
| San Diego   | 0.468  | 0.453   | 0.407   | 0.336   | 0.325   | 0.327  | 0.332  | 0.358   | 0.355   | 0.355  | 0.360  | 0.326  | 0.346  | 0.359   | 0.362   |
| All Other   | 0.426  | 0.403   | 0.367   | 0.315   | 0.308   | 0.293  | 0.313  | 0.308   | 0.322   | 0.317  | 0.312  | 0.287  | 0.300  | 0.312   | 0.291   |
| All Regions   | 0.449  | 0.436   | 0.407   | 0.349   | 0.339   | 0.335  | 0.352  | 0.355   | 0.358   | 0.361  | 0.356  | 0.330  | 0.339  | 0.353   | 0.344   |
|   | •  |   |   |   |   |  |  |   |   |  |  |  |  |   |   |
|   |  |   |   |   |   |  | An   | nual Cha  | ınge  |  |  |  |  |   |   |
| Region  | 2002   | 2003  | 2004  | 2005  | 2006  | 2007   | 2008   | 2009  | 2010  | 2011   | 2012   | 2013   | 2014   | 2015  | 2016  |
| Bay Area  |  | -5.5%   | -5.2%   | -14.1%  | -1.7%   | -6.4%  | 4.1%   | 3.5%  | 3.0%  | 3.4%   | -4.6%  | -5.2%  | 3.1%   | 2.9%  | -1.9%   |
| Los Angeles/LA Basin  |  | -1.2%   | -5.3%   | -13.4%  | -3.9%   | 2.2%   | 4.0%   | 0.2%  | -1.5%   | 1.6%   | -1.2%  | -7.4%  | 1.6%   | 4.8%  | -0.9%   |
| San Diego   |  | -3.3%   | -10.0%  | -17.5%  | -3.1%   | 0.4%   | 1.7%   | 7.7%  | -0.9%   | 0.0%   | 1.4%   | -9.3%  | 6.0%   | 3.7%  | 0.9%  |
| All Other   |  | -5.2%   | -9.1%   | -14.1%  | -2.2%   | -4.9%  | 6.8%   | -1.7%   | 4.8%  | -1.7%  | -1.5%  | -8.1%  | 4.5%   | 4.0%  | -6.6%   |
| All Regions   |  | -2.9%   | -6.7%   | -14.1%  | -3.0%   | -1.1%  | 4.9%   | 1.0%  | 0.8%  | 0.8%   | -1.4%  | -7.4%  | 2.9%   | 4.1%  | -2.6%   |
|   |  |   |   |   |   |  |  |   |   |  |  |  |  |   |   |
|   |  |   |   |   |   |  |  |   |   |  |  |  |  |   |   |
|   |  |   |   |   |   |  | •  |   |   | for Accid  |  |  |  |   |   |
| Region  | 2002   | 2003  | 2004  | 2005  | 2006  | 2007   | 2008   | 2009  | 2010  | 2011   | 2012   | 2013   | 2014   | 2015  | 2016  |
| Bay Area  | 0.340  | 0.344   | 0.306   | 0.281   | 0.284   | 0.288  | 0.292  | 0.304   | 0.314   | 0.322  | 0.322  | 0.331  | 0.328  | 0.333   | 0.330   |
| Los Angeles/LA Basin  | 0.359  | 0.363   | 0.331   | 0.300   | 0.295   | 0.302  | 0.312  | 0.337   | 0.352   | 0.358  | 0.372  | 0.389  | 0.393  | 0.392   | 0.394   |
| San Diego   | 0.309  | 0.309   | 0.278   | 0.260   | 0.258   | 0.258  | 0.269  | 0.281   | 0.303   | 0.313  | 0.327  | 0.329  | 0.329  | 0.328   | 0.333   |
| All Other   | 0.350  | 0.350   | 0.321   | 0.294   | 0.286   | 0.291  | 0.295  | 0.307   | 0.320   | 0.327  | 0.330  | 0.343  | 0.339  | 0.331   | 0.334   |
| All Regions   | 0.348  | 0.351   | 0.319   | 0.291   | 0.287   | 0.292  | 0.300  | 0.318   | 0.332   | 0.339  | 0.348  | 0.361  | 0.361  | 0.359   | 0.360   |
|   |  |   |   |   |   |  |  |   |   |  |  |  |  |   |   |
|   | 1  |   |   |   |   |  |  |   |   |  |  |  |  |   |   |
| Dente   | 0000   | 0000  | 0004  | 0005  | 0000  | 0007   |  | nual Cha  | •   | 0044   | 0040   | 0040   | 0044   | 0045  | 0040  |
| Region  | 2002   | 2003  | 2004  | 2005  | 2006  | 2007   | 2008   | 2009  | 2010  | 2011   | 2012   | 2013   | 2014   | 2015  | 2016  |
| Bay Area  |  | 1.0%  | -10.9%  | -8.2%   | 1.1%  | 1.2%   | 2008<br>1.4%   | 2009<br>4.0%  | 2010<br>3.6%  | 2.5%   | 0.0%   | 2.8%   | -0.8%  | 1.3%  | -0.8%   |
| Bay Area<br>Los Angeles/LA Basin  |  | 1.0%<br>1.1%  | -10.9%<br>-8.7%   | -8.2%<br>-9.5%  | 1.1%<br>-1.8%   | 1.2%<br>2.6%   | 2008<br>1.4%<br>3.1%   | 2009<br>4.0%<br>8.2%  | 2010<br>3.6%<br>4.3%  | 2.5%<br>1.7%   | 0.0%<br>4.0%   | 2.8%<br>4.7%   | -0.8%<br>0.9%  | 1.3%<br>-0.2%   | -0.8%<br>0.6%   |
| Bay Area<br>Los Angeles/LA Basin<br>San Diego   |  | 1.0%<br>1.1%<br>-0.2%   | -10.9%<br>-8.7%<br>-9.8%  | -8.2%<br>-9.5%<br>-6.7%   | 1.1%<br>-1.8%<br>-0.8%  | 1.2%<br>2.6%<br>0.0%   | 2008<br>1.4%<br>3.1%<br>4.4%   | 2009<br>4.0%<br>8.2%<br>4.5%  | 2010<br>3.6%<br>4.3%<br>7.6%  | 2.5%<br>1.7%<br>3.3%   | 0.0%<br>4.0%<br>4.6%   | 2.8%<br>4.7%<br>0.5%   | -0.8%<br>0.9%<br>0.0%  | 1.3%<br>-0.2%<br>-0.4%  | -0.8%<br>0.6%<br>1.7%   |
| Bay Area<br>Los Angeles/LA Basin<br>San Diego<br>All Other  |  | 1.0%<br>1.1%<br>-0.2%<br>-0.1%  | -10.9%<br>-8.7%<br>-9.8%<br>-8.3%   | -8.2%<br>-9.5%<br>-6.7%<br>-8.3%  | 1.1%<br>-1.8%<br>-0.8%<br>-2.6%   | 1.2%<br>2.6%<br>0.0%<br>1.5%   | 2008<br>1.4%<br>3.1%<br>4.4%<br>1.5%   | 2009<br>4.0%<br>8.2%<br>4.5%<br>3.9%  | 2010<br>3.6%<br>4.3%<br>7.6%<br>4.3%  | 2.5%<br>1.7%<br>3.3%<br>2.4%   | 0.0%<br>4.0%<br>4.6%<br>0.8%   | 2.8%<br>4.7%<br>0.5%<br>3.9%   | -0.8%<br>0.9%<br>0.0%<br>-1.3%   | 1.3%<br>-0.2%<br>-0.4%<br>-2.1%   | -0.8%<br>0.6%<br>1.7%<br>0.8%   |
| Bay Area<br>Los Angeles/LA Basin<br>San Diego   |  | 1.0%<br>1.1%<br>-0.2%   | -10.9%<br>-8.7%<br>-9.8%  | -8.2%<br>-9.5%<br>-6.7%   | 1.1%<br>-1.8%<br>-0.8%  | 1.2%<br>2.6%<br>0.0%   | 2008<br>1.4%<br>3.1%<br>4.4%   | 2009<br>4.0%<br>8.2%<br>4.5%  | 2010<br>3.6%<br>4.3%<br>7.6%  | 2.5%<br>1.7%<br>3.3%   | 0.0%<br>4.0%<br>4.6%   | 2.8%<br>4.7%<br>0.5%   | -0.8%<br>0.9%<br>0.0%  | 1.3%<br>-0.2%<br>-0.4%  | -0.8%<br>0.6%<br>1.7%   |
| Bay Area<br>Los Angeles/LA Basin<br>San Diego<br>All Other  |  | 1.0%<br>1.1%<br>-0.2%<br>-0.1%  | -10.9%<br>-8.7%<br>-9.8%<br>-8.3%   | -8.2%<br>-9.5%<br>-6.7%<br>-8.3%  | 1.1%<br>-1.8%<br>-0.8%<br>-2.6%   | 1.2%<br>2.6%<br>0.0%<br>1.5%   | 2008<br>1.4%<br>3.1%<br>4.4%<br>1.5%   | 2009<br>4.0%<br>8.2%<br>4.5%<br>3.9%  | 2010<br>3.6%<br>4.3%<br>7.6%<br>4.3%  | 2.5%<br>1.7%<br>3.3%<br>2.4%   | 0.0%<br>4.0%<br>4.6%<br>0.8%   | 2.8%<br>4.7%<br>0.5%<br>3.9%   | -0.8%<br>0.9%<br>0.0%<br>-1.3%   | 1.3%<br>-0.2%<br>-0.4%<br>-2.1%   | -0.8%<br>0.6%<br>1.7%<br>0.8%   |
| Bay Area<br>Los Angeles/LA Basin<br>San Diego<br>All Other  |  | 1.0%<br>1.1%<br>-0.2%<br>-0.1%  | -10.9%<br>-8.7%<br>-9.8%<br>-8.3%   | -8.2%<br>-9.5%<br>-6.7%<br>-8.3%<br>-8.7%   | 1.1%<br>-1.8%<br>-0.8%<br>-2.6%<br>-1.4%  | 1.2%<br>2.6%<br>0.0%<br>1.5%<br>1.8%   | 2008<br>1.4%<br>3.1%<br>4.4%<br>1.5%<br>2.5%   | 2009<br>4.0%<br>8.2%<br>4.5%<br>3.9%<br>6.1%  | 2010<br>3.6%<br>4.3%<br>7.6%<br>4.3%<br>4.5%  | 2.5%<br>1.7%<br>3.3%<br>2.4%<br>2.1%   | 0.0%<br>4.0%<br>4.6%<br>0.8%<br>2.5%   | 2.8%<br>4.7%<br>0.5%<br>3.9%<br>3.8%   | -0.8%<br>0.9%<br>0.0%<br>-1.3%   | 1.3%<br>-0.2%<br>-0.4%<br>-2.1%   | -0.8%<br>0.6%<br>1.7%<br>0.8%   |
| Bay Area<br>Los Angeles/LA Basin<br>San Diego<br>All Other<br>All Regions   | <br><br><br>                                 | 1.0%<br>1.1%<br>-0.2%<br>-0.1%<br>0.7%  | -10.9%<br>-8.7%<br>-9.8%<br>-8.3%<br>-9.1%  | -8.2%<br>-9.5%<br>-6.7%<br>-8.3%<br>-8.7%   | 1.1%<br>-1.8%<br>-0.8%<br>-2.6%<br>-1.4%  | 1.2%<br>2.6%<br>0.0%<br>1.5%<br>1.8%   | 2008<br>1.4%<br>3.1%<br>4.4%<br>1.5%<br>2.5%   | 2009<br>4.0%<br>8.2%<br>4.5%<br>3.9%<br>6.1%  | 2010<br>3.6%<br>4.3%<br>7.6%<br>4.3%<br>4.5%  | 2.5%<br>1.7%<br>3.3%<br>2.4%<br>2.1%   | 0.0%<br>4.0%<br>4.6%<br>0.8%<br>2.5%   | 2.8%<br>4.7%<br>0.5%<br>3.9%<br>3.8%   | -0.8%<br>0.9%<br>0.0%<br>-1.3%<br>0.0%   | 1.3%<br>-0.2%<br>-0.4%<br>-2.1%<br>-0.6%  | -0.8%<br>0.6%<br>1.7%<br>0.8%<br>0.3%   |
| Bay Area<br>Los Angeles/LA Basin<br>San Diego<br>All Other<br>All Regions   | <br><br><br><br>2002                         | 1.0%<br>1.1%<br>-0.2%<br>-0.1%<br>0.7%  | -10.9%<br>-8.7%<br>-9.8%<br>-8.3%<br>-9.1%  | -8.2%<br>-9.5%<br>-6.7%<br>-8.3%<br>-8.7%<br>Cum<br>2005  | 1.1%<br>-1.8%<br>-0.8%<br>-2.6%<br>-1.4%<br>ulative Ir<br>2006  | 1.2%<br>2.6%<br>0.0%<br>1.5%<br>1.8%<br>njury Cla  | 2008<br>1.4%<br>3.1%<br>4.4%<br>1.5%<br>2.5%<br>ims per<br>2008  | 2009<br>4.0%<br>8.2%<br>4.5%<br>3.9%<br>6.1%<br>100 Inde<br>2009  | 2010<br>3.6%<br>4.3%<br>7.6%<br>4.3%<br>4.5%  | 2.5%<br>1.7%<br>3.3%<br>2.4%<br>2.1%<br>aims for 2011  | 0.0%<br>4.0%<br>4.6%<br>0.8%<br>2.5%<br>Acciden<br>2012  | 2.8%<br>4.7%<br>0.5%<br>3.9%<br>3.8%<br>t Year<br>2013   | -0.8%<br>0.9%<br>0.0%<br>-1.3%<br>0.0%   | 1.3%<br>-0.2%<br>-0.4%<br>-2.1%<br>-0.6%  | -0.8%<br>0.6%<br>1.7%<br>0.8%<br>0.3%   |
| Bay Area Los Angeles/LA Basin San Diego All Other All Regions  Region Bay Area  | <br><br><br><br>2002<br>8.33                 | 1.0%<br>1.1%<br>-0.2%<br>-0.1%<br>0.7%<br>2003<br>7.78  | -10.9%<br>-8.7%<br>-9.8%<br>-8.3%<br>-9.1%<br>2004<br>7.15  | -8.2%<br>-9.5%<br>-6.7%<br>-8.3%<br>-8.7%<br>Cum<br>2005<br>5.89  | 1.1%<br>-1.8%<br>-0.8%<br>-2.6%<br>-1.4%<br>ulative Ir<br>2006<br>5.28  | 1.2%<br>2.6%<br>0.0%<br>1.5%<br>1.8%<br>njury Cla<br>2007<br>6.18  | 2008<br>1.4%<br>3.1%<br>4.4%<br>1.5%<br>2.5%<br>ims per<br>2008<br>6.13  | 2009<br>4.0%<br>8.2%<br>4.5%<br>3.9%<br>6.1%<br>100 Inde<br>2009<br>6.32  | 2010<br>3.6%<br>4.3%<br>7.6%<br>4.3%<br>4.5%<br>emnity CI<br>2010<br>6.41   | 2.5%<br>1.7%<br>3.3%<br>2.4%<br>2.1%<br>aims for<br>2011<br>6.03   | 0.0%<br>4.0%<br>4.6%<br>0.8%<br>2.5%<br>Acciden<br>2012<br>5.87  | 2.8%<br>4.7%<br>0.5%<br>3.9%<br>3.8%<br>t Year<br>2013<br>7.57   | -0.8%<br>0.9%<br>0.0%<br>-1.3%<br>0.0%<br>2014<br>7.39   | 1.3%<br>-0.2%<br>-0.4%<br>-2.1%<br>-0.6%<br>2015<br>7.20  | -0.8%<br>0.6%<br>1.7%<br>0.8%<br>0.3%<br>2016<br>7.10   |
| Bay Area Los Angeles/LA Basin San Diego All Other All Regions  Region Bay Area Los Angeles/LA Basin   | <br><br><br><br>2002<br>8.33<br>8.51         | 1.0%<br>1.1%<br>-0.2%<br>-0.1%<br>0.7%<br>2003<br>7.78<br>9.19  | -10.9%<br>-8.7%<br>-9.8%<br>-8.3%<br>-9.1%<br>2004<br>7.15<br>9.05  | -8.2%<br>-9.5%<br>-6.7%<br>-8.3%<br>-8.7%<br>Cum<br>2005<br>5.89<br>6.78  | 1.1%<br>-1.8%<br>-0.8%<br>-2.6%<br>-1.4%<br>ulative Ir<br>2006<br>5.28<br>6.48  | 1.2%<br>2.6%<br>0.0%<br>1.5%<br>1.8%<br>njury Cla<br>2007<br>6.18<br>6.95  | 2008<br>1.4%<br>3.1%<br>4.4%<br>1.5%<br>2.5%<br>ims per<br>2008<br>6.13<br>7.06  | 2009<br>4.0%<br>8.2%<br>4.5%<br>3.9%<br>6.1%<br>100 Inde<br>2009<br>6.32<br>8.53  | 2010<br>3.6%<br>4.3%<br>7.6%<br>4.3%<br>4.5%<br>emnity CI<br>2010<br>6.41<br>9.35   | 2.5%<br>1.7%<br>3.3%<br>2.4%<br>2.1%<br>aims for<br>2011<br>6.03<br>8.72   | 0.0%<br>4.0%<br>4.6%<br>0.8%<br>2.5%<br>Acciden<br>2012<br>5.87<br>9.51  | 2.8%<br>4.7%<br>0.5%<br>3.9%<br>3.8%<br>t Year<br>2013<br>7.57<br>11.69  | -0.8%<br>0.9%<br>0.0%<br>-1.3%<br>0.0%<br>2014<br>7.39<br>12.68  | 1.3%<br>-0.2%<br>-0.4%<br>-2.1%<br>-0.6%<br>2015<br>7.20<br>14.70   | -0.8%<br>0.6%<br>1.7%<br>0.8%<br>0.3%<br>2016<br>7.10<br>15.54  |
| Bay Area Los Angeles/LA Basin San Diego All Other All Regions  Region Bay Area Los Angeles/LA Basin San Diego   | 2002<br>8.33<br>8.51<br>7.49                 | 1.0%<br>1.1%<br>-0.2%<br>-0.1%<br>0.7%<br>2003<br>7.78<br>9.19<br>7.95  | -10.9%<br>-8.7%<br>-9.8%<br>-8.3%<br>-9.1%<br>2004<br>7.15<br>9.05<br>7.88                                      | -8.2%<br>-9.5%<br>-6.7%<br>-8.3%<br>-8.7%<br>Cum<br>2005<br>5.89<br>6.78<br>5.85  | 1.1%<br>-1.8%<br>-0.8%<br>-2.6%<br>-1.4%<br>ulative Ir<br>2006<br>5.28<br>6.48<br>5.19  | 1.2%<br>2.6%<br>0.0%<br>1.5%<br>1.8%<br>njury Cla<br>2007<br>6.18<br>6.95<br>5.72  | 2008<br>1.4%<br>3.1%<br>4.4%<br>1.5%<br>2.5%<br>ims per<br>2008<br>6.13<br>7.06<br>5.85  | 2009<br>4.0%<br>8.2%<br>4.5%<br>3.9%<br>6.1%<br>100 Inde<br>2009<br>6.32<br>8.53<br>6.10  | 2010<br>3.6%<br>4.3%<br>7.6%<br>4.3%<br>4.5%<br>4.5%<br>4.5%<br>4.5%  | 2.5%<br>1.7%<br>3.3%<br>2.4%<br>2.1%<br>aims for 2011<br>6.03<br>8.72<br>6.65  | 0.0%<br>4.0%<br>4.6%<br>0.8%<br>2.5%<br>Acciden<br>2012<br>5.87<br>9.51<br>6.91  | 2.8%<br>4.7%<br>0.5%<br>3.9%<br>3.8%<br>t Year<br>2013<br>7.57<br>11.69<br>8.88  | -0.8%<br>0.9%<br>0.0%<br>-1.3%<br>0.0%<br>2014<br>7.39<br>12.68<br>10.18   | 1.3%<br>-0.2%<br>-0.4%<br>-2.1%<br>-0.6%<br>2015<br>7.20<br>14.70<br>10.92  | -0.8%<br>0.6%<br>1.7%<br>0.8%<br>0.3%<br>2016<br>7.10<br>15.54<br>11.16   |
| Bay Area Los Angeles/LA Basin San Diego All Other All Regions  Region Bay Area Los Angeles/LA Basin San Diego All Other   | 2002<br>8.33<br>8.51<br>7.49<br>5.58         | 1.0%<br>1.1%<br>-0.2%<br>-0.1%<br>0.7%<br>2003<br>7.78<br>9.19<br>7.95<br>5.71  | -10.9%<br>-8.7%<br>-9.8%<br>-8.3%<br>-9.1%<br>2004<br>7.15<br>9.05<br>7.88<br>5.49                              | -8.2%<br>-9.5%<br>-6.7%<br>-8.3%<br>-8.7%<br>Cum<br>2005<br>5.89<br>6.78<br>5.85<br>3.85  | 1.1%<br>-1.8%<br>-0.8%<br>-2.6%<br>-1.4%<br>ulative Ir<br>2006<br>5.28<br>6.48<br>5.19<br>4.16  | 1.2%<br>2.6%<br>0.0%<br>1.5%<br>1.8%<br>hjury Cla<br>2007<br>6.18<br>6.95<br>5.72<br>4.04  | 2008<br>1.4%<br>3.1%<br>4.4%<br>1.5%<br>2.5%<br>ims per<br>2008<br>6.13<br>7.06<br>5.85<br>4.03  | 2009<br>4.0%<br>8.2%<br>4.5%<br>3.9%<br>6.1%<br>100 Inde<br>2009<br>6.32<br>8.53<br>6.10<br>4.68  | 2010<br>3.6%<br>4.3%<br>7.6%<br>4.3%<br>4.5%<br>4.5%<br>4.5%<br>4.5%  | 2.5%<br>1.7%<br>3.3%<br>2.4%<br>2.1%<br>aims for<br>2011<br>6.03<br>8.72<br>6.65<br>4.71   | 0.0%<br>4.0%<br>4.6%<br>0.8%<br>2.5%<br>Acciden<br>2012<br>5.87<br>9.51<br>6.91<br>4.70  | 2.8%<br>4.7%<br>0.5%<br>3.9%<br>3.8%<br>t Year<br>2013<br>7.57<br>11.69<br>8.88<br>5.47  | -0.8%<br>0.9%<br>0.0%<br>-1.3%<br>0.0%<br>2014<br>7.39<br>12.68<br>10.18<br>5.90   | 1.3%<br>-0.2%<br>-0.4%<br>-2.1%<br>-0.6%<br>2015<br>7.20<br>14.70<br>10.92<br>5.98  | -0.8%<br>0.6%<br>1.7%<br>0.8%<br>0.3%<br>2016<br>7.10<br>15.54<br>11.16<br>5.73   |
| Bay Area Los Angeles/LA Basin San Diego All Other All Regions  Region Bay Area Los Angeles/LA Basin San Diego   | 2002<br>8.33<br>8.51<br>7.49                 | 1.0%<br>1.1%<br>-0.2%<br>-0.1%<br>0.7%<br>2003<br>7.78<br>9.19<br>7.95  | -10.9%<br>-8.7%<br>-9.8%<br>-8.3%<br>-9.1%<br>2004<br>7.15<br>9.05<br>7.88                                      | -8.2%<br>-9.5%<br>-6.7%<br>-8.3%<br>-8.7%<br>Cum<br>2005<br>5.89<br>6.78<br>5.85  | 1.1%<br>-1.8%<br>-0.8%<br>-2.6%<br>-1.4%<br>ulative Ir<br>2006<br>5.28<br>6.48<br>5.19  | 1.2%<br>2.6%<br>0.0%<br>1.5%<br>1.8%<br>njury Cla<br>2007<br>6.18<br>6.95<br>5.72  | 2008<br>1.4%<br>3.1%<br>4.4%<br>1.5%<br>2.5%<br>ims per<br>2008<br>6.13<br>7.06<br>5.85  | 2009<br>4.0%<br>8.2%<br>4.5%<br>3.9%<br>6.1%<br>100 Inde<br>2009<br>6.32<br>8.53<br>6.10  | 2010<br>3.6%<br>4.3%<br>7.6%<br>4.3%<br>4.5%<br>4.5%<br>4.5%<br>4.5%  | 2.5%<br>1.7%<br>3.3%<br>2.4%<br>2.1%<br>aims for 2011<br>6.03<br>8.72<br>6.65  | 0.0%<br>4.0%<br>4.6%<br>0.8%<br>2.5%<br>Acciden<br>2012<br>5.87<br>9.51<br>6.91  | 2.8%<br>4.7%<br>0.5%<br>3.9%<br>3.8%<br>t Year<br>2013<br>7.57<br>11.69<br>8.88  | -0.8%<br>0.9%<br>0.0%<br>-1.3%<br>0.0%<br>2014<br>7.39<br>12.68<br>10.18   | 1.3%<br>-0.2%<br>-0.4%<br>-2.1%<br>-0.6%<br>2015<br>7.20<br>14.70<br>10.92  | -0.8%<br>0.6%<br>1.7%<br>0.8%<br>0.3%<br>2016<br>7.10<br>15.54<br>11.16   |
| Bay Area Los Angeles/LA Basin San Diego All Other All Regions  Region Bay Area Los Angeles/LA Basin San Diego All Other   | 2002<br>8.33<br>8.51<br>7.49<br>5.58         | 1.0%<br>1.1%<br>-0.2%<br>-0.1%<br>0.7%<br>2003<br>7.78<br>9.19<br>7.95<br>5.71  | -10.9%<br>-8.7%<br>-9.8%<br>-8.3%<br>-9.1%<br>2004<br>7.15<br>9.05<br>7.88<br>5.49                              | -8.2%<br>-9.5%<br>-6.7%<br>-8.3%<br>-8.7%<br>Cum<br>2005<br>5.89<br>6.78<br>5.85<br>3.85  | 1.1%<br>-1.8%<br>-0.8%<br>-2.6%<br>-1.4%<br>ulative Ir<br>2006<br>5.28<br>6.48<br>5.19<br>4.16  | 1.2%<br>2.6%<br>0.0%<br>1.5%<br>1.8%<br>hjury Cla<br>2007<br>6.18<br>6.95<br>5.72<br>4.04  | 2008<br>1.4%<br>3.1%<br>4.4%<br>1.5%<br>2.5%<br>ims per<br>2008<br>6.13<br>7.06<br>5.85<br>4.03<br>5.96  | 2009<br>4.0%<br>8.2%<br>4.5%<br>3.9%<br>6.1%<br>100 Inde<br>2009<br>6.32<br>8.53<br>6.10<br>4.68<br>6.92  | 2010<br>3.6%<br>4.3%<br>7.6%<br>4.3%<br>4.5%<br>4.5%<br>4.5%<br>4.5%<br>5.35<br>7.39<br>5.35<br>7.63  | 2.5%<br>1.7%<br>3.3%<br>2.4%<br>2.1%<br>aims for<br>2011<br>6.03<br>8.72<br>6.65<br>4.71   | 0.0%<br>4.0%<br>4.6%<br>0.8%<br>2.5%<br>Acciden<br>2012<br>5.87<br>9.51<br>6.91<br>4.70  | 2.8%<br>4.7%<br>0.5%<br>3.9%<br>3.8%<br>t Year<br>2013<br>7.57<br>11.69<br>8.88<br>5.47  | -0.8%<br>0.9%<br>0.0%<br>-1.3%<br>0.0%<br>2014<br>7.39<br>12.68<br>10.18<br>5.90   | 1.3%<br>-0.2%<br>-0.4%<br>-2.1%<br>-0.6%<br>2015<br>7.20<br>14.70<br>10.92<br>5.98  | -0.8%<br>0.6%<br>1.7%<br>0.8%<br>0.3%<br>2016<br>7.10<br>15.54<br>11.16<br>5.73   |
| Bay Area Los Angeles/LA Basin San Diego All Other All Regions  Region Bay Area Los Angeles/LA Basin San Diego All Other All Regions   | 2002<br>8.33<br>8.51<br>7.49<br>5.58         | 1.0%<br>1.1%<br>-0.2%<br>-0.1%<br>0.7%<br>2003<br>7.78<br>9.19<br>7.95<br>5.71<br>7.82                                  | -10.9%<br>-8.7%<br>-9.8%<br>-8.3%<br>-9.1%<br>2004<br>7.15<br>9.05<br>7.88<br>5.49                              | -8.2%<br>-9.5%<br>-6.7%<br>-8.3%<br>-8.7%<br>Cum<br>2005<br>5.89<br>6.78<br>5.85<br>3.85  | 1.1%<br>-1.8%<br>-0.8%<br>-2.6%<br>-1.4%<br>ulative Ir<br>2006<br>5.28<br>6.48<br>5.19<br>4.16  | 1.2%<br>2.6%<br>0.0%<br>1.5%<br>1.8%<br>hjury Cla<br>2007<br>6.18<br>6.95<br>5.72<br>4.04  | 2008<br>1.4%<br>3.1%<br>4.4%<br>1.5%<br>2.5%<br>ims per<br>2008<br>6.13<br>7.06<br>5.85<br>4.03<br>5.96  | 2009<br>4.0%<br>8.2%<br>4.5%<br>3.9%<br>6.1%<br>100 Inde<br>2009<br>6.32<br>8.53<br>6.10<br>4.68<br>6.92<br>nual Cha                                  | 2010<br>3.6%<br>4.3%<br>7.6%<br>4.3%<br>4.5%<br>4.5%<br>4.5%<br>4.5%<br>5.35<br>7.39<br>5.35<br>7.63  | 2.5%<br>1.7%<br>3.3%<br>2.4%<br>2.1%<br>aims for<br>2011<br>6.03<br>8.72<br>6.65<br>4.71<br>7.02                                     | 0.0%<br>4.0%<br>4.6%<br>0.8%<br>2.5%<br>Acciden<br>2012<br>5.87<br>9.51<br>6.91<br>4.70<br>7.41                                  | 2.8%<br>4.7%<br>0.5%<br>3.9%<br>3.8%<br>t Year<br>2013<br>7.57<br>11.69<br>8.88<br>5.47<br>9.10                                    | -0.8%<br>0.9%<br>0.0%<br>-1.3%<br>0.0%<br>2014<br>7.39<br>12.68<br>10.18<br>5.90   | 1.3%<br>-0.2%<br>-0.4%<br>-2.1%<br>-0.6%<br>2015<br>7.20<br>14.70<br>10.92<br>5.98<br>10.81                                   | -0.8%<br>0.6%<br>1.7%<br>0.8%<br>0.3%<br>   |
| Bay Area Los Angeles/LA Basin San Diego All Other All Regions  Region Bay Area Los Angeles/LA Basin San Diego All Other All Regions  Region   | 2002<br>8.33<br>8.51<br>7.49<br>5.58<br>7.52 | 1.0%<br>1.1%<br>-0.2%<br>-0.1%<br>0.7%<br>2003<br>7.78<br>9.19<br>7.95<br>5.71  | -10.9%<br>-8.7%<br>-9.8%<br>-8.3%<br>-9.1%<br>-9.10<br>-9.10<br>-9.15<br>-9.05<br>-7.88<br>-9.15<br>-7.58       | -8.2%<br>-9.5%<br>-6.7%<br>-8.3%<br>-8.7%<br>Cum<br>2005<br>5.89<br>6.78<br>5.85<br>3.85<br>5.69  | 1.1%<br>-1.8%<br>-0.8%<br>-2.6%<br>-1.4%<br>ulative Ir<br>2006<br>5.28<br>6.48<br>5.19<br>4.16<br>5.49                                      | 1.2%<br>2.6%<br>0.0%<br>1.5%<br>1.8%<br>1.8%<br>2007<br>6.18<br>6.95<br>5.72<br>4.04<br>5.87   | 2008<br>1.4%<br>3.1%<br>4.4%<br>1.5%<br>2.5%<br>ims per<br>2008<br>6.13<br>7.06<br>5.85<br>4.03<br>5.96  | 2009<br>4.0%<br>8.2%<br>4.5%<br>3.9%<br>6.1%<br>100 Inde<br>2009<br>6.32<br>8.53<br>6.10<br>4.68<br>6.92  | 2010<br>3.6%<br>4.3%<br>7.6%<br>4.3%<br>4.5%<br>4.5%<br>emnity CI<br>2010<br>6.41<br>9.35<br>7.39<br>5.35<br>7.63<br>unge                                     | 2.5%<br>1.7%<br>3.3%<br>2.4%<br>2.1%<br>aims for<br>2011<br>6.03<br>8.72<br>6.65<br>4.71   | 0.0%<br>4.0%<br>4.6%<br>0.8%<br>2.5%<br>Acciden<br>2012<br>5.87<br>9.51<br>6.91<br>4.70  | 2.8%<br>4.7%<br>0.5%<br>3.9%<br>3.8%<br>t Year<br>2013<br>7.57<br>11.69<br>8.88<br>5.47  | -0.8%<br>0.9%<br>0.0%<br>-1.3%<br>0.0%<br>2014<br>7.39<br>12.68<br>10.18<br>5.90<br>9.80                                   | 1.3%<br>-0.2%<br>-0.4%<br>-2.1%<br>-0.6%<br>2015<br>7.20<br>14.70<br>10.92<br>5.98  | -0.8%<br>0.6%<br>1.7%<br>0.8%<br>0.3%<br>2016<br>7.10<br>15.54<br>11.16<br>5.73   |
| Bay Area Los Angeles/LA Basin San Diego All Other All Regions  Region Bay Area Los Angeles/LA Basin San Diego All Other All Regions  Region Ray Area Los Angeles/LA Basin San Diego All Other All Regions         | 2002<br>8.33<br>8.51<br>7.49<br>5.58<br>7.52 | 1.0%<br>1.1%<br>-0.2%<br>-0.1%<br>0.7%<br>2003<br>7.78<br>9.19<br>7.95<br>5.71<br>7.82<br>2003<br>-6.6%                 | -10.9%<br>-8.7%<br>-9.8%<br>-8.3%<br>-9.1%<br>2004<br>7.15<br>9.05<br>7.88<br>5.49<br>7.58<br>2004<br>-8.1%     | -8.2%<br>-9.5%<br>-6.7%<br>-8.3%<br>-8.7%<br>Cum<br>2005<br>5.89<br>6.78<br>5.85<br>3.85<br>5.69  | 1.1%<br>-1.8%<br>-0.8%<br>-2.6%<br>-1.4%<br>ulative Ir<br>2006<br>5.28<br>6.48<br>5.19<br>4.16<br>5.49                                      | 1.2%<br>2.6%<br>0.0%<br>1.5%<br>1.8%<br>1.8%<br>2007<br>6.18<br>6.95<br>5.72<br>4.04<br>5.87   | 2008<br>1.4%<br>3.1%<br>4.4%<br>1.5%<br>2.5%<br>ims per<br>2008<br>6.13<br>7.06<br>5.85<br>4.03<br>5.96<br>An<br>2008<br>-0.8%                 | 2009<br>4.0%<br>8.2%<br>4.5%<br>3.9%<br>6.1%<br>100 Inde<br>2009<br>6.32<br>8.53<br>6.10<br>4.68<br>6.92<br>nual Cha<br>2009<br>3.2%                  | 2010<br>3.6%<br>4.3%<br>7.6%<br>4.3%<br>4.5%<br>4.5%<br>4.5%<br>4.5%<br>6.41<br>9.35<br>7.39<br>5.35<br>7.63<br>1.63<br>1.63<br>1.5%                          | 2.5%<br>1.7%<br>3.3%<br>2.4%<br>2.1%<br>aims for<br>2011<br>6.03<br>8.72<br>6.65<br>4.71<br>7.02                                     | 0.0%<br>4.0%<br>4.6%<br>0.8%<br>2.5%<br>Acciden<br>2012<br>5.87<br>9.51<br>6.91<br>4.70<br>7.41<br>2012<br>-2.7%                 | 2.8%<br>4.7%<br>0.5%<br>3.9%<br>3.8%<br>t Year<br>2013<br>7.57<br>11.69<br>8.88<br>5.47<br>9.10<br>2013<br>28.9%                   | -0.8%<br>0.9%<br>0.0%<br>-1.3%<br>0.0%<br>2014<br>7.39<br>12.68<br>10.18<br>5.90<br>9.80<br>2014<br>-2.4%                  | 1.3%<br>-0.2%<br>-0.4%<br>-2.1%<br>-0.6%<br>2015<br>7.20<br>14.70<br>10.92<br>5.98<br>10.81<br>2015<br>-2.5%                  | -0.8%<br>0.6%<br>1.7%<br>0.8%<br>0.3%<br>2016<br>7.10<br>15.54<br>11.16<br>5.73<br>11.05                                  |
| Bay Area Los Angeles/LA Basin San Diego All Other All Regions  Region Bay Area Los Angeles/LA Basin San Diego All Other All Regions  Region   | 2002<br>8.33<br>8.51<br>7.49<br>5.58<br>7.52 | 1.0%<br>1.1%<br>-0.2%<br>-0.1%<br>0.7%<br>2003<br>7.78<br>9.19<br>7.95<br>5.71<br>7.82                                  | -10.9%<br>-8.7%<br>-9.8%<br>-8.3%<br>-9.1%<br>2004<br>7.15<br>9.05<br>7.88<br>5.49<br>7.58                      | -8.2%<br>-9.5%<br>-6.7%<br>-8.3%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-9.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7%<br>-8.7% | 1.1%<br>-1.8%<br>-0.8%<br>-2.6%<br>-1.4%<br>ulative Ir<br>2006<br>5.28<br>6.48<br>5.19<br>4.16<br>5.49<br>2006<br>-10.2%<br>-4.5%           | 1.2%<br>2.6%<br>0.0%<br>1.5%<br>1.8%<br>1.8%<br>2007<br>6.18<br>6.95<br>5.72<br>4.04<br>5.87<br>2007<br>16.9%                            | 2008<br>1.4%<br>3.1%<br>4.4%<br>1.5%<br>2.5%<br>ims per<br>2008<br>6.13<br>7.06<br>5.85<br>4.03<br>5.96<br>An<br>2008                          | 2009<br>4.0%<br>8.2%<br>4.5%<br>3.9%<br>6.1%<br>100 Inde<br>2009<br>6.32<br>8.53<br>6.10<br>4.68<br>6.92<br>nual Cha<br>2009                          | 2010<br>3.6%<br>4.3%<br>7.6%<br>4.3%<br>4.5%<br>4.5%<br>4.5%<br>4.5%<br>5.35<br>7.39<br>5.35<br>7.63<br>ange<br>2010  | 2.5%<br>1.7%<br>3.3%<br>2.4%<br>2.1%<br>aims for<br>2011<br>6.03<br>8.72<br>6.65<br>4.71<br>7.02                                     | 0.0%<br>4.0%<br>4.6%<br>0.8%<br>2.5%<br>Acciden<br>2012<br>5.87<br>9.51<br>4.70<br>7.41  | 2.8%<br>4.7%<br>0.5%<br>3.9%<br>3.8%<br>t Year<br>2013<br>7.57<br>11.69<br>8.88<br>5.47<br>9.10                                    | -0.8%<br>0.9%<br>0.0%<br>-1.3%<br>0.0%<br>2014<br>7.39<br>12.68<br>10.18<br>5.90<br>9.80                                   | 1.3%<br>-0.2%<br>-0.4%<br>-2.1%<br>-0.6%<br>2015<br>7.20<br>14.70<br>10.92<br>5.98<br>10.81                                   | -0.8%<br>0.6%<br>1.7%<br>0.8%<br>0.3%<br>2016<br>7.10<br>15.54<br>11.16<br>5.73<br>11.05                                  |
| Bay Area Los Angeles/LA Basin San Diego All Other All Regions  Region Bay Area Los Angeles/LA Basin San Diego All Other All Regions  Region  Region Bay Area Los Angeles/LA Basin San Diego All Other All Regions | 2002<br>8.33<br>8.51<br>7.49<br>5.58<br>7.52 | 1.0%<br>1.1%<br>-0.2%<br>-0.1%<br>0.7%<br>2003<br>7.78<br>9.19<br>7.95<br>5.71<br>7.82<br>2003<br>-6.6%<br>8.0%         | -10.9%<br>-8.7%<br>-9.8%<br>-8.3%<br>-9.1%<br>-9.15<br>9.05<br>7.88<br>5.49<br>7.58<br>-9.104<br>-8.1%<br>-1.5% | -8.2%<br>-9.5%<br>-6.7%<br>-8.3%<br>-8.7%<br>-8.7%<br>-8.7%<br>-7.8<br>5.89<br>6.78<br>5.85<br>3.85<br>5.69<br>-2005<br>-17.6%<br>-25.1%  | 1.1%<br>-1.8%<br>-0.8%<br>-2.6%<br>-1.4%<br>ulative Ir<br>2006<br>5.28<br>6.48<br>5.19<br>4.16<br>5.49<br>2006<br>-10.2%<br>-4.5%           | 1.2%<br>2.6%<br>0.0%<br>1.5%<br>1.8%<br>1.8%<br>1.8%<br>1.907<br>6.18<br>6.95<br>5.72<br>4.04<br>5.87<br>2007<br>16.9%<br>7.2%           | 2008<br>1.4%<br>3.1%<br>4.4%<br>1.5%<br>2.5%<br>ims per<br>2008<br>6.13<br>7.06<br>5.85<br>4.03<br>5.96<br>An<br>2008<br>-0.8%<br>1.7%         | 2009<br>4.0%<br>8.2%<br>4.5%<br>3.9%<br>6.1%<br>100 Inde<br>2009<br>6.32<br>8.53<br>6.10<br>4.68<br>6.92<br>nual Cha<br>2009<br>3.2%<br>20.7%<br>4.3% | 2010<br>3.6%<br>4.3%<br>7.6%<br>4.3%<br>4.5%<br>4.5%<br>4.5%<br>4.5%<br>4.5%<br>4.5%<br>6.41<br>9.35<br>7.39<br>5.35<br>7.63<br>4.5%<br>9.6%                  | 2.5%<br>1.7%<br>3.3%<br>2.4%<br>2.1%<br>aims for<br>2011<br>6.03<br>8.72<br>6.65<br>4.71<br>7.02<br>2011<br>-5.9%<br>-6.7%           | 0.0%<br>4.0%<br>4.6%<br>0.8%<br>2.5%<br>Acciden<br>2012<br>5.87<br>9.51<br>6.91<br>4.70<br>7.41<br>2012<br>-2.7%<br>9.0%         | 2.8%<br>4.7%<br>0.5%<br>3.9%<br>3.8%<br>t Year<br>2013<br>7.57<br>11.69<br>8.88<br>5.47<br>9.10<br>2013<br>28.9%<br>23.0%          | -0.8%<br>0.9%<br>0.0%<br>-1.3%<br>0.0%<br>2014<br>7.39<br>12.68<br>10.18<br>5.90<br>9.80<br>2014<br>-2.4%<br>8.5%          | 1.3%<br>-0.2%<br>-0.4%<br>-2.1%<br>-0.6%<br>2015<br>7.20<br>14.70<br>10.92<br>5.98<br>10.81<br>2015<br>-2.5%<br>15.9%         | -0.8%<br>0.6%<br>1.7%<br>0.8%<br>0.3%<br>2016<br>7.10<br>15.54<br>11.16<br>5.73<br>11.05<br>2016<br>-1.4%<br>5.7%         |
| Bay Area Los Angeles/LA Basin San Diego All Other All Regions  Region Bay Area Los Angeles/LA Basin San Diego All Other All Regions  Region Bay Area Los Angeles/LA Basin San Diego All Other All Regions         | 2002<br>8.33<br>8.51<br>7.49<br>5.58<br>7.52 | 1.0%<br>1.1%<br>-0.2%<br>-0.1%<br>0.7%<br>2003<br>7.78<br>9.19<br>7.95<br>5.71<br>7.82<br>2003<br>-6.6%<br>8.0%<br>6.1% | -10.9%<br>-8.7%<br>-9.8%<br>-8.3%<br>-9.1%<br>-9.15<br>9.05<br>7.88<br>5.49<br>7.58<br>-9.104<br>-8.1%<br>-0.9% | -8.2%<br>-9.5%<br>-6.7%<br>-8.3%<br>-8.7%<br>Cum<br>2005<br>5.89<br>6.78<br>5.85<br>3.85<br>5.69<br>2005<br>-17.6%<br>-25.1%<br>-25.7%<br>-29.9%  | 1.1%<br>-1.8%<br>-0.8%<br>-2.6%<br>-1.4%<br>ulative Ir<br>2006<br>5.28<br>6.48<br>5.19<br>4.16<br>5.49<br>2006<br>-10.2%<br>-4.5%<br>-11.3% | 1.2%<br>2.6%<br>0.0%<br>1.5%<br>1.8%<br>1.8%<br>1.8%<br>1.8%<br>1.2007<br>6.18<br>6.95<br>5.72<br>4.04<br>5.87<br>16.9%<br>7.2%<br>10.1% | 2008<br>1.4%<br>3.1%<br>4.4%<br>1.5%<br>2.5%<br>ims per<br>2008<br>6.13<br>7.06<br>5.85<br>4.03<br>5.96<br>An<br>2008<br>-0.8%<br>1.7%<br>2.4% | 2009<br>4.0%<br>8.2%<br>4.5%<br>3.9%<br>6.1%<br>100 Inde<br>2009<br>6.32<br>8.53<br>6.10<br>4.68<br>6.92<br>nual Cha<br>2009<br>3.2%<br>20.7%         | 2010<br>3.6%<br>4.3%<br>7.6%<br>4.3%<br>4.5%<br>4.5%<br>4.5%<br>4.5%<br>4.5%<br>6.41<br>9.35<br>7.39<br>5.35<br>7.63<br>4.5%<br>2010<br>1.5%<br>9.6%<br>21.0% | 2.5%<br>1.7%<br>3.3%<br>2.4%<br>2.1%<br>aims for<br>2011<br>6.03<br>8.72<br>6.65<br>4.71<br>7.02<br>2011<br>-5.9%<br>-6.7%<br>-10.0% | 0.0%<br>4.0%<br>4.6%<br>0.8%<br>2.5%<br>Acciden<br>2012<br>5.87<br>9.51<br>6.91<br>4.70<br>7.41<br>2012<br>-2.7%<br>9.0%<br>3.9% | 2.8%<br>4.7%<br>0.5%<br>3.9%<br>3.8%<br>t Year<br>2013<br>7.57<br>11.69<br>8.88<br>5.47<br>9.10<br>2013<br>28.9%<br>23.0%<br>28.6% | -0.8%<br>0.9%<br>0.0%<br>-1.3%<br>0.0%<br>2014<br>7.39<br>12.68<br>10.18<br>5.90<br>9.80<br>2014<br>-2.4%<br>8.5%<br>14.6% | 1.3%<br>-0.2%<br>-0.4%<br>-2.1%<br>-0.6%<br>2015<br>7.20<br>14.70<br>10.92<br>5.98<br>10.81<br>2015<br>-2.5%<br>15.9%<br>7.2% | -0.8%<br>0.6%<br>1.7%<br>0.8%<br>0.3%<br>2016<br>7.10<br>15.54<br>11.16<br>5.73<br>11.05<br>2016<br>-1.4%<br>5.7%<br>2.2% |

Figures in italics are based on preliminary partial data.

### Distribution of Cumulative Injury Claims by Injury Type

| Permanent Indemnit | tv* |
|--------------------|-----|
|--------------------|-----|

| Percentage of All Cumulative Injury Claims |       |       |       |       |       |       |        | Ar     | nnual Cha | nge    |        |
|--|-------|-------|-------|-------|-------|-------|--------|--------|-----------|--------|--------|
| AY/RL                                      | 1     | 2     | 3     | 4     | 5     | AY/RL | 1      | 2      | 3         | 4      | 5      |
| 1999                                       | 30.6% | 34.2% | 35.7% | 36.7% | 37.4% | 1999  |        |        |           |        |        |
| 2000                                       | 31.4% | 35.4% | 36.9% | 37.5% | 36.3% | 2000  | 2.6%   | 3.4%   | 3.3%      | 2.2%   | -3.0%  |
| 2001                                       | 30.8% | 35.0% | 36.6% | 37.3% | 37.6% | 2001  | -2.1%  | -1.2%  | -0.7%     | -0.7%  | 3.5%   |
| 2002                                       | 32.8% | 36.5% | 37.5% | 38.0% | 37.8% | 2002  | 6.6%   | 4.5%   | 2.4%      | 2.1%   | 0.7%   |
| 2003                                       | 33.5% | 37.1% | 38.3% | 38.6% | 38.8% | 2003  | 2.0%   | 1.7%   | 2.0%      | 1.4%   | 2.6%   |
| 2004                                       | 28.5% | 31.2% | 32.6% | 33.3% | 34.4% | 2004  | -14.8% | -15.9% | -14.9%    | -13.8% | -11.3% |
| 2005                                       | 20.9% | 24.5% | 26.8% | 29.2% | 31.0% | 2005  | -26.6% | -21.6% | -17.6%    | -12.2% | -9.9%  |
| 2006                                       | 19.2% | 24.4% | 27.7% | 29.7% | 30.6% | 2006  | -8.3%  | -0.2%  | 3.2%      | 1.8%   | -1.4%  |
| 2007                                       | 20.0% | 26.1% | 29.1% | 29.2% | 30.9% | 2007  | 4.4%   | 6.6%   | 4.9%      | -1.7%  | 1.1%   |
| 2008                                       | 20.8% | 27.0% | 30.2% | 31.0% | 32.6% | 2008  | 3.8%   | 3.5%   | 3.9%      | 6.1%   | 5.4%   |
| 2009                                       | 23.8% | 30.6% | 34.3% | 36.2% | 37.5% | 2009  | 14.5%  | 13.3%  | 13.7%     | 16.8%  | 15.0%  |
| 2010                                       | 23.7% | 31.9% | 34.9% | 37.1% | 38.4% | 2010  | -0.5%  | 4.4%   | 1.8%      | 2.3%   | 2.3%   |
| 2011                                       | 27.4% | 34.0% | 37.8% | 40.3% | 41.8% | 2011  | 15.9%  | 6.6%   | 8.1%      | 8.8%   | 8.9%   |
| 2012                                       | 29.5% | 36.2% | 40.3% | 42.6% | 44.8% | 2012  | 7.6%   | 6.4%   | 6.6%      | 5.6%   | 7.2%   |
| 2013                                       | 31.0% | 38.5% | 42.4% | 43.2% |       | 2013  | 5.2%   | 6.4%   | 5.4%      | 1.6%   |        |
| 2014                                       | 33.3% | 41.3% | 45.1% |       |       | 2014  | 7.3%   | 7.2%   | 6.4%      |        |        |
| 2015                                       | 35.2% | 43.3% |       |       |       | 2015  | 5.8%   | 4.8%   |           |        |        |
| 2016                                       | 34.0% |       |       |       |       | 2016  | -3.6%  |        |           |        |        |

### **Temporary Indemnity**

|       | ,     | ,     |       |       |           |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|-------|
|       | Perc  |       |       | Ar    | nnual Cha | nge   |       |       |       |       |       |
| AY/RL | 1     | 2     | 3     | 4     | 5         | AY/RL | 1     | 2     | 3     | 4     | 5     |
| 1999  | 20.1% | 17.0% | 16.2% | 15.7% | 15.4%     | 1999  |       |       |       |       |       |
| 2000  | 20.6% | 17.2% | 17.2% | 16.6% | 16.1%     | 2000  | 2.8%  | 1.0%  | 5.9%  | 5.6%  | 4.4%  |
| 2001  | 20.3% | 18.4% | 17.5% | 16.7% | 16.1%     | 2001  | -1.5% | 7.2%  | 1.6%  | 0.3%  | 0.0%  |
| 2002  | 19.8% | 18.0% | 16.5% | 15.6% | 15.6%     | 2002  | -2.3% | -2.5% | -5.7% | -6.3% | -3.2% |
| 2003  | 21.5% | 18.1% | 16.6% | 16.1% | 15.9%     | 2003  | 8.4%  | 0.4%  | 0.8%  | 3.0%  | 2.2%  |
| 2004  | 21.5% | 18.6% | 17.2% | 16.4% | 15.6%     | 2004  | 0.1%  | 3.3%  | 3.4%  | 2.2%  | -2.1% |
| 2005  | 21.5% | 19.0% | 17.5% | 15.9% | 14.6%     | 2005  | -0.2% | 1.9%  | 2.1%  | -3.3% | -6.0% |
| 2006  | 21.6% | 19.2% | 16.7% | 15.4% | 14.6%     | 2006  | 0.2%  | 0.9%  | -5.0% | -3.4% | -0.4% |
| 2007  | 22.7% | 18.7% | 17.1% | 15.9% | 15.6%     | 2007  | 5.1%  | -2.1% | 2.7%  | 3.1%  | 6.8%  |
| 2008  | 22.3% | 19.1% | 17.3% | 16.2% | 16.1%     | 2008  | -1.8% | 1.8%  | 0.9%  | 2.3%  | 3.7%  |
| 2009  | 25.1% | 21.6% | 19.3% | 18.2% | 17.4%     | 2009  | 12.8% | 13.2% | 11.7% | 12.1% | 7.9%  |
| 2010  | 26.6% | 21.9% | 19.9% | 18.9% | 18.1%     | 2010  | 6.1%  | 1.3%  | 2.9%  | 4.1%  | 3.9%  |
| 2011  | 26.4% | 23.7% | 22.0% | 20.2% | 19.1%     | 2011  | -0.9% | 8.1%  | 10.7% | 7.0%  | 5.5%  |
| 2012  | 27.0% | 24.6% | 21.9% | 20.5% | 19.1%     | 2012  | 2.2%  | 4.0%  | -0.3% | 1.3%  | 0.2%  |
| 2013  | 30.1% | 25.6% | 22.7% | 20.5% |           | 2013  | 11.7% | 4.0%  | 3.5%  | 0.1%  |       |
| 2014  | 29.8% | 24.8% | 22.0% |       |           | 2014  | -1.0% | -3.2% | -3.0% |       |       |
| 2015  | 28.1% | 23.9% |       |       |           | 2015  | -5.7% | -3.4% |       |       |       |
| 2016  | 29.1% |       |       |       |           | 2016  | 3.4%  |       |       |       |       |

### **Medical-Only**

| Wedica | -Oilly                                     |       |       |       |       |       |        |               |        |        |        |  |  |  |
|--------|--|-------|-------|-------|-------|-------|--------|---------------|--------|--------|--------|--|--|--|
|        | Percentage of All Cumulative Injury Claims |       |       |       |       |       |        | Annual Change |        |        |        |  |  |  |
| AY/RL  | 1  | 2     | 3     | 4     | 5     | AY/RL | 1      | 2             | 3      | 4      | 5      |  |  |  |
| 1999   | 49.3%                                      | 48.6% | 48.0% | 47.4% | 47.1% | 1999  |        |               |        |        |        |  |  |  |
| 2000   | 47.9%                                      | 47.3% | 45.8% | 45.7% | 47.5% | 2000  | -2.8%  | -2.7%         | -4.5%  | -3.6%  | 0.9%   |  |  |  |
| 2001   | 48.9%                                      | 46.5% | 45.8% | 46.0% | 46.3% | 2001  | 2.0%   | -1.7%         | 0.0%   | 0.5%   | -2.7%  |  |  |  |
| 2002   | 47.3%                                      | 45.4% | 45.9% | 46.2% | 46.5% | 2002  | -3.2%  | -2.3%         | 0.2%   | 0.6%   | 0.5%   |  |  |  |
| 2003   | 45.0%                                      | 44.7% | 45.0% | 45.2% | 45.2% | 2003  | -5.0%  | -1.5%         | -1.9%  | -2.2%  | -2.8%  |  |  |  |
| 2004   | 49.9%                                      | 50.1% | 50.2% | 50.2% | 49.9% | 2004  | 11.0%  | 12.0%         | 11.5%  | 11.0%  | 10.4%  |  |  |  |
| 2005   | 57.5%                                      | 56.5% | 55.5% | 54.8% | 54.2% | 2005  | 15.2%  | 12.7%         | 10.7%  | 9.0%   | 8.6%   |  |  |  |
| 2006   | 59.2%                                      | 56.3% | 55.5% | 54.7% | 54.6% | 2006  | 2.9%   | -0.3%         | -0.1%  | 0.0%   | 0.8%   |  |  |  |
| 2007   | 57.3%                                      | 55.1% | 53.7% | 54.8% | 53.3% | 2007  | -3.2%  | -2.1%         | -3.2%  | 0.1%   | -2.4%  |  |  |  |
| 2008   | 56.9%                                      | 53.9% | 52.4% | 52.6% | 51.1% | 2008  | -0.6%  | -2.2%         | -2.4%  | -4.0%  | -4.2%  |  |  |  |
| 2009   | 51.0%                                      | 47.7% | 46.2% | 45.5% | 44.9% | 2009  | -10.4% | -11.4%        | -11.8% | -13.6% | -12.1% |  |  |  |
| 2010   | 49.6%                                      | 46.1% | 45.1% | 43.9% | 43.4% | 2010  | -2.8%  | -3.4%         | -2.5%  | -3.4%  | -3.4%  |  |  |  |
| 2011   | 46.1%                                      | 42.2% | 40.1% | 39.3% | 39.0% | 2011  | -7.1%  | -8.5%         | -11.1% | -10.5% | -10.2% |  |  |  |
| 2012   | 43.4%                                      | 39.1% | 37.7% | 36.8% | 35.8% | 2012  | -5.7%  | -7.3%         | -5.9%  | -6.5%  | -8.1%  |  |  |  |
| 2013   | 38.8%                                      | 35.8% | 34.8% | 36.1% |       | 2013  | -10.7% | -8.4%         | -7.7%  | -2.0%  |        |  |  |  |
| 2014   | 36.8%                                      | 33.9% | 32.8% |       |       | 2014  | -5.0%  | -5.4%         | -5.8%  |        |        |  |  |  |
| 2015   | 36.6%                                      | 32.7% |       |       |       | 2015  | -0.7%  | -3.6%         |        |        |        |  |  |  |
| 2016   | 36.9%                                      |       |       |       |       | 2016  | 0.9%   |               |        |        |        |  |  |  |
|        |  |       |       |       |       |       |        |               |        |        |        |  |  |  |

<sup>\*</sup> Includes Permanent Partial, Permanent Total, and Death

Note: Figures in italics are based on a partial accident year. Cumulative injury claims include occupational disease. Source: WCIRB unit statistical data

### Indemnity Claim Frequency by Geographic Region

### Bay Area

| Day Aid | ,u      |           |            |           |       |       |        |        |           |        |        |
|---------|---------|-----------|------------|-----------|-------|-------|--------|--------|-----------|--------|--------|
|         |         | Indemnit  | y Claim Fi | requency  |       |       |        |        |           |        |        |
|         | per \$1 | 100M of E | xposure a  | t AY 2015 | Level |       |        | An     | nual Char | nge    |        |
| AY/RL   | 1       | 2         | 3          | 4         | 5     | AY/RL | 1      | 2      | 3         | 4      | 5      |
| 2001    | 25.57   | 26.48     | 26.69      | 26.69     | 26.50 | 2001  |        |        |           |        |        |
| 2002    | 24.41   | 25.56     | 26.03      | 25.92     | 26.00 | 2002  | -4.5%  | -3.5%  | -2.5%     | -2.9%  | -1.9%  |
| 2003    | 23.79   | 24.90     | 24.83      | 24.95     | 25.21 | 2003  | -2.5%  | -2.6%  | -4.6%     | -3.7%  | -3.0%  |
| 2004    | 20.34   | 20.60     | 20.73      | 20.98     | 20.79 | 2004  | -14.5% | -17.3% | -16.5%    | -15.9% | -17.5% |
| 2005    | 17.40   | 17.55     | 17.81      | 17.72     | 17.83 | 2005  | -14.4% | -14.8% | -14.1%    | -15.5% | -14.2% |
| 2006    | 16.35   | 16.67     | 16.59      | 16.68     | 16.57 | 2006  | -6.1%  | -5.0%  | -6.8%     | -5.9%  | -7.0%  |
| 2007    | 15.50   | 15.61     | 15.77      | 15.84     | 15.86 | 2007  | -5.2%  | -6.4%  | -5.0%     | -5.0%  | -4.3%  |
| 2008    | 14.20   | 14.62     | 14.75      | 14.87     | 14.87 | 2008  | -8.4%  | -6.3%  | -6.5%     | -6.1%  | -6.2%  |
| 2009    | 13.05   | 13.40     | 13.57      | 13.64     | 13.67 | 2009  | -8.1%  | -8.3%  | -8.0%     | -8.3%  | -8.1%  |
| 2010    | 13.55   | 14.09     | 14.23      | 14.32     | 14.35 | 2010  | 3.8%   | 5.1%   | 4.8%      | 5.0%   | 5.0%   |
| 2011    | 13.04   | 13.61     | 13.82      | 13.93     | 13.99 | 2011  | -3.7%  | -3.4%  | -2.9%     | -2.8%  | -2.6%  |
| 2012    | 12.99   | 13.61     | 13.87      | 13.96     | 14.01 | 2012  | -0.3%  | 0.0%   | 0.4%      | 0.2%   | 0.2%   |
| 2013    | 12.49   | 13.03     | 13.19      | 13.27     |       | 2013  | -3.9%  | -4.3%  | -4.9%     | -4.9%  |        |
| 2014    | 12.44   | 12.93     | 13.05      |           |       | 2014  | -0.4%  | -0.7%  | -1.1%     |        |        |
| 2015    | 12.32   | 12.91     |            |           |       | 2015  | -0.9%  | -0.2%  |           |        |        |
| 2016    | 11.69   |           |            |           |       | 2016  | -5.2%  |        |           |        |        |

### Los Angeles/L.A. Basin

Indemnity Claim Frequency

|       |         | maommi   | y Ciaiiii i | oquonoy   |       |       |        |        |           |        |        |
|-------|---------|----------|-------------|-----------|-------|-------|--------|--------|-----------|--------|--------|
|       | per \$1 | 00M of E | xposure a   | t AY 2015 | Level |       |        | An     | nual Char | nge    |        |
| AY/RL | 1       | 2        | 3           | 4         | 5     | AY/RL | 1      | 2      | 3         | 4      | 5      |
| 2001  | 34.95   | 36.48    | 37.28       | 37.59     | 37.92 | 2001  |        |        |           |        |        |
| 2002  | 34.24   | 37.19    | 37.70       | 38.02     | 37.98 | 2002  | -2.0%  | 1.9%   | 1.1%      | 1.1%   | 0.2%   |
| 2003  | 35.06   | 36.59    | 36.80       | 36.82     | 36.85 | 2003  | 2.4%   | -1.6%  | -2.4%     | -3.1%  | -3.0%  |
| 2004  | 29.31   | 30.06    | 30.08       | 30.25     | 30.44 | 2004  | -16.4% | -17.9% | -18.3%    | -17.8% | -17.4% |
| 2005  | 24.57   | 25.24    | 25.56       | 25.78     | 26.08 | 2005  | -16.2% | -16.0% | -15.0%    | -14.8% | -14.3% |
| 2006  | 23.17   | 23.92    | 24.26       | 24.55     | 24.56 | 2006  | -5.7%  | -5.2%  | -5.1%     | -4.8%  | -5.8%  |
| 2007  | 22.44   | 23.38    | 23.78       | 23.91     | 23.98 | 2007  | -3.2%  | -2.3%  | -2.0%     | -2.6%  | -2.3%  |
| 2008  | 21.57   | 22.82    | 23.21       | 23.35     | 23.46 | 2008  | -3.8%  | -2.4%  | -2.4%     | -2.4%  | -2.2%  |
| 2009  | 21.36   | 22.71    | 23.14       | 23.38     | 23.48 | 2009  | -1.0%  | -0.5%  | -0.3%     | 0.1%   | 0.1%   |
| 2010  | 23.08   | 24.37    | 24.89       | 25.12     | 25.23 | 2010  | 8.0%   | 7.3%   | 7.5%      | 7.4%   | 7.4%   |
| 2011  | 22.92   | 24.55    | 25.14       | 25.38     | 25.53 | 2011  | -0.7%  | 0.8%   | 1.0%      | 1.1%   | 1.2%   |
| 2012  | 24.59   | 26.41    | 26.99       | 27.26     | 27.41 | 2012  | 7.3%   | 7.5%   | 7.4%      | 7.4%   | 7.3%   |
| 2013  | 25.15   | 26.89    | 27.39       | 27.64     |       | 2013  | 2.3%   | 1.8%   | 1.5%      | 1.4%   |        |
| 2014  | 25.89   | 27.52    | 28.13       |           |       | 2014  | 2.9%   | 2.3%   | 2.7%      |        |        |
| 2015  | 25.72   | 28.34    |             |           |       | 2015  | -0.6%  | 3.0%   |           |        |        |
| 2016  | 24.61   |          |             |           |       | 2016  | -4.3%  |        |           |        |        |

### San Diego

Indemnity Claim Frequency

|       | per \$1 | 00M of E | xposure a | t AY 2015 | Level |   |       | Annual Change |        |        |        |        |  |  |
|-------|---------|----------|-----------|-----------|-------|---|-------|---------------|--------|--------|--------|--------|--|--|
| AY/RL | 1       | 2        | 3         | 4         | 5     | _ | AY/RL | 1             | 2      | 3      | 4      | 5      |  |  |
| 2001  | 36.60   | 37.64    | 38.05     | 38.44     | 38.78 | - | 2001  |               |        |        |        |        |  |  |
| 2002  | 33.74   | 35.38    | 35.71     | 35.98     | 36.05 |   | 2002  | -7.8%         | -6.0%  | -6.1%  | -6.4%  | -7.1%  |  |  |
| 2003  | 31.90   | 32.73    | 33.02     | 32.96     | 33.22 |   | 2003  | -5.5%         | -7.5%  | -7.5%  | -8.4%  | -7.8%  |  |  |
| 2004  | 26.63   | 27.39    | 27.52     | 27.62     | 27.36 |   | 2004  | -16.5%        | -16.3% | -16.7% | -16.2% | -17.6% |  |  |
| 2005  | 23.40   | 23.70    | 23.74     | 23.57     | 23.54 |   | 2005  | -12.1%        | -13.5% | -13.7% | -14.7% | -14.0% |  |  |
| 2006  | 21.86   | 21.70    | 21.66     | 21.57     | 21.55 |   | 2006  | -6.6%         | -8.4%  | -8.8%  | -8.5%  | -8.5%  |  |  |
| 2007  | 21.01   | 21.21    | 21.13     | 20.73     | 20.75 |   | 2007  | -3.9%         | -2.2%  | -2.4%  | -3.9%  | -3.7%  |  |  |
| 2008  | 19.21   | 19.65    | 19.84     | 19.36     | 19.46 |   | 2008  | -8.5%         | -7.4%  | -6.1%  | -6.6%  | -6.2%  |  |  |
| 2009  | 17.79   | 18.59    | 18.81     | 18.92     | 19.00 |   | 2009  | -7.4%         | -5.4%  | -5.2%  | -2.3%  | -2.3%  |  |  |
| 2010  | 19.69   | 20.44    | 20.64     | 20.76     | 20.86 |   | 2010  | 10.7%         | 10.0%  | 9.7%   | 9.8%   | 9.8%   |  |  |
| 2011  | 19.30   | 19.99    | 20.27     | 20.29     | 20.34 |   | 2011  | -2.0%         | -2.2%  | -1.8%  | -2.3%  | -2.5%  |  |  |
| 2012  | 19.81   | 20.61    | 20.68     | 20.81     | 20.93 |   | 2012  | 2.6%          | 3.1%   | 2.0%   | 2.6%   | 2.9%   |  |  |
| 2013  | 19.00   | 19.60    | 19.81     | 19.93     |       |   | 2013  | -4.1%         | -4.9%  | -4.2%  | -4.2%  |        |  |  |
| 2014  | 19.50   | 20.32    | 20.49     |           |       |   | 2014  | 2.6%          | 3.7%   | 3.4%   |        |        |  |  |
| 2015  | 20.72   | 21.95    |           |           |       |   | 2015  | 6.2%          | 8.1%   |        |        |        |  |  |
| 2016  | 19.79   |          |           |           |       |   | 2016  | -4.5%         |        |        |        |        |  |  |

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

### Indemnity Claim Frequency by Geographic Region

### All Other

|       |         | Indemnit | y Claim F | requency  |       |       |        |        |           |        |        |
|-------|---------|----------|-----------|-----------|-------|-------|--------|--------|-----------|--------|--------|
|       | per \$1 | 00M of E | xposure a | t AY 2015 | Level |       |        | An     | nual Char | nge    |        |
| AY/RL | 1       | 2        | 3         | 4         | 5     | AY/RL | 1      | 2      | 3         | 4      | 5      |
| 2001  | 42.27   | 43.22    | 43.57     | 43.29     | 43.10 | 2001  |        |        |           |        |        |
| 2002  | 39.80   | 41.99    | 41.61     | 41.38     | 41.52 | 2002  | -5.8%  | -2.9%  | -4.5%     | -4.4%  | -3.7%  |
| 2003  | 39.49   | 39.94    | 39.73     | 39.79     | 39.66 | 2003  | -0.8%  | -4.9%  | -4.5%     | -3.9%  | -4.5%  |
| 2004  | 33.80   | 34.22    | 34.25     | 33.99     | 33.51 | 2004  | -14.4% | -14.3% | -13.8%    | -14.6% | -15.5% |
| 2005  | 29.41   | 29.82    | 29.64     | 29.43     | 29.66 | 2005  | -13.0% | -12.9% | -13.5%    | -13.4% | -11.5% |
| 2006  | 27.34   | 27.37    | 27.28     | 27.42     | 27.33 | 2006  | -7.1%  | -8.2%  | -7.9%     | -6.8%  | -7.9%  |
| 2007  | 26.09   | 26.35    | 26.57     | 26.52     | 26.67 | 2007  | -4.6%  | -3.7%  | -2.6%     | -3.3%  | -2.4%  |
| 2008  | 23.96   | 24.67    | 24.81     | 25.09     | 25.22 | 2008  | -8.2%  | -6.4%  | -6.6%     | -5.4%  | -5.4%  |
| 2009  | 23.16   | 24.01    | 24.44     | 24.64     | 24.74 | 2009  | -3.3%  | -2.7%  | -1.5%     | -1.8%  | -1.9%  |
| 2010  | 24.52   | 25.76    | 26.11     | 26.30     | 26.42 | 2010  | 5.9%   | 7.3%   | 6.8%      | 6.7%   | 6.8%   |
| 2011  | 24.34   | 25.52    | 25.94     | 26.11     | 26.16 | 2011  | -0.7%  | -1.0%  | -0.6%     | -0.7%  | -1.0%  |
| 2012  | 24.73   | 25.91    | 26.29     | 26.42     | 26.53 | 2012  | 1.6%   | 1.5%   | 1.3%      | 1.2%   | 1.4%   |
| 2013  | 24.81   | 25.91    | 26.21     | 26.43     |       | 2013  | 0.3%   | 0.0%   | -0.3%     | 0.0%   |        |
| 2014  | 24.62   | 25.76    | 26.18     |           |       | 2014  | -0.8%  | -0.6%  | -0.1%     |        |        |
| 2015  | 24.79   | 26.41    |           |           |       | 2015  | 0.7%   | 2.5%   |           |        |        |
| 2016  | 24.77   |          |           |           |       | 2016  | -0.1%  |        |           |        |        |

### All Regions

| Indemnity | Claim | Frequency |
|-----------|-------|-----------|
|-----------|-------|-----------|

|       |         |          | y Claimin | . ,       |       |   |       |        |        |           |        |        |
|-------|---------|----------|-----------|-----------|-------|---|-------|--------|--------|-----------|--------|--------|
|       | per \$1 | 00M of E | xposure a | t AY 2015 | Level |   |       |        | An     | nual Char | nge    |        |
| AY/RL | 1       | 2        | 3         | 4         | 5     | _ | AY/RL | 1      | 2      | 3         | 4      | 5      |
| 2001  | 34.75   | 35.93    | 36.43     | 36.47     | 36.50 | - | 2001  |        |        |           |        |        |
| 2002  | 33.47   | 35.71    | 35.93     | 35.97     | 36.01 |   | 2002  | -3.7%  | -0.6%  | -1.4%     | -1.4%  | -1.3%  |
| 2003  | 33.63   | 34.72    | 34.72     | 34.78     | 34.82 |   | 2003  | 0.5%   | -2.8%  | -3.4%     | -3.3%  | -3.3%  |
| 2004  | 28.44   | 28.97    | 29.02     | 29.08     | 28.96 |   | 2004  | -15.4% | -16.5% | -16.4%    | -16.4% | -16.8% |
| 2005  | 24.24   | 24.70    | 24.85     | 24.86     | 25.09 |   | 2005  | -14.8% | -14.7% | -14.4%    | -14.5% | -13.4% |
| 2006  | 22.71   | 23.14    | 23.24     | 23.43     | 23.38 |   | 2006  | -6.3%  | -6.3%  | -6.5%     | -5.8%  | -6.8%  |
| 2007  | 21.78   | 22.31    | 22.60     | 22.65     | 22.73 |   | 2007  | -4.1%  | -3.6%  | -2.8%     | -3.3%  | -2.8%  |
| 2008  | 20.41   | 21.29    | 21.54     | 21.71     | 21.80 |   | 2008  | -6.3%  | -4.6%  | -4.7%     | -4.1%  | -4.1%  |
| 2009  | 19.75   | 20.70    | 21.06     | 21.24     | 21.33 |   | 2009  | -3.2%  | -2.8%  | -2.2%     | -2.2%  | -2.2%  |
| 2010  | 21.01   | 22.09    | 22.46     | 22.64     | 22.74 |   | 2010  | 6.4%   | 6.7%   | 6.6%      | 6.6%   | 6.6%   |
| 2011  | 20.75   | 21.97    | 22.41     | 22.59     | 22.69 |   | 2011  | -1.2%  | -0.6%  | -0.2%     | -0.2%  | -0.2%  |
| 2012  | 21.51   | 22.81    | 23.25     | 23.42     | 23.53 |   | 2012  | 3.7%   | 3.8%   | 3.7%      | 3.7%   | 3.7%   |
| 2013  | 21.55   | 22.77    | 23.11     | 23.31     |       |   | 2013  | 0.2%   | -0.2%  | -0.6%     | -0.5%  |        |
| 2014  | 21.73   | 22.89    | 23.31     |           |       |   | 2014  | 0.8%   | 0.5%   | 0.9%      |        |        |
| 2015  | 21.58   | 23.32    |           |           |       |   | 2015  | -0.7%  | 1.9%   |           |        |        |
| 2016  | 20.80   |          |           |           |       |   | 2016  | -3.6%  |        |           |        |        |

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

### Indemnity Claim Count Distribution by Part of Body Code

Top 20 Part of Body Codes for Cumulative Injury Indemnity Claims based on AY 2015 Shares

| 2015  | POB  | POB                 |       |       |       |       | Accider | nt Year |       |       |       |       |
|-------|------|---------------------|-------|-------|-------|-------|---------|---------|-------|-------|-------|-------|
| Rank  | Code | Description         | 2007  | 2008  | 2009  | 2010  | 2011    | 2012    | 2013  | 2014  | 2015  | 2016  |
| 1     | 90   | Multiple Body Parts | 25.7% | 24.0% | 25.1% | 25.9% | 29.0%   | 29.8%   | 31.2% | 30.5% | 32.4% | 36.7% |
| 2     | 42   | Lower Back          | 6.4%  | 6.2%  | 7.6%  | 8.3%  | 8.2%    | 8.1%    | 8.9%  | 9.3%  | 9.1%  | 8.6%  |
| 3     | 91   | Body Systems        | 2.5%  | 3.0%  | 4.1%  | 3.5%  | 3.7%    | 4.8%    | 6.7%  | 6.1%  | 5.9%  | 6.0%  |
| 4     | 66   | Psych               | 4.2%  | 5.5%  | 5.6%  | 5.9%  | 5.2%    | 5.1%    | 4.5%  | 4.7%  | 5.0%  | 4.8%  |
| 5     | 34   | Wrist               | 10.4% | 9.9%  | 7.9%  | 7.0%  | 6.8%    | 7.1%    | 5.7%  | 5.6%  | 4.9%  | 4.4%  |
| 6     | 38   | Shoulder            | 4.9%  | 5.4%  | 4.6%  | 4.8%  | 4.6%    | 4.6%    | 4.6%  | 5.0%  | 4.9%  | 4.7%  |
| 7     | 35   | Hand                | 5.8%  | 5.3%  | 4.6%  | 4.4%  | 4.5%    | 3.9%    | 3.9%  | 3.9%  | 3.6%  | 3.4%  |
| 8     | 30   | Multiple Upper      | 6.4%  | 5.9%  | 5.1%  | 4.4%  | 4.2%    | 4.6%    | 4.0%  | 4.2%  | 3.4%  | 3.2%  |
| 9     | 39   | Wrist and Hand      | 4.3%  | 5.6%  | 4.2%  | 4.0%  | 4.2%    | 4.4%    | 3.7%  | 3.5%  | 3.1%  | 2.2%  |
| 10    | 25   | Soft Tissue (Neck)  | 0.7%  | 1.1%  | 1.6%  | 2.0%  | 1.6%    | 1.7%    | 1.8%  | 2.2%  | 2.5%  | 1.7%  |
| 11    | 53   | Knee                | 3.0%  | 2.8%  | 2.2%  | 2.8%  | 2.5%    | 2.3%    | 2.7%  | 2.3%  | 2.4%  | 2.3%  |
| 12    | 65   | Unclassified        | 1.8%  | 1.7%  | 2.3%  | 2.0%  | 2.9%    | 2.7%    | 1.8%  | 1.6%  | 2.1%  | 2.4%  |
| 13    | 12   | Brain               | 4.4%  | 4.0%  | 5.5%  | 5.2%  | 4.2%    | 2.9%    | 1.4%  | 1.4%  | 1.2%  | 1.1%  |
| 14    | 33   | Lower Arm           | 2.5%  | 1.9%  | 1.8%  | 1.6%  | 1.4%    | 1.6%    | 1.6%  | 1.4%  | 1.2%  | 1.1%  |
| 15    | 32   | Elbow               | 1.8%  | 2.1%  | 1.6%  | 1.3%  | 1.2%    | 1.3%    | 1.3%  | 1.3%  | 1.2%  | 1.2%  |
| 16    | 43   | Disc (Back)         | 0.2%  | 0.2%  | 0.4%  | 0.4%  | 0.3%    | 0.6%    | 1.0%  | 1.2%  | 1.1%  | 1.3%  |
| 17    | 10   | Multiple Head       | 0.6%  | 1.0%  | 1.6%  | 1.4%  | 1.0%    | 1.1%    | 1.1%  | 1.2%  | 1.1%  | 0.6%  |
| 18    | 20   | Multiple Neck       | 0.7%  | 0.9%  | 1.0%  | 0.9%  | 0.9%    | 1.3%    | 1.1%  | 0.9%  | 1.1%  | 0.9%  |
| 19    | 22   | Disc (Neck)         | 0.6%  | 0.6%  | 0.5%  | 0.6%  | 0.7%    | 0.7%    | 1.0%  | 1.4%  | 1.1%  | 1.0%  |
| 20    | 61   | Abdomen             | 0.7%  | 1.1%  | 0.9%  | 1.0%  | 0.8%    | 0.7%    | 0.7%  | 1.1%  | 0.9%  | 0.9%  |
| Other |      | Other               | 12.4% | 12.1% | 12.0% | 12.5% | 12.0%   | 10.8%   | 11.2% | 11.4% | 11.6% | 11.6% |

Top 20 Part of Body Codes for Non-Cumulative Injury Indemnity Claims based on AY 2015 Shares

| 2015  | POB  | POB                 |       |       |       |       | Accider | nt Year |       |       |       |       |
|-------|------|---------------------|-------|-------|-------|-------|---------|---------|-------|-------|-------|-------|
| Rank  | Code | Description         | 2007  | 2008  | 2009  | 2010  | 2011    | 2012    | 2013  | 2014  | 2015  | 2016  |
| 1     | 42   | Lower Back          | 15.6% | 16.7% | 17.4% | 17.3% | 16.8%   | 16.8%   | 16.9% | 16.6% | 16.1% | 15.4% |
| 2     | 90   | Multiple Body Parts | 11.2% | 10.7% | 10.8% | 11.7% | 13.1%   | 12.6%   | 12.2% | 11.6% | 10.7% | 10.9% |
| 3     | 53   | Knee                | 8.2%  | 8.5%  | 8.6%  | 8.6%  | 8.3%    | 8.4%    | 8.9%  | 8.8%  | 9.0%  | 9.1%  |
| 4     | 38   | Shoulder            | 5.1%  | 5.7%  | 6.2%  | 6.1%  | 6.1%    | 6.6%    | 7.5%  | 7.9%  | 8.2%  | 8.2%  |
| 5     | 36   | Finger              | 6.1%  | 6.2%  | 6.0%  | 6.0%  | 5.8%    | 5.8%    | 5.8%  | 6.0%  | 6.0%  | 6.0%  |
| 6     | 35   | Hand                | 4.2%  | 4.1%  | 4.1%  | 4.3%  | 4.4%    | 4.6%    | 4.6%  | 4.4%  | 4.6%  | 4.6%  |
| 7     | 55   | Ankle               | 4.3%  | 4.4%  | 4.4%  | 4.2%  | 4.3%    | 4.2%    | 4.2%  | 4.4%  | 4.5%  | 4.5%  |
| 8     | 34   | Wrist               | 5.9%  | 5.7%  | 5.6%  | 6.0%  | 5.6%    | 5.4%    | 4.1%  | 3.9%  | 4.2%  | 4.2%  |
| 9     | 56   | Foot                | 3.4%  | 3.1%  | 3.0%  | 2.9%  | 3.0%    | 2.9%    | 3.0%  | 3.2%  | 3.1%  | 3.4%  |
| 10    | 61   | Abdomen             | 2.4%  | 2.4%  | 2.4%  | 2.1%  | 2.3%    | 2.3%    | 2.4%  | 2.4%  | 2.5%  | 2.2%  |
| 11    | 33   | Lower Arm           | 1.8%  | 1.9%  | 2.0%  | 2.0%  | 2.1%    | 2.2%    | 2.2%  | 2.1%  | 2.3%  | 2.2%  |
| 12    | 41   | Upper Back          | 1.5%  | 1.4%  | 1.4%  | 1.5%  | 1.5%    | 1.6%    | 1.9%  | 2.0%  | 2.0%  | 1.9%  |
| 13    | 32   | Elbow               | 1.8%  | 1.8%  | 1.8%  | 1.8%  | 1.7%    | 1.8%    | 1.9%  | 2.0%  | 2.0%  | 2.0%  |
| 14    | 54   | Lower Leg           | 1.9%  | 1.9%  | 1.8%  | 1.8%  | 1.8%    | 1.8%    | 1.8%  | 1.9%  | 1.9%  | 2.1%  |
| 15    | 37   | Thumb               | 1.7%  | 1.7%  | 1.7%  | 1.5%  | 1.6%    | 1.6%    | 1.6%  | 1.7%  | 1.7%  | 2.0%  |
| 16    | 30   | Multiple Upper      | 2.1%  | 1.9%  | 1.9%  | 2.0%  | 1.9%    | 1.9%    | 1.7%  | 1.6%  | 1.6%  | 1.5%  |
| 17    | 31   | Upper Arm           | 1.8%  | 1.9%  | 2.2%  | 2.3%  | 2.3%    | 2.0%    | 1.7%  | 1.6%  | 1.6%  | 1.4%  |
| 18    | 63   | Vertebrae (Back)    | 1.0%  | 0.8%  | 0.9%  | 0.7%  | 0.7%    | 0.8%    | 1.0%  | 1.2%  | 1.3%  | 1.0%  |
| 19    | 25   | Soft Tissue (Neck)  | 0.9%  | 1.0%  | 1.3%  | 1.5%  | 1.4%    | 1.3%    | 1.4%  | 1.3%  | 1.2%  | 1.2%  |
| 20    | 10   | Multiple Head       | 1.1%  | 1.1%  | 1.2%  | 1.3%  | 1.2%    | 1.3%    | 1.1%  | 1.1%  | 1.2%  | 1.1%  |
| Other |      | Other               | 18.1% | 17.0% | 15.4% | 14.4% | 14.2%   | 14.0%   | 14.2% | 14.4% | 14.6% | 15.2% |

Note: Figures in italics are based on a partial data. Source: WCIRB unit statistical data at first report level

# Average Incurred Indemnity Loss per Reported Indemnity Claim As of September 30, 2017

| Accident       |                 |                  |                  | Evalu            | ated as of       | f (in montl      | ns):             |                  |                  |                  |
|----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Year           | <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>       |
| 1993           |                 |                  |                  |                  |                  |                  |                  |                  |                  | 11,730           |
| 1994           |                 |                  |                  |                  |                  |                  |                  |                  | 12,494           | 12,593           |
| 1995           |                 |                  |                  |                  |                  |                  |                  | 14,174           | 14,385           | 14,500           |
| 1996           |                 |                  |                  |                  |                  |                  | 16,100           | 16,414           | 16,635           | 16,685           |
| 1997           |                 |                  |                  |                  |                  | 18,143           | 18,602           | 18,932           | 18,952           | 18,990           |
| 1998           |                 |                  |                  |                  | 19,427           | 20,260           | 20,765           | 20,869           | 20,893           | 20,998           |
| 1999           |                 |                  |                  | 19,931           | 21,272           | 22,055           | 22,339           | 22,430           | 22,610           | 22,710           |
| 2000           |                 |                  | 18,794           | 21,279           | 22,533           | 22,932           | 23,124           | 23,455           | 23,644           | 23,776           |
| 2001           |                 | 14,645           | 20,437           | 22,929           | 24,142           | 24,629           | 25,211           | 25,548           | 25,867           | 26,048           |
| 2002           | 9,664           | 15,053           | 19,814           | 21,672           | 22,451           | 23,268           | 23,689           | 24,055           | 24,297           | 24,567           |
| 2003           | 10,248          | 15,204           | 19,442           | 21,030           | 22,302           | 23,068           | 23,685           | 24,119           | 24,586           | 24,988           |
| 2004           | 9,684           | 13,209           | 15,515           | 17,082           | 17,836           | 18,642           | 19,161           | 19,737<br>17,959 | 20,113           | 20,423           |
| 2005<br>2006   | 7,728<br>7,560  | 10,505<br>10,998 | 13,254<br>14,339 | 14,698<br>16,143 | 15,833<br>17,394 | 16,644<br>18,427 | 17,383<br>19,180 | 19,632           | 18,273<br>19,906 | 18,496<br>20,089 |
| 2007           | 7,408           | 11,720           | 15,581           | 17,686           | 18,932           | 19,956           | 20,673           | 21,237           | 21,484           | 21,726           |
| 2008           | 7,684           | 12,714           | 16,943           | 19,533           | 21,088           | 22,039           | 22,699           | 23,154           | 23,453           | 23,622           |
| 2009           | 7,960           | 13,277           | 17,595           | 20,304           | 21,917           | 22,942           | 23,562           | 23,967           | 24,325           | 20,022           |
| 2010           | 7,907           | 13,020           | 17,450           | 19,896           | 21,375           | 22,317           | 22,921           | 23,327           | ,                |                  |
| 2011           | 7,975           | 13,461           | 17,551           | 19,901           | 21,166           | 21,950           | 22,465           | •                |                  |                  |
| 2012           | 8,242           | 13,481           | 17,364           | 19,376           | 20,656           | 21,510           |                  |                  |                  |                  |
| 2013           | 8,455           | 13,405           | 17,125           | 19,173           | 20,223           |                  |                  |                  |                  |                  |
| 2014           | 8,500           | 13,544           | 17,679           | 19,875           |                  |                  |                  |                  |                  |                  |
| 2015           | 8,830           | 14,159           | 18,331           |                  |                  |                  |                  |                  |                  |                  |
| 2016           | 8,996           | 14,236           |                  |                  |                  |                  |                  |                  |                  |                  |
| 2017           | 9,132           |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Accident       |                 |                  |                  |                  | Ann              | ual Chanç        | ae               |                  |                  |                  |
| Year           | <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>       |
| 1994           |                 |                  |                  |                  |                  |                  |                  |                  |                  | 7.4%             |
| 1995           |                 |                  |                  |                  |                  |                  |                  |                  | 15.1%            | 15.1%            |
| 1996           |                 |                  |                  |                  |                  |                  |                  | 15.8%            | 15.6%            | 15.1%            |
| 1997           |                 |                  |                  |                  |                  |                  | 15.5%            | 15.3%            | 13.9%            | 13.8%            |
| 1998           |                 |                  |                  |                  |                  | 11.7%            | 11.6%            | 10.2%            | 10.2%            | 10.6%            |
| 1999           |                 |                  |                  |                  | 9.5%             | 8.9%             | 7.6%             | 7.5%             | 8.2%             | 8.2%             |
| 2000           |                 |                  |                  | 6.8%             | 5.9%             | 4.0%             | 3.5%             | 4.6%             | 4.6%             | 4.7%             |
| 2001           |                 |                  | 8.7%             | 7.8%             | 7.1%             | 7.4%             | 9.0%             | 8.9%             | 9.4%             | 9.6%             |
| 2002           |                 | 2.8%             | -3.0%            | -5.5%            | -7.0%            | -5.5%            | -6.0%            | -5.8%            | -6.1%            | -5.7%            |
| 2003           | 6.0%            | 1.0%             | -1.9%            | -3.0%            | -0.7%            | -0.9%            | 0.0%             | 0.3%             | 1.2%             | 1.7%             |
| 2004           | -5.5%           | -13.1%           | -20.2%           | -18.8%           | -20.0%           | -19.2%           | -19.1%           | -18.2%           | -18.2%           | -18.3%           |
| 2005<br>2006   | -20.2%<br>-2.2% | -20.5%<br>4.7%   | -14.6%<br>8.2%   | -14.0%<br>9.8%   | -11.2%<br>9.9%   | -10.7%<br>10.7%  | -9.3%<br>10.3%   | -9.0%<br>9.3%    | -9.2%<br>8.9%    | -9.4%<br>8.6%    |
| 2007           | -2.2%<br>-2.0%  | 6.6%             | 8.7%             | 9.6%             | 8.8%             | 8.3%             | 7.8%             | 8.2%             | 7.9%             | 8.1%             |
| 2008           | 3.7%            | 8.5%             | 8.7%             | 10.4%            | 11.4%            | 10.4%            | 9.8%             | 9.0%             | 9.2%             | 8.7%             |
| 2009           | 3.6%            | 4.4%             | 3.8%             | 3.9%             | 3.9%             | 4.1%             | 3.8%             | 3.5%             | 3.7%             | 01.70            |
| 2010           | -0.7%           | -1.9%            | -0.8%            | -2.0%            | -2.5%            | -2.7%            | -2.7%            | -2.7%            |                  |                  |
| 2011           | 0.9%            | 3.4%             | 0.6%             | 0.0%             | -1.0%            | -1.6%            | -2.0%            |                  |                  |                  |
| 2012           | 3.4%            | 0.1%             | -1.1%            | -2.6%            | -2.4%            | -2.0%            |                  |                  |                  |                  |
| 2013           | 2.6%            | -0.6%            | -1.4%            | -1.0%            | -2.1%            |                  |                  |                  |                  |                  |
| 2014           | 0.5%            | 1.0%             | 3.2%             | 3.7%             |                  |                  |                  |                  |                  |                  |
| 2015           | 3.9%            | 4.5%             | 3.7%             |                  |                  |                  |                  |                  |                  |                  |
| 2016           | 1.9%            | 0.5%             |                  |                  |                  |                  |                  |                  |                  |                  |
| 2017           | 1.5%            |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                |                 |                  |                  | <u>A</u> nr      | nual Trend       | <u> </u>         |                  |                  |                  |                  |
| All-Yr         | -0.2%           | 0.1%             | -0.3%            | -0.4%            | -0.3%            | 0.2%             | 0.9%             | 1.7%             | 2.7%             | 3.6%             |
| R <sup>2</sup> | 0.008           | 0.003            | 0.014            | 0.025            | 0.012            | 0.008            | 0.107            | 0.260            | 0.384            | 0.472            |
| 5-Year         | 2.1%            | 1.7%             | 1.1%             | -0.4%            | -1.9%            | -0.9%            | 1.8%             | 4.8%             | 7.6%             | 4.6%             |
| R <sup>2</sup> | 0.957           | 0.806            | 0.421            | 0.125            | 0.987            | 0.382            | 0.320            | 0.799            | 0.985            | 0.612            |
|                |                 | 2.000            | · <b>-</b> ·     | 5                |                  |                  |                  | 200              | 2.000            |                  |

Note: All figures in each calendar year diagonal 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 58% to 100% of the total California workers' compensation insured market measured using 2016 earned premium levels).

<sup>\*</sup>Trend is based on an exponential distribution.

# Average Incurred Medical Loss per Reported Claim As of September 30, 2017

| Accident   |   |   |  | Е  | valuated  | as of (in r  | nonths):  |   |   |   |
|--|---|---|--|--|---|--|---|---|---|---|
| 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>  |
| 1998   |   |   |  |  |   |  |   |   | 6,101   | 6,307   |
| 1999   |   |   |  |  |   |  |   | 6,894   | 7,165   | 7,390   |
| 2000   |   |   |  |  |   |  | 7,517   | 7,833   | 8,089   | 8,221   |
| 2001   |   |   |  |  |   | 8,449  | 8,760   | 9,140   | 9,535   | 9,853   |
| 2002   |   |   |  |  | 8,443   | 8,802  | 9,239   | 9,599   | 9,909   | 10,184  |
| 2003   |   |   |  | 7,722  | 8,119   | 8,648  | 9,028   | 9,388   | 9,757   | 10,047  |
| 2004   |   |   | 5,610  | 6,199  | 6,738   | 7,170  | 7,619   | 7,959   | 8,232   | 8,454   |
| 2005   |   | 4,606   | 5,369  | 5,928  | 6,348   | 6,899  | 7,296   | 7,651   | 7,949   | 8,041   |
| 2006   | 3,937   | 4,869   | 5,944  | 6,621  | 7,170   | 7,668  | 8,076   | 8,412   | 8,596   | 8,712   |
| 2007   | 4,166   | 5,461   | 6,699  | 7,547  | 8,197   | 8,775  | 9,241   | 9,559   | 9,738   | 9,815   |
| 2007   | 4,474   | 6,167   | 7,531  | 8,543  | 9,386   | 10,003   | 10,414  | 10,708  | 10,834  | 10,881  |
| 2009   | 5,051   | 6,878   | 8,546  | 9,711  | 10,689  | 11,311   | 11,676  | 11,894  | 11,992  | 10,001  |
| 2009   | 5,031   | 7,155   | 9,002  | 10,319   | 11,099  | 11,636   | 11,959  | 12,104  | 11,992  |   |
| 2010   | 5,140   | 7,133   | 9,590  | 10,319   | 11,590  | 12,011   | 12,244  | 12,104  |   |   |
| 2011   |   | 7,741   |  | 10,790   | 10,949  |  | 12,244  |   |   |   |
| 2012   | 5,605<br>5,642  | 7,805<br>7,769  | 9,421<br>9,145   | 9,957  | 10,949  | 11,343   |   |   |   |   |
| 2013   | 5,622   | 7,769   | 8,758  | 9,515  | 10,410  |  |   |   |   |   |
|  |   | 7,400<br>7,507  | 8,785  | 9,515  |   |  |   |   |   |   |
| 2015<br>2016   | 5,814   |   | 0,700  |  |   |  |   |   |   |   |
|  | 5,782   | 7,516   |  |  |   |  |   |   |   |   |
| 2017   | 5,941   |   |  |  |   |  |   |   |   |   |
| Accident_  |   |   |  |  |   | ual Chanç  |   |   |   |   |
| <u>Year</u>  | 9   | <u>21</u>   | 22   | <u>45</u>  | E7  |  | 01  | <u>93</u>   | 105   | 117   |
|  | <u> </u>  | <u> </u>  | <u>33</u>  | 43   | <u>57</u>   | <u>69</u>  | <u>81</u>   | <u>33</u>   | <u>105</u>  | <u>117</u>  |
| 1999   | <u> </u>  | <u> 21</u>  | <u>33</u>  | <u>45</u>  | <u>57</u>   | <u>69</u>  | <u>01</u>   | <u>33</u>   | 17.4%   | 17.2%   |
| · <u></u>  | <u> </u>  | <u>21</u>   | <u>33</u>  | <u>45</u>  | <u>57</u>   | <u>69</u>  | <u>01</u>   | 13.6%   |   |   |
| 1999   | <u> </u>  | <u>21</u>   | <u>33</u>  | <u>43</u>  | <u>57</u>   | <u>69</u>  | 16.5%   |   | 17.4%   | 17.2%   |
| 1999<br>2000   | <u>u</u>  | <u>21</u>   | <u>33</u>  | <u>45</u>  | <u>57</u>   | 4.2%   |   | 13.6%   | 17.4%<br>12.9%  | 17.2%<br>11.2%  |
| 1999<br>2000<br>2001   | <u>~</u>  | <u> 21</u>  | <u>33</u>  | <u>40</u>  | -3.8%   |  | 16.5%   | 13.6%<br>16.7%  | 17.4%<br>12.9%<br>17.9%   | 17.2%<br>11.2%<br>19.8%   |
| 1999<br>2000<br>2001<br>2002<br>2003   | <u>~</u>  | <u> </u>  | <u>33</u>  |  | -3.8%   | 4.2%<br>-1.8%  | 16.5%<br>5.5%<br>-2.3%  | 13.6%<br>16.7%<br>5.0%<br>-2.2%   | 17.4%<br>12.9%<br>17.9%<br>3.9%<br>-1.5%  | 17.2%<br>11.2%<br>19.8%<br>3.4%<br>-1.3%  |
| 1999<br>2000<br>2001<br>2002   | <u>v</u>  | <u> </u>  | -4.3%  | -19.7%<br>-4.4%  |   | 4.2%   | 16.5%<br>5.5%   | 13.6%<br>16.7%<br>5.0%  | 17.4%<br>12.9%<br>17.9%<br>3.9%   | 17.2%<br>11.2%<br>19.8%<br>3.4%   |
| 1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005   | <u>v</u>  |   | -4.3%  | -19.7%<br>-4.4%  | -3.8%<br>-17.0%<br>-5.8%  | 4.2%<br>-1.8%<br>-17.1%<br>-3.8%   | 16.5%<br>5.5%<br>-2.3%<br>-15.6%<br>-4.2%   | 13.6%<br>16.7%<br>5.0%<br>-2.2%<br>-15.2%<br>-3.9%  | 17.4%<br>12.9%<br>17.9%<br>3.9%<br>-1.5%<br>-15.6%<br>-3.4%                           | 17.2%<br>11.2%<br>19.8%<br>3.4%<br>-1.3%<br>-15.9%<br>-4.9%                           |
| 1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006   |   | 5.7%  | -4.3%<br>10.7%   | -19.7%<br>-4.4%<br>11.7%   | -3.8%<br>-17.0%<br>-5.8%<br>13.0%   | 4.2%<br>-1.8%<br>-17.1%<br>-3.8%<br>11.1%  | 16.5%<br>5.5%<br>-2.3%<br>-15.6%<br>-4.2%<br>10.7%  | 13.6%<br>16.7%<br>5.0%<br>-2.2%<br>-15.2%<br>-3.9%<br>9.9%                                    | 17.4%<br>12.9%<br>17.9%<br>3.9%<br>-1.5%<br>-15.6%<br>-3.4%<br>8.1%                   | 17.2%<br>11.2%<br>19.8%<br>3.4%<br>-1.3%<br>-15.9%                                    |
| 1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007   | 5.8%  | 5.7%<br>12.2%   | -4.3%<br>10.7%<br>12.7%  | -19.7%<br>-4.4%<br>11.7%<br>14.0%  | -3.8%<br>-17.0%<br>-5.8%<br>13.0%<br>14.3%  | 4.2%<br>-1.8%<br>-17.1%<br>-3.8%<br>11.1%<br>14.4%                                   | 16.5%<br>5.5%<br>-2.3%<br>-15.6%<br>-4.2%<br>10.7%<br>14.4%                                   | 13.6%<br>16.7%<br>5.0%<br>-2.2%<br>-15.2%<br>-3.9%<br>9.9%<br>13.6%                           | 17.4%<br>12.9%<br>17.9%<br>3.9%<br>-1.5%<br>-15.6%<br>-3.4%<br>8.1%<br>13.3%          | 17.2%<br>11.2%<br>19.8%<br>3.4%<br>-1.3%<br>-15.9%<br>-4.9%<br>8.3%<br>12.7%          |
| 1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008   | 5.8%<br>7.4%  | 5.7%<br>12.2%<br>12.9%  | -4.3%<br>10.7%<br>12.7%<br>12.4%   | -19.7%<br>-4.4%<br>11.7%<br>14.0%<br>13.2%   | -3.8%<br>-17.0%<br>-5.8%<br>13.0%<br>14.3%<br>14.5%                                   | 4.2%<br>-1.8%<br>-17.1%<br>-3.8%<br>11.1%<br>14.4%<br>14.0%                          | 16.5%<br>5.5%<br>-2.3%<br>-15.6%<br>-4.2%<br>10.7%<br>14.4%<br>12.7%                          | 13.6%<br>16.7%<br>5.0%<br>-2.2%<br>-15.2%<br>-3.9%<br>9.9%<br>13.6%<br>12.0%                  | 17.4%<br>12.9%<br>17.9%<br>3.9%<br>-1.5%<br>-15.6%<br>-3.4%<br>8.1%<br>13.3%<br>11.3% | 17.2%<br>11.2%<br>19.8%<br>3.4%<br>-1.3%<br>-15.9%<br>-4.9%<br>8.3%                   |
| 1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009   | 5.8%<br>7.4%<br>12.9%   | 5.7%<br>12.2%<br>12.9%<br>11.5%   | -4.3%<br>10.7%<br>12.7%<br>12.4%<br>13.5%  | -19.7%<br>-4.4%<br>11.7%<br>14.0%<br>13.2%<br>13.7%  | -3.8%<br>-17.0%<br>-5.8%<br>13.0%<br>14.3%<br>14.5%<br>13.9%                          | 4.2%<br>-1.8%<br>-17.1%<br>-3.8%<br>11.1%<br>14.4%<br>14.0%<br>13.1%                 | 16.5%<br>5.5%<br>-2.3%<br>-15.6%<br>-4.2%<br>10.7%<br>14.4%<br>12.7%<br>12.1%                 | 13.6%<br>16.7%<br>5.0%<br>-2.2%<br>-15.2%<br>-3.9%<br>9.9%<br>13.6%<br>12.0%<br>11.1%         | 17.4%<br>12.9%<br>17.9%<br>3.9%<br>-1.5%<br>-15.6%<br>-3.4%<br>8.1%<br>13.3%          | 17.2%<br>11.2%<br>19.8%<br>3.4%<br>-1.3%<br>-15.9%<br>-4.9%<br>8.3%<br>12.7%          |
| 1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010   | 5.8%<br>7.4%<br>12.9%<br>1.8%   | 5.7%<br>12.2%<br>12.9%<br>11.5%<br>4.0%   | -4.3%<br>10.7%<br>12.7%<br>12.4%<br>13.5%<br>5.3%  | -19.7%<br>-4.4%<br>11.7%<br>14.0%<br>13.2%<br>13.7%<br>6.3%  | -3.8%<br>-17.0%<br>-5.8%<br>13.0%<br>14.3%<br>14.5%<br>13.9%<br>3.8%                  | 4.2%<br>-1.8%<br>-17.1%<br>-3.8%<br>11.1%<br>14.4%<br>14.0%<br>13.1%<br>2.9%         | 16.5%<br>5.5%<br>-2.3%<br>-15.6%<br>-4.2%<br>10.7%<br>14.4%<br>12.7%<br>12.1%<br>2.4%         | 13.6%<br>16.7%<br>5.0%<br>-2.2%<br>-15.2%<br>-3.9%<br>9.9%<br>13.6%<br>12.0%                  | 17.4%<br>12.9%<br>17.9%<br>3.9%<br>-1.5%<br>-15.6%<br>-3.4%<br>8.1%<br>13.3%<br>11.3% | 17.2%<br>11.2%<br>19.8%<br>3.4%<br>-1.3%<br>-15.9%<br>-4.9%<br>8.3%<br>12.7%          |
| 1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010<br>2011   | 5.8%<br>7.4%<br>12.9%<br>1.8%<br>3.9%   | 5.7%<br>12.2%<br>12.9%<br>11.5%<br>4.0%<br>8.2%   | -4.3%<br>10.7%<br>12.7%<br>12.4%<br>13.5%<br>5.3%<br>6.5%                                    | -19.7%<br>-4.4%<br>11.7%<br>14.0%<br>13.2%<br>13.7%<br>6.3%<br>4.6%                                  | -3.8%<br>-17.0%<br>-5.8%<br>13.0%<br>14.3%<br>14.5%<br>13.9%<br>3.8%<br>4.4%          | 4.2%<br>-1.8%<br>-17.1%<br>-3.8%<br>11.1%<br>14.4%<br>14.0%<br>13.1%<br>2.9%<br>3.2% | 16.5%<br>5.5%<br>-2.3%<br>-15.6%<br>-4.2%<br>10.7%<br>14.4%<br>12.7%<br>12.1%                 | 13.6%<br>16.7%<br>5.0%<br>-2.2%<br>-15.2%<br>-3.9%<br>9.9%<br>13.6%<br>12.0%<br>11.1%         | 17.4%<br>12.9%<br>17.9%<br>3.9%<br>-1.5%<br>-15.6%<br>-3.4%<br>8.1%<br>13.3%<br>11.3% | 17.2%<br>11.2%<br>19.8%<br>3.4%<br>-1.3%<br>-15.9%<br>-4.9%<br>8.3%<br>12.7%          |
| 1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010<br>2011<br>2012   | 5.8%<br>7.4%<br>12.9%<br>1.8%<br>3.9%<br>4.9%   | 5.7%<br>12.2%<br>12.9%<br>11.5%<br>4.0%<br>8.2%<br>0.8%                                   | -4.3%<br>10.7%<br>12.7%<br>12.4%<br>13.5%<br>5.3%<br>6.5%<br>-1.8%                           | -19.7%<br>-4.4%<br>11.7%<br>14.0%<br>13.2%<br>13.7%<br>6.3%<br>4.6%<br>-4.2%                         | -3.8%<br>-17.0%<br>-5.8%<br>13.0%<br>14.3%<br>14.5%<br>13.9%<br>3.8%<br>4.4%<br>-5.5% | 4.2%<br>-1.8%<br>-17.1%<br>-3.8%<br>11.1%<br>14.4%<br>14.0%<br>13.1%<br>2.9%         | 16.5%<br>5.5%<br>-2.3%<br>-15.6%<br>-4.2%<br>10.7%<br>14.4%<br>12.7%<br>12.1%<br>2.4%         | 13.6%<br>16.7%<br>5.0%<br>-2.2%<br>-15.2%<br>-3.9%<br>9.9%<br>13.6%<br>12.0%<br>11.1%         | 17.4%<br>12.9%<br>17.9%<br>3.9%<br>-1.5%<br>-15.6%<br>-3.4%<br>8.1%<br>13.3%<br>11.3% | 17.2%<br>11.2%<br>19.8%<br>3.4%<br>-1.3%<br>-15.9%<br>-4.9%<br>8.3%<br>12.7%          |
| 1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010<br>2011<br>2012<br>2013                                 | 5.8%<br>7.4%<br>12.9%<br>1.8%<br>3.9%<br>4.9%<br>0.7%                                   | 5.7%<br>12.2%<br>12.9%<br>11.5%<br>4.0%<br>8.2%<br>0.8%<br>-0.5%                          | -4.3%<br>10.7%<br>12.7%<br>13.5%<br>5.3%<br>6.5%<br>-1.8%<br>-2.9%                           | -19.7%<br>-4.4%<br>11.7%<br>14.0%<br>13.2%<br>13.7%<br>6.3%<br>4.6%<br>-4.2%<br>-3.7%                | -3.8%<br>-17.0%<br>-5.8%<br>13.0%<br>14.3%<br>14.5%<br>13.9%<br>3.8%<br>4.4%          | 4.2%<br>-1.8%<br>-17.1%<br>-3.8%<br>11.1%<br>14.4%<br>14.0%<br>13.1%<br>2.9%<br>3.2% | 16.5%<br>5.5%<br>-2.3%<br>-15.6%<br>-4.2%<br>10.7%<br>14.4%<br>12.7%<br>12.1%<br>2.4%         | 13.6%<br>16.7%<br>5.0%<br>-2.2%<br>-15.2%<br>-3.9%<br>9.9%<br>13.6%<br>12.0%<br>11.1%         | 17.4%<br>12.9%<br>17.9%<br>3.9%<br>-1.5%<br>-15.6%<br>-3.4%<br>8.1%<br>13.3%<br>11.3% | 17.2%<br>11.2%<br>19.8%<br>3.4%<br>-1.3%<br>-15.9%<br>-4.9%<br>8.3%<br>12.7%          |
| 1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010<br>2011<br>2012<br>2013<br>2014                         | 5.8%<br>7.4%<br>12.9%<br>1.8%<br>3.9%<br>4.9%<br>0.7%<br>-0.4%                          | 5.7%<br>12.2%<br>12.9%<br>11.5%<br>4.0%<br>8.2%<br>0.8%<br>-0.5%<br>-3.9%                 | -4.3%<br>10.7%<br>12.7%<br>12.4%<br>13.5%<br>5.3%<br>6.5%<br>-1.8%<br>-2.9%<br>-4.2%         | -19.7%<br>-4.4%<br>11.7%<br>14.0%<br>13.2%<br>13.7%<br>6.3%<br>4.6%<br>-4.2%                         | -3.8%<br>-17.0%<br>-5.8%<br>13.0%<br>14.3%<br>14.5%<br>13.9%<br>3.8%<br>4.4%<br>-5.5% | 4.2%<br>-1.8%<br>-17.1%<br>-3.8%<br>11.1%<br>14.4%<br>14.0%<br>13.1%<br>2.9%<br>3.2% | 16.5%<br>5.5%<br>-2.3%<br>-15.6%<br>-4.2%<br>10.7%<br>14.4%<br>12.7%<br>12.1%<br>2.4%         | 13.6%<br>16.7%<br>5.0%<br>-2.2%<br>-15.2%<br>-3.9%<br>9.9%<br>13.6%<br>12.0%<br>11.1%         | 17.4%<br>12.9%<br>17.9%<br>3.9%<br>-1.5%<br>-15.6%<br>-3.4%<br>8.1%<br>13.3%<br>11.3% | 17.2%<br>11.2%<br>19.8%<br>3.4%<br>-1.3%<br>-15.9%<br>-4.9%<br>8.3%<br>12.7%          |
| 1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010<br>2011<br>2012<br>2013<br>2014<br>2015                 | 5.8%<br>7.4%<br>12.9%<br>1.8%<br>3.9%<br>4.9%<br>0.7%<br>-0.4%<br>3.4%                  | 5.7%<br>12.2%<br>12.9%<br>11.5%<br>4.0%<br>8.2%<br>0.8%<br>-0.5%<br>-3.9%<br>0.5%         | -4.3%<br>10.7%<br>12.7%<br>13.5%<br>5.3%<br>6.5%<br>-1.8%<br>-2.9%                           | -19.7%<br>-4.4%<br>11.7%<br>14.0%<br>13.2%<br>13.7%<br>6.3%<br>4.6%<br>-4.2%<br>-3.7%                | -3.8%<br>-17.0%<br>-5.8%<br>13.0%<br>14.3%<br>14.5%<br>13.9%<br>3.8%<br>4.4%<br>-5.5% | 4.2%<br>-1.8%<br>-17.1%<br>-3.8%<br>11.1%<br>14.4%<br>14.0%<br>13.1%<br>2.9%<br>3.2% | 16.5%<br>5.5%<br>-2.3%<br>-15.6%<br>-4.2%<br>10.7%<br>14.4%<br>12.7%<br>12.1%<br>2.4%         | 13.6%<br>16.7%<br>5.0%<br>-2.2%<br>-15.2%<br>-3.9%<br>9.9%<br>13.6%<br>12.0%<br>11.1%         | 17.4%<br>12.9%<br>17.9%<br>3.9%<br>-1.5%<br>-15.6%<br>-3.4%<br>8.1%<br>13.3%<br>11.3% | 17.2%<br>11.2%<br>19.8%<br>3.4%<br>-1.3%<br>-15.9%<br>-4.9%<br>8.3%<br>12.7%          |
| 1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010<br>2011<br>2012<br>2013<br>2014<br>2015<br>2016         | 5.8%<br>7.4%<br>12.9%<br>1.8%<br>3.9%<br>4.9%<br>0.7%<br>-0.4%<br>3.4%<br>-0.5%         | 5.7%<br>12.2%<br>12.9%<br>11.5%<br>4.0%<br>8.2%<br>0.8%<br>-0.5%<br>-3.9%                 | -4.3%<br>10.7%<br>12.7%<br>12.4%<br>13.5%<br>5.3%<br>6.5%<br>-1.8%<br>-2.9%<br>-4.2%         | -19.7%<br>-4.4%<br>11.7%<br>14.0%<br>13.2%<br>13.7%<br>6.3%<br>4.6%<br>-4.2%<br>-3.7%                | -3.8%<br>-17.0%<br>-5.8%<br>13.0%<br>14.3%<br>14.5%<br>13.9%<br>3.8%<br>4.4%<br>-5.5% | 4.2%<br>-1.8%<br>-17.1%<br>-3.8%<br>11.1%<br>14.4%<br>14.0%<br>13.1%<br>2.9%<br>3.2% | 16.5%<br>5.5%<br>-2.3%<br>-15.6%<br>-4.2%<br>10.7%<br>14.4%<br>12.7%<br>12.1%<br>2.4%         | 13.6%<br>16.7%<br>5.0%<br>-2.2%<br>-15.2%<br>-3.9%<br>9.9%<br>13.6%<br>12.0%<br>11.1%         | 17.4%<br>12.9%<br>17.9%<br>3.9%<br>-1.5%<br>-15.6%<br>-3.4%<br>8.1%<br>13.3%<br>11.3% | 17.2%<br>11.2%<br>19.8%<br>3.4%<br>-1.3%<br>-15.9%<br>-4.9%<br>8.3%<br>12.7%          |
| 1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010<br>2011<br>2012<br>2013<br>2014<br>2015                 | 5.8%<br>7.4%<br>12.9%<br>1.8%<br>3.9%<br>4.9%<br>0.7%<br>-0.4%<br>3.4%                  | 5.7%<br>12.2%<br>12.9%<br>11.5%<br>4.0%<br>8.2%<br>0.8%<br>-0.5%<br>-3.9%<br>0.5%         | -4.3%<br>10.7%<br>12.7%<br>12.4%<br>13.5%<br>5.3%<br>6.5%<br>-1.8%<br>-2.9%<br>-4.2%         | -19.7%<br>-4.4%<br>11.7%<br>14.0%<br>13.2%<br>13.7%<br>6.3%<br>4.6%<br>-4.2%<br>-3.7%                | -3.8%<br>-17.0%<br>-5.8%<br>13.0%<br>14.3%<br>14.5%<br>13.9%<br>3.8%<br>4.4%<br>-5.5% | 4.2%<br>-1.8%<br>-17.1%<br>-3.8%<br>11.1%<br>14.4%<br>14.0%<br>13.1%<br>2.9%<br>3.2% | 16.5%<br>5.5%<br>-2.3%<br>-15.6%<br>-4.2%<br>10.7%<br>14.4%<br>12.7%<br>12.1%<br>2.4%         | 13.6%<br>16.7%<br>5.0%<br>-2.2%<br>-15.2%<br>-3.9%<br>9.9%<br>13.6%<br>12.0%<br>11.1%         | 17.4%<br>12.9%<br>17.9%<br>3.9%<br>-1.5%<br>-15.6%<br>-3.4%<br>8.1%<br>13.3%<br>11.3% | 17.2%<br>11.2%<br>19.8%<br>3.4%<br>-1.3%<br>-15.9%<br>-4.9%<br>8.3%<br>12.7%          |
| 1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2010<br>2011<br>2012<br>2013<br>2014<br>2015<br>2016<br>2017         | 5.8%<br>7.4%<br>12.9%<br>1.8%<br>3.9%<br>4.9%<br>0.7%<br>-0.4%<br>3.4%<br>-0.5%<br>2.7% | 5.7%<br>12.2%<br>12.9%<br>11.5%<br>4.0%<br>8.2%<br>0.8%<br>-0.5%<br>-3.9%<br>0.5%<br>0.1% | -4.3%<br>10.7%<br>12.7%<br>12.4%<br>13.5%<br>5.3%<br>6.5%<br>-1.8%<br>-2.9%<br>-4.2%<br>0.3% | -19.7%<br>-4.4%<br>11.7%<br>14.0%<br>13.2%<br>13.7%<br>6.3%<br>4.6%<br>-4.2%<br>-3.7%<br>-4.4%       | -3.8%<br>-17.0%<br>-5.8%<br>13.0%<br>14.3%<br>14.5%<br>13.9%<br>3.8%<br>4.4%<br>-5.5% | 4.2%<br>-1.8%<br>-17.1%<br>-3.8%<br>11.1%<br>14.4%<br>13.1%<br>2.9%<br>3.2%<br>-5.6% | 16.5%<br>5.5%<br>-2.3%<br>-15.6%<br>-4.2%<br>10.7%<br>14.4%<br>12.7%<br>12.1%<br>2.4%<br>2.4% | 13.6%<br>16.7%<br>5.0%<br>-2.2%<br>-15.2%<br>-3.9%<br>9.9%<br>13.6%<br>12.0%<br>11.1%<br>1.8% | 17.4%<br>12.9%<br>17.9%<br>3.9%<br>-1.5%<br>-15.6%<br>-3.4%<br>8.1%<br>13.3%<br>10.7% | 17.2%<br>11.2%<br>19.8%<br>3.4%<br>-1.3%<br>-15.9%<br>-4.9%<br>8.3%<br>12.7%<br>10.9% |
| 1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010<br>2011<br>2012<br>2013<br>2014<br>2015<br>2016<br>2017 | 5.8% 7.4% 12.9% 1.8% 3.9% 4.9% 0.7% -0.4% 2.7%  | 5.7%<br>12.2%<br>12.9%<br>11.5%<br>4.0%<br>8.2%<br>0.8%<br>-0.5%<br>-3.9%<br>0.5%<br>0.1% | -4.3%<br>10.7%<br>12.7%<br>12.4%<br>13.5%<br>5.3%<br>6.5%<br>-1.8%<br>-2.9%<br>-4.2%<br>0.3% | -19.7%<br>-4.4%<br>11.7%<br>14.0%<br>13.2%<br>13.7%<br>6.3%<br>4.6%<br>-4.2%<br>-4.4%<br>Anr<br>5.0% | -3.8%<br>-17.0%<br>-5.8%<br>13.0%<br>14.5%<br>13.9%<br>3.8%<br>4.4%<br>-5.5%<br>-4.9% | 4.2%<br>-1.8%<br>-17.1%<br>-3.8%<br>11.1%<br>14.4%<br>13.1%<br>2.9%<br>3.2%<br>-5.6% | 16.5%<br>5.5%<br>-2.3%<br>-15.6%<br>-4.2%<br>10.7%<br>14.4%<br>12.7%<br>12.1%<br>2.4%<br>2.4% | 13.6%<br>16.7%<br>5.0%<br>-2.2%<br>-15.2%<br>-3.9%<br>9.9%<br>13.6%<br>12.0%<br>11.1%<br>1.8% | 17.4%<br>12.9%<br>17.9%<br>3.9%<br>-1.5%<br>-15.6%<br>-3.4%<br>8.1%<br>13.3%<br>10.7% | 17.2%<br>11.2%<br>19.8%<br>3.4%<br>-1.3%<br>-15.9%<br>-4.9%<br>8.3%<br>12.7%<br>10.9% |
| 1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2010<br>2011<br>2012<br>2013<br>2014<br>2015<br>2016<br>2017         | 5.8%<br>7.4%<br>12.9%<br>1.8%<br>3.9%<br>4.9%<br>0.7%<br>-0.4%<br>3.4%<br>-0.5%<br>2.7% | 5.7%<br>12.2%<br>12.9%<br>11.5%<br>4.0%<br>8.2%<br>0.8%<br>-0.5%<br>-3.9%<br>0.5%<br>0.1% | -4.3%<br>10.7%<br>12.7%<br>12.4%<br>13.5%<br>5.3%<br>6.5%<br>-1.8%<br>-2.9%<br>-4.2%<br>0.3% | -19.7%<br>-4.4%<br>11.7%<br>14.0%<br>13.2%<br>13.7%<br>6.3%<br>4.6%<br>-4.2%<br>-3.7%<br>-4.4%       | -3.8%<br>-17.0%<br>-5.8%<br>13.0%<br>14.5%<br>13.9%<br>3.8%<br>4.4%<br>-5.5%<br>-4.9% | 4.2%<br>-1.8%<br>-17.1%<br>-3.8%<br>11.1%<br>14.4%<br>13.1%<br>2.9%<br>3.2%<br>-5.6% | 16.5%<br>5.5%<br>-2.3%<br>-15.6%<br>-4.2%<br>10.7%<br>14.4%<br>12.7%<br>12.1%<br>2.4%<br>2.4% | 13.6%<br>16.7%<br>5.0%<br>-2.2%<br>-15.2%<br>-3.9%<br>9.9%<br>13.6%<br>12.0%<br>11.1%<br>1.8% | 17.4%<br>12.9%<br>17.9%<br>3.9%<br>-1.5%<br>-15.6%<br>-3.4%<br>8.1%<br>13.3%<br>10.7% | 17.2%<br>11.2%<br>19.8%<br>3.4%<br>-1.3%<br>-15.9%<br>-4.9%<br>8.3%<br>12.7%<br>10.9% |

Note: All figures in each calendar year diagonal 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 76% to 100% of the total California workers' compensation insured market measured using 2016 earned premium levels).

-0.7%

0.042

3.2%

0.595

7.3%

0.902

9.9%

0.960

11.1%

0.998

7.3%

0.856

-2.5%

0.651

-2.4%

0.203

Source: WCIRB quarterly calls for experience

-1.1%

0.733

5-Year

 $R^2$ 

1.3%

1.000

<sup>\*</sup>Trend is based on an exponential distribution.

# Average Indemnity Case Outstanding per Open Indemnity Claim As of September 30, 2017

| Accident   |  |  |  | Evalu  | uated as o   | of (in mon   | ths):  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|
| Year   | 9  | <u>21</u>  | 33   | <u>45</u>  | <u>57</u>  | 69   | <u>81</u>  | 93   | <u>105</u>   | <u>117</u>   |
| 1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010<br>2011<br>2012<br>2013<br>2014<br>2015<br>2016 | 9,767<br>10,315<br>9,764<br>7,427<br>6,940<br>6,675<br>6,820<br>7,106<br>7,079<br>7,191<br>7,453<br>7,646<br>7,724<br>8,156<br>8,258 | 15,628<br>15,951<br>14,967<br>12,428<br>9,236<br>9,731<br>10,198<br>10,842<br>11,404<br>11,047<br>11,751<br>11,685<br>11,573<br>11,857<br>12,628<br>13,033 | 20,473<br>19,759<br>17,718<br>15,526<br>12,780<br>10,936<br>12,026<br>13,120<br>13,793<br>13,932<br>13,908<br>14,100<br>14,167<br>13,872<br>14,482<br>15,989 | 23,000<br>23,031<br>19,962<br>16,620<br>15,044<br>13,935<br>12,156<br>14,282<br>15,597<br>16,180<br>16,217<br>15,494<br>16,425<br>15,594<br>15,425<br>16,508 | 25,987<br>26,157<br>23,912<br>19,446<br>16,051<br>16,306<br>14,367<br>16,621<br>17,375<br>17,882<br>18,247<br>17,321<br>18,360<br>17,803<br>16,707 | 28,264<br>29,733<br>27,549<br>23,483<br>19,590<br>17,483<br>17,472<br>16,568<br>19,569<br>19,401<br>19,777<br>20,429<br>19,065<br>20,194<br>19,719 | 29,218<br>31,521<br>32,159<br>27,970<br>24,071<br>20,817<br>18,067<br>20,268<br>19,073<br>20,244<br>21,985<br>22,285<br>22,476<br>22,324<br>21,132<br>22,386 | 27,210<br>32,234<br>33,022<br>31,982<br>28,517<br>25,009<br>22,003<br>19,094<br>22,603<br>22,476<br>23,590<br>24,573<br>25,905<br>25,104<br>24,897<br>23,933 | 25,768<br>30,349<br>33,525<br>32,001<br>32,347<br>30,243<br>25,799<br>20,319<br>26,270<br>24,616<br>25,586<br>26,250<br>27,708<br>29,004<br>27,750 | 23,262<br>27,837<br>31,095<br>32,227<br>34,992<br>33,601<br>31,186<br>26,829<br>24,806<br>22,330<br>30,089<br>27,489<br>27,507<br>27,680<br>30,135<br>31,581 |
| 2017<br>Accident   | 8,573  |  |  |  | Anr  | nual Char  | iae  |  |  |  |
| Year Year  | 9  | <u>21</u>  | <u>33</u>  | <u>45</u>  | <u>57</u>  | <u>69</u>  | 81   | 93   | <u>105</u>   | 117  |
| 1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010<br>2011<br>2012<br>2013<br>2014<br>2015<br>2016<br>2017 | 5.6%<br>-5.3%<br>-23.9%<br>-6.6%<br>-3.8%<br>2.2%<br>4.2%<br>-0.4%<br>1.6%<br>3.6%<br>2.6%<br>1.0%<br>5.6%<br>1.2%<br>3.8%           | 2.1%<br>-6.2%<br>-17.0%<br>-25.7%<br>5.4%<br>4.8%<br>6.3%<br>5.2%<br>-3.1%<br>6.4%<br>-0.6%<br>-1.0%<br>2.5%<br>6.5%<br>3.2%                               | -3.5%<br>-10.3%<br>-12.4%<br>-17.7%<br>-14.4%<br>10.0%<br>-1.4%<br>-0.2%<br>1.4%<br>0.5%<br>-2.1%<br>4.4%<br>10.4%   | 0.1%<br>-13.3%<br>-16.7%<br>-9.5%<br>-7.4%<br>-12.8%<br>17.5%<br>9.2%<br>3.7%<br>0.2%<br>-4.5%<br>6.0%<br>-5.1%<br>-1.1%<br>7.0%                             | 0.7% -8.6% -18.7% -17.5% 1.6% -7.7% -4.6% 15.7% 4.5% 2.9% 2.0% -5.1% 6.0% -3.0% -6.2%  | 5.2%<br>-7.3%<br>-14.8%<br>-16.6%<br>-10.8%<br>-2.2%<br>-5.2%<br>18.1%<br>-0.9%<br>1.9%<br>-6.7%<br>5.9%<br>-2.4%                                  | 7.9%<br>2.0%<br>-13.0%<br>-13.5%<br>-13.2%<br>-5.9%<br>6.1%<br>8.6%<br>1.4%<br>-0.7%<br>-5.3%<br>5.9%  | 18.5%<br>2.4%<br>-3.1%<br>-12.3%<br>-12.0%<br>-13.2%<br>18.4%<br>-0.6%<br>5.0%<br>4.2%<br>5.4%<br>-3.1%<br>-3.1%<br>-3.9%                                    | 17.8% 10.5% -4.5% 1.1% -6.5% -14.7% -8.1% -14.3% 29.3% -6.3% 3.9% 2.6% 4.7% -4.3%  | 19.7% 11.7% 3.6% 8.6% -4.0% -7.2% -14.0% 34.7% -8.6% 0.1% 0.6% 8.9% 4.8%   |
|  |  |  |  | An   | nuai iren  | ıa"  |  |  |  |  |
| All-Yr   | -0.7%  | -0.9%  | -1.3%  | -1.6%  | -2.0%  | -2.2%  | -2.2%  | -1.6%  | -0.9%  | -0.1%  |
| R <sup>2</sup>   | 0.069  | 0.073  | 0.139  | 0.214  | 0.286  | 0.344  | 0.370  | 0.277  | 0.109  | 0.001  |
| 5-Year<br>R <sup>2</sup>   | 3.0%<br>1.000  | 3.1%<br>0.948  | 2.8%<br>0.523  | 0.6%<br>0.350  | -1.5%<br>0.265   | -0.2%<br>0.000   | -0.5%<br>0.059   | -0.9%<br>0.245   | 2.7%<br>0.359  | 3.8%<br>0.987  |

Note: All figures in each calendar year diagonal contain information from the same combination of insurers, all of whom submitted complete data for all evaluations for a given accident year. Therefore, each accident year may contain a different mix of insurers (ranging from 58% to 100% of the total California workers' compensation insured market measured using 2016 earned premium levels).

<sup>\*</sup>Trend is based on an exponential distribution.

# Average Medical Case Outstanding per Open Indemnity Claim As of September 30, 2017

| Accident   |   |  |  |                         | Evaluated   | l 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>   | <u>93</u>  | <u>105</u>  | <u>117</u>  |
| _  | 11,392<br>12,141<br>11,703<br>12,288<br>11,516<br>12,550<br>12,833<br>13,933<br>14,1659<br>15,504<br>14,767<br>14,769<br>15,598 | 12,796<br>13,736<br>13,199<br>12,509<br>13,220<br>14,550<br>15,733<br>17,088<br>17,653<br>17,747<br>19,335<br>19,335<br>19,335<br>18,844<br>18,234<br>18,664 | 15,396<br>15,871<br>15,323<br>14,677<br>13,894<br>16,511<br>18,747<br>20,288<br>21,056<br>22,210<br>22,650<br>23,699<br>23,297<br>22,158<br>21,279<br>23,159 |                         |   | •  |   | 93<br>37,458<br>38,346<br>43,769<br>47,689<br>44,575<br>45,572<br>40,868<br>40,266<br>43,682<br>47,564<br>51,691<br>54,461<br>58,313<br>58,303<br>56,004<br>50,384 | 105<br>37,360<br>48,126<br>43,960<br>50,291<br>55,909<br>58,592<br>54,456<br>54,106<br>49,217<br>55,626<br>56,566<br>62,440<br>63,186<br>66,583<br>67,402<br>63,324 | 117<br>42,293<br>45,421<br>55,212<br>48,579<br>59,664<br>70,422<br>71,569<br>61,882<br>66,338<br>60,343<br>68,231<br>68,665<br>68,758<br>70,057<br>74,658<br>73,840 |
| 2016<br>2017<br>Accident   | 15,560<br>16,832  | 19,381   | 20,100   |                         | Anr   | nual Chan  | qe  |  |   |   |
| 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>  |
| 1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2010<br>2011<br>2012<br>2013<br>2014<br>2015<br>2016<br>2017 | 6.6%<br>-3.6%<br>5.0%<br>-6.3%<br>9.0%<br>2.3%<br>1.5%<br>3.7%<br>5.8%<br>-4.7%<br>0.2%<br>5.4%<br>-0.2%<br>8.2%                | 7.4%<br>-3.9%<br>-5.2%<br>5.7%<br>10.1%<br>8.1%<br>8.6%<br>3.3%<br>0.5%<br>9.0%<br>-2.5%<br>-3.2%<br>2.4%<br>3.8%  | 3.1% -3.5% -4.2% -5.3% 18.8% 13.5% 8.2% 3.8% 5.5% 2.0% 4.6% -1.7% -4.9% -4.0% 8.8%   | -6.8%<br>-3.5%<br>-3.2% | -1.1%<br>-0.5%<br>-11.6%<br>-8.0%<br>3.4%<br>14.6%<br>5.2%<br>9.4%<br>2.8%<br>-2.6%<br>10.2%<br>-11.1%<br>-5.5% | 27.7% -8.0% -6.0% -10.8% -5.2% 10.6% 8.9% 10.2% 6.3% 3.6% -3.2% 6.0% -8.1% | 11.4%<br>18.3%<br>-61.7%<br>-6.1%<br>-1.0%<br>11.6%<br>7.5%<br>8.7%<br>5.9%<br>9.6%<br>1.1%<br>-2.5%<br>-4.5%<br>4.8% | 2.4%<br>14.1%<br>9.0%<br>-6.5%<br>2.2%<br>-10.3%<br>-1.5%<br>8.5%<br>8.7%<br>5.4%<br>7.1%<br>0.0%<br>-3.9%<br>-10.0%   | 28.8% -8.7% 14.4% 11.2% -7.1% -0.6% -9.0% 13.0% 1.7% 10.4% 1.2% -6.0%   | 7.4%<br>21.6%<br>-12.0%<br>22.8%<br>18.0%<br>-13.5%<br>-9.0%<br>13.1%<br>0.6%<br>0.1%<br>1.9%<br>6.6%<br>-1.1%  |
|  |   |  |  |                         |   |  |   |  |   |   |
| All-Yr<br>R <sup>2</sup>   | 2.6%<br>0.916   | 3.3%<br>0.851  | 3.6%<br>0.781  | 3.6%<br>0.727           | 3.3%<br>0.623   | 2.9%<br>0.604  | 2.6%<br>0.618   | 2.5%<br>0.677  | 2.9%<br>0.741   | 3.1%<br>0.687   |
| 5-Year<br>R <sup>2</sup>   | 3.2%<br>0.858   | 0.0%<br>0.001  | -1.4%<br>0.243   | -2.9%<br>0.735          | -2.2%<br>0.316  | -0.9%<br>0.194   | -1.0%<br>0.337  | -1.9%<br>0.262   | 0.9%<br>0.181   | 2.3%<br>0.814   |

Note: All figures in each calendar year diagonal contain information from the same combination of insurers, all of whom submitted complete data for all evaluations for a given accident year. Therefore, each accident year may contain a different mix of insurers (ranging from 78% to 100% of the total California workers' compensation insured market measured using 2016 earned premium levels).

\*Trend is based on an exponential distribution.

# Average Paid Indemnity Loss per Reported Indemnity Claim As of September 30, 2017

| Accident       |                |                |                 | Evalu            | uated as c       | of (in mon       | ths):            |                  |                  |                  |
|----------------|----------------|----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Year           | <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>       |
| 1993           |                |                |                 |                  |                  |                  |                  |                  |                  | 11,234           |
| 1994           |                |                |                 |                  |                  |                  |                  |                  | 11,658           | 11,802           |
| 1995           |                |                |                 |                  |                  |                  |                  | 12,944           | 13,233           | 13,447           |
| 1996           |                |                |                 |                  |                  |                  | 14,191           | 14,711           | 15,093           | 15,385           |
| 1997           |                |                |                 |                  |                  | 15,437           | 16,250           | 16,880           | 17,294           | 17,506           |
| 1998           |                |                |                 |                  | 15,588           | 16,897           | 17,887           | 18,578           | 18,987           | 19,387           |
| 1999           |                |                |                 | 14,585           | 16,890           | 18,523           | 19,581           | 20,211           | 20,744           | 21,149           |
| 2000           |                |                | 11,358          | 15,291           | 17,903           | 19,518           | 20,476           | 21,302           | 21,879           | 22,286           |
| 2001           | 4 000          | 6,152          | 12,106          | 16,560           | 19,553           | 21,277           | 22,496           | 23,323           | 23,936           | 24,381           |
| 2002           | 1,968          | 6,138          | 11,907          | 16,172           | 18,756           | 20,338           | 21,426           | 22,178           | 22,682           | 23,097           |
| 2003           | 2,035          | 6,278          | 12,098          | 16,165           | 18,598           | 20,140           | 21,164           | 21,881           | 22,480           | 23,024           |
| 2004           | 1,959          | 5,935          | 10,040          | 12,938           | 14,698           | 15,901           | 16,780           | 17,518           | 18,160           | 18,749           |
| 2005           | 1,888          | 5,446          | 8,886           | 11,335           | 12,957           | 14,076           | 14,932           | 15,672           | 16,365           | 16,883           |
| 2006<br>2007   | 2,017<br>2,122 | 5,715<br>6,176 | 9,622<br>10,325 | 12,171<br>13,200 | 13,983<br>15,245 | 15,340<br>16,762 | 16,442<br>17,945 | 17,297<br>18,861 | 17,972<br>19,482 | 18,429<br>20,057 |
| 2007           | 2,320          | 6,698          | 11,209          | 14,639           | 17,075           | 18,790           | 19,995           | 20,870           | 21,475           | 21,957           |
| 2009           | 2,365          | 6,730          | 11,550          | 15,161           | 17,734           | 19,532           | 20,822           | 21,741           | 22,456           | 21,337           |
| 2010           | 2,332          | 6,707          | 11,515          | 15,191           | 17,794           | 19,408           | 20,627           | 21,454           | 22,400           |                  |
| 2011           | 2,369          | 6,807          | 11,681          | 15,148           | 17,496           | 19,103           | 20,238           | 21,101           |                  |                  |
| 2012           | 2,454          | 6,907          | 11,662          | 15,090           | 17,314           | 18,988           | 20,200           |                  |                  |                  |
| 2013           | 2,462          | 6,917          | 11,699          | 15,184           | 17,379           | -,               |                  |                  |                  |                  |
| 2014           | 2,441          | 7,030          | 12,229          | 15,839           | ,                |                  |                  |                  |                  |                  |
| 2015           | 2,484          | 7,364          | 12,684          |                  |                  |                  |                  |                  |                  |                  |
| 2016           | 2,628          | 7,551          |                 |                  |                  |                  |                  |                  |                  |                  |
| 2017           | 2,655          |                |                 |                  |                  |                  |                  |                  |                  |                  |
|                |                |                |                 |                  |                  |                  |                  |                  |                  |                  |
| Accident_      | 9              | <u>21</u>      | <u>33</u>       | <u>45</u>        | Anr<br><u>57</u> | nual Chan        |                  | 93               | 105              | <u>117</u>       |
| <u>Year</u>    | <u>9</u>       | <u> 21</u>     | <u> 33</u>      | 43               | <u>37</u>        | <u>69</u>        | <u>81</u>        | 93               | 105              |                  |
| 1994           |                |                |                 |                  |                  |                  |                  |                  |                  | 5.1%             |
| 1995           |                |                |                 |                  |                  |                  |                  | 40 -01           | 13.5%            | 13.9%            |
| 1996           |                |                |                 |                  |                  |                  |                  | 13.7%            | 14.1%            | 14.4%            |
| 1997           |                |                |                 |                  |                  | 0.50/            | 14.5%            | 14.7%            | 14.6%            | 13.8%            |
| 1998           |                |                |                 |                  | 0.40/            | 9.5%             | 10.1%            | 10.1%            | 9.8%             | 10.7%            |
| 1999           |                |                |                 | 4.00/            | 8.4%             | 9.6%             | 9.5%             | 8.8%             | 9.3%             | 9.1%             |
| 2000           |                |                | 6.6%            | 4.8%<br>8.3%     | 6.0%<br>9.2%     | 5.4%             | 4.6%<br>9.9%     | 5.4%<br>9.5%     | 5.5%             | 5.4%<br>9.4%     |
| 2001<br>2002   |                | -0.2%          | -1.6%           | -2.3%            | -4.1%            | 9.0%<br>-4.4%    | -4.8%            | -4.9%            | 9.4%<br>-5.2%    |                  |
| 2002           | 3.4%           | 2.3%           | 1.6%            | 0.0%             | -4.1%            | -4.4%            | -4.6%            | -4.9%            | -5.2%<br>-0.9%   | -5.3%<br>-0.3%   |
| 2003           | -3.7%          | -5.5%          | -17.0%          | -20.0%           | -21.0%           | -21.0%           | -20.7%           | -19.9%           | -19.2%           | -18.6%           |
| 2005           | -3.6%          | -8.2%          | -11.5%          | -12.4%           | -11.8%           | -11.5%           | -11.0%           | -10.5%           | -9.9%            | -10.0%           |
| 2006           | 6.8%           | 4.9%           | 8.3%            | 7.4%             | 7.9%             | 9.0%             | 10.1%            | 10.4%            | 9.8%             | 9.2%             |
| 2007           | 5.2%           | 8.1%           | 7.3%            | 8.5%             | 9.0%             | 9.3%             | 9.1%             | 9.0%             | 8.4%             | 8.8%             |
| 2008           | 9.3%           | 8.5%           | 8.6%            | 10.9%            | 12.0%            | 12.1%            | 11.4%            | 10.6%            | 10.2%            | 9.5%             |
| 2009           | 1.9%           | 0.5%           | 3.0%            | 3.6%             | 3.9%             | 3.9%             | 4.1%             | 4.2%             | 4.6%             |                  |
| 2010           | -1.4%          | -0.3%          | -0.3%           | 0.2%             | -0.2%            | -0.6%            | -0.9%            | -1.3%            |                  |                  |
| 2011           | 1.6%           | 1.5%           | 1.4%            | -0.3%            | -1.1%            | -1.6%            | -1.9%            |                  |                  |                  |
| 2012           | 3.6%           | 1.5%           | -0.2%           | -0.4%            | -1.0%            | -0.6%            |                  |                  |                  |                  |
| 2013           | 0.3%           | 0.1%           | 0.3%            | 0.6%             | 0.4%             |                  |                  |                  |                  |                  |
| 2014           | -0.8%          | 1.6%           | 4.5%            | 4.3%             |                  |                  |                  |                  |                  |                  |
| 2015           | 1.7%           | 4.8%           | 3.7%            |                  |                  |                  |                  |                  |                  |                  |
| 2016           | 5.8%           | 2.5%           |                 |                  |                  |                  |                  |                  |                  |                  |
| 2017           | 1.0%           |                |                 |                  |                  |                  |                  |                  |                  |                  |
|                |                |                |                 | Δn               | nual Tren        | <b>d</b> *       |                  |                  |                  |                  |
| All-Yr         | 2.2%           | 1.6%           | 0.6%            | 0.1%             | 0.0%             | 0.4%             | 1.0%             | 1.7%             | 2.6%             | 3.4%             |
| R <sup>2</sup> | 0.892          | 0.703          | 0.094           | 0.002            | 0.000            | 0.020            | 0.107            | 0.235            | 0.358            | 0.451            |
|                |                |                |                 |                  |                  |                  |                  |                  |                  |                  |
| 5-Year         | 2.3%           | 2.4%           | 2.1%            | 0.9%             | -0.6%            | 0.0%             | 2.8%             | 5.9%             | 8.4%             | 5.0%             |
| $R^2$          | 0.825          | 0.903          | 0.803           | 0.462            | 0.854            | 0.000            | 0.515            | 0.859            | 0.988            | 0.617            |

Note: All figures in each calendar year diagonal contain information from the same combination of insurers, all of whom submitted complete data for all evaluations for a given accident year.

Therefore, each accident year may contain a different mix of insurers (ranging from 58% to 100% of the total California workers' compensation insured market measured using 2016 earned premium levels).

\*Trend is based on an exponential distribution.

# Average Paid Medical Loss per Indemnity Claim As of September 30, 2017

| Accident       |          |           |           |           | Evaluated | l 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> |
| 2000           |          |           |           |           |           |             |           |           |            | 19,848     |
| 2001           |          |           |           |           |           |             |           |           | 22,417     | 23,327     |
| 2002           |          |           |           |           |           |             |           | 21,810    | 22,741     | 23,498     |
| 2003           |          |           |           |           |           |             | 19,815    | 20,944    | 21,897     | 22,751     |
| 2004           |          |           |           |           |           | 16,491      | 17,835    | 18,999    | 20,081     | 21,100     |
| 2005           |          |           |           |           | 15,147    | 16,841      | 18,295    | 19,470    | 20,844     | 21,791     |
| 2006           |          |           |           | 14,523    | 17,001    | 18,949      | 20,610    | 22,040    | 23,199     | 24,049     |
| 2007           |          |           | 12,618    | 16,208    | 18,953    | 21,252      | 23,280    | 24,885    | 26,024     | 26,950     |
| 2008           |          | 8,974     | 13,852    | 17,861    | 21,129    | 23,827      | 25,857    | 27,337    | 28,440     | 29,264     |
| 2009           | 3,597    | 9,273     | 14,478    | 18,957    | 22,669    | 25,475      | 27,433    | 28,871    | 29,890     | 20,20      |
| 2010           | 3,615    | 9,154     | 14,468    | 19,281    | 22,857    | 25,368      | 27,247    | 28,560    | 20,000     |            |
| 2011           | 3,187    | 8,569     | 13,909    | 18,264    | 21,390    | 23,789      | 25,390    | 20,000    |            |            |
| 2012           | 3,103    | 8,417     | 13,401    | 17,375    | 20,173    | 22,259      | 20,000    |           |            |            |
| 2013           | 3,277    | 8,087     | 12,787    | 16,461    | 19,023    | ,           |           |           |            |            |
| 2014           | 3,059    | 7,917     | 12,557    | 16,059    | .0,020    |             |           |           |            |            |
| 2015           | 3,173    | 7,999     | 12,568    | . 0,000   |           |             |           |           |            |            |
| 2016           | 3,243    | 8,196     | ,000      |           |           |             |           |           |            |            |
| 2017           | 3,440    | 0,.00     |           |           |           |             |           |           |            |            |
|                | -, -     |           |           |           |           |             |           |           |            |            |
| Accident       |          |           |           |           |           | nual Chan   |           |           |            |            |
| <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           |          |           |           |           |           |             |           |           |            | 17.5%      |
| 2002           |          |           |           |           |           |             |           |           | 1.4%       | 0.7%       |
| 2003           |          |           |           |           |           |             |           | -4.0%     | -3.7%      | -3.2%      |
| 2004           |          |           |           |           |           |             | -10.0%    | -9.3%     | -8.3%      | -7.3%      |
| 2005           |          |           |           |           |           | 2.1%        | 2.6%      | 2.5%      | 3.8%       | 3.3%       |
| 2006           |          |           |           |           | 12.2%     | 12.5%       | 12.7%     | 13.2%     | 11.3%      | 10.4%      |
| 2007           |          |           |           | 11.6%     | 11.5%     | 12.2%       | 13.0%     | 12.9%     | 12.2%      | 12.1%      |
| 2008           |          |           | 9.8%      | 10.2%     | 11.5%     | 12.1%       | 11.1%     | 9.9%      | 9.3%       | 8.6%       |
| 2009           |          | 3.3%      | 4.5%      | 6.1%      | 7.3%      | 6.9%        | 6.1%      | 5.6%      | 5.1%       |            |
| 2010**         | 0.5%     | -1.3%     | -0.1%     | 1.7%      | 0.8%      | -0.4%       | -0.7%     | -1.1%     |            |            |
| 2011**         | -11.8%   | -6.4%     | -3.9%     | -5.3%     | -6.4%     | -6.2%       | -6.8%     |           |            |            |
| 2012           | -2.6%    | -1.8%     | -3.7%     | -4.9%     | -5.7%     | -6.4%       |           |           |            |            |
| 2013           | 5.6%     | -3.9%     | -4.6%     | -5.3%     | -5.7%     |             |           |           |            |            |
| 2014           | -6.6%    | -2.1%     | -1.8%     | -2.4%     |           |             |           |           |            |            |
| 2015           | 3.7%     | 1.0%      | 0.1%      |           |           |             |           |           |            |            |
| 2016           | 2.2%     | 2.5%      |           |           |           |             |           |           |            |            |
| 2017           | 6.1%     |           |           |           |           |             |           |           |            |            |
|                |          |           |           | _         |           |             |           |           |            |            |
| A II 37.       | 0.00′    | 4.00′     | 4.40′     |           | nual Tren |             | F 70'     | F 00'     | 0.001      | 0.464      |
| All-Yr         | -0.9%    | -1.9%     | -1.1%     | 0.6%      | 3.0%      | 5.1%        | 5.7%      | 5.2%      | 3.9%       | 3.4%       |
| $R^2$          | 0.154    | 0.773     | 0.236     | 0.032     | 0.344     | 0.671       | 0.784     | 0.722     | 0.589      | 0.577      |
| 5-Year         | 1.6%     | -0.6%     | -2.6%     | -4.6%     | -4.6%     | -2.0%       | 2.3%      | 6.9%      | 9.7%       | 9.1%       |
| R <sup>2</sup> | 0.324    | 0.181     | 0.889     | 0.986     | 0.926     | 0.340       | 0.290     | 0.868     | 0.981      | 0.975      |
| L              | 0.324    | 0.101     | 0.009     | 0.900     | 0.920     | 0.340       | 0.290     | 0.000     | 0.901      | 0.973      |

Note: All figures in each calendar year diagonal contain information from the same combination of insurers, all of whom submitted complete data for all evaluations for a given accident year. Therefore, each accident year may contain a different mix of insurers (ranging from 78% to 100% of the total California workers' compensation insured market measured using 2016 earned premium levels).

<sup>\*</sup>Trend is based on an exponential distribution.

<sup>\*\*</sup>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, 2017

| Accident_   |          |           |           | Evalı     | uated as c | 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> |
| 1998        |          |           |           |           |            |            |           |           | 5,044      | 5,222      |
| 1999        |          |           |           |           |            |            |           | 5,743     | 5,964      | 6,201      |
| 2000        |          |           |           |           |            |            | 6,234     | 6,526     | 6,846      | 7,076      |
| 2001        |          |           |           |           |            | 6,927      | 7,341     | 7,736     | 8,039      | 8,341      |
| 2002        |          |           |           |           | 6,828      | 7,337      | 7,828     | 8,197     | 8,524      | 8,780      |
| 2003        |          |           |           | 5,782     | 6,477      | 7,057      | 7,469     | 7,860     | 8,184      | 8,479      |
| 2004        |          |           | 3,710     | 4,526     | 5,185      | 5,686      | 6,112     | 6,472     | 6,813      | 7,133      |
| 2005        |          | 2,472     | 3,445     | 4,276     | 4,915      | 5,417      | 5,839     | 6,187     | 6,589      | 6,864      |
| 2006        | 1,164    | 2,588     | 3,808     | 4,723     | 5,447      | 6,010      | 6,498     | 6,915     | 7,250      | 7,497      |
| 2007        | 1,168    | 2,925     | 4,290     | 5,375     | 6,196      | 6,889      | 7,496     | 7,973     | 8,311      | 8,589      |
| 2008        | 1,420    | 3,289     | 4,841     | 6,098     | 7,130      | 7,977      | 8,611     | 9,071     | 9,416      | 9,679      |
| 2009        | 1,574    | 3,591     | 5,367     | 6,895     | 8,147      | 9,096      | 9,752     | 10,235    | 10,579     | 0,0.0      |
| 2010        | 1,583    | 3,730     | 5,682     | 7,414     | 8,693      | 9,585      | 10,255    | 10,735    | .0,0.0     |            |
| 2011        | 1,590    | 3,945     | 6,093     | 7,795     | 9,016      | 9,937      | 10,556    | . 0,. 00  |            |            |
| 2012        | 1,630    | 3,977     | 6,041     | 7,643     | 8,763      | 9,584      | . 0,000   |           |            |            |
| 2013        | 1,706    | 3,928     | 5,932     | 7,445     | 8,493      | 0,00.      |           |           |            |            |
| 2014        | 1,653    | 3,863     | 5,814     | 7,236     | 0, .00     |            |           |           |            |            |
| 2015        | 1,691    | 3,886     | 5,779     | .,200     |            |            |           |           |            |            |
| 2016        | 1,717    | 3,942     | 0,        |           |            |            |           |           |            |            |
| 2017        | 1,756    | 0,012     |           |           |            |            |           |           |            |            |
|             | .,       |           |           |           |            |            |           |           |            |            |
| Accident_   |          |           |           |           |            | nual Chan  |           |           |            |            |
| <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> |
| 1999        |          |           |           |           |            |            |           |           | 18.2%      | 18.7%      |
| 2000        |          |           |           |           |            |            |           | 13.6%     | 14.8%      | 14.1%      |
| 2001        |          |           |           |           |            |            | 17.8%     | 18.5%     | 17.4%      | 17.9%      |
| 2002        |          |           |           |           |            | 5.9%       | 6.6%      | 6.0%      | 6.0%       | 5.3%       |
| 2003        |          |           |           |           | -5.1%      | -3.8%      | -4.6%     | -4.1%     | -4.0%      | -3.4%      |
| 2004        |          |           |           | -21.7%    | -19.9%     | -19.4%     | -18.2%    | -17.7%    | -16.8%     | -15.9%     |
| 2005        |          |           | -7.1%     | -5.5%     | -5.2%      | -4.7%      | -4.5%     | -4.4%     | -3.3%      | -3.8%      |
| 2006        |          | 4.7%      | 10.5%     | 10.5%     | 10.8%      | 10.9%      | 11.3%     | 11.8%     | 10.0%      | 9.2%       |
| 2007        | 0.3%     | 13.0%     | 12.7%     | 13.8%     | 13.8%      | 14.6%      | 15.4%     | 15.3%     | 14.6%      | 14.6%      |
| 2008        | 21.6%    | 12.4%     | 12.8%     | 13.5%     | 15.1%      | 15.8%      | 14.9%     | 13.8%     | 13.3%      | 12.7%      |
| 2009        | 10.9%    | 9.2%      | 10.9%     | 13.1%     | 14.3%      | 14.0%      | 13.3%     | 12.8%     | 12.4%      |            |
| 2010        | 0.6%     | 3.9%      | 5.9%      | 7.5%      | 6.7%       | 5.4%       | 5.2%      | 4.9%      |            |            |
| 2011        | 0.4%     | 5.8%      | 7.2%      | 5.1%      | 3.7%       | 3.7%       | 2.9%      |           |            |            |
| 2012        | 2.5%     | 0.8%      | -0.9%     | -1.9%     | -2.8%      | -3.6%      |           |           |            |            |
| 2013        | 4.7%     | -1.2%     | -1.8%     | -2.6%     | -3.1%      |            |           |           |            |            |
| 2014        | -3.1%    | -1.7%     | -2.0%     | -2.8%     |            |            |           |           |            |            |
| 2015        | 2.3%     | 0.6%      | -0.6%     |           |            |            |           |           |            |            |
| 2016        | 1.5%     | 1.4%      |           |           |            |            |           |           |            |            |
| 2017        | 2.3%     |           |           |           |            |            |           |           |            |            |
|             |          |           |           |           |            |            |           |           |            |            |
|             |          |           |           |           | nual Tren  |            |           |           |            |            |
| All-Yr      | 3.5%     | 4.3%      | 5.4%      | 5.2%      | 4.7%       | 4.3%       | 4.2%      | 4.1%      | 4.3%       | 3.7%       |
| $R^2$       | 0.748    | 0.761     | 0.810     | 0.701     | 0.584      | 0.522      | 0.530     | 0.540     | 0.567      | 0.453      |
| <b>5</b>    | 4.007    | 0.001     | 4.401     | 0.001     | 0.007      | 4 761      | 0.001     | 40.007    | 40.007     | 0.701      |
| 5-Year      | 1.0%     | -0.3%     | -1.4%     | -0.9%     | 0.9%       | 4.7%       | 9.0%      | 12.0%     | 12.8%      | 8.7%       |
| $R^2$       | 0.468    | 0.151     | 0.973     | 0.270     | 0.144      | 0.697      | 0.921     | 0.975     | 0.998      | 0.858      |

Note: All figures in each calendar year diagonal contain information from the same combination of insurers, all of whom submitted complete data for all evaluations for a given accident year.

Therefore, each accident year may contain a different mix of insurers (ranging from 76% to 100% of the total California workers' compensation insured market measured using 2016 earned premium levels).

<sup>\*</sup>Trend is based on an exponential distribution.

<sup>\*\*</sup>All entries reflect thepaid cost of medical cost containment programs.

# Average Paid Indemnity Loss per Closed Indemnity Claim\*\* As of September 30, 2017

| Accident                 |                |                |                  |                  | uated as o       | _ `              |                  |                  |                  |                  |
|--------------------------|----------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <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>       |
| 1993                     |                |                |                  |                  |                  |                  |                  |                  |                  | 10,407           |
| 1994                     |                |                |                  |                  |                  |                  |                  |                  | 10,592           | 10,800           |
| 1995                     |                |                |                  |                  |                  |                  |                  | 11,482           | 11,840           | 12,123           |
| 1996                     |                |                |                  |                  |                  |                  | 12,386           | 12,910           | 13,343           | 13,745           |
| 1997                     |                |                |                  |                  | 40 =00           | 13,080           | 13,931           | 14,647           | 15,211           | 15,502           |
| 1998                     |                |                |                  |                  | 12,562           | 13,984           | 15,204           | 16,135           | 16,637           | 17,194           |
| 1999                     |                |                | 0.000            | 11,056           | 13,441           | 15,216           | 16,632           | 17,496           | 18,232           | 18,897           |
| 2000                     |                | 2 220          | 6,682            | 10,913           | 13,936           | 16,002           | 17,432           | 18,245           | 19,180           | 19,896           |
| 2001<br>2002             | 1 001          | 2,330<br>2,088 | 6,500            | 11,390           | 15,299           | 17,204<br>16,363 | 18,341<br>17,946 | 19,660           | 20,531<br>19,675 | 21,134           |
| 2002                     | 1,001<br>1,259 | 2,684          | 6,473<br>7,618   | 11,645<br>12,035 | 14,716<br>14,341 | 16,499           | 17,946           | 18,938<br>18,564 | 19,675           | 20,211<br>19,864 |
| 2003                     | 937            | 2,739          | 6,265            | 8,986            | 11,508           | 12,892           | 13,857           | 14,644           | 15,421           | 16,307           |
| 2005                     | 964            | 2,439          | 4,699            | 7,803            | 9,895            | 11,124           | 12,089           | 12,961           | 13,996           | 14,771           |
| 2006                     | 1,224          | 2,460          | 5,584            | 8,443            | 10,530           | 12,045           | 13,306           | 14,603           | 15,603           | 16,358           |
| 2007                     | 1,076          | 2,744          | 6,007            | 9,003            | 11,305           | 13,032           | 14,668           | 16,016           | 16,967           | 17,887           |
| 2008                     | 1,206          | 3,142          | 6,510            | 9,900            | 12,589           | 14,936           | 16,675           | 17,978           | 18,985           | 19,807           |
| 2009                     | 1,453          | 3,257          | 6,863            | 10,421           | 13,530           | 15,910           | 17,731           | 19,179           | 20,164           |                  |
| 2010                     | 1,207          | 3,228          | 6,977            | 10,902           | 13,976           | 16,270           | 18,006           | 19,353           |                  |                  |
| 2011                     | 1,272          | 3,576          | 7,494            | 11,395           | 14,301           | 16,486           | 18,068           |                  |                  |                  |
| 2012                     | 1,454          | 3,909          | 8,068            | 11,809           | 14,510           | 16,593           |                  |                  |                  |                  |
| 2013                     | 1,636          | 4,371          | 8,427            | 12,170           | 14,873           |                  |                  |                  |                  |                  |
| 2014                     | 1,643          | 4,551          | 9,053            | 12,947           |                  |                  |                  |                  |                  |                  |
| 2015                     | 1,729          | 5,009          | 9,806            |                  |                  |                  |                  |                  |                  |                  |
| 2016                     | 1,852          | 5,364          |                  |                  |                  |                  |                  |                  |                  |                  |
| 2017                     | 1,973          |                |                  |                  |                  |                  |                  |                  |                  |                  |
| Accident                 |                |                |                  |                  | Anr              | nual Chan        | ge               |                  |                  |                  |
| 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>       |
| 1994                     |                |                |                  |                  |                  |                  |                  |                  |                  | 3.8%             |
| 1995                     |                |                |                  |                  |                  |                  |                  |                  | 11.8%            | 12.3%            |
| 1996                     |                |                |                  |                  |                  |                  |                  | 12.4%            | 12.7%            | 13.4%            |
| 1997                     |                |                |                  |                  |                  |                  | 12.5%            | 13.4%            | 14.0%            | 12.8%            |
| 1998                     |                |                |                  |                  |                  | 6.9%             | 9.1%             | 10.2%            | 9.4%             | 10.9%            |
| 1999                     |                |                |                  |                  | 7.0%             | 8.8%             | 9.4%             | 8.4%             | 9.6%             | 9.9%             |
| 2000                     |                |                |                  | -1.3%            | 3.7%             | 5.2%             | 4.8%             | 4.3%             | 5.2%             | 5.3%             |
| 2001                     |                | 40.407         | -2.7%            | 4.4%             | 9.8%             | 7.5%             | 5.2%             | 7.8%             | 7.0%             | 6.2%             |
| 2002                     | 05.00/         | -10.4%         | -0.4%            | 2.2%             | -3.8%            | -4.9%            | -2.2%            | -3.7%            | -4.2%            | -4.4%            |
| 2003                     | 25.8%          | 28.5%          | 17.7%            | 3.4%             | -2.5%            | 0.8%             | -1.3%            | -2.0%            | -2.2%            | -1.7%            |
| 2004<br>2005             | -25.6%<br>2.9% | 2.0%<br>-11.0% | -17.8%<br>-25.0% | -25.3%<br>-13.2% | -19.8%<br>-14.0% | -21.9%<br>-13.7% | -21.8%<br>-12.8% | -21.1%<br>-11.5% | -19.9%<br>-9.2%  | -17.9%<br>-9.4%  |
| 2005                     | 27.0%          | 0.9%           | 18.8%            | 8.2%             | 6.4%             | 8.3%             | 10.1%            | 12.7%            | 11.5%            | 10.7%            |
| 2007                     | -12.1%         | 11.6%          | 7.6%             | 6.6%             | 7.4%             | 8.2%             | 10.1%            | 9.7%             | 8.7%             | 9.3%             |
| 2008                     | 12.1%          | 14.5%          | 8.4%             | 10.0%            | 11.4%            | 14.6%            | 13.7%            | 12.3%            | 11.9%            | 10.7%            |
| 2009                     | 20.4%          | 3.7%           | 5.4%             | 5.3%             | 7.5%             | 6.5%             | 6.3%             | 6.7%             | 6.2%             | , .              |
| 2010                     | -17.0%         | -0.9%          | 1.7%             | 4.6%             | 3.3%             | 2.3%             | 1.6%             | 0.9%             |                  |                  |
| 2011                     | 5.4%           | 10.8%          | 7.4%             | 4.5%             | 2.3%             | 1.3%             | 0.3%             |                  |                  |                  |
| 2012                     | 14.4%          | 9.3%           | 7.7%             | 3.6%             | 1.5%             | 0.7%             |                  |                  |                  |                  |
| 2013                     | 12.5%          | 11.8%          | 4.4%             | 3.1%             | 2.5%             |                  |                  |                  |                  |                  |
| 2014                     | 0.4%           | 4.1%           | 7.4%             | 6.4%             |                  |                  |                  |                  |                  |                  |
| 2015                     | 5.2%           | 10.1%          | 8.3%             |                  |                  |                  |                  |                  |                  |                  |
| 2016                     | 7.1%           | 7.1%           |                  |                  |                  |                  |                  |                  |                  |                  |
| 2017                     | 6.5%           |                |                  |                  |                  |                  |                  |                  |                  |                  |
|                          |                |                |                  | An               | nual Tren        | d*               |                  |                  |                  |                  |
| All-Yr                   | 4.5%           | 6.0%           | 2.6%             | 0.7%             | 0.3%             | 0.5%             | 1.0%             | 1.7%             | 2.5%             | 3.2%             |
| $R^2$                    | 0.820          | 0.926          | 0.436            | 0.054            | 0.009            | 0.028            | 0.098            | 0.222            | 0.345            | 0.445            |
| E Voor                   | E 10/          | 9.00/          | 6 70/            | 4 20/            | 2 20/            | 2 50/            | E 10/            | 7 70/            | 0.70/            | 6.00/            |
| 5-Year<br>R <sup>2</sup> | 5.1%<br>0.939  | 8.0%<br>0.985  | 6.7%<br>0.992    | 4.2%<br>0.986    | 2.3%<br>n 984    | 2.5%<br>0.834    | 5.1%<br>0.788    | 7.7%<br>n gan    | 9.7%<br>0.992    | 6.0%<br>0.689    |
| TX.                      | 0.939          | 0.985          | 0.992            | 0.986            | 0.984            | 0.034            | 0.788            | 0.931            | 0.992            | 0.009            |

Note: All figures in each calendar year diagonal contain information from the same combination of insurers, all of whom submitted complete data for all evaluations for a given accident year. Therefore, each accident year may contain a different mix of insurers (ranging from 58% to 100% of the total California workers' compensation insured market measured using 2016 earned premium levels).

<sup>\*</sup>Trend is based on an exponential distribution.

<sup>\*\*</sup>Paid indemnity losses used in the severity calculations above represent paid indemnity losses on closed indemnity claims only.

# Average Paid Medical Loss per Closed Indemnity Claim\*\*\* As of September 30, 2017

| Accident    |          |           |           | I         | Evaluated | as of (in | months):  |           |            |            |
|-------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| Year        | 9        | 21        | <u>33</u> | <u>45</u> | <u>57</u> | <u>69</u> | <u>81</u> | <u>93</u> | <u>105</u> | <u>117</u> |
| 2000        |          |           |           |           |           |           |           |           |            | 16,420     |
| 2001        |          |           |           |           |           |           |           |           | 18,239     | 19,090     |
| 2002        |          |           |           |           |           |           |           | 17,747    | 18,710     | 19,486     |
| 2003        |          |           |           |           |           |           | 15,835    | 16,858    | 17,727     | 18,568     |
| 2004        |          |           |           |           |           | 12,241    | 13,437    | 14,504    | 15,584     | 16,906     |
| 2005        |          |           |           |           | 10,582    | 12,152    | 13,428    | 14,663    | 16,266     | 17,623     |
| 2006        |          |           |           | 9,361     | 11,589    | 13,521    | 15,226    | 17,045    | 18,561     | 19,856     |
| 2007        |          |           | 7,266     | 10,303    | 12,865    | 15,079    | 17,397    | 19,526    | 21,168     | 22,770     |
| 2008        |          | 4,540     | 7,966     | 11,368    | 14,423    | 17,654    | 20,188    | 22,132    | 23,817     | 25,155     |
| 2009        | 3,021    | 4,698     | 8,311     | 12,265    | 16,100    | 19,388    | 22,069    | 24,202    | 25,737     | ,          |
| 2010        | 2,794    | 4,673     | 8,593     | 13,121    | 17,012    | 20,126    | 22,741    | 24,854    | ,          |            |
| 2011        | 1,783    | 4,170     | 8,426     | 12,849    | 16,470    | 19,700    | 21,918    | ,         |            |            |
| 2012        | 1,819    | 4,480     | 8,865     | 12,940    | 16,220    | 18,787    | ,         |           |            |            |
| 2013        | 2,001    | 4,792     | 8,892     | 12,779    | 15,937    | -, -      |           |           |            |            |
| 2014        | 1,946    | 4,858     | 9,084     | 12,844    | ,         |           |           |           |            |            |
| 2015        | 2,019    | 5,183     | 9,507     | ,         |           |           |           |           |            |            |
| 2016        | 2,155    | 5,479     | -,        |           |           |           |           |           |            |            |
| 2017        | 2,247    | -,        |           |           |           |           |           |           |            |            |
|             | ,        |           |           |           |           |           |           |           |            |            |
| Accident    |          |           |           |           |           | nual Chan |           |           |            |            |
| <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        |          |           |           |           |           |           |           |           |            | 16.3%      |
| 2002        |          |           |           |           |           |           |           |           | 2.6%       | 2.1%       |
| 2003        |          |           |           |           |           |           |           | -5.0%     | -5.3%      | -4.7%      |
| 2004        |          |           |           |           |           |           | -15.1%    | -14.0%    | -12.1%     | -8.9%      |
| 2005        |          |           |           |           |           | -0.7%     | -0.1%     | 1.1%      | 4.4%       | 4.2%       |
| 2006        |          |           |           |           | 9.5%      | 11.3%     | 13.4%     | 16.2%     | 14.1%      | 12.7%      |
| 2007        |          |           |           | 10.1%     | 11.0%     | 11.5%     | 14.3%     | 14.6%     | 14.0%      | 14.7%      |
| 2008        |          |           | 9.6%      | 10.3%     | 12.1%     | 17.1%     | 16.0%     | 13.3%     | 12.5%      | 10.5%      |
| 2009        |          | 3.5%      | 4.3%      | 7.9%      | 11.6%     | 9.8%      | 9.3%      | 9.4%      | 8.1%       |            |
| 2010**      | -7.5%    | -0.5%     | 3.4%      | 7.0%      | 5.7%      | 3.8%      | 3.0%      | 2.7%      |            |            |
| 2011**      | -36.2%   | -10.8%    | -1.9%     | -2.1%     | -3.2%     | -2.1%     | -3.6%     |           |            |            |
| 2012        | 2.0%     | 7.4%      | 5.2%      | 0.7%      | -1.5%     | -4.6%     |           |           |            |            |
| 2013        | 10.0%    | 6.9%      | 0.3%      | -1.2%     | -1.7%     |           |           |           |            |            |
| 2014        | -2.7%    | 1.4%      | 2.2%      | 0.5%      |           |           |           |           |            |            |
| 2015        | 3.7%     | 6.7%      | 4.7%      |           |           |           |           |           |            |            |
| 2016        | 6.7%     | 5.7%      |           |           |           |           |           |           |            |            |
| 2017        | 4.3%     |           |           |           |           |           |           |           |            |            |
|             |          |           |           |           |           |           |           |           |            |            |
|             |          |           |           |           | nual Tren |           |           |           |            |            |
| All-Yr      | -2.7%    | 2.1%      | 2.8%      | 3.8%      | 5.7%      | 7.3%      | 7.2%      | 6.1%      | 4.5%       | 3.8%       |
| $R^2$       | 0.169    | 0.518     | 0.888     | 0.714     | 0.767     | 0.854     | 0.795     | 0.654     | 0.516      | 0.541      |
|             |          |           |           |           |           |           |           |           |            |            |
| 5-Year      | 3.4%     | 4.9%      | 2.7%      | -0.5%     | -0.7%     | 1.4%      | 6.0%      | 10.2%     | 12.4%      | 11.1%      |
| $R^2$       | 0.801    | 0.973     | 0.925     | 0.550     | 0.179     | 0.190     | 0.718     | 0.950     | 0.991      | 0.977      |

Note: All figures in each calendar year diagonal contain information from the same combination of insurers, all of whom submitted complete data for all evaluations for a given accident year. Therefore, each accident year may contain a different mix of insurers (ranging from 78% to 100% of the total California workers' compensation insured market measured using 2016 earned premium levels).

<sup>\*</sup>Trend is based on an exponential distribution.

<sup>\*\*</sup>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.

<sup>\*\*\*</sup>Paid medical losses used in the severity calculations above represent paid medical losses on closed indemnity claims only.

# Ratio of Incremental Paid Indemnity to Indemnity Claims Open During the Period As of September 30, 2017

| Accident _               |               | 0.01          | 04.00         |               |                    | of (in mon    |               | 04.00         | 00.105        | 105.1:-        |
|--------------------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|
| <u>Year</u>              | <u>0-9</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> |
| 1993                     |               |               |               |               |                    |               |               |               |               | 6,463          |
| 1994                     |               |               |               |               |                    |               |               |               | 6,346         | 4,826          |
| 1995                     |               |               |               |               |                    |               |               | 6,938         | 6,652         | 5,880          |
| 1996                     |               |               |               |               |                    |               | 7,829         | 8,162         | 7,466         | 6,555          |
| 1997                     |               |               |               |               |                    | 9,619         | 8,724         | 8,625         | 6,878         | 4,649          |
| 1998                     |               |               |               |               | 9,977              | 9,119         | 8,970         | 7,891         | 6,261         | 6,898          |
| 1999                     |               |               |               | 10,630        | 10,023             | 9,995         | 8,476         | 6,691         | 6,928         | 6,632          |
| 2000                     |               |               | 11,059        | 10,782        | 10,328             | 8,605         | 6,976         | 7,537         | 6,712         | 5,920          |
| 2001                     |               | 5,801         | 10,996        | 10,918        | 9,514              | 7,587         | 7,190         | 6,209         | 5,964         | 5,406          |
| 2002                     | 1,968         | 5,697         | 10,441        | 9,677         | 8,011              | 6,935         | 6,466         | 5,947         | 5,090         | 5,126          |
| 2003                     | 2,035         | 5,756         | 9,842         | 8,727         | 7,569              | 6,758         | 6,099         | 5,624         | 5,906         | 6,632          |
| 2004                     | 1,959         | 5,397         | 7,124         | 6,810         | 5,918              | 5,723         | 5,607         | 5,844         | 6,386         | 7,344          |
| 2005                     | 1,888         | 4,915         | 6,353         | 6,161         | 5,857              | 5,655         | 5,578         | 6,105         | 7,177         | 6,929          |
| 2006                     | 2,017         | 5,069         | 7,242         | 6,576         | 6,580              | 6,671         | 7,004         | 6,943         | 7,106         | 6,317          |
| 2007                     | 2,122         | 5,546         | 7,708         | 7,297         | 7,231              | 7,252         | 7,268         | 7,512         | 6,809         | 8,062          |
| 2008                     | 2,320         | 6,021         | 8,281         | 8,434         | 8,217              | 7,793         | 7,499         | 7,354         | 6,820         | 7,34           |
| 2009                     | 2,365         | 6,069         | 8,581         | 8,529         | 8,307              | 8,038         | 7,871         | 7,670         | 8,167         |                |
| 2010                     | 2,332         | 6,092         | 8,619         | 8,834         | 8,448              | 8,233         | 8,180         | 7,911         |               |                |
| 2011                     | 2,369         | 6,225         | 8,838         | 8,576         | 8,356              | 8,240         | 8,227         |               |               |                |
| 2012                     | 2,454         | 6,305         | 8,713         | 8,757         | 8,340              | 9,119         |               |               |               |                |
| 2013                     | 2,462         | 6,289         | 8,759         | 9,127         | 8,737              |               |               |               |               |                |
| 2014                     | 2,441         | 6,423         | 9,679         | 9,812         |                    |               |               |               |               |                |
| 2015                     | 2,484         | 6,806         | 10,098        |               |                    |               |               |               |               |                |
| 2016                     | 2,628         | 6,963         |               |               |                    |               |               |               |               |                |
| 2017                     | 2,655         |               |               |               |                    |               |               |               |               |                |
| Accident                 |               |               |               |               | Anr                | nual Chan     | ae            |               |               |                |
| Year                     | 0-9           | 9-21          | 21-33         | 33-45         | 45-57              | 57-69         | 69-81         | 81-93         | 93-105        | 105-117        |
| 1994                     |               |               |               |               |                    |               |               |               |               | -25.3%         |
| 1995                     |               |               |               |               |                    |               |               |               | 4.8%          | 21.8%          |
| 1996                     |               |               |               |               |                    |               |               | 17.6%         | 12.2%         | 11.5%          |
| 1997                     |               |               |               |               |                    |               | 11.4%         | 5.7%          | -7.9%         | -29.1%         |
| 1998                     |               |               |               |               |                    | -5.2%         | 2.8%          | -8.5%         | -9.0%         | 48.4%          |
| 1999                     |               |               |               |               | 0.5%               | 9.6%          | -5.5%         | -15.2%        | 10.7%         | -3.9%          |
| 2000                     |               |               |               | 1.4%          | 3.0%               | -13.9%        | -17.7%        | 12.6%         | -3.1%         | -10.7%         |
| 2001                     |               |               | -0.6%         | 1.3%          | -7.9%              | -11.8%        | 3.1%          | -17.6%        | -11.1%        | -8.7%          |
| 2002                     |               | -1.8%         | -5.0%         | -11.4%        | -15.8%             | -8.6%         | -10.1%        | -4.2%         | -14.7%        | -5.2%          |
| 2003                     | 3.4%          | 1.0%          | -5.7%         | -9.8%         | -5.5%              | -2.6%         | -5.7%         | -5.4%         | 16.0%         | 29.4%          |
| 2004                     | -3.7%         | -6.2%         | -27.6%        | -22.0%        | -21.8%             | -15.3%        | -8.1%         | 3.9%          | 8.1%          | 10.7%          |
| 2005                     | -3.6%         | -8.9%         | -10.8%        | -9.5%         | -1.0%              | -1.2%         | -0.5%         | 4.5%          | 12.4%         | -5.7%          |
| 2006                     | 6.8%          | 3.1%          | 14.0%         | 6.7%          | 12.3%              | 18.0%         | 25.6%         | 13.7%         | -1.0%         | -8.8%          |
| 2007                     | 5.2%          | 9.4%          | 6.4%          | 11.0%         | 9.9%               | 8.7%          | 3.8%          | 8.2%          | -4.2%         | 27.6%          |
| 2008                     | 9.3%          | 8.6%          | 7.4%          | 15.6%         | 13.6%              | 7.5%          | 3.2%          | -2.1%         | 0.2%          | -8.9%          |
| 2009                     | 1.9%          | 0.8%          | 3.6%          | 1.1%          | 1.1%               | 3.2%          | 5.0%          | 4.3%          | 19.7%         |                |
| 2010                     | -1.4%         | 0.4%          | 0.4%          | 3.6%          | 1.7%               | 2.4%          | 3.9%          | 3.1%          |               |                |
| 2011                     | 1.6%          | 2.2%          | 2.5%          | -2.9%         | -1.1%              | 0.1%          | 0.6%          |               |               |                |
| 2012                     | 3.6%          | 1.3%          | -1.4%         | 2.1%          | -0.2%              | 10.7%         |               |               |               |                |
| 2013                     | 0.3%          | -0.3%         | 0.5%          | 4.2%          | 4.8%               |               |               |               |               |                |
| 2014                     | -0.8%         | 2.1%          | 10.5%         | 7.5%          |                    |               |               |               |               |                |
| 2015                     | 1.7%          | 6.0%          | 4.3%          |               |                    |               |               |               |               |                |
| 2016                     | 5.8%          | 2.3%          |               |               |                    |               |               |               |               |                |
| 2017                     | 1.0%          |               |               |               |                    |               |               |               |               |                |
|                          |               |               |               | ۸             | nual Tra-          | 4*            |               |               |               |                |
| All-Yr                   | 2.2%          | 1.6%          | -0.4%         | -0.7%         | nual Tren<br>-0.9% | -0.7%         | -0.4%         | -0.3%         | 0.5%          | 1.8%           |
| R <sup>2</sup>           | 0.892         | 0.608         | 0.011         | 0.035         | 0.067              | 0.034         | 0.020         | 0.012         | 0.048         | 0.287          |
|                          |               | 2.300         |               |               | 00.                | 2.001         | -:020         | 0.2           | 2.0.0         | 3.231          |
|                          |               |               |               |               |                    |               | 0 407         |               |               | 4 =0           |
|                          | 2.3%          | 2.8%          | 3.8%          | 2.8%          | 0.9%               | 3.4%          | 3.4%          | 2.9%          | 2.2%          | 1.5%           |
| 5-Year<br>R <sup>2</sup> | 2.3%<br>0.825 | 2.8%<br>0.886 | 3.8%<br>0.758 | 2.8%<br>0.669 | 0.9%<br>0.458      | 3.4%<br>0.826 | 3.4%<br>0.956 | 2.9%<br>0.826 | 2.2%<br>0.213 | 1.5%<br>0.071  |

Note: All figures in each calendar year diagonal contain information from the same combination of insurers, all of whom submitted complete data for all evaluations for a given accident year.

Therefore, each accident year may contain a different mix of insurers (ranging from 58% to 100% of the total California workers' compensation insured market measured using 2016 earned premium levels).

\*Trend is based on an exponential distribution.

# Ratio of Incremental Paid Medical to Indemnity Claims Open During the Period\*\* As of September 30, 2017

| Accident                 |            |             |              | Evalu        | uated as c   | of (in mont  | ths):        |              |               |                |
|--------------------------|------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|----------------|
| Year                     | <u>0-9</u> | 9-21        | 21-33        | 33-45        | <u>45-57</u> | 57-69        | 69-81        | 81-93        | 93-105        | 105-117        |
| 2001                     |            |             |              |              |              |              |              |              |               | 11,122         |
| 2002                     |            |             |              |              |              |              |              |              | 9,420         | 9,410          |
| 2003                     |            |             |              |              |              |              |              | 8,961        | 9,500         | 10,532         |
| 2004                     |            |             |              |              |              |              | 8,550        | 9,252        | 10,846        | 12,757         |
| 2005                     |            |             |              |              |              | 8,525        | 9,426        | 9,709        | 14,212        | 12,687         |
| 2006                     |            |             |              |              | 8,980        | 9,561        | 10,548       | 11,580       | 12,205        | 11,644         |
| 2007                     |            |             |              | 9,097        | 9,673        | 10,951       | 12,406       | 13,140       | 12,465        | 12,930         |
| 2008                     |            |             | 9,037        | 9,875        | 11,001       | 12,189       | 12,535       | 12,384       | 12,318        | 12,395         |
| 2009                     |            | 8,125       | 9,394        | 10,594       | 11,941       | 12,462       | 11,895       | 11,949       | 11,603        |                |
| 2010                     | 3,615      | 8,026       | 9,650        | 11,571       | 12,017       | 12,018       | 12,541       | 12,445       |               |                |
| 2011                     | 3,187      | 7,701       | 9,780        | 10,744       | 11,077       | 12,207       | 11,564       |              |               |                |
| 2012                     | 3,103      | 7,610       | 9,230        | 10,147       | 10,445       | 11,343       |              |              |               |                |
| 2013                     | 3,277      | 7,092       | 8,705        | 9,633        | 10,164       |              |              |              |               |                |
| 2014                     | 3,059      | 7,030       | 8,767        | 9,541        |              |              |              |              |               |                |
| 2015                     | 3,173      | 7,081       | 8,798        |              |              |              |              |              |               |                |
| 2016                     | 3,243      | 7,302       |              |              |              |              |              |              |               |                |
| 2017                     | 3,440      |             |              |              |              |              |              |              |               |                |
|                          |            |             |              |              |              |              |              |              |               |                |
| Accident                 |            |             |              |              |              | nual Chan    |              |              |               |                |
| <u>Year</u>              | <u>0-9</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> |
| 2002                     |            |             |              |              |              |              |              |              |               | -15.4%         |
| 2003                     |            |             |              |              |              |              |              |              | 0.9%          | 11.9%          |
| 2004                     |            |             |              |              |              |              |              | 3.2%         | 14.2%         | 21.1%          |
| 2005                     |            |             |              |              |              |              | 10.2%        | 4.9%         | 31.0%         | -0.6%          |
| 2006                     |            |             |              |              |              | 12.2%        | 11.9%        | 19.3%        | -14.1%        | -8.2%          |
| 2007                     |            |             |              |              | 7.7%         | 14.5%        | 17.6%        | 13.5%        | 2.1%          | 11.0%          |
| 2008                     |            |             |              | 8.5%         | 13.7%        | 11.3%        | 1.0%         | -5.8%        | -1.2%         | -4.1%          |
| 2009                     |            |             | 4.0%         | 7.3%         | 8.5%         | 2.2%         | -5.1%        | -3.5%        | -5.8%         |                |
| 2010**                   |            | -1.2%       | 2.7%         | 9.2%         | 0.6%         | -3.6%        | 5.4%         | 4.1%         |               |                |
| 2011**                   | -11.8%     | -4.0%       | 1.3%         | -7.1%        | -7.8%        | 1.6%         | -7.8%        |              |               |                |
| 2012                     | -2.6%      | -1.2%       | -5.6%        | -5.6%        | -5.7%        | -7.1%        |              |              |               |                |
| 2013                     | 5.6%       | -6.8%       | -5.7%        | -5.1%        | -2.7%        |              |              |              |               |                |
| 2014                     | -6.6%      | -0.9%       | 0.7%         | -1.0%        |              |              |              |              |               |                |
| 2015                     | 3.7%       | 0.7%        | 0.4%         |              |              |              |              |              |               |                |
| 2016                     | 2.2%       | 3.1%        |              |              |              |              |              |              |               |                |
| 2017                     | 6.1%       |             |              |              |              |              |              |              |               |                |
|                          |            |             |              |              |              | 14           |              |              |               |                |
| All 37:                  | 0.00/      | 0.00/       | 4.40/        |              | nual Tren    |              | 4.00/        | F 40/        | 0.70/         | 0.00/          |
| All-Yr                   | -0.3%      | -2.0%       | -1.1%        | 0.0%         | 1.5%         | 4.3%         | 4.8%         | 5.4%         | 3.7%          | 3.2%           |
| R <sup>2</sup>           | 0.019      | 0.756       | 0.344        | 0.000        | 0.137        | 0.568        | 0.624        | 0.743        | 0.390         | 0.472          |
| 5-Year                   | 1.6%       | -0.8%       | -2.6%        | -4.8%        | -4.5%        | -1.6%        | _1 /10/      | 0.5%         | -3.9%         | -0.4%          |
| 5-Year<br>R <sup>2</sup> |            |             |              |              |              |              | -1.4%        |              |               |                |
| К                        | 0.324      | 0.164       | 0.712        | 0.946        | 0.926        | 0.532        | 0.372        | 0.027        | 0.690         | 0.022          |

Note: All figures in each calendar year diagonal contain information from the same combination of insurers, all of whom submitted complete data for all evaluations for a given accident year.

Therefore, each accident year may contain a different mix of insurers (ranging from 78% to 100% of the total California workers' compensation insured market measured using 2016 earned premium levels).

<sup>\*</sup>Trend is based on an exponential distribution.

<sup>\*\*</sup>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.

### Ratio of Quarterly Paid Medical to Indemnity Claims Inventory\* Through September 30, 2017

|  | nt  |   |   |  |  | Eva  | luation Year  |   |  |   |   |  |  |   |
|--|---|---|---|--|--|--|---|---|--|---|---|--|--|---|
| <u>Period</u>  | 2004  | 2005  | 2006  | 2007   | 2008   | 2009   | <u>2010</u>   | 2011  | 2012   | 2013  | <u>2014</u>   | <u>2015</u>  | <u>2016</u>  | 2017  |
| 3/0  | 733   | 1,104   | 1,201   | 1,147  | 1,289  | 1,553  | 1,615   | 1,714   | 1,601  | 1,587   | 1,676   | 1,850  | 1,740  | 2,114   |
| 6/3  | 1,882   | 2,100   | 2,477   | 2,330  | 2,870  | 3,029  | 3,071   | 3,139   | 3,000  | 3,013   | 2,887   | 3,176  | 3,173  | 3,371   |
| 9/6  | 2,081   | 2,048   | 2,440   | 2,517  | 2,952  | 3,160  | 3,137   | 3,108   | 3,148  | 3,269   | 3,087   | 3,082  | 3,194  | 3,276   |
| 12/9   | 2,064   | 2,174   | 2,431   | 2,697  | 3,012  | 3,075  | 3,134   | 3,065   | 3,243  | 3,033   | 2,987   | 2,949  | 3,175  |   |
| 12/0   | 3,952   | 4,282   | 4,839   | 5,103  | 6,035  | 6,228  | 6,172   | 6,076   | 6,139  | 6,065   | 5,905   | 5,986  | 6,217  |   |
| 15/12  | 2,733   | 2,257   | 2,284   | 2,571  | 2,927  | 3,040  | 3,131   | 3,159   | 3,354  | 3,316   | 3,070   | 3,128  | 3,136  | 3,472   |
| 18/15  | 2,641   | 2,096   | 2,430   | 2,186  | 2,680  | 2,784  | 2,924   | 2,982   | 3,221  | 3,187   | 2,840   | 2,877  | 3,019  | 3,027   |
| 21/18  | 2,228   | 1,751   | 1,881   | 2,168  | 2,474  | 2,616  | 2,711   | 2,802   | 2,975  | 2,914   | 2,827   | 2,816  | 2,832  | 2,754   |
| 24/21  | 1,895   | 1,669   | 1,834   | 2,190  | 2,407  | 2,537  | 2,603   | 2,738   | 3,035  | 2,929   | 2,751   | 2,723  | 2,771  |   |
| 24/12  | 7,741   | 6,361   | 6,360   | 7,576  | 8,762  | 9,141  | 9,420   | 9,576   | 10,215   | 9,966   | 9,297   | 9,241  | 9,362  |   |
| 27/24  | 2,287   | 1,720   | 1,495   | 1,728  | 2,214  | 2,353  | 2,531   | 2,563   | 2,740  | 3,022   | 2,858   | 2,781  | 2,809  | 2,918   |
| 30/27  | 2,263   | 1,653   | 1,865   | 1,801  | 2,337  | 2,607  | 2,708   | 2,857   | 2,988  | 3,162   | 3,035   | 3,033  | 3,066  | 3,032   |
| 33/30  | 2,011   | 1,544   | 1,632   | 1,807  | 2,342  | 2,560  | 2,770   | 2,912   | 3,100  | 3,196   | 3,176   | 2,997  | 2,996  | 2,876   |
| 36/33  | 1,822   | 1,591   | 1,704   | 1,965  | 2,389  | 2,596  | 2,731   | 2,889   | 3,406  | 3,308   | 3,122   | 3,141  | 3,039  |   |
| 36/24  | 7,441   | 5,781   | 5,540   | 6,452  | 8,158  | 8,942  | 9,452   | 9,861   | 10,661   | 11,007  | 10,475  | 10,136   | 10,082   |   |
| 39/36  | 2,056   | 1,670   | 1,471   | 1,710  | 2,032  | 2,278  | 2,500   | 2,680   | 3,019  | 3,258   | 3,170   | 3,261  | 3,022  | 3,044   |
| 42/39  | 2,079   | 1,602   | 1,981   | 1,791  | 2,146  | 2,524  | 2,786   | 2,944   | 3,124  | 3,539   | 3,461   | 3,361  | 3,124  | 3,266   |
| 45/42  | 1,931   | 1,595   | 1,646   | 1,836  | 2,166  | 2,517  | 2,735   | 3,083   | 3,246  | 3,427   | 3,691   | 3,368  | 3,243  | 2,992   |
| 48/45  | 1,839   | 1,634   | 1,812   | 1,953  | 2,251  | 2,551  | 2,913   | 3,072   | 3,411  | 3,629   | 3,436   | 3,356  | 3,368  |   |
| 48/36  | 6,854   | 5,676   | 5,551   | 6,360  | 7,478  | 8,645  | 9,621   | 10,316  | 11,224   | 12,024  | 11,854  | 11,412   | 10,770   |   |
| Developme  | nt  |   |   |  |  | V  | a Vaar Cha  |   |  |   |   |  |  |   |
| Period   |   |   |   |  |  |  |   |   |  |   |   |  |  |   |
|  | 03-10-04  | 04-to-05  | 05-to-06  | 06-to-07   | 07-to-08   |  | o-Year Cha<br>09-to-10  |   | 11-to-12   | 12-to-13  | 13-to-14  | 14-to-15   | 15-to-16   | 16-to-17  |
| 3/0  | 03-to-04<br>-13 4%  | 04-to-05<br>50.7%   | 05-to-06<br>8.8%  | 06-to-07   | 07-to-08   | 08-to-09   | <u>09-to-10</u>   | 10-to-11  | 11-to-12   | 12-to-13<br>-0.8%   | 13-to-14<br>5.6%  | 14-to-15   | 15-to-16   | 16-to-17  |
| 3/0<br>6/3   | -13.4%  | 50.7%   | 8.8%  | -4.6%  | 12.4%  | 08-to-09<br>20.5%  | 09-to-10<br>4.0%  | 10-to-11<br>6.1%  | -6.6%  | -0.8%   | 5.6%  | 10.4%  | -5.9%  | 21.5%   |
| 6/3  | -13.4%<br>-4.0%   | 50.7%<br>11.6%  | 8.8%<br>17.9%   | -4.6%<br>-6.0%   | 12.4%<br>23.2%   | 08-to-09<br>20.5%<br>5.5%  | 09-to-10<br>4.0%<br>1.4%  | 10-to-11<br>6.1%<br>2.2%  | -6.6%<br>-4.4%   | -0.8%<br>0.4%   | 5.6%<br>-4.2%   | 10.4%<br>10.0%   | -5.9%<br>-0.1%   | 21.5%<br>6.3%   |
| 6/3<br>9/6   | -13.4%<br>-4.0%<br>-8.8%  | 50.7%<br>11.6%<br>-1.6%   | 8.8%<br>17.9%<br>19.1%  | -4.6%<br>-6.0%<br>3.1%   | 12.4%<br>23.2%<br>17.3%  | 08-to-09<br>20.5%<br>5.5%<br>7.0%  | 09-to-10<br>4.0%<br>1.4%<br>-0.7%   | 10-to-11<br>6.1%<br>2.2%<br>-0.9%   | -6.6%<br>-4.4%<br>1.3%   | -0.8%<br>0.4%<br>3.9%   | 5.6%<br>-4.2%<br>-5.6%  | 10.4%<br>10.0%<br>-0.1%  | -5.9%<br>-0.1%<br>3.6%   | 21.5%   |
| 6/3  | -13.4%<br>-4.0%   | 50.7%<br>11.6%  | 8.8%<br>17.9%   | -4.6%<br>-6.0%   | 12.4%<br>23.2%   | 08-to-09<br>20.5%<br>5.5%  | 09-to-10<br>4.0%<br>1.4%  | 10-to-11<br>6.1%<br>2.2%  | -6.6%<br>-4.4%   | -0.8%<br>0.4%   | 5.6%<br>-4.2%   | 10.4%<br>10.0%   | -5.9%<br>-0.1%   | 21.5%<br>6.3%   |
| 6/3<br>9/6<br>12/9<br>12/0   | -13.4%<br>-4.0%<br>-8.8%<br>-14.0%  | 50.7%<br>11.6%<br>-1.6%<br>5.3%<br>8.4%   | 8.8%<br>17.9%<br>19.1%<br>11.8%<br>13.0%  | -4.6%<br>-6.0%<br>3.1%<br>11.0%<br><b>5.5%</b>   | 12.4%<br>23.2%<br>17.3%<br>11.7%<br>18.2%  | 08-to-09<br>20.5%<br>5.5%<br>7.0%<br>2.1%<br>3.2%                                | 09-to-10<br>4.0%<br>1.4%<br>-0.7%<br>1.9%<br>-0.9%                                    | 10-to-11<br>6.1%<br>2.2%<br>-0.9%<br>-2.2%<br>-1.5%   | -6.6%<br>-4.4%<br>1.3%<br>5.8%<br>1.0%   | -0.8%<br>0.4%<br>3.9%<br>-6.5%<br>-1.2%   | 5.6%<br>-4.2%<br>-5.6%<br>-1.5%<br>-2.6%  | 10.4%<br>10.0%<br>-0.1%<br>-1.3%<br>1.4%   | -5.9%<br>-0.1%<br>3.6%<br>7.7%<br><b>3.9%</b>                            | 21.5%<br>6.3%<br>2.6%   |
| 6/3<br>9/6<br>12/9<br><b>12/0</b><br>15/12   | -13.4%<br>-4.0%<br>-8.8%<br>-14.0%<br>-10.1%  | 50.7%<br>11.6%<br>-1.6%<br>5.3%<br>8.4%   | 8.8%<br>17.9%<br>19.1%<br>11.8%<br>13.0%  | -4.6%<br>-6.0%<br>3.1%<br>11.0%<br>5.5%  | 12.4%<br>23.2%<br>17.3%<br>11.7%<br>18.2%  | 08-to-09<br>20.5%<br>5.5%<br>7.0%<br>2.1%<br>3.2%                                | 09-to-10 4.0% 1.4% -0.7% 1.9% -0.9% 3.0%  | 10-to-11<br>6.1%<br>2.2%<br>-0.9%<br>-2.2%<br>-1.5%   | -6.6% -4.4% 1.3% 5.8% 1.0% 6.2%  | -0.8%<br>0.4%<br>3.9%<br>-6.5%<br>-1.2%   | 5.6%<br>-4.2%<br>-5.6%<br>-1.5%<br>-2.6%<br>-7.4%   | 10.4%<br>10.0%<br>-0.1%<br>-1.3%<br>1.4%   | -5.9%<br>-0.1%<br>3.6%<br>7.7%<br>3.9%<br>0.2%                           | 21.5%<br>6.3%<br>2.6%   |
| 6/3<br>9/6<br>12/9<br>12/0<br>15/12<br>18/15   | -13.4%<br>-4.0%<br>-8.8%<br>-14.0%<br>-10.1%<br>0.1%<br>-5.5%   | 50.7%<br>11.6%<br>-1.6%<br>5.3%<br>8.4%<br>-17.4%<br>-20.6%                                       | 8.8%<br>17.9%<br>19.1%<br>11.8%<br>13.0%<br>1.2%<br>15.9%                           | -4.6% -6.0% 3.1% 11.0% 5.5% 12.6% -10.1%   | 12.4% 23.2% 17.3% 11.7% 18.2% 13.8% 22.6%  | 08-to-09<br>20.5%<br>5.5%<br>7.0%<br>2.1%<br>3.2%<br>3.9%<br>3.9%                | 09-to-10 4.0% 1.4% -0.7% 1.9% -0.9% 3.0% 5.0%   | 10-to-11<br>6.1%<br>2.2%<br>-0.9%<br>-2.2%<br>-1.5%<br>0.9%<br>2.0%   | -6.6% -4.4% 1.3% 5.8% 1.0% 6.2% 8.0%   | -0.8%<br>0.4%<br>3.9%<br>-6.5%<br>-1.2%<br>-1.1%  | 5.6% -4.2% -5.6% -1.5% -2.6% -7.4% -10.9%   | 10.4%<br>10.0%<br>-0.1%<br>-1.3%<br>1.4%<br>1.9%<br>1.3%                                   | -5.9%<br>-0.1%<br>3.6%<br>7.7%<br><b>3.9%</b><br>0.2%<br>5.0%            | 21.5%<br>6.3%<br>2.6%<br>10.7%<br>0.3%                                    |
| 6/3<br>9/6<br>12/9<br>12/0<br>15/12<br>18/15<br>21/18  | -13.4%<br>-4.0%<br>-8.8%<br>-14.0%<br>-10.1%<br>0.1%<br>-5.5%<br>-13.6%                                 | 50.7%<br>11.6%<br>-1.6%<br>5.3%<br>8.4%<br>-17.4%<br>-20.6%<br>-21.4%                             | 8.8%<br>17.9%<br>19.1%<br>11.8%<br>13.0%<br>1.2%<br>15.9%<br>7.4%                   | -4.6%<br>-6.0%<br>3.1%<br>11.0%<br>5.5%<br>12.6%<br>-10.1%<br>15.3%                      | 12.4%<br>23.2%<br>17.3%<br>11.7%<br>18.2%<br>13.8%<br>22.6%<br>14.1%                     | 08-to-09<br>20.5%<br>5.5%<br>7.0%<br>2.1%<br>3.2%<br>3.9%<br>3.9%<br>5.8%        | 09-to-10 4.0% 1.4% -0.7% 1.9% -0.9% 3.0% 5.0% 3.6%                                    | 10-to-11<br>6.1%<br>2.2%<br>-0.9%<br>-2.2%<br>-1.5%<br>0.9%<br>2.0%<br>3.4%   | -6.6% -4.4% 1.3% 5.8% 1.0% 6.2% 8.0% 6.2%                                      | -0.8%<br>0.4%<br>3.9%<br>-6.5%<br>-1.2%<br>-1.1%<br>-1.1%<br>-2.1%                        | 5.6% -4.2% -5.6% -1.5% -2.6% -7.4% -10.9% -3.0%   | 10.4%<br>10.0%<br>-0.1%<br>-1.3%<br>1.4%<br>1.9%<br>1.3%<br>-0.4%                          | -5.9% -0.1% 3.6% 7.7% 3.9% 0.2% 5.0% 0.6%                                | 21.5%<br>6.3%<br>2.6%   |
| 6/3<br>9/6<br>12/9<br>12/0<br>15/12<br>18/15   | -13.4%<br>-4.0%<br>-8.8%<br>-14.0%<br>-10.1%<br>0.1%<br>-5.5%   | 50.7%<br>11.6%<br>-1.6%<br>5.3%<br>8.4%<br>-17.4%<br>-20.6%                                       | 8.8%<br>17.9%<br>19.1%<br>11.8%<br>13.0%<br>1.2%<br>15.9%                           | -4.6% -6.0% 3.1% 11.0% 5.5% 12.6% -10.1%   | 12.4% 23.2% 17.3% 11.7% 18.2% 13.8% 22.6%  | 08-to-09<br>20.5%<br>5.5%<br>7.0%<br>2.1%<br>3.2%<br>3.9%<br>3.9%                | 09-to-10 4.0% 1.4% -0.7% 1.9% -0.9% 3.0% 5.0%   | 10-to-11<br>6.1%<br>2.2%<br>-0.9%<br>-2.2%<br>-1.5%<br>0.9%<br>2.0%   | -6.6% -4.4% 1.3% 5.8% 1.0% 6.2% 8.0%   | -0.8%<br>0.4%<br>3.9%<br>-6.5%<br>-1.2%<br>-1.1%  | 5.6% -4.2% -5.6% -1.5% -2.6% -7.4% -10.9%   | 10.4%<br>10.0%<br>-0.1%<br>-1.3%<br>1.4%<br>1.9%<br>1.3%                                   | -5.9%<br>-0.1%<br>3.6%<br>7.7%<br><b>3.9%</b><br>0.2%<br>5.0%            | 21.5%<br>6.3%<br>2.6%<br>10.7%<br>0.3%                                    |
| 6/3<br>9/6<br>12/9<br>12/0<br>15/12<br>18/15<br>21/18<br>24/21<br>24/12  | -13.4% -4.0% -8.8% -14.0% -10.1% -5.5% -13.6% -22.1% -7.9%  | 50.7% 11.6% -1.6% 5.3% 8.4% -17.4% -20.6% -21.4% -11.9%   | 8.8%<br>17.9%<br>19.1%<br>11.8%<br>13.0%<br>1.2%<br>15.9%<br>7.4%<br>9.8%           | -4.6% -6.0% 3.1% 11.0% 5.5% 12.6% -10.1% 15.3% 19.4%                                     | 12.4% 23.2% 17.3% 11.7% 18.2% 13.8% 22.6% 14.1% 9.9%                                     | 08-to-09 20.5% 5.5% 7.0% 2.1% 3.2% 3.9% 3.9% 5.8% 5.4% 4.3%                      | 09-to-10 4.0% 1.4% -0.7% 1.9% -0.9% 3.0% 5.0% 3.6% 2.6% 3.0%                          | 10-to-11<br>6.1%<br>2.2%<br>-0.9%<br>-2.2%<br>-1.5%<br>0.9%<br>2.0%<br>3.4%<br>5.2%   | -6.6% -4.4% 1.3% 5.8% 1.0% 6.2% 8.0% 6.2% 10.8% 6.7%                           | -0.8% 0.4% 3.9% -6.5% -1.2% -1.1% -1.1% -2.1% -3.5%                                       | 5.6% -4.2% -5.6% -1.5% -2.6% -7.4% -10.9% -3.0% -6.1%                                     | 10.4%<br>10.0%<br>-0.1%<br>-1.3%<br>1.4%<br>1.9%<br>1.3%<br>-0.4%<br>-1.0%                 | -5.9% -0.1% 3.6% 7.7% 3.9% 0.2% 5.0% 0.6% 1.8%                           | 21.5%<br>6.3%<br>2.6%<br>10.7%<br>0.3%<br>-2.7%                           |
| 6/3<br>9/6<br>12/9<br>12/0<br>15/12<br>18/15<br>21/18<br>24/21<br>24/12  | -13.4% -4.0% -8.8% -14.0% -10.1% -5.5% -13.6% -22.1% -7.9% 0.0%   | 50.7% 11.6% -1.6% 5.3% 8.4% -17.4% -20.6% -21.4% -11.9% -17.8%                                    | 8.8% 17.9% 19.1% 11.8% 13.0% 1.2% 15.9% 7.4% 9.8% 0.0%                              | -4.6% -6.0% 3.1% 11.0% 5.5% 12.6% -10.1% 15.3% 19.4% 19.1%                               | 12.4% 23.2% 17.3% 11.7% 18.2% 13.8% 22.6% 14.1% 9.9% 15.7% 28.1%                         | 08-to-09 20.5% 5.5% 7.0% 2.1% 3.2% 3.9% 5.8% 5.4% 4.3% 6.3%                      | 09-to-10 4.0% 1.4% -0.7% 1.9% -0.9% 3.0% 5.0% 3.6% 2.6% 3.0%                          | 10-to-11<br>6.1%<br>2.2%<br>-0.9%<br>-2.2%<br>-1.5%<br>0.9%<br>2.0%<br>3.4%<br>5.2%<br>1.7%                                 | -6.6% -4.4% 1.3% 5.8% 1.0% 6.2% 8.0% 6.2% 10.8% 6.7%                           | -0.8% 0.4% 3.9% -6.5% -1.2% -1.1% -1.1% -2.1% -3.5% -2.4%                                 | 5.6% -4.2% -5.6% -1.5% -2.6% -7.4% -10.9% -3.0% -6.1% -6.7%                               | 10.4%<br>10.0%<br>-0.1%<br>-1.3%<br>1.4%<br>1.9%<br>1.3%<br>-0.4%<br>-1.0%<br>-0.6%        | -5.9% -0.1% 3.6% 7.7% 3.9% 0.2% 5.0% 0.6% 1.8% 1.3%                      | 21.5%<br>6.3%<br>2.6%<br>10.7%<br>0.3%<br>-2.7%                           |
| 6/3<br>9/6<br>12/9<br>12/0<br>15/12<br>18/15<br>21/18<br>24/21<br>24/12<br>27/24<br>30/27                            | -13.4% -4.0% -8.8% -14.0% -10.1% -5.5% -13.6% -22.1% -7.9% -0.0% -0.4%                                  | 50.7% 11.6% -1.6% 5.3% 8.4% -17.4% -20.6% -21.4% -11.9% -17.8% -24.8% -27.0%                      | 8.8% 17.9% 19.1% 11.8% 13.0% 1.2% 15.9% 7.4% 9.8% 0.0% -13.1% 12.8%                 | -4.6% -6.0% 3.1% 11.0% 5.5% 12.6% -10.1% 15.3% 19.4% 19.1% 15.6% -3.5%                   | 12.4% 23.2% 17.3% 11.7% 18.2% 13.8% 22.6% 14.1% 9.9% 15.7% 28.1% 29.8%                   | 08-to-09 20.5% 5.5% 7.0% 2.1% 3.2% 3.9% 5.8% 5.4% 4.3% 6.3% 11.5%                | 09-to-10 4.0% 1.4% -0.7% 1.9% -0.9% 3.0% 5.0% 3.6% 2.6% 3.0% 7.6% 3.9%                | 10-to-11<br>6.1%<br>2.2%<br>-0.9%<br>-2.2%<br>-1.5%<br>0.9%<br>2.0%<br>3.4%<br>5.2%<br>1.7%<br>1.2%<br>5.5%                 | -6.6% -4.4% 1.3% 5.8% 1.0% 6.2% 8.0% 6.2% 10.8% 6.7% 6.9% 4.6%                 | -0.8% 0.4% 3.9% -6.5% -1.2% -1.1% -1.1% -2.1% -3.5% -2.4% 10.3% 5.8%                      | 5.6% -4.2% -5.6% -1.5% -2.6% -7.4% -10.9% -3.0% -6.1% -6.7% -5.4% -4.0%                   | 10.4% 10.0% -0.1% -1.3% 1.4% 1.9% 1.3% -0.4% -1.0% -0.6% -2.7% -0.1%                       | -5.9% -0.1% 3.6% 7.7% 3.9% 0.2% 5.0% 0.6% 1.8% 1.3% 1.0% 1.1%            | 21.5%<br>6.3%<br>2.6%<br>10.7%<br>0.3%<br>-2.7%                           |
| 6/3<br>9/6<br>12/9<br>12/0<br>15/12<br>18/15<br>21/18<br>24/21<br>24/12<br>27/24<br>30/27<br>33/30                   | -13.4% -4.0% -8.8% -14.0% -10.1% -5.5% -13.6% -22.1% -7.9% -0.0% -0.4% -10.0%                           | 50.7% 11.6% -1.6% 5.3% 8.4% -17.4% -20.6% -21.4% -11.9% -17.8% -24.8% -23.2%                      | 8.8% 17.9% 19.1% 11.8% 13.0% 1.2% 15.9% 7.4% 9.8% 0.0% -13.1% 12.8% 5.7%            | -4.6% -6.0% 3.1% 11.0% 5.5% 12.6% -10.1% 15.3% 19.4% 19.1% 15.6% -3.5% 10.7%             | 12.4% 23.2% 17.3% 11.7% 18.2% 13.8% 22.6% 14.1% 9.9% 15.7% 28.1% 29.8% 29.6%             | 08-to-09 20.5% 5.5% 7.0% 2.1% 3.2% 3.9% 5.8% 5.4% 4.3% 6.3% 11.5% 9.3%           | 09-to-10 4.0% 1.4% -0.7% 1.9% -0.9% 3.0% 5.0% 3.6% 2.6% 3.0% 7.6% 3.9% 8.2%           | 10-to-11<br>6.1%<br>2.2%<br>-0.9%<br>-2.2%<br>-1.5%<br>0.9%<br>2.0%<br>3.4%<br>5.2%<br>1.7%<br>1.2%<br>5.5%<br>5.1%         | -6.6% -4.4% 1.3% 5.8% 1.0% 6.2% 8.0% 6.2% 10.8% 6.7% 6.9% 4.6% 6.5%            | -0.8% 0.4% 3.9% -6.5% -1.2% -1.1% -1.1% -2.1% -3.5% -2.4% 10.3% 5.8% 3.1%                 | 5.6% -4.2% -5.6% -1.5% -2.6% -7.4% -10.9% -3.0% -6.1% -6.7% -5.4% -4.0% -0.6%             | 10.4% 10.0% -0.1% -1.3% 1.4% 1.9% 1.3% -0.4% -1.0% -0.6% -2.7% -0.1% -5.7%                 | -5.9% -0.1% 3.6% 7.7% 3.9% 0.2% 5.0% 0.6% 1.8% 1.3% 1.0% 1.1% 0.0%       | 21.5%<br>6.3%<br>2.6%<br>10.7%<br>0.3%<br>-2.7%                           |
| 6/3<br>9/6<br>12/9<br>12/0<br>15/12<br>18/15<br>21/18<br>24/21<br>24/12<br>27/24<br>30/27                            | -13.4% -4.0% -8.8% -14.0% -10.1% -5.5% -13.6% -22.1% -7.9% -0.0% -0.4%                                  | 50.7% 11.6% -1.6% 5.3% 8.4% -17.4% -20.6% -21.4% -11.9% -17.8% -24.8% -27.0%                      | 8.8% 17.9% 19.1% 11.8% 13.0% 1.2% 15.9% 7.4% 9.8% 0.0% -13.1% 12.8%                 | -4.6% -6.0% 3.1% 11.0% 5.5% 12.6% -10.1% 15.3% 19.4% 19.1% 15.6% -3.5%                   | 12.4% 23.2% 17.3% 11.7% 18.2% 13.8% 22.6% 14.1% 9.9% 15.7% 28.1% 29.8%                   | 08-to-09 20.5% 5.5% 7.0% 2.1% 3.2% 3.9% 5.8% 5.4% 4.3% 6.3% 11.5%                | 09-to-10 4.0% 1.4% -0.7% 1.9% -0.9% 3.0% 5.0% 3.6% 2.6% 3.0% 7.6% 3.9%                | 10-to-11<br>6.1%<br>2.2%<br>-0.9%<br>-2.2%<br>-1.5%<br>0.9%<br>2.0%<br>3.4%<br>5.2%<br>1.7%<br>1.2%<br>5.5%                 | -6.6% -4.4% 1.3% 5.8% 1.0% 6.2% 8.0% 6.2% 10.8% 6.7% 6.9% 4.6%                 | -0.8% 0.4% 3.9% -6.5% -1.2% -1.1% -1.1% -2.1% -3.5% -2.4% 10.3% 5.8%                      | 5.6% -4.2% -5.6% -1.5% -2.6% -7.4% -10.9% -3.0% -6.1% -6.7% -5.4% -4.0%                   | 10.4% 10.0% -0.1% -1.3% 1.4% 1.9% 1.3% -0.4% -1.0% -0.6% -2.7% -0.1%                       | -5.9% -0.1% 3.6% 7.7% 3.9% 0.2% 5.0% 0.6% 1.8% 1.3% 1.0% 1.1%            | 21.5%<br>6.3%<br>2.6%<br>10.7%<br>0.3%<br>-2.7%                           |
| 6/3<br>9/6<br>12/9<br>12/0<br>15/12<br>18/15<br>21/18<br>24/21<br>24/12<br>27/24<br>30/27<br>33/30<br>36/33<br>36/24 | -13.4% -4.0% -8.8% -14.0% -10.1% -5.5% -13.6% -22.1% -7.9% -0.0% -10.0% -18.9% -5.9%                    | 50.7% 11.6% -1.6% 5.3% 8.4% -17.4% -20.6% -21.4% -11.9% -17.8% -24.8% -27.0% -23.2% -12.7%        | 8.8% 17.9% 19.1% 11.8% 13.0% 1.2% 15.9% 7.4% 9.8% 0.0% -13.1% 12.8% 5.7% 7.1% -4.2% | -4.6% -6.0% 3.1% 11.0% 5.5% 12.6% -10.1% 15.3% 19.4% 19.1% 15.6% -3.5% 10.7% 15.3% 16.5% | 12.4% 23.2% 17.3% 11.7% 18.2% 13.8% 22.6% 14.1% 9.9% 15.7% 28.1% 29.6% 21.6% 26.4%       | 08-to-09 20.5% 5.5% 7.0% 2.1% 3.2% 3.9% 5.8% 5.4% 4.3% 6.3% 11.5% 9.3% 8.7% 9.6% | 09-to-10 4.0% 1.4% -0.7% 1.9% -0.9% 3.0% 5.0% 3.6% 2.6% 3.9% 8.2% 5.2% 5.7%           | 10-to-11<br>6.1%<br>2.2%<br>-0.9%<br>-2.2%<br>-1.5%<br>0.9%<br>2.0%<br>3.4%<br>5.2%<br>1.7%<br>1.2%<br>5.5%<br>5.1%<br>5.8% | -6.6% -4.4% 1.3% 5.8% 1.0% 6.2% 8.0% 6.2% 10.8% 6.7% 6.9% 4.6% 6.5% 17.9% 8.1% | -0.8% 0.4% 3.9% -6.5% -1.2% -1.1% -1.1% -2.1% -3.5% -2.4% 10.3% 5.8% 3.1% -2.9% 3.2%      | 5.6% -4.2% -5.6% -1.5% -2.6% -7.4% -10.9% -3.0% -6.1% -6.7% -5.4% -4.0% -0.6% -5.6% -4.8% | 10.4% 10.0% -0.1% -1.3% 1.4% 1.9% 1.3% -0.4% -1.0% -0.6% -2.7% -0.1% -5.7% 0.6% -3.2%      | -5.9% -0.1% 3.6% 7.7% 3.9% 0.2% 5.0% 0.6% 1.8% 1.3% 1.0% 1.1% 0.0% -3.2% | 21.5%<br>6.3%<br>2.6%<br>10.7%<br>0.3%<br>-2.7%<br>3.9%<br>-1.1%<br>-4.0% |
| 6/3 9/6 12/9 12/0 15/12 18/15 21/18 24/21 24/12 27/24 30/27 33/30 36/33 36/24  | -13.4% -4.0% -8.8% -14.0%  -10.1%  0.1% -5.5% -13.6% -22.1% -7.9%  0.0% -0.4% -10.0% -18.9% -5.9%  2.7% | 50.7% 11.6% -1.6% 5.3% 8.4% -17.4% -20.6% -21.4% -11.9% -17.8% -24.8% -27.0% -23.2% -12.7% -22.3% | 8.8% 17.9% 19.1% 11.8% 13.0% 1.2% 15.9% 7.4% 9.8% 0.0% -13.1% 12.8% 5.7% 7.1% -4.2% | -4.6% -6.0% 3.1% 11.0% 5.5% 12.6% -10.1% 15.3% 19.4% 19.1% 15.6% -3.5% 10.7% 15.3% 16.5% | 12.4% 23.2% 17.3% 11.7% 18.2% 13.8% 22.6% 14.1% 9.9% 15.7% 28.1% 29.6% 21.6% 26.4% 18.8% | 08-to-09 20.5% 5.5% 7.0% 2.1% 3.2% 3.9% 5.8% 5.4% 4.3% 6.3% 11.5% 9.3% 8.7% 9.6% | 09-to-10 4.0% 1.4% -0.7% 1.9% -0.9% 3.0% 5.0% 3.6% 2.6% 3.0% 7.6% 3.9% 8.2% 5.2% 5.7% | 10-to-11<br>6.1%<br>2.2%<br>-0.9%<br>-2.2%<br>-1.5%<br>0.9%<br>2.0%<br>3.4%<br>5.2%<br>1.7%<br>5.5%<br>5.1%<br>5.8%<br>4.3% | -6.6% -4.4% 1.3% 5.8% 1.0% 6.2% 8.0% 6.2% 10.8% 6.7% 6.9% 4.6% 6.5% 17.9% 8.1% | -0.8% 0.4% 3.9% -6.5% -1.2% -1.1% -1.1% -2.1% -3.5% -2.4% 10.3% 5.8% 3.1% -2.9% 3.2% 7.9% | 5.6% -4.2% -5.6% -1.5% -2.6% -7.4% -10.9% -3.0% -6.1% -6.7% -5.4% -4.0% -0.6% -5.6% -4.8% | 10.4% 10.0% -0.1% -1.3% 1.4% 1.9% 1.3% -0.4% -1.0% -0.6% -2.7% -0.1% -5.7% 0.6% -3.2% 2.9% | -5.9% -0.1% 3.6% 7.7% 3.9% 0.2% 5.0% 0.6% 1.8% 1.3% 1.0% -3.2% -0.5%     | 21.5%<br>6.3%<br>2.6%<br>10.7%<br>0.3%<br>-2.7%<br>3.9%<br>-1.1%<br>-4.0% |
| 6/3<br>9/6<br>12/9<br>12/0<br>15/12<br>18/15<br>21/18<br>24/21<br>24/12<br>27/24<br>30/27<br>33/30<br>36/33<br>36/24 | -13.4% -4.0% -8.8% -14.0% -10.1% -5.5% -13.6% -22.1% -7.9% -0.0% -10.0% -18.9% -5.9%                    | 50.7% 11.6% -1.6% 5.3% 8.4% -17.4% -20.6% -21.4% -11.9% -17.8% -24.8% -27.0% -23.2% -12.7%        | 8.8% 17.9% 19.1% 11.8% 13.0% 1.2% 15.9% 7.4% 9.8% 0.0% -13.1% 12.8% 5.7% 7.1% -4.2% | -4.6% -6.0% 3.1% 11.0% 5.5% 12.6% -10.1% 15.3% 19.4% 19.1% 15.6% -3.5% 10.7% 15.3% 16.5% | 12.4% 23.2% 17.3% 11.7% 18.2% 13.8% 22.6% 14.1% 9.9% 15.7% 28.1% 29.6% 21.6% 26.4%       | 08-to-09 20.5% 5.5% 7.0% 2.1% 3.2% 3.9% 5.8% 5.4% 4.3% 6.3% 11.5% 9.3% 8.7% 9.6% | 09-to-10 4.0% 1.4% -0.7% 1.9% -0.9% 3.0% 5.0% 3.6% 2.6% 3.9% 8.2% 5.2% 5.7%           | 10-to-11<br>6.1%<br>2.2%<br>-0.9%<br>-2.2%<br>-1.5%<br>0.9%<br>2.0%<br>3.4%<br>5.2%<br>1.7%<br>1.2%<br>5.5%<br>5.1%<br>5.8% | -6.6% -4.4% 1.3% 5.8% 1.0% 6.2% 8.0% 6.2% 10.8% 6.7% 6.9% 4.6% 6.5% 17.9% 8.1% | -0.8% 0.4% 3.9% -6.5% -1.2% -1.1% -1.1% -2.1% -3.5% -2.4% 10.3% 5.8% 3.1% -2.9% 3.2%      | 5.6% -4.2% -5.6% -1.5% -2.6% -7.4% -10.9% -3.0% -6.1% -6.7% -5.4% -4.0% -0.6% -5.6% -4.8% | 10.4% 10.0% -0.1% -1.3% 1.4% 1.9% 1.3% -0.4% -1.0% -0.6% -2.7% -0.1% -5.7% 0.6% -3.2%      | -5.9% -0.1% 3.6% 7.7% 3.9% 0.2% 5.0% 0.6% 1.8% 1.3% 1.0% 1.1% 0.0% -3.2% | 21.5%<br>6.3%<br>2.6%<br>10.7%<br>0.3%<br>-2.7%<br>3.9%<br>-1.1%<br>-4.0% |

<sup>\*</sup> 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.

15.6%

Source: WCIRB accident year experience calls.

-3.4%

-17.2%

-2.2%

14.6%

17.6%

48/36

11.3%

-1.4%

-3.7%

7.1%

-5.6%

8.8%

7.2%

### **Estimated Ultimate Severities by Injury Type**

|             |                |                  | ,              | everity Adjusted |             |                        |                 |              |                | verity Adjusted | to PY 2018  |
|-------------|----------------|------------------|----------------|------------------|-------------|------------------------|-----------------|--------------|----------------|-----------------|-------------|
|             |                | mnity Severity   |                | Benefit Level    |             |                        | ate Medical Sev |              |                | Benefit Level** |             |
| Accident    | Permanent      |                  | Permanent      |                  | Accident    | Permanent              |                 | Medical      | Permanent      |                 | Medical     |
| <u>Year</u> | <u>Partial</u> | <u>Temporary</u> | <u>Partial</u> | <u>Temporary</u> | <u>Year</u> | <u>Partial</u>         | Temporary       | <u>Only</u>  | <u>Partial</u> | Temporary       | <u>Only</u> |
| 2001        | 44,515         | 3,975            | 45,254         | 5,808            | 2001        | 49,603                 | 5,005           | 764          | 30,560         | 3,084           | 471         |
| 2002        | 42,212         | 3,959            | 44,390         | 5,814            | 2002        | 49,834                 | 5,421           | 855          | 31,886         | 3,468           | 547         |
| 2003        | 41,485         | 4,189            | 46,015         | 5,685            | 2003        | 48,429                 | 5,660           | 923          | 32,510         | 3,800           | 619         |
| 2004        | 35,505         | 4,116            | 48,989         | 5,453            | 2004        | 48,768                 | 5,382           | 847          | 43,303         | 4,779           | 752         |
| 2005        | 34,072         | 3,843            | 56,152         | 5,001            | 2005        | 53,439                 | 5,371           | 862          | 47,451         | 4,769           | 765         |
| 2006        | 36,712         | 3,861            | 55,715         | 4,897            | 2006        | 57,519                 | 5,539           | 886          | 50,870         | 4,899           | 784         |
| 2007        | 39,318         | 4,214            | 57,276         | 5,228            | 2007        | 63,250                 | 6,433           | 960          | 54,894         | 5,583           | 834         |
| 2008        | 41,562         | 4,675            | 54,711         | 5,686            | 2008        | 66,610                 | 7,162           | 1,043        | 57,580         | 6,191           | 901         |
| 2009        | 41,780         | 5,244            | 54,713         | 6,333            | 2009        | 67,553                 | 7,823           | 1,153        | 58,163         | 6,735           | 993         |
| 2010        | 40,814         | 6,221            | 52,731         | 7,402            | 2010        | 66,531                 | 9,057           | 1,183        | 57,111         | 7,774           | 1,015       |
| 2011        | 39,072         | 6,790            | 49,686         | 7,952            | 2011        | 60,825                 | 9,052           | 1,130        | 53,120         | 7,905           | 987         |
| 2012        | 39,820         | 7,188            | 49,462         | 8,217            | 2012        | 58,107                 | 9,004           | 1,130        | 52,263         | 8,098           | 1,016       |
| 2013        | 37,415         | 7,698            | 45,113         | 8,758            | 2013        | 54,923                 | 8,855           | 1,152        | 53,107         | 8,562           | 1,114       |
| 2014        | 39,183         | 7,899            | 43,087         | 8,825            | 2014        | 53,046                 | 8,771           | 1,226        | 54,116         | 8,947           | 1,251       |
| 2015        | 40.007         | 8,453            | 42,942         | 9,192            | 2015        | 53,895                 | 9,454           | 1,248        | 54,871         | 9,626           | 1,271       |
| 2016*       | 40,509         | 8,917            | 42,718         | 9,497            | 2016*       | 53,879                 | 9,633           | 1,323        | 54,637         | 9,768           | 1,342       |
| Accident    |                |                  |                |                  | Accident    |                        |                 |              |                |                 |             |
| Year        | Annual         | Change           | Annua          | l Change         | <u>Year</u> |                        | Annual Change   | <del>j</del> |                | Annual Change   | <u> </u>    |
| 2001        |                |                  |                |                  | 2001        |                        |                 |              |                |                 |             |
| 2002        | -5.2%          | -0.4%            | -1.9%          | 0.1%             | 2002        | 0.5%                   | 8.3%            | 11.9%        | 4.3%           | 12.5%           | 16.3%       |
| 2003        | -1.7%          | 5.8%             | 3.7%           | -2.2%            | 2003        | -2.8%                  | 4.4%            | 7.9%         | 2.0%           | 9.5%            | 13.2%       |
| 2004        | -14.4%         | -1.8%            | 6.5%           | -4.1%            | 2004        | 0.7%                   | -4.9%           | -8.2%        | 33.2%          | 25.8%           | 21.5%       |
| 2005        | -4.0%          | -6.6%            | 14.6%          | -8.3%            | 2005        | 9.6%                   | -0.2%           | 1.7%         | 9.6%           | -0.2%           | 1.7%        |
| 2006        | 7.7%           | 0.5%             | -0.8%          | -2.1%            | 2006        | 7.6%                   | 3.1%            | 2.8%         | 7.2%           | 2.7%            | 2.4%        |
| 2007        | 7.1%           | 9.1%             | 2.8%           | 6.8%             | 2007        | 10.0%                  | 16.1%           | 8.4%         | 7.9%           | 14.0%           | 6.3%        |
| 2008        | 5.7%           | 10.9%            | -4.5%          | 8.7%             | 2008        | 5.3%                   | 11.3%           | 8.6%         | 4.9%           | 10.9%           | 8.1%        |
| 2009        | 0.5%           | 12.2%            | 0.0%           | 11.4%            | 2009        | 1.4%                   | 9.2%            | 10.6%        | 1.0%           | 8.8%            | 10.1%       |
| 2010        | -2.3%          | 18.6%            | -3.6%          | 16.9%            | 2010        | -1.5%                  | 15.8%           | 2.6%         | -1.8%          | 15.4%           | 2.3%        |
| 2010        | -4.3%          | 9.2%             | -5.8%          | 7.4%             | 2011        | -8.6%                  | -0.1%           | -4.5%        | -7.0%          | 1.7%            | -2.8%       |
| 2012        | 1.9%           | 5.9%             | -0.5%          | 3.3%             | 2012        | -4.5%                  | -0.1%           | 0.0%         | -1.6%          | 2.4%            | 3.0%        |
| 2012        | -6.0%          | 7.1%             | -8.8%          | 6.6%             | 2012        | -4.5 <i>%</i><br>-5.5% | -0.5%           | 1.9%         | 1.6%           | 5.7%            | 9.6%        |
| 2013        | 4.7%           | 2.6%             | -4.5%          | 0.8%             | 2013        | -3.4%                  | -1.7 %          | 6.4%         | 1.9%           | 4.5%            | 12.3%       |
| 2014        | 2.1%           | 7.0%             | -4.5%<br>-0.3% | 4.2%             | 2014        | -3.4%<br>1.6%          | 7.8%            | 1.8%         | 1.4%           | 4.5%<br>7.6%    | 12.3%       |
| 2015        | 1.3%           | 7.0%<br>5.5%     | -0.5%<br>-0.5% | 3.3%             | 2015        | 0.0%                   | 7.6%<br>1.9%    | 6.0%         | -0.4%          | 7.6%<br>1.5%    | 5.6%        |
| 2010        | 1.370          | 0.070            | -0.5%          | 3.370            | 2010        | 0.076                  | 1.970           | 0.076        | -U.47o         | 1.070           | 0.0%        |

Source: WCIRB unit statistical data

<sup>\*</sup> Accident year 2016 experience is partial in that it only reflects experience from policy year 2015.

\*\* 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.

# Average and Median Indemnity Claim Severities at USR 1st Report Level

|        | Average<br>Incurred |        | Median<br>Incurred |        |
|--------|---------------------|--------|--------------------|--------|
| Delley |                     | امريما |                    | امىيەم |
| Policy | Indemnity           | Annual | Indemnity          | Annual |
| Year   | Severity            | Change | Severity           | Change |
| 1999   | 11,132              |        | 2,953              |        |
| 2000   | 12,408              | 11.5%  | 3,640              | 23.3%  |
| 2001   | 13,468              | 8.5%   | 4,320              | 18.7%  |
| 2002   | 13,985              | 3.8%   | 4,930              | 14.1%  |
| 2003   | 13,905              | -0.6%  | 5,000              | 1.4%   |
| 2004   | 11,397              | -18.0% | 4,100              | -18.0% |
| 2005   | 9,945               | -12.7% | 3,400              | -17.1% |
| 2006   | 10,643              | 7.0%   | 3,520              | 3.5%   |
| 2007   | 11,291              | 6.1%   | 3,966              | 12.7%  |
| 2008   | 11,947              | 5.8%   | 4,402              | 11.0%  |
| 2009   | 12,136              | 1.6%   | 4,717              | 7.2%   |
| 2010   | 11,976              | -1.3%  | 4,791              | 1.6%   |
| 2011   | 12,514              | 4.5%   | 5,000              | 4.4%   |
| 2012   | 12,304              | -1.7%  | 5,000              | 0.0%   |
| 2013   | 12,577              | 2.2%   | 5,250              | 5.0%   |
| 2014   | 13,008              | 3.4%   | 5,274              | 0.5%   |
| 2015 * | 13,300              | 2.2%   | 5,320              | 0.9%   |

| Policy | Average<br>Incurred<br>Medical | Annual | Median<br>Incurred<br>Medical | Annual |
|--------|--------------------------------|--------|-------------------------------|--------|
| Year   | Severity                       | Change | Severity                      | Change |
| 1999   | 10,243                         |        | 4,809                         |        |
| 2000   | 11,934                         | 16.5%  | 5,600                         | 16.4%  |
| 2001   | 13,853                         | 16.1%  | 6,989                         | 24.8%  |
| 2002   | 15,151                         | 9.4%   | 7,797                         | 11.6%  |
| 2003   | 14,501                         | -4.3%  | 7,575                         | -2.8%  |
| 2004   | 13,129                         | -9.5%  | 6,750                         | -10.9% |
| 2005   | 13,457                         | 2.5%   | 6,331                         | -6.2%  |
| 2006   | 14,791                         | 9.9%   | 6,924                         | 9.4%   |
| 2007   | 16,095                         | 8.8%   | 7,942                         | 14.7%  |
| 2008   | 17,273                         | 7.3%   | 9,000                         | 13.3%  |
| 2009   | 17,828                         | 3.2%   | 9,723                         | 8.0%   |
| 2010   | 17,676                         | -0.9%  | 9,409                         | -3.2%  |
| 2011   | 17,894                         | 1.2%   | 9,388                         | -0.2%  |
| 2012   | 17,640                         | -1.4%  | 9,500                         | 1.2%   |
| 2013   | 17,046                         | -3.4%  | 9,477                         | -0.2%  |
| 2014   | 17,032                         | -0.1%  | 9,241                         | -2.5%  |
| 2015 * | 16,761                         | -1.6%  | 9,022                         | -2.4%  |

<sup>\*</sup> Policy Year 2015 data is preliminary.

Source: WCIRB Unit Statistical Data

Average Permanent Disability Ratings by Type of Loss

| 5   | 27.3 | 25.7 | 23.1 | 18.6 | 17.1 | 17.3 | 18.1 | 17.9 | 17.4 | 16.7 | 16.4                                    | <u> </u> |       |        |              | u                                    | o<br>I | 93,374<br>90,236 | 77,073 | 61,517 | 54,238 | 53,654 | 53,976 | 50.508 | 51.438 | 52,762 |        |        |              |       |                                    | 2     | 52   | 23   | 50   | 12   | <u>0</u> ( | 2 :        | 4 :        | 4 :  | 4              | 4    | 13   |      |      |   |
|---|------|------|------|------|------|------|------|------|------|------|---|----------|-------|--------|--------------|--------------------------------------|--------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------|-------|------------------------------------|-------|------|------|------|------|------------|------------|------------|------|----------------|------|------|------|------|---|
| _   |      |      |      |      |      |      |      |      |      |      |   |          |       |        |              | _                                    |        |                  |        |        |        |        |        |        |        |        | _      |        |              |       |                                    | _     | _    | •    | _    |      |            | <b>.</b> . |            |      | _              | •    |      |      |      |   |
| ating<br>4                                  | 27.1 | 25.9 | 23.5 | 18.8 | 16.4 | 16.8 | 17.5 | 17.8 | 17.4 | 16.2 | 16.4                                    | 5 1      | 0.0   |        |              |                                      | 4      | 93,273<br>89,836 | 76,255 | 59,355 | 53,827 | 52,620 | 53,219 | 49 152 | 51,001 | 51,464 | 52,388 |        |              |       |                                    | 4     | 24   | 23   | 200  | 15   | 13         | 2 ;        | 7 :        | 4 :  | 14             | 9    | 3    | 12   |      |   |
| Average Permanent Disability Rating 1 2 3   | 26.6 | 25.3 | 23.8 | 19.1 | 16.0 | 15.7 | 16.6 | 16.9 | 16.9 | 15.9 | . r.                                    | 2.5      | 4.4   | -<br>- |              | Count of Permanent Disability Claims | 3      | 89,309           | 75,354 | 58,232 | 50,727 | 51,432 | 51,054 | 48,422 | 49.386 | 50,156 | 50,131 | 52,421 |              |       | Median Permanent Disability Rating | 3     | 24   | 55   | 50   | 15   | 12         | 2 9        | 13         | 3    | 13             | 15   | 15   | Ξ:   | 11   |   |
| Permanent  <br>2                            | 23.8 | 24.0 | 22.5 | 18.5 | 14.8 | 14.5 | 14.6 | 15.1 | 15.3 | 15.1 | - 4                                     | j ç      | 13.2  | - i    | 6.21         | Permanent I                          | 7      | 85,153           | 73,344 | 55,472 | 47,924 | 45,950 | 47,877 | 44,910 | 45.766 | 46,627 | 45,686 | 46,637 | 48,846       |       | Permanent [                        | 2     | 70   | 7    | 50   | 15   | = ;        | = ;        | = :        | 15   | = :            | = :  | = :  | 9 :  | 10   |   |
| Average I                                   | 18.9 | 19.0 | 20.1 | 16.5 | 12.6 | 12.0 | 12.0 | 12.0 | 12.6 | 12.7 | 127                                     | 7 7      | <br>  |        | 10.3         | Count of F                           | - 60   | 74,340           | 64,446 | 50,200 | 41,110 | 38,608 | 36,481 | 34,690 | 35,691 | 37,386 | 35,796 | 35,564 | 37,742       | 25,10 | Median F                           | 1     | 15   | 16   | 17   | 13   | 9          | ກຸ         | 9 :        | 9 9  | 10             | 10   | 10   | 10   | တ ်  |   |
| PY/RL                                       | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2010                                    | - 200    | 2012  | 2013   | 2015         | و                                    | PY/RL  | 2002             | 2003   | 2004   | 2005   | 2006   | 7007   | 2009   | 2010   | 2011   | 2012   | 2013   | 2014         | 2     |                                    | PY/RL | 2001 | 2002 | 2003 | 2004 | 2005       | 2002       | 2007       | 2008 | 2009           | 2010 | 2011 | 2012 | 2013 | * |
| 2   | 24.6 | 22.2 | 20.0 | 16.8 | 16.6 | 16.9 | 17.5 | 17.3 | 16.6 | 16.5 |   | 2        |       |        |              | ų                                    | o o    | 12,050           | 10,248 | 7,865  | 6,438  | 6,438  | 6,515  | 7 783  | 8.174  | 9,179  |        |        |              |       |                                    | 2     | 21   | 19   | 15   | 13   | 2 5        | 7 9        | 13         | 15   | 15             | 15   | 12   |      |      |   |
| ating<br>4                                  | 24.4 | 22.1 | 20.2 | 16.5 | 15.5 | 16.2 | 16.6 | 17.0 | 16.3 | 27.0 | 14.9                                    | o o      | 3.9   |        |              |                                      | 4 4    | 11,300           | 10,033 | 7,129  | 6,014  | 6,081  | 6,203  | 212,0  | 7,622  | 8,478  | 10,083 |        |              |       |                                    | 4     | 20   | 19   | 15   | 13   | = ;        | = ;        | 15         | 12   | 12             | 12   | 1    | 10   |      |   |
| Average Permanent Disability Rating 1 2 3   | 23.8 | 21.5 | 20.3 | 16.7 | 14.6 | 14.8 | 15.5 | 15.7 | 15.8 | 15.4 | 1.0.1                                   | 1 0      | 13.2  | 12.4   |              | Count of Permanent Disability Claims | 2007   | 11,677           | 6,679  | 6,685  | 5,237  | 5,552  | 5,691  | 6.591  | 6.763  | 7,625  | 9,039  | 11,177 |              |       | Median Permanent Disability Rating | 3     | 50   | 18   | 15   | 13   | 9 9        | ⊇ ;        | Ξ:         | Ξ:   | <del>-</del> : | = :  | 11   | 10   | 10   |   |
| Permanent<br>2                              | 21.4 | 20.4 | 19.2 | 16.0 | 12.8 | 12.8 | 13.3 | 13.9 | 14.0 | 14 9 | . 4.<br>5. 4.                           | 5. 4     | 12.1  | 0.0    | 9.0          | Permanent I                          | 7      | 10,951           | 9,258  | 6,015  | 4,536  | 4,635  | 4,723  | 7,344  | 5.750  | 6,237  | 7,469  | 9,348  | 10,590       |       | Permanent [                        | 2     | 18   | 17   | 15   | 12   | 9          | ກຸ         | 9 :        | 9 9  | 10             | - 1  | 10   | 10   | 6    |   |
| Average<br>1                                | 16.9 | 16.9 | 17.4 | 15.0 | 10.8 | 10.3 | 10.7 | 11.4 | 7.5  | 12.5 | 2 7 7                                   |          | 9.0.6 | 5.0.5  | 10.1<br>9.3  | Count of                             | - 600  | 9,172            | 7,774  | 5,102  | 3,424  | 3,290  | 3,209  | 3,736  | 3.951  | 4,225  | 4,990  | 6,321  | 7,167        | -     | Median F                           | 1     | 15   | 15   | 15   | 11   | 1 00       | - (        | ∞ .        | တေ   | 10             | 10   | 10   | တ    | ω .  | • |
| PY/RL                                       | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2010                                    | - 100    | 2012  | 2013   | 2015         | 0                                    | PY/RL  | 2002             | 2003   | 2004   | 2005   | 2006   | 7007   | 2000   | 2010   | 2011   | 2012   | 2013   | 2014         | 2     |                                    | PY/RL | 2001 | 2002 | 2003 | 2004 | 2005       | 2006       | 2007       | 2008 | 2009           | 2010 | 2011 | 2012 | 2013 |   |
| 5   | 27.0 | 25.3 | 22.8 | 18.4 | 17.0 | 17.3 | 18.0 | 17.8 | 17.3 | 16.7 | . 6                                     | 5        |       |        |              | u                                    | 0      | 102,286          | 87,321 | 69,382 | 929,09 | 60,092 | 60,491 | 58.291 | 59,612 | 61,941 |        |        |              |       |                                    | 2     | 24   | 23   | 20   | 15   | <u></u> 5  | <u>5</u>   | 4 :        | 4 :  | 4 ;            | 13   | 13   |      |      |   |
| ating<br>4                                  | 56.9 | 25.5 | 23.1 | 18.5 | 16.3 | 16.7 | 17.4 | 17.7 | 17.3 | 16.2 | 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 5 5      | 9.    |        |              | laims                                | 4 600  | 104,639          | 86,288 | 66,484 | 59,841 | 58,701 | 59,422 | 56.391 | 58.623 | 59,942 | 62,471 |        |              |       | ating                              | 4     | 24   | 23   | 50   | 15   | 12         | <u>ა</u>   | 13         | 4 ;  | 13             | 13   | 13   | 12   |      |   |
| Average Permanent Disability Ratin<br>1 2 3 | 26.3 | 24.9 | 23.4 | 18.9 | 15.9 | 15.6 | 16.5 | 16.8 | 16.8 | 150  | . t                                     | - 0      | 7.4.7 | 0.0    |              | Count of Permanent Disability Claims | 3      | 100,986          | 85,033 | 64,917 | 55,964 | 56,984 | 56,745 | 54 881 | 56.149 | 57,781 | 59,170 | 63,598 |              |       | Median Permanent Disability Rating | 3     | 23   | 22   | 20   | 15   | 12         | 7 9        | 13         | . 13 | 13             | 12   | 12   | 11   | 10   |   |
| Permanent 2                                 | 23.5 | 23.6 | 22.1 | 18.2 | 14.7 | 14.3 | 14.5 | 15.0 | 15.2 | 150  | 14.4                                    | † ¢      | 13.1  | 0.21   | 7.71         | Permanent                            | 7      | 96,733<br>96,104 | 82,602 | 61,487 | 52,460 | 50,585 | 52,600 | 50342  | 51.516 | 52,864 | 53,155 | 55,985 | 59,436       |       | Permanent                          | 2     | 20   | 50   | 19   | 15   | 9 9        | 2;         | Ξ:         | Ξ:   | - 1            | - :  | 11   | 10   | 10   |   |
| Average<br>1                                | 18.7 | 18.8 | 19.8 | 16.3 | 12.5 | 11.8 | 11.9 | 12.0 | 12.5 | 12.7 | 127                                     | 1 7      | 7.7.  | 7 1 7  | 10.7         | Count of                             | . o    | 83,512           | 72,220 | 55,302 | 44,534 | 41,898 | 39,690 | 38,044 | 39,642 | 41,611 | 40,786 | 41,885 | 44,909       | i i   | Median                             | -     | 15   | 15   | 17   | 13   | 6 6        | מ מ        | တ <u>:</u> | 9 9  | 10             | 10   | 10   | 10   | 6    |   |
| PY/RL                                       | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2010                                    | 207      | 2012  | 2013   | 2014<br>2015 | 0/20                                 | PY/KL  | 2002             | 2003   | 2004   | 2005   | 2006   | 2007   | 2009   | 2010   | 2011   | 2012   | 2013   | 2014<br>2015 | 2     |                                    | PY/RL | 2001 | 2002 | 2003 | 2004 | 2005       | 2002       | 2007       | 2008 | 2009           | 2010 | 2011 | 2012 | 2013 |   |

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

Source: WCIRB unit statistical data

Average Paid ALAE\*\* Per Reported Indemnity Claim - Private Insurers
As of September 30, 2017

| Accident   |  |  |  | Eval   | uated as of   | (in months   | ١.  |  |   |  |
|--|--|--|--|--|---|--|---|--|---|--|
| Year   | 9  | 21   | 33   | 45   | 57  | 69   | ).<br><u>81</u>   | 93   | 105   | 117  |
|  | <u>~</u>   | <u></u>  | <u>00</u>  | 10   | <u>01</u>   | <u>00</u>  | <u>01</u>   | <u>50</u>  | 100   |  |
| 1993   |  |  |  |  |   |  |   |  | 0.000   | 2,028  |
| 1994   |  |  |  |  |   |  |   | 0.400  | 2,002   | 2,039  |
| 1995   |  |  |  |  |   |  | 0.070   | 2,133  | 2,203   | 2,243  |
| 1996   |  |  |  |  |   | 0.750  | 2,378   | 2,509  | 2,574   | 2,655  |
| 1997   |  |  |  |  | 0.040   | 2,758  | 2,951   | 3,080  | 3,209   | 3,327  |
| 1998   |  |  |  | 0.504  | 2,812   | 3,160  | 3,381   | 3,606  | 3,791   | 3,922  |
| 1999   |  |  | 0.400  | 2,564  | 3,067   | 3,392  | 3,673   | 3,935  | 4,126   | 4,174  |
| 2000   |  | 4 000  | 2,188  | 3,036  | 3,562   | 3,984  | 4,417   | 4,706  | 4,826   | 4,981  |
| 2001   |  | 1,202  | 2,436  | 3,245  | 4,194   | 4,936  | 5,421   | 5,648  | 5,895   | 6,070  |
| 2002   | 441  | 1,497  | 2,720  | 4,058  | 4,878   | 5,515  | 5,881   | 6,184  | 6,392   | 6,569  |
| 2003   | 432  | 1,507  | 3,194  | 4,376  | 5,278   | 5,819  | 6,232   | 6,533  | 6,769   | 6,969  |
| 2004   | 316  | 1,554  | 2,955  | 4,137  | 4,908   | 5,451  | 5,856   | 6,158  | 6,388   | 6,580  |
| 2005   | 349  | 1,412  | 2,708  | 3,765  | 4,534   | 5,086  | 5,503   | 5,825  | 6,091   | 6,326  |
| 2006   | 360  | 1,470  | 2,828  | 3,891  | 4,681   | 5,288  | 5,745   | 6,085  | 6,400   | 6,628  |
| 2007   | 372  | 1,609  | 3,016  | 4,163  | 5,040   | 5,709  | 6,245   | 6,669  | 6,982   | 7,216  |
| 2008   | 412  | 1,730  | 3,264  | 4,585  | 5,581   | 6,341  | 6,924   | 7,369  | 7,691   | 7,913  |
| 2009   | 464  | 1,929  | 3,683  | 5,136  | 6,254   | 7,103  | 7,749   | 8,202  | 8,524   |  |
| 2010   | 504  | 2,054  | 3,834  | 5,300  | 6,415   | 7,252  | 7,836   | 8,232  |   |  |
| 2011   | 495  | 2,068  | 3,824  | 5,285  | 6,421   | 7,191  | 7,753   |  |   |  |
| 2012   | 504  | 2,115  | 3,986  | 5,525  | 6,584   | 7,336  |   |  |   |  |
| 2013   | 539  | 2,328  | 4,278  | 5,714  | 6,711   |  |   |  |   |  |
| 2014   | 598  | 2,529  | 4,458  | 5,848  |   |  |   |  |   |  |
| 2015   | 665  | 2,624  | 4,551  |  |   |  |   |  |   |  |
| 2016   | 671  | 2,704  |  |  |   |  |   |  |   |  |
| 2017   | 708  |  |  |  |   |  |   |  |   |  |
| Accident   |  |  |  |  | Annual Cl   | hange  |   |  |   |  |
| Year   | 9  | 21   | <u>33</u>  | <u>45</u>  | <u>57</u>   | 69   | <u>81</u>   | 93   | 105   | 117  |
| 1994   |  |  |  |  |   |  |   |  |   | 0.5%   |
|  |  |  |  |  |   |  |   |  |   |  |
| านนร   |  |  |  |  |   |  |   |  | 10.0%   |  |
| 1995<br>1996   |  |  |  |  |   |  |   | 17.6%  | 10.0%<br>16.8%  | 10.0%  |
| 1996   |  |  |  |  |   |  | 24 1%   | 17.6%  | 16.8%   | 10.0%<br>18.4%   |
| 1996<br>1997   |  |  |  |  |   | 14 6%  | 24.1%<br>14.6%  | 22.8%  | 16.8%<br>24.7%  | 10.0%<br>18.4%<br>25.3%  |
| 1996<br>1997<br>1998   |  |  |  |  | 9.1%  | 14.6%<br>7.3%  | 14.6%   | 22.8%<br>17.1%   | 16.8%<br>24.7%<br>18.2%   | 10.0%<br>18.4%<br>25.3%<br>17.9%   |
| 1996<br>1997<br>1998<br>1999   |  |  |  | 18.4%  | 9.1%<br>16.1%   | 7.3%   | 14.6%<br>8.6%   | 22.8%<br>17.1%<br>9.1%   | 16.8%<br>24.7%<br>18.2%<br>8.8%   | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%   |
| 1996<br>1997<br>1998<br>1999<br>2000   |  |  | 11 3%  | 18.4%<br>6.9%  | 16.1%   | 7.3%<br>17.4%  | 14.6%<br>8.6%<br>20.3%  | 22.8%<br>17.1%<br>9.1%<br>19.6%  | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%  | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>19.4%  |
| 1996<br>1997<br>1998<br>1999<br>2000<br>2001   |  | 24 5%  | 11.3%<br>11.7%   | 6.9%   | 16.1%<br>17.7%  | 7.3%<br>17.4%<br>23.9%   | 14.6%<br>8.6%<br>20.3%<br>22.7%   | 22.8%<br>17.1%<br>9.1%<br>19.6%<br>20.0%   | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%   | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>19.4%<br>21.9%   |
| 1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002   | -2 1%  | 24.5%<br>0.7%  | 11.7%  | 6.9%<br>25.1%  | 16.1%<br>17.7%<br>16.3%   | 7.3%<br>17.4%<br>23.9%<br>11.7%  | 14.6%<br>8.6%<br>20.3%<br>22.7%<br>8.5%   | 22.8%<br>17.1%<br>9.1%<br>19.6%<br>20.0%<br>9.5%   | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%<br>8.4%   | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>19.4%<br>21.9%<br>8.2%   |
| 1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003   | -2.1%<br>-26.9%  | 0.7%   | 11.7%<br>17.4%   | 6.9%<br>25.1%<br>7.8%  | 16.1%<br>17.7%<br>16.3%<br>8.2%   | 7.3%<br>17.4%<br>23.9%<br>11.7%<br>5.5%  | 14.6%<br>8.6%<br>20.3%<br>22.7%<br>8.5%<br>6.0%   | 22.8%<br>17.1%<br>9.1%<br>19.6%<br>20.0%<br>9.5%<br>5.6%   | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%<br>8.4%<br>5.9%   | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>19.4%<br>21.9%<br>8.2%<br>6.1%                                   |
| 1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004   | -26.9%   | 0.7%<br>3.1%   | 11.7%<br>17.4%<br>-7.5%  | 6.9%<br>25.1%<br>7.8%<br>-5.5%   | 16.1%<br>17.7%<br>16.3%<br>8.2%<br>-7.0%  | 7.3%<br>17.4%<br>23.9%<br>11.7%<br>5.5%<br>-6.3%   | 14.6%<br>8.6%<br>20.3%<br>22.7%<br>8.5%<br>6.0%<br>-6.0%  | 22.8%<br>17.1%<br>9.1%<br>19.6%<br>20.0%<br>9.5%<br>5.6%<br>-5.8%  | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%<br>8.4%<br>5.9%<br>-5.6%  | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>19.4%<br>21.9%<br>8.2%<br>6.1%<br>-5.6%                          |
| 1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005   | -26.9%<br>10.2%  | 0.7%<br>3.1%<br>-9.1%  | 11.7%<br>17.4%<br>-7.5%<br>-8.3%   | 6.9%<br>25.1%<br>7.8%<br>-5.5%<br>-9.0%  | 16.1%<br>17.7%<br>16.3%<br>8.2%<br>-7.0%<br>-7.6%   | 7.3%<br>17.4%<br>23.9%<br>11.7%<br>5.5%<br>-6.3%<br>-6.7%  | 14.6%<br>8.6%<br>20.3%<br>22.7%<br>8.5%<br>6.0%<br>-6.0%  | 22.8%<br>17.1%<br>9.1%<br>19.6%<br>20.0%<br>9.5%<br>5.6%<br>-5.8%<br>-5.4%                                   | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%<br>8.4%<br>5.9%<br>-5.6%<br>-4.6%                                   | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>19.4%<br>21.9%<br>8.2%<br>6.1%<br>-5.6%<br>-3.9%                 |
| 1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006   | -26.9%<br>10.2%<br>3.3%  | 0.7%<br>3.1%<br>-9.1%<br>4.1%  | 11.7%<br>17.4%<br>-7.5%<br>-8.3%<br>4.4%   | 6.9%<br>25.1%<br>7.8%<br>-5.5%<br>-9.0%<br>3.3%  | 16.1%<br>17.7%<br>16.3%<br>8.2%<br>-7.0%<br>-7.6%<br>3.2%   | 7.3%<br>17.4%<br>23.9%<br>11.7%<br>5.5%<br>-6.3%<br>-6.7%<br>4.0%  | 14.6%<br>8.6%<br>20.3%<br>22.7%<br>8.5%<br>6.0%<br>-6.0%<br>4.4%  | 22.8%<br>17.1%<br>9.1%<br>19.6%<br>20.0%<br>9.5%<br>5.6%<br>-5.8%<br>-5.4%<br>4.5%                           | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%<br>8.4%<br>5.9%<br>-5.6%<br>-4.6%<br>5.1%                           | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>19.4%<br>21.9%<br>8.2%<br>6.1%<br>-5.6%<br>-3.9%<br>4.8%         |
| 1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007   | -26.9%<br>10.2%<br>3.3%<br>3.1%  | 0.7%<br>3.1%<br>-9.1%<br>4.1%<br>9.5%                                    | 11.7%<br>17.4%<br>-7.5%<br>-8.3%<br>4.4%<br>6.7%   | 6.9%<br>25.1%<br>7.8%<br>-5.5%<br>-9.0%<br>3.3%<br>7.0%  | 16.1%<br>17.7%<br>16.3%<br>8.2%<br>-7.0%<br>-7.6%<br>3.2%<br>7.7%   | 7.3%<br>17.4%<br>23.9%<br>11.7%<br>5.5%<br>-6.3%<br>-6.7%<br>4.0%<br>8.0%  | 14.6%<br>8.6%<br>20.3%<br>22.7%<br>8.5%<br>6.0%<br>-6.0%<br>4.4%<br>8.7%  | 22.8%<br>17.1%<br>9.1%<br>19.6%<br>20.0%<br>9.5%<br>5.6%<br>-5.8%<br>-5.4%<br>4.5%<br>9.6%                   | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%<br>8.4%<br>5.9%<br>-5.6%<br>-4.6%<br>5.1%<br>9.1%                   | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>19.4%<br>21.9%<br>6.1%<br>-5.6%<br>-3.9%<br>4.8%<br>8.9%         |
| 1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008   | -26.9%<br>10.2%<br>3.3%<br>3.1%<br>10.8%   | 0.7%<br>3.1%<br>-9.1%<br>4.1%<br>9.5%<br>7.5%                            | 11.7%<br>17.4%<br>-7.5%<br>-8.3%<br>4.4%<br>6.7%<br>8.2%   | 6.9%<br>25.1%<br>7.8%<br>-5.5%<br>-9.0%<br>3.3%<br>7.0%<br>10.1%   | 16.1%<br>17.7%<br>16.3%<br>8.2%<br>-7.0%<br>-7.6%<br>3.2%<br>7.7%<br>10.7%  | 7.3%<br>17.4%<br>23.9%<br>11.7%<br>5.5%<br>-6.3%<br>-6.7%<br>4.0%<br>8.0%<br>11.1%                                   | 14.6%<br>8.6%<br>20.3%<br>22.7%<br>8.5%<br>6.0%<br>-6.0%<br>4.4%<br>8.7%<br>10.9%                                     | 22.8%<br>17.1%<br>9.1%<br>19.6%<br>20.0%<br>9.5%<br>5.6%<br>-5.8%<br>-5.4%<br>4.5%<br>9.6%<br>10.5%          | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%<br>8.4%<br>5.9%<br>-5.6%<br>-4.6%<br>5.1%<br>9.1%<br>10.2%          | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>19.4%<br>21.9%<br>8.2%<br>6.1%<br>-5.6%<br>-3.9%<br>4.8%         |
| 1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009   | -26.9%<br>10.2%<br>3.3%<br>3.1%<br>10.8%<br>12.7%  | 0.7%<br>3.1%<br>-9.1%<br>4.1%<br>9.5%<br>7.5%<br>11.4%                   | 11.7%<br>17.4%<br>-7.5%<br>-8.3%<br>4.4%<br>6.7%<br>8.2%<br>12.8%  | 6.9%<br>25.1%<br>7.8%<br>-5.5%<br>-9.0%<br>3.3%<br>7.0%<br>10.1%<br>12.0%  | 16.1%<br>17.7%<br>16.3%<br>8.2%<br>-7.0%<br>-7.6%<br>3.2%<br>7.7%<br>10.7%  | 7.3%<br>17.4%<br>23.9%<br>11.7%<br>5.5%<br>-6.3%<br>-6.7%<br>4.0%<br>8.0%<br>11.1%<br>12.0%                          | 14.6%<br>8.6%<br>20.3%<br>22.7%<br>8.5%<br>6.0%<br>-6.0%<br>-6.0%<br>4.4%<br>8.7%<br>10.9%<br>11.9%                   | 22.8%<br>17.1%<br>9.1%<br>19.6%<br>20.0%<br>9.5%<br>5.6%<br>-5.4%<br>4.5%<br>9.6%<br>10.5%<br>11.3%          | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%<br>8.4%<br>5.9%<br>-5.6%<br>-4.6%<br>5.1%<br>9.1%                   | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>19.4%<br>21.9%<br>6.1%<br>-5.6%<br>-3.9%<br>4.8%<br>8.9%         |
| 1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010   | -26.9%<br>10.2%<br>3.3%<br>3.1%<br>10.8%<br>12.7%<br>8.6%  | 0.7%<br>3.1%<br>-9.1%<br>4.1%<br>9.5%<br>7.5%<br>11.4%<br>6.5%           | 11.7%<br>17.4%<br>-7.5%<br>-8.3%<br>4.4%<br>6.7%<br>8.2%<br>12.8%<br>4.1%  | 6.9%<br>25.1%<br>7.8%<br>-5.5%<br>-9.0%<br>3.3%<br>7.0%<br>10.1%<br>12.0%<br>3.2%                                  | 16.1%<br>17.7%<br>16.3%<br>8.2%<br>-7.0%<br>-7.6%<br>3.2%<br>7.7%<br>10.7%<br>12.0%<br>2.6%                         | 7.3%<br>17.4%<br>23.9%<br>11.7%<br>5.5%<br>-6.3%<br>-6.7%<br>4.0%<br>8.0%<br>11.1%<br>12.0%<br>2.1%                  | 14.6%<br>8.6%<br>20.3%<br>22.7%<br>8.5%<br>6.0%<br>-6.0%<br>-6.0%<br>4.4%<br>8.7%<br>10.9%<br>11.9%                   | 22.8%<br>17.1%<br>9.1%<br>19.6%<br>20.0%<br>9.5%<br>5.6%<br>-5.8%<br>-5.4%<br>4.5%<br>9.6%<br>10.5%          | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%<br>8.4%<br>5.9%<br>-5.6%<br>-4.6%<br>5.1%<br>9.1%<br>10.2%          | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>19.4%<br>21.9%<br>6.1%<br>-5.6%<br>-3.9%<br>4.8%<br>8.9%         |
| 1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010<br>2011   | -26.9%<br>10.2%<br>3.3%<br>3.1%<br>10.8%<br>12.7%<br>8.6%<br>-1.7%   | 0.7% 3.1% -9.1% 4.1% 9.5% 7.5% 11.4% 6.5% 0.7%                           | 11.7%<br>17.4%<br>-7.5%<br>-8.3%<br>4.4%<br>6.7%<br>8.2%<br>12.8%<br>4.1%<br>-0.3%                                 | 6.9%<br>25.1%<br>7.8%<br>-5.5%<br>-9.0%<br>3.3%<br>7.0%<br>10.1%<br>12.0%<br>3.2%<br>-0.3%                         | 16.1%<br>17.7%<br>16.3%<br>8.2%<br>-7.0%<br>-7.6%<br>3.2%<br>7.7%<br>10.7%<br>12.0%<br>2.6%<br>0.1%                 | 7.3%<br>17.4%<br>23.9%<br>11.7%<br>5.5%<br>-6.3%<br>-6.7%<br>4.0%<br>8.0%<br>11.1%<br>12.0%<br>2.1%<br>-0.8%         | 14.6%<br>8.6%<br>20.3%<br>22.7%<br>8.5%<br>6.0%<br>-6.0%<br>-6.0%<br>4.4%<br>8.7%<br>10.9%<br>11.9%                   | 22.8%<br>17.1%<br>9.1%<br>19.6%<br>20.0%<br>9.5%<br>5.6%<br>-5.4%<br>4.5%<br>9.6%<br>10.5%<br>11.3%          | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%<br>8.4%<br>5.9%<br>-5.6%<br>-4.6%<br>5.1%<br>9.1%<br>10.2%          | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>19.4%<br>21.9%<br>6.1%<br>-5.6%<br>-3.9%<br>4.8%<br>8.9%         |
| 1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010<br>2011<br>2012   | -26.9%<br>10.2%<br>3.3%<br>3.1%<br>10.8%<br>12.7%<br>8.6%<br>-1.7%<br>1.8%   | 0.7% 3.1% -9.1% 4.1% 9.5% 7.5% 11.4% 6.5% 0.7% 2.3%                      | 11.7%<br>17.4%<br>-7.5%<br>-8.3%<br>4.4%<br>6.7%<br>8.2%<br>12.8%<br>4.1%<br>-0.3%<br>4.2%                         | 6.9%<br>25.1%<br>7.8%<br>-5.5%<br>-9.0%<br>3.3%<br>7.0%<br>10.1%<br>12.0%<br>3.2%<br>-0.3%<br>4.5%                 | 16.1%<br>17.7%<br>16.3%<br>8.2%<br>-7.0%<br>-7.6%<br>3.2%<br>7.7%<br>10.7%<br>12.0%<br>2.6%<br>0.1%<br>2.5%         | 7.3%<br>17.4%<br>23.9%<br>11.7%<br>5.5%<br>-6.3%<br>-6.7%<br>4.0%<br>8.0%<br>11.1%<br>12.0%<br>2.1%                  | 14.6%<br>8.6%<br>20.3%<br>22.7%<br>8.5%<br>6.0%<br>-6.0%<br>-6.0%<br>4.4%<br>8.7%<br>10.9%<br>11.9%                   | 22.8%<br>17.1%<br>9.1%<br>19.6%<br>20.0%<br>9.5%<br>5.6%<br>-5.4%<br>4.5%<br>9.6%<br>10.5%<br>11.3%          | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%<br>8.4%<br>5.9%<br>-5.6%<br>-4.6%<br>5.1%<br>9.1%<br>10.2%          | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>19.4%<br>21.9%<br>6.1%<br>-5.6%<br>-3.9%<br>4.8%<br>8.9%         |
| 1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010<br>2011<br>2012<br>2013                                 | -26.9%<br>10.2%<br>3.3%<br>3.1%<br>10.8%<br>12.7%<br>8.6%<br>-1.7%<br>1.8%<br>7.0%                                   | 0.7% 3.1% -9.1% 4.1% 9.5% 7.5% 11.4% 6.5% 0.7% 2.3% 10.1%                | 11.7%<br>17.4%<br>-7.5%<br>-8.3%<br>4.4%<br>6.7%<br>8.2%<br>12.8%<br>4.1%<br>-0.3%<br>4.2%<br>7.3%                 | 6.9%<br>25.1%<br>7.8%<br>-5.5%<br>-9.0%<br>3.3%<br>7.0%<br>10.1%<br>12.0%<br>3.2%<br>-0.3%<br>4.5%<br>3.4%         | 16.1%<br>17.7%<br>16.3%<br>8.2%<br>-7.0%<br>-7.6%<br>3.2%<br>7.7%<br>10.7%<br>12.0%<br>2.6%<br>0.1%                 | 7.3%<br>17.4%<br>23.9%<br>11.7%<br>5.5%<br>-6.3%<br>-6.7%<br>4.0%<br>8.0%<br>11.1%<br>12.0%<br>2.1%<br>-0.8%         | 14.6%<br>8.6%<br>20.3%<br>22.7%<br>8.5%<br>6.0%<br>-6.0%<br>-6.0%<br>4.4%<br>8.7%<br>10.9%<br>11.9%                   | 22.8%<br>17.1%<br>9.1%<br>19.6%<br>20.0%<br>9.5%<br>5.6%<br>-5.4%<br>4.5%<br>9.6%<br>10.5%<br>11.3%          | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%<br>8.4%<br>5.9%<br>-5.6%<br>-4.6%<br>5.1%<br>9.1%<br>10.2%          | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>19.4%<br>21.9%<br>6.1%<br>-5.6%<br>-3.9%<br>4.8%<br>8.9%         |
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| 1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010<br>2011<br>2012<br>2013<br>2014<br>2015<br>2016<br>2017 | -26.9%<br>10.2%<br>3.3%<br>3.1%<br>10.8%<br>12.7%<br>8.6%<br>-1.7%<br>1.8%<br>7.0%<br>10.8%<br>11.3%<br>0.9%<br>5.5% | 0.7% 3.1% -9.1% 4.1% 9.5% 7.5% 11.4% 6.5% 2.3% 10.1% 8.6% 3.8% 3.1%      | 11.7%<br>17.4%<br>-7.5%<br>-8.3%<br>4.4%<br>6.7%<br>8.2%<br>12.8%<br>4.1%<br>-0.3%<br>4.2%<br>7.3%<br>4.2%<br>2.1% | 6.9%<br>25.1%<br>7.8%<br>-5.5%<br>-9.0%<br>3.3%<br>7.0%<br>10.1%<br>12.0%<br>-0.3%<br>4.5%<br>3.4%<br>2.3%         | 16.1%<br>17.7%<br>16.3%<br>8.2%<br>-7.0%<br>-7.6%<br>3.2%<br>7.7%<br>10.7%<br>12.0%<br>2.6%<br>0.1%<br>2.5%<br>1.9% | 7.3%<br>17.4%<br>23.9%<br>11.7%<br>5.5%<br>-6.3%<br>-6.7%<br>4.0%<br>8.0%<br>11.1%<br>12.0%<br>2.1%<br>-0.8%<br>2.0% | 14.6%<br>8.6%<br>20.3%<br>22.7%<br>8.5%<br>6.0%<br>-6.0%<br>-6.0%<br>10.9%<br>11.9%<br>11.9%<br>1.1%                  | 22.8%<br>17.1%<br>9.1%<br>9.5%<br>5.6%<br>-5.8%<br>-5.4%<br>4.5%<br>9.6%<br>10.5%<br>11.3%<br>0.4%           | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%<br>8.4%<br>5.9%<br>-5.6%<br>-4.6%<br>5.1%<br>9.1%<br>10.2%<br>10.8% | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>21.9%<br>8.2%<br>6.1%<br>-5.6%<br>-3.9%<br>9.7%                  |
| 1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010<br>2011<br>2012<br>2013<br>2014<br>2015<br>2016<br>2017 | -26.9%<br>10.2%<br>3.3%<br>3.1%<br>10.8%<br>12.7%<br>8.6%<br>-1.7%<br>1.8%<br>7.0%<br>10.8%<br>11.3%<br>0.9%<br>5.5% | 0.7% 3.1% -9.1% 4.1% 9.5% 7.5% 11.4% 6.5% 0.7% 2.3% 10.1% 8.6% 3.8% 3.1% | 11.7%<br>17.4%<br>-7.5%<br>-8.3%<br>4.4%<br>6.7%<br>8.2%<br>12.8%<br>4.1%<br>-0.3%<br>4.2%<br>2.1%                 | 6.9% 25.1% 7.8% -5.5% -9.0% 3.3% 7.0% 10.1% 12.0% 3.2% -0.3% 4.5% 3.4% 2.3%  | 16.1%<br>17.7%<br>16.3%<br>8.2%<br>-7.0%<br>-7.6%<br>3.2%<br>7.7%<br>10.7%<br>12.0%<br>2.6%<br>0.1%<br>2.5%<br>1.9% | 7.3%<br>17.4%<br>23.9%<br>11.7%<br>5.5%<br>-6.3%<br>-6.7%<br>4.0%<br>8.0%<br>11.1%<br>12.0%<br>2.1%<br>-0.8%<br>2.0% | 14.6%<br>8.6%<br>20.3%<br>22.7%<br>8.5%<br>6.0%<br>-6.0%<br>4.4%<br>8.7%<br>10.9%<br>11.9%<br>-1.1%                   | 22.8%<br>17.1%<br>9.1%<br>19.6%<br>20.0%<br>9.5%<br>5.6%<br>-5.4%<br>4.5%<br>9.6%<br>10.5%<br>11.3%<br>0.4%  | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%<br>8.4%<br>5.9%<br>-5.6%<br>-4.6%<br>5.1%<br>9.1%<br>10.2%<br>10.8% | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>21.9%<br>8.2%<br>6.1%<br>-5.6%<br>-3.9%<br>9.7%                  |
| 1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010<br>2011<br>2012<br>2013<br>2014<br>2015<br>2016<br>2017 | -26.9%<br>10.2%<br>3.3%<br>3.1%<br>10.8%<br>12.7%<br>8.6%<br>-1.7%<br>1.8%<br>7.0%<br>10.8%<br>11.3%<br>0.9%<br>5.5% | 0.7% 3.1% -9.1% 4.1% 9.5% 7.5% 11.4% 6.5% 2.3% 10.1% 8.6% 3.8% 3.1%      | 11.7%<br>17.4%<br>-7.5%<br>-8.3%<br>4.4%<br>6.7%<br>8.2%<br>12.8%<br>4.1%<br>-0.3%<br>4.2%<br>7.3%<br>4.2%<br>2.1% | 6.9%<br>25.1%<br>7.8%<br>-5.5%<br>-9.0%<br>3.3%<br>7.0%<br>10.1%<br>12.0%<br>-0.3%<br>4.5%<br>3.4%<br>2.3%         | 16.1%<br>17.7%<br>16.3%<br>8.2%<br>-7.0%<br>-7.6%<br>3.2%<br>7.7%<br>10.7%<br>12.0%<br>2.6%<br>0.1%<br>2.5%<br>1.9% | 7.3%<br>17.4%<br>23.9%<br>11.7%<br>5.5%<br>-6.3%<br>-6.7%<br>4.0%<br>8.0%<br>11.1%<br>12.0%<br>2.1%<br>-0.8%<br>2.0% | 14.6%<br>8.6%<br>20.3%<br>22.7%<br>8.5%<br>6.0%<br>-6.0%<br>-6.0%<br>10.9%<br>11.9%<br>11.9%<br>1.1%                  | 22.8%<br>17.1%<br>9.1%<br>9.5%<br>5.6%<br>-5.8%<br>-5.4%<br>4.5%<br>9.6%<br>10.5%<br>11.3%<br>0.4%           | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%<br>8.4%<br>5.9%<br>-5.6%<br>-4.6%<br>5.1%<br>9.1%<br>10.2%<br>10.8% | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>21.9%<br>8.2%<br>6.1%<br>-5.6%<br>-3.9%<br>9.7%                  |
| 1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2010<br>2011<br>2012<br>2013<br>2014<br>2015<br>2016<br>2017         | -26.9%<br>10.2%<br>3.3%<br>3.1%<br>10.8%<br>12.7%<br>8.6%<br>-1.7%<br>1.8%<br>7.0%<br>10.8%<br>11.3%<br>0.9%<br>5.5% | 0.7% 3.1% -9.1% 4.1% 9.5% 7.5% 11.4% 6.5% 0.7% 2.3% 10.1% 8.6% 3.8% 3.1% | 11.7%<br>17.4%<br>-7.5%<br>-8.3%<br>4.4%<br>6.7%<br>8.2%<br>12.8%<br>4.1%<br>-0.3%<br>4.2%<br>7.3%<br>4.2%<br>2.1% | 6.9%<br>25.1%<br>7.8%<br>-5.5%<br>-9.0%<br>3.3%<br>7.0%<br>10.1%<br>12.0%<br>3.2%<br>-0.3%<br>4.5%<br>3.4%<br>2.3% | 16.1% 17.7% 16.3% 8.2% -7.0% -7.6% 3.2% 7.7% 10.7% 12.0% 2.6% 0.1% 2.5% 1.9%  | 7.3%<br>17.4%<br>23.9%<br>5.5%<br>-6.3%<br>-6.7%<br>4.0%<br>8.0%<br>11.1%<br>12.0%<br>2.1%<br>-0.8%<br>2.0%          | 14.6%<br>8.6%<br>20.3%<br>20.3%<br>8.5%<br>6.0%<br>-6.0%<br>4.4%<br>8.7%<br>10.9%<br>11.9%<br>-1.1%<br>-7.3%<br>0.860 | 22.8%<br>17.1%<br>9.1%<br>19.6%<br>20.0%<br>9.5%<br>-5.8%<br>-5.4%<br>4.5%<br>9.6%<br>10.5%<br>11.3%<br>0.4% | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%<br>8.4%<br>5.9%<br>-4.6%<br>5.1%<br>9.1%<br>10.2%<br>10.8%          | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>19.4%<br>21.9%<br>8.2%<br>6.1%<br>-5.6%<br>-3.9%<br>4.8%<br>9.7% |
| 1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009<br>2010<br>2011<br>2012<br>2013<br>2014<br>2015<br>2016<br>2017 | -26.9%<br>10.2%<br>3.3%<br>3.1%<br>10.8%<br>12.7%<br>8.6%<br>-1.7%<br>1.8%<br>7.0%<br>10.8%<br>11.3%<br>0.9%<br>5.5% | 0.7% 3.1% -9.1% 4.1% 9.5% 7.5% 11.4% 6.5% 0.7% 2.3% 10.1% 8.6% 3.8% 3.1% | 11.7%<br>17.4%<br>-7.5%<br>-8.3%<br>4.4%<br>6.7%<br>8.2%<br>12.8%<br>4.1%<br>-0.3%<br>4.2%<br>2.1%                 | 6.9% 25.1% 7.8% -5.5% -9.0% 3.3% 7.0% 10.1% 12.0% 3.2% -0.3% 4.5% 3.4% 2.3%  | 16.1%<br>17.7%<br>16.3%<br>8.2%<br>-7.0%<br>-7.6%<br>3.2%<br>7.7%<br>10.7%<br>12.0%<br>2.6%<br>0.1%<br>2.5%<br>1.9% | 7.3%<br>17.4%<br>23.9%<br>11.7%<br>5.5%<br>-6.3%<br>-6.7%<br>4.0%<br>8.0%<br>11.1%<br>12.0%<br>2.1%<br>-0.8%<br>2.0% | 14.6%<br>8.6%<br>20.3%<br>22.7%<br>8.5%<br>6.0%<br>-6.0%<br>4.4%<br>8.7%<br>10.9%<br>11.9%<br>-1.1%                   | 22.8%<br>17.1%<br>9.1%<br>19.6%<br>20.0%<br>9.5%<br>5.6%<br>-5.4%<br>4.5%<br>9.6%<br>10.5%<br>11.3%<br>0.4%  | 16.8%<br>24.7%<br>18.2%<br>8.8%<br>17.0%<br>22.1%<br>8.4%<br>5.9%<br>-5.6%<br>-4.6%<br>5.1%<br>9.1%<br>10.2%<br>10.8% | 10.0%<br>18.4%<br>25.3%<br>17.9%<br>6.4%<br>21.9%<br>8.2%<br>6.1%<br>-5.6%<br>-3.9%<br>9.7%                  |

Note: All figures in each calendar year diagonal contain information from the same combination of insurers, all of whom submitted complete data for all evaluations for a given accident year. Therefore, each accident year may contain a different mix of insurers (ranging from 58% to 100% of the total California workers' compensation insured market measured using 2016 earned premium levels).

Source: WCIRB accident year experience calls.

<sup>\*</sup>Trend is based on an exponential distribution.

 $<sup>^{\</sup>star\star}\text{All}$  paid ALAE exclude the paid cost of medical cost containment programs.

### Item AC18-03-02 12/31/2017 Experience – Review of Methodologies

Staff has prepared a preliminary analysis of statewide experience through December 31, 2017, which is included in Exhibits 1 through 8. This information reflects insurers writing approximately 100% of the market based on 2017 premium levels. The methodologies used were consistent with those reflected in the January 1, 2018 Pure Premium Rate Filing. Wage and loss levels were projected to April 1, 2019 (the approximate midpoint of experience on policies incepting between July 1, 2018 and December 31, 2018) and premiums were adjusted to the industry average filed pure premium rate level as of July 1, 2017 as reflected in the January 1, 2018 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, 2018 and December 31, 2018 based on December 31, 2017 experience is 0.591. (The policy year 2018 loss to pure premium ratio reflected in the Amended January 1, 2018 Pure Premium Rate Filing based on June 30, 2017 experience was 0.641.)

Additional supplemental information is included in Exhibits 9 through 12.

# California Workers' Compensation Accident Year Experience as of December 31, 2017

|             | Earned         | Paid             | Indemnity   | Paid          | Medical       |               | Total          | Loss   |
|-------------|----------------|------------------|-------------|---------------|---------------|---------------|----------------|--------|
| <u>Year</u> | <u>Premium</u> | <u>Indemnity</u> | Reserves    | Medical**     | Reserves      | IBNR*         | Incurred**     | Ratio* |
| 1985        | 2,872,481,605  | 1,278,631,775    | 3,801,318   | 985,105,548   | 20,819,278    | 15,593,836    | 2,303,951,755  | 0.802  |
| 1986        | 3,506,609,097  | 1,382,498,583    | 4,921,029   | 1,136,208,586 | 30,611,739    | 18,902,117    | 2,573,142,054  | 0.734  |
| 1987        | 4,374,085,383  | 1,504,454,210    | 7,343,851   | 1,327,185,475 | 44,615,546    | 61,965,004    | 2,945,564,086  | 0.673  |
| 1988        | 5,173,049,472  | 1,701,585,119    | 7,264,460   | 1,531,873,403 | 42,714,474    | 39,740,931    | 3,323,178,387  | 0.642  |
| 1989        | 5,674,529,942  | 1,937,265,938    | 8,699,942   | 1,786,669,698 | 60,106,713    | 38,911,902    | 3,831,654,193  | 0.675  |
| 1990        | 5,698,665,461  | 2,254,587,062    | 8,772,390   | 2,032,192,596 | 59,311,213    | 63,819,894    | 4,418,683,155  | 0.775  |
| 1991        | 5,863,319,243  | 2,469,914,939    | 17,219,332  | 2,183,376,707 | 67,884,160    | 60,574,810    | 4,798,969,948  | 0.818  |
| 1992        | 5,681,466,382  | 1,971,255,132    | 13,865,986  | 1,747,340,284 | 68,636,833    | 62,390,633    | 3,863,488,868  | 0.680  |
| 1993        | 5,928,480,359  | 1,689,085,606    | 15,079,809  | 1,495,940,715 | 86,686,628    | 49,728,158    | 3,336,520,916  | 0.563  |
| 1994        | 5,022,749,028  | 1,621,495,191    | 21,086,862  | 1,453,280,447 | 92,554,341    | 53,140,225    | 3,241,557,066  | 0.645  |
| 1995        | 3,778,975,599  | 1,754,822,231    | 31,920,000  | 1,596,765,676 | 118,162,413   | 63,268,873    | 3,564,939,193  | 0.943  |
| 1996        | 3,736,857,547  | 1,939,382,391    | 38,810,192  | 1,686,732,199 | 131,003,164   | 76,256,636    | 3,872,184,582  | 1.036  |
| 1997        | 3,916,944,392  | 2,298,635,565    | 47,188,277  | 1,981,090,256 | 154,785,111   | 115,122,657   | 4,596,821,866  | 1.174  |
| 1998        | 4,322,051,270  | 2,750,762,041    | 61,269,775  | 2,593,745,499 | 247,950,610   | 206,714,934   | 5,860,442,859  | 1.356  |
| 1999        | 4,537,629,086  | 3,028,102,322    | 59,652,249  | 2,975,488,834 | 220,192,136   | 286,378,851   | 6,569,814,392  | 1.448  |
| 2000        | 5,905,419,052  | 3,392,132,457    | 84,312,884  | 3,498,395,467 | 270,510,971   | 409,789,770   | 7,655,141,549  | 1.296  |
| 2001        | 10,094,684,192 | 4,785,949,210    | 130,999,900 | 5,249,256,619 | 443,963,780   | 657,056,446   | 11,267,225,955 | 1.116  |
| 2002        | 13,405,893,679 | 4,713,736,453    | 121,850,957 | 5,367,039,779 | 412,537,196   | 906,913,214   | 11,522,077,599 | 0.859  |
| 2003        | 19,429,675,115 | 4,471,278,692    | 179,372,311 | 4,928,233,010 | 424,605,441   | 1,301,041,515 | 11,304,530,969 | 0.582  |
| 2004        | 23,043,963,090 | 3,147,713,061    | 151,744,506 | 3,942,843,073 | 377,575,743   | 1,407,752,848 | 9,027,629,231  | 0.392  |
| 2005        | 21,350,709,483 | 2,472,189,457    | 137,158,546 | 3,535,755,543 | 367,393,647   | 1,172,160,007 | 7,684,657,200  | 0.360  |
| 2006        | 17,205,061,787 | 2,550,987,645    | 150,871,788 | 3,633,158,625 | 380,764,323   | 831,707,960   | 7,547,490,341  | 0.439  |
| 2007        | 13,252,379,499 | 2,669,426,070    | 169,607,547 | 3,869,372,966 | 464,871,808   | 802,655,654   | 7,975,934,045  | 0.602  |
| 2008        | 10,744,360,124 | 2,705,586,885    | 195,834,485 | 3,862,354,229 | 461,375,680   | 639,198,277   | 7,864,349,556  | 0.732  |
| 2009        | 8,877,640,496  | 2,556,087,276    | 200,478,745 | 3,641,128,559 | 460,289,188   | 650,739,725   | 7,508,723,493  | 0.846  |
| 2010        | 9,398,228,398  | 2,556,139,899    | 205,782,363 | 3,698,461,406 | 448,377,123   | 763,138,143   | 7,671,898,934  | 0.816  |
| 2011        | 10,129,285,077 | 2,474,957,007    | 244,207,169 | 3,291,858,941 | 526,544,108   | 996,140,953   | 7,533,708,178  | 0.744  |
| 2012        | 11,692,134,220 | 2,455,962,956    | 300,626,288 | 3,113,269,120 | 583,417,483   | 1,244,484,515 | 7,697,760,362  | 0.658  |
| 2013        | 14,149,827,161 | 2,403,972,386    | 352,363,037 | 2,869,565,292 | 656,359,985   | 2,493,208,304 | 8,775,469,004  | 0.620  |
| 2014        | 15,997,914,039 | 2,303,771,294    | 515,785,583 | 2,585,101,891 | 803,775,389   | 3,256,442,651 | 9,464,876,808  | 0.592  |
| 2015        | 17,055,113,071 | 1,968,007,624    | 739,636,803 | 2,181,815,253 | 1,085,783,307 | 4,347,693,630 | 10,322,936,617 | 0.605  |
| 2016        | 17,954,631,227 | 1,268,323,266    | 921,292,723 | 1,582,428,381 | 1,343,177,480 | 5,387,003,916 | 10,502,225,766 | 0.585  |
| 2017        | 17,647,647,790 | 410,239,015      | 771,343,869 | 692,052,235   | 1,381,898,665 | 7,546,031,346 | 10,801,565,130 | 0.612  |

<sup>\*</sup> Shown for informational purposes only.

Source: WCIRB quarterly experience calls

<sup>\*\*</sup> 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

|                        | 0.999                         | 0.999 | 1.000 | 1.000 | 1.002 | 1.001 | 1.001 | 1.001 | 1.000 | 1.002 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.001                      |
|------------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------|
|                        | 192/180                       | 0.998 | 1.000 | 1.002 | 1.001 | 1.001 | 1.002 | 1.002 | 1.002 | 1.001 | 1.003 |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.002                      |
|                        | 180/168                       |       | 0.997 | 1.002 | 1.000 | 1.002 | 1.001 | 1.002 | 1.004 | 1.002 | 1.002 | 1.002 |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.002                      |
|                        | 168/156                       |       |       | 1.000 | 1.000 | 1.003 | 1.004 | 1.003 | 1.001 | 1.003 | 1.002 | 1.003 | 1.001 |       |       |       |       |       |       |       |       |       |       |       |       | 1.002                      |
|                        | 156/144                       |       |       |       | 1.000 | 1.002 | 1.003 | 1.003 | 1.003 | 1.005 | 1.003 | 1.004 | 1.003 | 1.006 |       |       |       |       |       |       |       |       |       |       |       | 1.004                      |
|                        |                               |       |       |       |       | 1.002 | 1.002 | 1.002 | 1.005 | 1.006 | 1.005 | 1.006 | 1.007 | 1.005 | 1.004 |       |       |       |       |       |       |       |       |       |       | 1.006                      |
| ·                      | <u>132/120</u> <u>144/132</u> |       |       |       |       |       | 1.004 | 1.004 | 1.004 | 1.007 | 1.007 | 1.009 | 1.007 | 1.006 | 1.007 | 1.005 |       |       |       |       |       |       |       |       |       | 1.007                      |
| Age-to-Age (in months) | 120/108                       |       |       |       |       |       |       | 1.007 | 1.004 | 1.006 | 1.010 | 1.015 | 1.014 | 1.012 | 1.009 | 1.011 | 1.009 |       |       |       |       |       |       |       |       | 1.012                      |
| e-to-Age (             | 108/96                        |       |       |       |       |       |       |       | 1.008 | 1.009 | 1.010 | 1.015 | 1.018 | 1.016 | 1.015 | 1.012 | 1.012 | 1.014 |       |       |       |       |       |       |       | 1.014                      |
| Ag                     | 96/84                         |       |       |       |       |       |       |       |       | 1.014 | 1.011 | 1.018 | 1.028 | 1.028 | 1.023 | 1.022 | 1.019 | 1.019 | 1.016 |       |       |       |       |       |       | 1.016                      |
|                        | 84/72                         |       |       |       |       |       |       |       |       |       | 1.018 | 1.021 | 1.026 | 1.040 | 1.035 | 1.037 | 1.030 | 1.024 | 1.026 | 1.022 |       |       |       |       |       | 1.022                      |
|                        | 72/60                         |       |       |       |       |       |       |       |       |       |       | 1.033 | 1.041 | 1.053 | 1.053 | 1.049 | 1.045 | 1.048 | 1.045 | 1.037 | 1.041 |       |       |       |       | 1.041                      |
|                        | <u>60/48</u>                  |       |       |       |       |       |       |       |       |       |       |       | 1.042 | 1.068 | 1.080 | 1.070 | 1.074 | 1.076 | 1.069 | 1.061 | 1.063 | 1.055 |       |       |       | 1.055                      |
|                        | 48/36                         |       |       |       |       |       |       |       |       |       |       |       |       | 1.098 | 1.111 | 1.120 | 1.136 | 1.142 | 1.131 | 1.133 | 1.113 | 1.112 | 1.115 |       |       | 1.115                      |
|                        | 36/24                         |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.247 | 1.273 | 1.302 | 1.293 | 1.315 | 1.277 | 1.279 | 1.259 | 1.278 | 1.259 |       | 1.259<br>1.698             |
|                        | <u>24/12</u>                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.784 | 1.858 | 1.983 | 1.994 | 1.997 | 1.992 | 1.931 | 1.960 | 1.969 | 1.939 | 1.939<br>3.293             |
|                        | Accident Year<br>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  | Selected (a)<br>Cumulative |

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

Incurred Indemnity Loss Development Factors (Continued)

|                       | ULT/396Inc (b)        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   | 1.003                      |
|-----------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|----------------------------|
|                       | 396/384 UI            | 1.000 | 1.000 | 1.000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   | 1.003                      |
|                       | 384/372               | 1.001 | 0.999 | 1.000 | 1.000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 0 | 1.003                      |
|                       | 372/360               | 1.001 | 1.000 | 1.000 | 1.000 | 1.001 |       |       |       |       |       |       |       |       |       |       |       |       |       | 0 | 1.003                      |
|                       | 360/348<br>1.001      | 1.001 | 1.001 | 1.001 | 0.999 | 1.001 | 1.000 |       |       |       |       |       |       |       |       |       |       |       |       | 7 | 1.001                      |
|                       | 348/336<br>1.001      | 1.001 | 1.001 | 1.001 | 1.000 | 1.001 | 1.000 | 1.000 |       |       |       |       |       |       |       |       |       |       |       | 7 | 1.001                      |
|                       | 336/324<br>1.000      | 1.001 | 1.000 | 1.001 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 |       |       |       |       |       |       |       |       |       |       | 7 | 1.001                      |
| months)               | 324/312<br>1.002      | 1.000 | 1.001 | 1.001 | 1.002 | 1.000 | 1.000 | 1.001 | 1.000 | 1.000 |       |       |       |       |       |       |       |       |       | 7 | 1.001                      |
| Age-to-Age (in months | 312/300               | 1.000 | 1.001 | 1.000 | 1.001 | 1.002 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |       |       |       |       |       |       |       |       | 0 | 1.006                      |
| Age                   | 300/288               |       | 1.000 | 1.001 | 1.000 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |       |       |       |       |       |       |       | 0 | 1.006                      |
|                       | 288/276               |       |       | 1.000 | 1.001 | 1.000 | 1.002 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.999 |       |       |       |       |       |       | 0 | 1.006                      |
|                       | 276/264               |       |       |       | 1.001 | 1.000 | 1.001 | 1.001 | 1.000 | 1.000 | 1.001 | 1.000 | 1.001 | 1.001 |       |       |       |       |       | 7 | 1.000                      |
|                       | 264/252               |       |       |       |       | 0.999 | 1.000 | 1.000 | 1.001 | 1.000 | 1.001 | 1.001 | 1.001 | 1.000 | 1.001 |       |       |       |       | 3 | 1.007                      |
|                       | 252/240               |       |       |       |       |       | 1.001 | 1.001 | 0.999 | 1.000 | 1.000 | 1.001 | 1.000 | 1.001 | 1.000 | 1.000 |       |       |       | 9 | 1.000                      |
|                       | 240/228               |       |       |       |       |       |       | 1.000 | 1.000 | 1.001 | 1.001 | 1.001 | 1.002 | 0.998 | 1.000 | 1.000 | 1.001 |       |       | 0 | 1.000                      |
|                       | 228/216               |       |       |       |       |       |       |       | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.000 | 1.000 | 1.001 | 1.000 |       |   | 1.001                      |
|                       | 216/204               |       |       |       |       |       |       |       |       | 1.000 | 0.998 | 0.999 | 1.001 | 1.003 | 1.003 | 1.000 | 1.003 | 1.000 | 1.002 | 0 | 1.002                      |
|                       | Accident Year<br>1982 | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  |   | Selected (a)<br>Cumulative |

The ULT/396Inc 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 most recent evaluation, and extrapolated to 80 development years. **Q** 

E-4

# Incurred Medical Loss Development Factors

| 204/192  | 1.011        | 1.007 | 1.011 | 1.009 | 1.005 | 1.007 | 1.012 | 0.999 | 0.995 | 0.994 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.002        | 1.043      |
|--|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|------------|
| 192/180  |              | 1.018 | 1.021 | 1.005 | 1.014 | 1.003 | 1.008 | 1.005 | 0.999 | 0.997 | 1.000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.002        | 1.045      |
| 180/168  |              |       | 1.009 | 1.016 | 1.013 | 1.012 | 1.014 | 1.013 | 1.006 | 1.001 | 0.997 | 0.999 |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.005        | 1.050      |
| 156/144 168/156                                  |              |       |       | 1.028 | 1.018 | 1.015 | 1.004 | 1.011 | 1.012 | 1.013 | 0.999 | 0.998 | 966.0 |       |       |       |       |       |       |       |       |       |       |       |       | 1.005        | 1.055      |
| 156/144  |              |       |       |       | 1.024 | 1.012 | 1.017 | 1.013 | 1.018 | 1.015 | 1.010 | 1.003 | 1.001 | 0.999 |       |       |       |       |       |       |       |       |       |       |       | 1.008        | 1.063      |
| (b)<br>132/120 144/132                           |              |       |       |       |       | 1.030 | 1.020 | 1.018 | 1.018 | 1.017 | 1.014 | 1.011 | 1.006 | 1.006 | 1.000 |       |       |       |       |       |       |       |       |       |       | 1.009        | 1.073      |
| (b)<br>132/120                                   |              |       |       |       |       |       | 1.023 | 1.019 | 1.024 | 1.022 | 1.022 | 1.018 | 1.012 | 1.006 | 1.000 | 1.008 |       |       |       |       |       |       |       |       |       | 1.011        | 1.085      |
| Age-to-Age (in months) (b) 84 108/96 120/108 13: |              |       |       |       |       |       |       | 1.030 | 1.017 | 1.035 | 1.028 | 1.029 | 1.026 | 1.020 | 1.012 | 1.004 | 1.004 |       |       |       |       |       |       |       |       | 1.016        | 1.102      |
| -to-Age (i<br>108/96                             |              |       |       |       |       |       |       |       | 1.028 | 1.034 | 1.029 | 1.037 | 1.032 | 1.032 | 1.022 | 1.018 | 1.010 | 1.007 |       |       |       |       |       |       |       | 1.007        | 1.110      |
| Age<br>96/84                                     |              |       |       |       |       |       |       |       |       | 1.040 | 1.036 | 1.042 | 1.043 | 1.045 | 1.040 | 1.032 | 1.026 | 1.016 | 1.012 |       |       |       |       |       |       | 1.012        | 1.123      |
| 84/72  |              |       |       |       |       |       |       |       |       |       | 1.040 | 1.042 | 1.061 | 1.055 | 1.048 | 1.050 | 1.041 | 1.030 | 1.025 | 1.016 |       |       |       |       |       | 1.016        | 1.141      |
| 72/60  |              |       |       |       |       |       |       |       |       |       |       | 1.060 | 1.060 | 1.084 | 1.066 | 1.070 | 1.061 | 1.061 | 1.045 | 1.034 | 1.031 |       |       |       |       | 1.031        | 1.176      |
| 60/48  |              |       |       |       |       |       |       |       |       |       |       |       | 1.081 | 1.074 | 1.081 | 1.081 | 1.092 | 1.087 | 1.077 | 1.069 | 1.056 | 1.040 |       |       |       | 1.040        | 1.223      |
| 48/36  | 9            |       |       |       |       |       |       |       |       |       |       |       |       | 1.087 | 1.103 | 1.124 | 1.129 | 1.140 | 1.134 | 1.125 | 1.092 | 1.086 | 1.078 |       |       | 1.078        | 1.319      |
| 36/24  |              |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.196 | 1.204 | 1.212 | 1.227 | 1.245 | 1.222 | 1.188 | 1.150 | 1.159 | 1.145 |       | 1.145        | 1.510      |
| 24/12  | ! <br>!<br>! |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.518 | 1.527 | 1.604 | 1.620 | 1.667 | 1.592 | 1.559 | 1.523 | 1.511 | 1.494 | 1.494        | 2.256      |
| Accident Year                                    | 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  | Selected (a) | Cumulative |

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

|                       | <u>ULT/396Inc (c)</u> |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |              | 7            | 1 (1.74 |
|-----------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|--------------|---------|
|                       | 396/384               |       | 0.997 | 1.000 | 0.999 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 000          | 0.00         | × '     |
|                       | 384/372               |       | 1.003 | 0.997 | 0.999 | 1.001 |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1            | 1.000        | · ·     |
|                       | 372/360               |       | 1.004 | 1.001 | 0.998 | 0.998 | 1.001 |       |       |       |       |       |       |       |       |       |       |       |       |       | 1            | 000.         | -       |
|                       | 360/348               | 1.009 | 1.003 | 1.003 | 1.003 | 1.002 | 0.997 | 0.999 |       |       |       |       |       |       |       |       |       |       |       |       | 100          | 00.7         | 1/1/4   |
|                       | 348/336               | 1.003 | 1.006 | 1.001 | 1.002 | 1.000 | 1.001 | 0.998 | 0.999 |       |       |       |       |       |       |       |       |       |       |       | 1            |              | 177     |
|                       | 336/324               | 1.004 | 1.002 | 1.003 | 1.005 | 1.005 | 1.005 | 1.002 | 0.999 | 1.000 |       |       |       |       |       |       |       |       |       |       | 1 003        |              | -       |
| months)               | 324/312               | 1.006 | 1.004 | 1.002 | 1.003 | 1.004 | 1.004 | 1.003 | 0.999 | 1.000 | 0.999 |       |       |       |       |       |       |       |       |       | 1 002        | 1.002        | 7.7     |
| Age-to-Age (in months | 312/300               |       | 1.006 | 1.003 | 1.003 | 1.006 | 1.003 | 1.003 | 1.003 | 1.002 | 1.000 | 1.002 |       |       |       |       |       |       |       |       | 1 002        | 1.002        |         |
| Age                   | 300/288               |       |       | 1.003 | 1.003 | 1.005 | 1.007 | 1.005 | 1.000 | 0.997 | 1.001 | 0.999 | 1.000 |       |       |       |       |       |       |       | 1            | 000.         |         |
|                       | 288/276               |       |       |       | 1.001 | 1.006 | 0.999 | 1.002 | 1.006 | 1.003 | 1.003 | 1.000 | 966.0 | 0.995 |       |       |       |       |       |       | 1001         | 00.          | ``      |
|                       | 276/264               |       |       |       |       | 1.003 | 1.011 | 1.005 | 1.008 | 1.003 | 1.002 | 1.005 | 1.000 | 966.0 | 0.992 |       |       |       |       |       | 1            | 200.         |         |
|                       | 264/252               |       |       |       |       |       | 1.003 | 1.005 | 1.005 | 1.003 | 1.003 | 1.003 | 0.999 | 1.001 | 1.006 | 0.999 |       |       |       |       | 1 002        | 1.002        | 7       |
|                       | 252/240               |       |       |       |       |       |       | 1.006 | 1.005 | 1.005 | 1.002 | 1.005 | 1.004 | 1.006 | 0.999 | 0.998 | 0.997 |       |       |       | 1 002        | 1.002        | 3       |
|                       | 240/228               |       |       |       |       |       |       |       | 1.006 | 1.007 | 1.006 | 1.002 | 1.014 | 1.007 | 1.006 | 1.001 | 0.998 | 0.994 |       |       | 1 003        |              | 2.2     |
|                       | 228/216               |       |       |       |       |       |       |       |       | 1.007 | 1.005 | 1.004 | 1.011 | 1.004 | 966.0 | 1.005 | 0.994 | 1.001 | 0.995 |       | 0000         | 0.0          | 7 (2.27 |
|                       | 216/204               |       |       |       |       |       |       |       |       |       | 1.008 | 1.005 | 1.007 | 1.011 | 1.015 | 1.008 | 1.001 | 1.001 | 0.999 | 966.0 | 1 003        |              | 1 ()41  |
|                       | Accident Year         | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | Selected (a) | Odlected (a) | 211/10  |

The ULT/396Inc 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 most recent evaluation, and extrapolated to 80 development years. <u>©</u>

# Paid Indemnity Loss Development Factors

| 204/192<br>1.003<br>1.003<br>1.004<br>1.005<br>1.006<br>1.006<br>1.005  | 1.004        | 1.038                                      |  |
|---|--------------|--|--|
|   |              |  |  |
| 1.004<br>1.004<br>1.005<br>1.005<br>1.006<br>1.006<br>1.005<br>1.006  | 1.005        | 1.044                                      | I  |
| 180/168<br>1.006<br>1.005<br>1.006<br>1.007<br>1.007<br>1.006<br>1.008  | 1.007        | 1.051                                      | l  |
| 168/156<br>1.007<br>1.006<br>1.008<br>1.008<br>1.008<br>1.008<br>1.009  | 1.009        | 1.060                                      | ŀ  |
| 1.009<br>1.009<br>1.009<br>1.009<br>1.009<br>1.012<br>1.012<br>1.013  | 1.012        | 1.073                                      | ŀ  |
| 144/132<br>1.012<br>1.012<br>1.012<br>1.014<br>1.015<br>1.015<br>1.015  | 1.015        | 1.089                                      | ļ  |
| 1.015<br>1.015<br>1.015<br>1.015<br>1.020<br>1.020<br>1.020<br>1.020  | 1.019        | 1.11                                       | I  |
| in months) 120/108 1.018 1.018 1.023 1.028 1.026 1.026 1.027  | 1.025        | 1.139                                      | i  |
| Age-to-Age (in months)  108/96 120/108  1.025 1.016 1.024 1.017 1.026 1.023 1.035 1.026 1.035 1.026 1.037 1.027 1.027 1.023 1.031                             | 1.031        | 1.174                                      | l  |
| Ag<br>96/84<br>1.034<br>1.034<br>1.047<br>1.050<br>1.046<br>1.046<br>1.043<br>1.038   | 1.038        | 1.219                                      | ł  |
| 84/72<br>1.046<br>1.043<br>1.060<br>1.066<br>1.066<br>1.060<br>1.060  | 1.056        | 1.287                                      | ļ  |
| 1.072<br>1.072<br>1.073<br>1.090<br>1.092<br>1.092<br>1.092<br>1.087  | 1.087        | 1.399                                      | 1.427  |
| 60/48<br>1.116<br>1.121<br>1.135<br>1.140<br>1.156<br>1.147<br>1.137  | 1.129        | 1.579                                      | 1.661  |
| 48/36<br>1.235<br>1.229<br>1.246<br>1.271<br>1.280<br>1.260<br>1.260<br>1.257   | 1.257        | 1.985                                      | 2.088  |
| 36/24<br>1.539<br>1.547<br>1.616<br>1.628<br>1.618<br>1.635   | 1.618        | 3.212                                      | 3.378  |
| 24/12<br>2.905<br>2.927<br>3.069<br>3.157<br>3.208<br>3.208<br>3.229<br>3.229<br>3.236  | 3.236        | 10.393                                     | 10.930                                       |
| Accident Year<br>1992<br>1993<br>1994<br>1995<br>1996<br>1999<br>2000<br>2001<br>2004<br>2005<br>2006<br>2007<br>2008<br>2010<br>2011<br>2012<br>2013<br>2014 | Selected (a) | Cumulative Unadjusted for Impact of SB 863 | Cumulative Adjusted for Impact of SB 863 (b) |

<sup>(</sup>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.
(b) The 48-to-ultimate factor for accident year 2014 and the 60-to-ultimate factor for accident year 2013 have been adjusted by 5.2% and 2.0% respectively, for the impacts of SB 863 on indemnity loss development.
(See Impact of Senate Bill No. 863 on Loss Development Patterns, WCIRB, August 13, 2013.)

Paid Indemnity Loss Development Factors (Continued)

|                        | ULT/396Inc (d)   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |              | 1.003      |
|------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|------------|
|                        | 396Inc/396Pd (c) | 1.003 | 1.004 | 1.005 | 1.005 | 1.003 | 1.003 |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.004        |            |
|                        | 396/384          |       | 1.001 | 1.001 | 1.001 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.001        | 1.008      |
|                        | 384/372          |       | 1.001 | 1.000 | 1.001 | 1.001 |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.001        | 1.008      |
|                        | 372/360          |       | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.001        | 1.009      |
|                        | 360/348          | 1.002 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 |       |       |       |       |       |       |       |       |       |       |       |       | 1.001        | 1.010      |
|                        | 348/336          | 1.001 | 1.001 | 1.001 | 1.002 | 1.001 | 1.001 | 1.001 | 1.001 |       |       |       |       |       |       |       |       |       |       |       | 1.001        | 1.011      |
| nonths)                | 336/324          | 1.000 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.000 |       |       |       |       |       |       |       |       |       |       | 1.001        | 1.012      |
| Age-to-Age (in months) | 324/312          | 1.003 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.000 | 1.001 |       |       |       |       |       |       |       |       |       | 1.001        | 1.013      |
| Age-t                  | 312/300          |       |       |       |       |       |       |       |       | 1.001 |       | 1.001 |       |       |       |       |       |       |       |       | 1.001        | 1.014      |
|                        | 300/288          |       |       | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 |       |       |       |       |       |       |       | 1.001        | 1.015      |
|                        | 288/276          |       |       |       | 1.001 | 1.001 | 1.001 | 1.002 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.002 |       |       |       |       |       |       | 1.001        | 1.016      |
|                        | 276/264          |       |       |       |       | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.002 | 1.002 |       |       |       |       |       | 1.002        | 1.018      |
|                        | 264/252          |       |       |       |       |       | 1.001 | 1.001 | 1.001 | 1.001 | 1.002 | 1.002 | 1.002 | 1.002 | 1.002 | 1.002 |       |       |       |       | 1.002        | 1.020      |
|                        | 252/240          |       |       |       |       |       |       | 1.001 | 1.001 | 1.001 | 1.001 | 1.002 | 1.002 | 1.003 | 1.003 | 1.003 | 1.002 |       |       |       | 1.003        | 1.023      |
|                        | 240/228          |       |       |       |       |       |       |       | 1.002 | 1.001 | 1.001 | 1.002 | 1.003 | 1.003 | 1.003 | 1.003 | 1.003 | 1.003 |       |       | 1.003        | 1.026      |
|                        | 228/216          |       |       |       |       |       |       |       |       | 1.002 | 1.002 | 1.002 | 1.003 | 1.003 | 1.005 | 1.004 | 1.003 | 1.004 | 1.003 |       | 1.003        | 1.029      |
|                        | 216/204          |       |       |       |       |       |       |       |       |       | 1.002 | 1.002 | 1.002 | 1.004 | 1.005 | 1.005 | 1.004 | 1.006 | 1.004 | 1.004 | 1.005        | 1.034      |
|                        | Accident Year    | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | Selected (a) | Cumulative |

Three-year averages of the 396Inc/396Pd factors are selected.

The ULT/396Inc 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 most recent evaluation, and extrapolated to 80 development years. <u>©</u>

Paid Medical Loss Development Factors

|                        | 204/192<br>1.017<br>1.012<br>1.015<br>1.015<br>1.015<br>1.017<br>1.011  |                        | <u>204/192</u><br>1.016<br>1.011<br>1.012 |  |  | 1.013                      |
|------------------------|---|------------------------|---|--|--|----------------------------|
|                        | 1.013<br>1.013<br>1.014<br>1.016<br>1.016<br>1.013<br>1.012<br>1.011  |                        | 192/180<br>1.014<br>1.013                 |  |  | 1.013                      |
|                        | 1.017<br>1.018<br>1.018<br>1.016<br>1.016<br>1.017<br>1.017<br>1.013  |                        | 180/168<br>1.018<br>1.013                 | 410.1  |  | 1.015                      |
|                        | 1.019<br>1.020<br>1.019<br>1.016<br>1.020<br>1.020<br>1.016<br>1.016  |                        | 168/156<br>1 018                          | 1.018  |  | 1.017                      |
|                        | 1.023<br>1.022<br>1.022<br>1.025<br>1.020<br>1.020<br>1.018<br>1.019<br>1.019   |                        | 156/144                                   | 1.020<br>1.019<br>1.020                              |  | 1.020                      |
|                        | 1.026<br>1.026<br>1.025<br>1.023<br>1.023<br>1.023<br>1.024<br>1.024<br>1.021   |                        | 144/132                                   | 1.026<br>1.023<br>1.022                              |  | 1.024                      |
|                        | 1,032<br>1,032<br>1,032<br>1,034<br>1,030<br>1,034<br>1,034<br>1,031<br>1,025<br>1,025  |                        | <u>132/120</u>                            | 1.033<br>1.027<br>1.024                              |  | 1.028                      |
| (in months)            | 1.032<br>1.032<br>1.034<br>1.034<br>1.036<br>1.036<br>1.034<br>1.031  | (in months)            | 120/108                                   | 1.037<br>1.033<br>1.029                              |  | 1.033                      |
| Age-to-Age (in months) | 1.038<br>1.038<br>1.034<br>1.040<br>1.049<br>1.042<br>1.035   | Age-to-Age (in months) | <u>108/96</u>                             | 1.045<br>1.038<br>1.034                              |  | 1.034                      |
|                        | 1.045<br>1.046<br>1.048<br>1.055<br>1.056<br>1.056<br>1.057<br>1.056  |                        | <u>96/84</u>                              | 1.055<br>1.049                                       | 2  | 1.045                      |
|                        | 1.054<br>1.057<br>1.057<br>1.070<br>1.073<br>1.068<br>1.075<br>1.067<br>1.067   |                        | 84/72                                     | 1.072  |  | 1.061                      |
|                        | 1.074<br>1.092<br>1.095<br>1.095<br>1.097<br>1.103<br>1.097<br>1.097  |                        | <u>72/60</u>                              | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-            | 1.00   | 1.089                      |
|                        | 60/48<br>1.123<br>1.140<br>1.142<br>1.146<br>1.152<br>1.145<br>1.143  |                        | <u>60/48</u>                              |  | 1.154<br>1.148<br>1.132                      | 1.132<br>1.931             |
|                        | 48/36<br>1.209<br>1.220<br>1.241<br>1.251<br>1.251<br>1.248<br>1.248<br>1.248   |                        | 48/36                                     |  | 1.258<br>1.243<br>1.227                      | 1.227                      |
|                        | 36/24<br>1.399<br>1.413<br>1.447<br>1.468<br>1.464<br>1.464<br>1.464  |                        | <u>36/24</u>                              |  | 1.476<br>1.465<br>1.439                      | 1.439<br>3.410             |
|                        | 2.412<br>2.416<br>2.408<br>2.408<br>2.580<br>2.580<br>2.561<br>2.561<br>2.563<br>2.518<br>2.533   | }<br>i                 | <u>24/12</u>                              |  | 2.544<br>2.533<br>2.480                      | 2.480<br>8.457             |
| Unadjusted (a)         | Accident Year<br>1992<br>1993<br>1994<br>1995<br>1996<br>1996<br>1999<br>2000<br>2001<br>2004<br>2005<br>2006<br>2007<br>2008<br>2007<br>2011<br>2011<br>2012<br>2013 | Adjusted (b)           | Accident Year<br>1999<br>2000<br>2001     | 2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009 | 2012<br>2012<br>2013<br>2014<br>2015<br>2016 | Selected (c)<br>Cumulative |

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.

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

These factors are adjusted for the following impacts: (i) reduction of historical outstanding medical losses paid prior to January 1, 2013 by the estimated 4.2% cost savings due to applicable SB 863 provisions; (ii) adjustment to historical outstanding medical losses paid prior to January 1, 2014 by an estimated 2.1% decrease in costs, and losses paid prior to January 1, 2015 by an estimated 1.7% decrease in costs due to RBRVS. (a)

Paid Medical Loss Development Factors (Continued)

|                        | (e)                             |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |                        | (3)                  | ( <u>A</u> )       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |             |              |            |  |
|------------------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|----------------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|--------------|------------|--|
|                        | ULT/396Inc                      |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |                        | (a) all T/206/11 (1) | <u>ULI/390IIIC</u> |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |             |              | 1.024      |  |
|                        | 396Inc/396Pd (d) ULT/396Inc (e) | 1.028 | 1.032 | 1.036 | 1.033 | 1.020 | 1.020 |       |       |       |        |       |       |       |       |       |       |       |       |       |       |                        | אי הם שטכי בייושטכ   | 390IIIC/390FU (U)  | 0.020 | 1.032 | 1.036 | 1.033 | 1.020 | 1.020 |       |       |       |       |       |       |       |       |       |       |       |       |             | 1.028        |            |  |
|                        | 396/384                         |       | 1.002 | 1.002 | 1.002 |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |                        | 100/300              | 290/204            |       | 1.003 | 1.003 | 1.002 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |             | 1.003        | 1.056      |  |
|                        | 384/372                         |       | 1.003 | 1.002 | 1.003 | 1.004 |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |                        | 070/100              | 304/312            |       |       | 1.003 | 1.003 | 1.005 |       |       |       |       |       |       |       |       |       |       |       |       |       |             | 1.004        | 1.060      |  |
|                        | 372/360                         |       | 1.004 | 1.003 | 1.002 | 1.006 | 1.003 |       |       |       |        |       |       |       |       |       |       |       |       |       |       |                        | 030/020              | 3/2/300            |       |       |       | 1.002 | 1.006 | 1.003 |       |       |       |       |       |       |       |       |       |       |       |       |             | 1.004        | 1.063      |  |
|                        | 360/348                         | 1.006 | 1.003 | 1.003 | 1.003 | 1.004 | 1.003 | 1 003 | 2     |       |        |       |       |       |       |       |       |       |       |       |       |                        | 0707030              | 300/340            |       |       |       |       | 1.005 | 1.003 | 1.003 |       |       |       |       |       |       |       |       |       |       |       |             | 1.004        | 1.067      |  |
|                        | 348/336                         | 1.006 | 1.004 | 1.004 | 1.004 | 1.005 | 1.003 | 1 003 | 1 003 | 2     |        |       |       |       |       |       |       |       |       |       |       |                        | 200/070              | 040/020            |       |       |       |       |       | 1.004 | 1.003 | 1.003 |       |       |       |       |       |       |       |       |       |       |             | 1.003        | 1.071      |  |
| onths)                 | 336/324                         | 1.009 | 1.004 | 1.004 | 1.004 | 1.005 | 1.005 | 1 003 | 1 003 | 1.003 | 200    |       |       |       |       |       |       |       |       |       |       | (atho)                 | 226/224              | 330/324            |       |       |       |       |       |       | 1.003 | 1.003 | 1.003 |       |       |       |       |       |       |       |       |       |             | 1.003        | 1.074      |  |
| Age-to-Age (in months) | 324/312                         | 1.007 | 1.005 | 1.003 | 1.004 | 1.005 | 1.005 | 1 004 | 1003  | 2000  | 2002   | 500.1 |       |       |       |       |       |       |       |       |       | And to And (in months) | 274/242              | 324/312            |       |       |       |       |       |       |       | 1.004 | 1.003 | 1.003 |       |       |       |       |       |       |       |       |             | 1.003        | 1.078      |  |
| Age-tr                 | 312/300                         |       | 1.003 | 1.004 | 1.003 | 1.005 | 1.005 | 1 005 | 1 006 | 1,000 | 200.1  | 1.003 | 1.006 |       |       |       |       |       |       |       |       | 4                      | 77/2/2/2             | 212/300            |       |       |       |       |       |       |       |       | 1.003 | 1.004 | 1.007 |       |       |       |       |       |       |       |             | 1.005        | 1.083      |  |
|                        | 300/288                         |       |       | 1.003 | 1.004 | 1.005 | 1.005 | 1 005 | 1 007 | 100.1 | 100.   | 500.  | 1.005 | 1.006 |       |       |       |       |       |       |       |                        | 000/000              | 200/200            |       |       |       |       |       |       |       |       |       | 1.004 | 1.005 | 1.007 |       |       |       |       |       |       |             | 1.005        | 1.088      |  |
|                        | 288/276                         |       |       |       | 1.004 | 1.005 | 1.005 | 1 006 | 1 006 | 2007  | 1.00.1 | 000.1 | 1.005 | 1.006 | 1.007 |       |       |       |       |       |       |                        | 320/000              | 700/7/0            |       |       |       |       |       |       |       |       |       |       | 1.005 | 1.007 | 1.008 |       |       |       |       |       |             | 1.007        | 1.096      |  |
|                        | 276/264                         |       |       |       |       | 1.004 | 1.005 | 1 005 | 1008  | 1.006 | 1.000  | 000.1 | 1.006 | 1.007 | 1.008 | 1.012 |       |       |       |       |       |                        | 076/064              | 710/204            |       |       |       |       |       |       |       |       |       |       |       | 1.008 | 1.009 | 1.014 |       |       |       |       |             | 1.010        | 1.107      |  |
|                        | 264/252                         |       |       |       |       |       | 1.006 | 1 005 | 1 006 | 1,005 | 1.003  | 000.1 | 1.008 | 1.011 | 1.009 | 1.009 | 1.007 |       |       |       |       |                        | 064/060              | 707/507            |       |       |       |       |       |       |       |       |       |       |       |       | 1.009 | 1.009 | 1.007 |       |       |       |             | 1.008        | 1.116      |  |
|                        | 252/240                         |       |       |       |       |       |       | 1 006 | 1 005 | 1,005 | .003   | 000.1 | 1.006 | 1.013 | 1.010 | 1.012 | 1.009 | 1.006 |       |       |       |                        | 050/040              | 047/707            |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.013 | 1.009 | 1.007 |       |       |             | 1.010        | 1.127      |  |
|                        | 240/228                         |       |       |       |       |       |       |       | 1 007 | 1.00. | .00.   | 000.  | 1.002 | 1.010 | 1.010 | 1.013 | 1.011 | 1.006 | 1.009 |       |       |                        | 040,000              | 240/220            |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.012 | 1.007 | 1.009 |       |             | 1.009        | 1.138      |  |
|                        | 228/216                         |       |       |       |       |       |       |       |       | 1005  | .00.   | 900.  | 1.007 | 1.011 | 1.009 | 1.016 | 1.013 | 1.011 | 1.010 | 1.009 |       |                        | 2707000              | 27077              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.012 | 1.010 | 1.010 | )<br>-<br>- | 1.011        | 1.150      |  |
|                        | 216/204                         |       |       |       |       |       |       |       |       |       | 1 007  | 1.007 | 1.008 | 1.011 | 1.013 | 1.011 | 1.014 | 1.014 | 1.013 | 1.012 | 1.009 |                        | 046/004              | 210/204            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.014 | 1.013 | 1.009       | 1.012        | 1.164      |  |
| Unadjusted (a)         | Accident Year                   | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1980  | 1001   | 1661  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | (4) FOEMING (4)        | Agidost Voor         | Accident real      | 7061  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000        | Selected (c) | Cumulative |  |

Six-year averages of the 3961nc/396Pd factors are selected.

The ULT/396Inc 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 most recent evaluation, and extrapolated to 80 development years. © ©

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Selected Indemnity Development Factors - Paid to Age 240, Incurred from Age 240 to Ultimate

| Age-to-Age (in months) 120/108 132/120 144/132 156/144 168/156 180/168 192/180 204/102 216/204 228/216 240/228 240lnc/240Dd (c) | 1007 1007 1007 1007 1007 1007 1007 1007 | 1.002 | 1.003 1.002 1.003 1.003 | 1.003 1.004 1.003 1.003 | 1.005 1.003 1.005 1.005 1.003 | 1.006 1.004 1.004 1.005 1.004 1.003 | 1.007 1.006 1.006 1.005 1.004 1.003 1.003 | 1.012 1.009 1.009 1.007 1.006 1.006 1.006 1.004 | 1.004 1.003 | 1.013 1.010 1.009 1.008 1.007 1.005 1.004 | 1.014 1.012 1.011 1.008 1.007 1.005 | 1.015 1.014 1.008 1.008 1.006 | 1.021 1.015 1.012 1.009 | 1.020 1.015 1.011 | 1.015       | 1.018         |       | .023  |             |             |       |          |             |       |       |            | 1.025 1.019 1.015 1.012 1.009 1.007 1.005 1.004 1.005 1.003 1.003 1.003 1.023 | 1.147 1.119 1.098 1.081 1.068 1.059 1.052 1.046 1.042 1.037 1.034 |                         |
|---|---|-------|-------------------------|-------------------------|-------------------------------|-------------------------------------|---|---|-------------|---|-------------------------------------|-------------------------------|-------------------------|-------------------|-------------|---------------|-------|-------|-------------|-------------|-------|----------|-------------|-------|-------|------------|---|---|-------------------------|
| 84/72 96/84   |   |       |                         |                         |                               |                                     |   |   |             |   | 1.034                               | •                             | •                       | •                 | 1.060 1.047 | •             | •     | •     | •           | •           | 1.056 |          |             |       |       |            | 048(d) 1.038  | 1.287 1.228   |                         |
| 72/60   | 200                                     |       |                         |                         |                               |                                     |   |   |             |   |                                     | _                             | 1.072                   | 1.116 1.073 1     | 1.079       | 1.135 1.090 1 | 1.092 | 1.092 | 1.092       | 1.091       | 1.087 | 37 1.087 | 59          |       |       |            | 3.226(d) 1.594(d) 1.240(d) 1.120(d) 1.075(d) 1.048(d)                         | 1.383   |                         |
| 48/36 60/48   |   |       |                         |                         |                               |                                     |   |   |             |   |                                     |                               |                         | 1.1               | 1.235 1.121 | •             |       |       | 1.280 1.156 | 1.281 1.147 | •     | •        | 1.260 1.129 | 1.257 |       |            | 1.240(d) 1.12   | 1.922 1.550   |                         |
| 36/24   |   |       |                         |                         |                               |                                     |   |   |             |   |                                     |                               |                         |                   |             | 1.539         | _     | _     |             |             | _     | _        | •           |       | 1.618 |            | ) 1.594(d)  | 3.064   |                         |
| Accident Year 24/12   |   | 1992  | 1993                    | 1994                    | 1995                          | 1996                                | 1997                                      | 1998  | 1999        | 2000                                      | 2001                                | 2002                          | 2003                    | 2004              | 2005        | 2006          |       |       |             |             |       |          |             |       |       | 2016 3.236 | Selected (a) 3.226(d)   | Cumulative Unadjusted for Impact of SB 863 9.883                  | Cumulative Adjusted for |

(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 240, where an incurred-to-paid ratio is chosen, and subsequently, six-year average incurred loss development factors are selected until ultimate.

<sup>(</sup>b) The 48-to-ultimate factor for accident year 2014 and the 60-to-ultimate factor for accident year 2013 have been adjusted by 5.2% and 2.0% respectively, for the impacts of SB 863 on indemnity loss development.

<sup>(</sup>c) A three-year average of the 240Inc/240Pd factor is selected.
(d) 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 240, Incurred from Age 240 to Ultimate (Continued)

| 232/240 204/ | , 64/196 | 120/320 |         | 000/000 | 040/000 | 00//040 | 1010 1010 000101 | 300/010 | 01/0/036 | 030/020 | 070/100 | 100/300 | (a) adianc/T    |
|--------------|----------|---------|---------|---------|---------|---------|------------------|---------|----------|---------|---------|---------|-----------------|
|              |          | 7/0/704 | 788/2/0 | 300/288 | 312/300 | 324/312 | 330/324          | 348/330 | 300/348  | 3/2/300 | 384/3/2 | 390/384 | UL I/396Inc (e) |
|              |          |         |         |         |         |         |                  | 1.000   | 1.000    |         |         |         |                 |
|              |          |         |         |         |         |         | 1.002            | 0.999   | 1.001    |         |         |         |                 |
|              |          |         |         |         |         | 1.002   | 1.000            | 1.001   | 1.001    |         |         |         |                 |
|              |          |         |         |         | 1.000   | 1.000   | 1.001            | 1.001   | 1.001    | 1.001   | 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   | 1.000   | 1.001   | 1.001            | 1.001   | 1.001    | 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   |         |                 |
| 666          |          | 1.000   | 1.000   | 1.001   | 1.002   | 1.000   | 1.001            | 1.001   | 1.001    | 1.001   |         |         |                 |
| 8            |          | 1.001   | 1.002   | 1.001   | 1.000   | 1.000   | 1.000            | 1.000   | 1.000    |         |         |         |                 |
| 8            |          | 1.001   | 1.000   | 1.000   | 1.000   | 1.001   | 1.000            | 1.000   |          |         |         |         |                 |
| 0            |          | 1.000   | 1.000   | 1.000   | 1.000   | 1.000   | 1.000            |         |          |         |         |         |                 |
| 00           |          | 1.000   | 1.000   | 1.000   | 1.000   | 1.000   |                  |         |          |         |         |         |                 |
| 1.001        |          | 1.001   | 1.000   | 1.000   | 1.000   |         |                  |         |          |         |         |         |                 |
| 00           |          | 1.000   | 1.000   | 1.000   |         |         |                  |         |          |         |         |         |                 |
| 5            |          | 1.001   | 0.999   |         |         |         |                  |         |          |         |         |         |                 |
| 000          |          | 1.001   |         |         |         |         |                  |         |          |         |         |         |                 |
| 5            |          |         |         |         |         |         |                  |         |          |         |         |         |                 |
|              |          |         |         |         |         |         |                  |         |          |         |         |         |                 |
|              |          |         |         |         |         |         |                  |         |          |         |         |         |                 |
| 1.001        |          | 1.001   | 1.000   | 1.000   | 1.000   | 1.001   | 1.001            | 1.001   | 1.001    | 1.000   | 1.000   | 1.000   |                 |
| 200          |          | 1.006   | 1.006   | 1.006   | 1.006   | 1.005   | 1.005            | 1.004   | 1.004    | 1.003   | 1.003   | 1.003   | 1.003           |

The ULT/396Inc 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 most recent evaluation, and extrapolated to 80 development years. **(e)** 

### A. Total Reported Indemnity Claim Counts

| Accident    |           |           | Evaluate  | d as of (in m | 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> |
| 2008        |           |           |           |               |           |           | 122,533   |
| 2009        |           |           |           |               |           | 113,143   | 113,367   |
| 2010        |           |           |           |               | 116,528   | 116,923   | 117,185   |
| 2011        |           |           |           | 116,025       | 116,790   | 117,114   | 117,350   |
| 2012        |           |           | 120,697   | 122,224       | 122,998   | 123,437   |           |
| 2013        |           | 123,986   | 127,798   | 129,319       | 130,081   |           |           |
| 2014        | 103,741   | 128,697   | 132,815   | 134,392       |           |           |           |
| 2015        | 107,408   | 133,838   | 137,998   |               |           |           |           |
| 2016        | 108,417   | 136,362   |           |               |           |           |           |
| 2017        | 111,910   |           |           |               |           |           |           |

### B. Development of Total Reported Indemnity Claim Counts

| Accident          |         | A       | ge-to-Age D  | evelopment   | (in months): |                |             |
|-------------------|---------|---------|--------------|--------------|--------------|----------------|-------------|
| <u>Year</u>       | 12-24   | 24-36   | <u>36-48</u> | <u>48-60</u> | 60-72        | <u>72-84</u> 8 | 84-Ultimate |
| 2009              |         |         |              |              |              | 1.002          |             |
| 2010              |         |         |              |              | 1.003        | 1.002          |             |
| 2011              |         |         |              | 1.007        | 1.003        | 1.002          |             |
| 2012              |         |         | 1.013        | 1.006        | 1.004        |                |             |
| 2013              |         | 1.031   | 1.012        | 1.006        |              |                |             |
| 2014              | 1.241   | 1.032   | 1.012        |              |              |                |             |
| 2015              | 1.246   | 1.031   |              |              |              |                |             |
| 2016              | 1.258   |         |              |              |              |                |             |
| Latest Year       | 1.258   | 1.031   | 1.012        | 1.006        | 1.004        | 1.002          |             |
| Cumulative        | 1.332   | 1.059   | 1.027        | 1.015        | 1.009        | 1.005          | 1.003       |
|                   |         |         |              |              |              |                |             |
| Acc. Year         | 2017    | 2016    | 2015         | 2014         | 2013         | 2012           | 2011        |
| Ult. Claim Counts | 149,038 | 144,386 | 141,713      | 136,391      | 131,243      | 124,097        | 117,740     |

### C. Closed Indemnity Claim Counts

| Accident    |           |           | Evaluate  | d as of (in me | onths)    |           |         |
|-------------|-----------|-----------|-----------|----------------|-----------|-----------|---------|
| <u>Year</u> | <u>12</u> | <u>24</u> | <u>36</u> | <u>48</u>      | <u>60</u> | <u>72</u> | 84      |
| 2008        |           |           |           |                |           |           | 108,863 |
| 2009        |           |           |           |                |           | 95,725    | 100,417 |
| 2010        |           |           |           |                | 93,961    | 100,515   | 105,591 |
| 2011        |           |           |           | 85,607         | 95,456    | 102,030   | 106,705 |
| 2012        |           |           | 76,679    | 91,844         | 102,147   | 109,049   |         |
| 2013        |           | 60,211    | 82,728    | 99,339         | 110,238   |           |         |
| 2014        | 27,893    | 63,929    | 87,902    | 105,140        |           |           |         |
| 2015        | 29,471    | 68,496    | 94,640    |                |           |           |         |
| 2016        | 31,569    | 73,595    |           |                |           |           |         |
| 2017        | 34,848    |           |           |                |           |           |         |

### 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> | 84    |
| 2008        |           |           |           |              |           |           | 88.5% |
| 2009        |           |           |           |              |           | 84.1%     | 88.3% |
| 2010        |           |           |           |              | 79.9%     | 85.5%     | 89.8% |
| 2011        |           |           |           | 72.7%        | 81.1%     | 86.7%     | 90.6% |
| 2012        |           |           | 61.8%     | 74.0%        | 82.3%     | 87.9%     |       |
| 2013        |           | 45.9%     | 63.0%     | 75.7%        | 84.0%     |           |       |
| 2014        | 20.5%     | 46.9%     | 64.4%     | 77.1%        |           |           |       |
| 2015        | 20.8%     | 48.3%     | 66.8%     |              |           |           |       |
| 2016        | 21.9%     | 51.0%     |           |              |           |           |       |
| 2017        | 23.4%     |           |           |              |           |           |       |

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

| Accident |           |           | Evaluate  |           |           |           |         |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| Year     | <u>12</u> | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84      |
| 2008     |           |           |           |           |           |           | 111,507 |
| 2009     |           |           |           |           |           | 99,968    | 103,100 |
| 2010     |           |           |           |           | 98,758    | 103,318   | 106,555 |
| 2011     |           |           |           | 90,763    | 98,897    | 103,463   | 106,705 |
| 2012     |           |           | 82,875    | 95,663    | 104,236   | 109,049   |         |
| 2013     |           | 66,896    | 87,648    | 101,171   | 110,238   |           |         |
| 2014     | 31,891    | 69,520    | 91,086    | 105,140   |           |           |         |
| 2015     | 33,135    | 72,233    | 94,640    |           |           |           |         |
| 2016     | 33,760    | 73,595    |           |           |           |           |         |
| 2017     | 34,848    |           |           |           |           |           |         |

### 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> |  |
| 2008        |                             |           |           |           |           |           | 17,000    |  |
| 2009        |                             |           |           |           |           | 16,395    | 18,117    |  |
| 2010        |                             |           |           |           | 14,673    | 16,722    | 18,418    |  |
| 2011        |                             |           |           | 12,244    | 14,970    | 16,931    | 18,430    |  |
| 2012        |                             |           | 9,128     | 12,603    | 15,169    | 17,058    |           |  |
| 2013        |                             | 5,369     | 9,609     | 13,036    | 15,480    |           |           |  |
| 2014        | 2,175                       | 5,699     | 10,267    | 13,868    |           |           |           |  |
| 2015        | 2,368                       | 6,224     | 10,962    |           |           |           |           |  |
| 2016        | 2,501                       | 6,581     |           |           |           |           |           |  |
| 2017        | 2,596                       |           |           |           |           |           |           |  |

<sup>(</sup>a) Ratio of closed indemnity claim counts (Item C) to the estimated ultimate indemnity claim counts (Item B) for that accident year.

<sup>(</sup>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> | <u>84</u> |  |
| 2008        |                             |           |           |           |           |           | 17,974    |  |
| 2009        |                             |           |           |           |           | 17,946    | 19,070    |  |
| 2010        |                             |           |           |           | 16,147    | 17,639    | 18,769    |  |
| 2011        |                             |           |           | 13,603    | 15,967    | 17,378    | 18,430    |  |
| 2012        |                             |           | 10,414    | 13,499    | 15,718    | 17,058    |           |  |
| 2013        |                             | 6,382     | 10,517    | 13,418    | 15,480    |           |           |  |
| 2014        | 2,421                       | 6,537     | 10,853    | 13,868    |           |           |           |  |
| 2015        | 2,593                       | 6,749     | 10,962    |           |           |           |           |  |
| 2016        | 2,631                       | 6,581     |           |           |           |           |           |  |
| 2017        | 2,596                       |           |           |           |           |           |           |  |

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

| Accident    | Evaluated as of (in months) |           |           |           |           |           |           |
|-------------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| <u>Year</u> | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | <u>84</u> |
| 2008        |                             |           |           |           |           |           | 2,004,190 |
| 2009        |                             |           |           |           |           | 1,793,983 | 1,966,136 |
| 2010        |                             |           |           |           | 1,594,609 | 1,822,390 | 1,999,876 |
| 2011        |                             |           |           | 1,234,631 | 1,579,049 | 1,797,949 | 1,966,535 |
| 2012        |                             |           | 863,106   | 1,291,391 | 1,638,330 | 1,860,189 |           |
| 2013        |                             | 426,932   | 921,829   | 1,357,525 | 1,706,517 |           |           |
| 2014        | 77,194                      | 454,484   | 988,566   | 1,458,041 |           |           |           |
| 2015        | 85,909                      | 487,472   | 1,037,486 |           |           |           |           |
| 2016        | 88,807                      | 484,345   |           |           |           |           |           |
| 2017        | 90,449                      |           |           |           |           |           |           |

### 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> |  |  |  |
| 2008        |           |                             |           |           |           |           | 630,600   |  |  |  |
| 2009        |           |                             |           |           |           | 681,846   | 568,414   |  |  |  |
| 2010        |           |                             |           |           | 738,080   | 627,209   | 501,362   |  |  |  |
| 2011        |           |                             |           | 792,998   | 672,288   | 554,629   | 442,632   |  |  |  |
| 2012        |           |                             | 831,585   | 770,966   | 641,925   | 523,349   |           |  |  |  |
| 2013        |           | 697,467                     | 842,019   | 765,155   | 619,222   |           |           |  |  |  |
| 2014        | 275,453   | 723,179                     | 877,434   | 775,294   |           |           |           |  |  |  |
| 2015        | 291,509   | 758,490                     | 878,516   |           |           |           |           |  |  |  |
| 2016        | 302,555   | 747,709                     |           |           |           |           |           |  |  |  |
| 2017        | 309,493   |                             |           |           |           |           |           |  |  |  |

<sup>(</sup>c) Adjusted based on ultimate indemnity claim settlement ratios (Item D) and assuming a log-linear relationship

<sup>(</sup>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> | <u>84</u> |  |
| 2008        |                             |           |           |           |           |           | 46,143    |  |
| 2009        |                             |           |           |           |           | 39,143    | 43,890    |  |
| 2010        |                             |           |           |           | 32,714    | 38,230    | 43,240    |  |
| 2011        |                             |           |           | 26,072    | 31,512    | 36,765    | 41,581    |  |
| 2012        |                             |           | 18,895    | 25,379    | 30,784    | 36,374    |           |  |
| 2013        |                             | 10,944    | 18,690    | 25,519    | 31,206    |           |           |  |
| 2014        | 3,632                       | 11,166    | 19,536    | 26,504    |           |           |           |  |
| 2015        | 3,747                       | 11,608    | 20,262    |           |           |           |           |  |
| 2016        | 3,937                       | 11,912    |           |           |           |           |           |  |
| 2017        | 4,016                       |           |           |           |           |           |           |  |

### 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> | <u>84</u> |  |
| 2008        |                             |           |           |           |           |           | -122,002  |  |
| 2009        |                             |           |           |           |           | -166,084  | -117,802  |  |
| 2010        |                             |           |           |           | -156,929  | -107,159  | -41,640   |  |
| 2011        |                             |           |           | -134,425  | -108,431  | -52,721   |           |  |
| 2012        |                             |           | -117,071  | -96,924   | -64,278   |           |           |  |
| 2013        |                             | -73,151   | -91,937   | -46,751   |           |           |           |  |
| 2014        | -14,521                     | -62,427   | -62,184   |           |           |           |           |  |
| 2015        | -13,730                     | -43,369   |           |           |           |           |           |  |
| 2016        | -8,626                      |           |           |           |           |           |           |  |

### L. Adjusted Paid Indemnity on Open 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      |  |
| 2008        |                             |           |           |           |           |           | 508,598 |  |
| 2009        |                             |           |           |           |           | 515,762   | 450,612 |  |
| 2010        |                             |           |           |           | 581,152   | 520,050   | 459,722 |  |
| 2011        |                             |           |           | 658,573   | 563,857   | 501,908   | 442,632 |  |
| 2012        |                             |           | 714,515   | 674,042   | 577,647   | 523,349   |         |  |
| 2013        |                             | 624,316   | 750,081   | 718,403   | 619,222   |           |         |  |
| 2014        | 260,933                     | 660,752   | 815,250   | 775,294   |           |           |         |  |
| 2015        | 277,779                     | 715,121   | 878,516   |           |           |           |         |  |
| 2016        | 293,929                     | 747,709   |           |           |           |           |         |  |
| 2017        | 309,493                     |           |           |           |           |           |         |  |

- (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> | <u>84</u> |
| 2008        |                             |           |           |           |           |           | 2,512,788 |
| 2009        |                             |           |           |           |           | 2,309,745 | 2,416,748 |
| 2010        |                             |           |           |           | 2,175,760 | 2,342,439 | 2,459,598 |
| 2011        |                             |           |           | 1,893,204 | 2,142,906 | 2,299,857 | 2,409,166 |
| 2012        |                             |           | 1,577,620 | 1,965,433 | 2,215,977 | 2,383,539 |           |
| 2013        |                             | 1,051,248 | 1,671,910 | 2,075,929 | 2,325,738 |           |           |
| 2014        | 338,126                     | 1,115,236 | 1,803,816 | 2,233,335 |           |           |           |
| 2015        | 363,688                     | 1,202,593 | 1,916,002 |           |           |           |           |
| 2016        | 382,735                     | 1,232,054 |           |           |           |           |           |
| 2017        | 399,942                     |           |           |           |           |           |           |

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

| Accident       |              | Eva          | luated 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 |
| 2008           |              |              |                |              |       |       |
| 2009           |              |              |                |              |       | 1.046 |
| 2010           |              |              |                |              | 1.077 | 1.050 |
| 2011           |              |              |                | 1.132        | 1.073 | 1.048 |
| 2012           |              |              | 1.246          | 1.127        | 1.076 |       |
| 2013           |              | 1.590        | 1.242          | 1.120        |       |       |
| 2014           | 3.298        | 1.617        | 1.238          |              |       |       |
| 2015           | 3.307        | 1.593        |                |              |       |       |
| 2016           | 3.219        |              |                |              |       |       |
|                |              |              |                |              |       |       |
| Latest Year    | 3.219        | 1.593        | 1.238          | 1.120        | 1.076 | 1.048 |
| 3-Year Average | 3.275        | 1.600        | 1.242          | 1.127        | 1.075 | 1.048 |

### O. Paid Indemnity Loss Development Factors (i)

| Accident    | Evaluated as of (in months) |              |              |              |       |              |  |  |  |
|-------------|-----------------------------|--------------|--------------|--------------|-------|--------------|--|--|--|
| <u>Year</u> | 12-24                       | <u>24-36</u> | <u>36-48</u> | <u>48-60</u> | 60-72 | <u>72-84</u> |  |  |  |
| 2009        |                             |              |              |              |       | 1.061        |  |  |  |
| 2010        |                             |              |              |              | 1.090 | 1.060        |  |  |  |
| 2011        |                             |              |              | 1.141        | 1.086 | 1.056        |  |  |  |
| 2012        |                             |              | 1.259        | 1.136        | 1.088 |              |  |  |  |
| 2013        |                             | 1.604        | 1.259        | 1.129        |       |              |  |  |  |
| 2014        | 3.235                       | 1.637        | 1.255        |              |       |              |  |  |  |
| 2015        | 3.279                       | 1.617        |              |              |       |              |  |  |  |
| 2016        | 3 229                       |              |              |              |       |              |  |  |  |

<sup>(</sup>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).

<sup>(</sup>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> | 12-24  | <u>24-36</u>                | <u>36-48</u> | <u>48-60</u> | 60-72  | 72-84  |  |  |  |  |
| 2009        |        |                             |              |              |        | -1.34% |  |  |  |  |
| 2010        |        |                             |              |              | -1.26% | -0.93% |  |  |  |  |
| 2011        |        |                             |              | -0.82%       | -1.18% | -0.77% |  |  |  |  |
| 2012        |        |                             | -1.06%       | -0.78%       | -1.11% |        |  |  |  |  |
| 2013        |        | -0.83%                      | -1.34%       | -0.76%       |        |        |  |  |  |  |
| 2014        | 1.95%  | -1.18%                      | -1.33%       |              |        |        |  |  |  |  |
| 2015        | 0.83%  | -1.48%                      |              |              |        |        |  |  |  |  |
| 2016        | -0.32% |                             |              |              |        |        |  |  |  |  |

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

| Accident       |       | Eva   | luated as of | (in months)  |       |       |
|----------------|-------|-------|--------------|--------------|-------|-------|
| <u>Year</u>    | 12-24 | 24-36 | <u>36-48</u> | <u>48-60</u> | 60-72 | 72-84 |
| 2009           |       |       |              |              |       | 1.047 |
| 2010           |       |       |              |              | 1.077 | 1.050 |
| 2011           |       |       |              | 1.135        | 1.074 | 1.048 |
| 2012           |       |       | 1.249        | 1.128        | 1.075 |       |
| 2013           |       | 1.593 | 1.243        | 1.120        |       |       |
| 2014           | 3.292 | 1.616 | 1.240        |              |       |       |
| 2015           | 3.305 | 1.594 |              |              |       |       |
| 2016           | 3.226 |       |              |              |       |       |
| Latest Year    | 3.226 | 1.594 | 1.240        | 1.120        | 1.075 | 1.048 |
| 3-Year Average | 3.274 | 1.601 | 1.244        | 1.128        | 1.075 | 1.048 |

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

<sup>(</sup>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 240, Incurred from Age 240 to Ultimate

|                        | 240inc/240Pd (C) 1.055 1.055 1.055 1.056 1.1671 1.114 1.097 1.093   | 240lnc/240Pd (c)                              | 1.088 8 1.093  | 1.093                      |
|------------------------|---|---|--|----------------------------|
|                        | 240/228<br>1.006<br>1.010<br>1.010<br>1.011<br>1.006<br>1.009   | 240/228<br>1 012                              | 1.007  | 1.009                      |
|                        | 228/216<br>1.006<br>1.007<br>1.011<br>1.011<br>1.011<br>1.009   | 228/216                                       | 1,012  | 1.011                      |
|                        | 216204<br>1.007<br>1.007<br>1.013<br>1.014<br>1.013<br>1.019<br>1.009   | 216/204                                       | 410.1<br>1.000.1   | 1.012                      |
|                        | 204/192<br>1.007<br>1.001<br>1.001<br>1.001<br>1.001<br>1.001<br>1.001<br>1.001   | 204/192                                       | 1.016<br>1.011<br>1.012  | 1.013                      |
|                        | 192/190<br>1.013<br>1.014<br>1.015<br>1.015<br>1.013<br>1.013<br>1.011<br>1.011   | 192/180                                       | 4.013.<br>4.013.<br>2.010.   | 1.013                      |
|                        | 180168<br>1.017<br>1.018<br>1.019<br>1.019<br>1.017<br>1.017<br>1.017<br>1.017  | 180/168                                       | 1.018<br>1.014<br>1.014  | 1.015                      |
|                        | 168/156<br>1.020<br>1.019<br>1.019<br>1.020<br>1.016<br>1.016<br>1.016  | 168/156                                       | 1,018<br>1,016<br>1,016  | 1.017                      |
| nths)                  | 156/144<br>1.023<br>1.022<br>1.025<br>1.025<br>1.020<br>1.018<br>1.018<br>1.019   | nths)<br><u>156/144</u>                       | 1.020<br>1.019<br>1.020  | 1.020                      |
| Age-to-Age (in months) | 144/13 <u>2</u><br>1.026<br>1.025<br>1.023<br>1.023<br>1.026<br>1.026<br>1.027<br>1.020   | Age-to-Age (in months)<br>132/120 144/132 156 | 1.026<br>1.023<br>1.022  | 1.024                      |
| Age-to-                | 132/120<br>1.032<br>1.037<br>1.030<br>1.034<br>1.034<br>1.031<br>1.025<br>1.025   | Age-to-<br>132/120                            | 1.033<br>1.027<br>1.024  | 1.028                      |
|                        | 120/108<br>1.032<br>1.031<br>1.034<br>1.036<br>1.036<br>1.036<br>1.037<br>1.037   | 120/108                                       | 1.037<br>1.033<br>1.029  | 1.033                      |
|                        | 108/96<br>1.038<br>1.034<br>1.040<br>1.040<br>1.040<br>1.041<br>1.035   | 108/96  | 1.045<br>1.034<br>1.034  | 1.034                      |
|                        | 1.045<br>1.045<br>1.046<br>1.055<br>1.057<br>1.057<br>1.057<br>1.057  | 96/84   | 1.055<br>1.049<br>1.045  | 1.045                      |
|                        | 84/72<br>1.054<br>1.057<br>1.070<br>1.075<br>1.075<br>1.067<br>1.066  | 84/72   | 1,072  | 1.054(e)<br>1.561          |
|                        | 72/60<br>1.074<br>1.092<br>1.099<br>1.109<br>1.104<br>1.095<br>1.087  | 72/60   | 1.103<br>1.108<br>1.089  | 1.079(e)<br>1.686          |
|                        | 60/48<br>1.1123<br>1.1142<br>1.1148<br>1.1160<br>1.1165<br>1.1148<br>1.1143   | 60/48   | 1,154<br>1,148<br>1,132  | 1.124(e)<br>1.895          |
|                        | 48.36<br>1.209<br>1.230<br>1.251<br>1.251<br>1.265<br>1.268<br>1.268  | 48/36   | 1.258<br>1.243<br>1.227  | 1.215(e)<br>2.302          |
|                        | 36/24<br>1,399<br>1,413<br>1,447<br>1,468<br>1,464<br>1,462<br>1,463  | 36/24   | 1,476<br>1,465<br>1,439  | 1.428(e)<br>3.287          |
|                        | 24/12<br>2.446<br>2.438<br>2.580<br>2.561<br>2.492<br>2.561<br>2.492<br>2.518   | 24/12   | 2.544<br>2.533<br>2.480  | 2.481(e)<br>8.155          |
|                        | Accident Year<br>1991<br>1993<br>1993<br>1994<br>1995<br>1996<br>1996<br>2000<br>2000<br>2000<br>2006<br>2006<br>2007<br>2011<br>2011<br>2012<br>2012<br>2012<br>2013<br>2014<br>2012 | Adjusted (b) Accident Year                    | 1998<br>1998<br>1998<br>2000<br>2001<br>2003<br>2005<br>2005<br>2007<br>2008<br>2010<br>2011<br>2011<br>2012<br>2012<br>2013<br>2014<br>2014 | Selected (c)<br>Cumulative |

settlement rates.

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

These factors are adjusted for the following impacts: (i) reduction of historical outstanding medical losses paid prior to January 1, 2013 by the estimated 4.2% cost savings due to applicable SB 863 provisions; (ii) adjustment to historical outstanding medical losses paid prior to January 1, 2014 by an estimated 2.1% decrease in costs, and losses paid prior to January 1, 2015 by an estimated 1.7% decrease in costs due to RBRVS. <u>©</u> (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 240, where an incurred-to-paid ratio is chosen, and subsequently, six-year average incurred loss development factors are selected until ultimate.

A three-year average of the 240Inc/240Pd factor is selected.

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 <u>©</u> © ©

Selected Medical Development Factors - Paid to Age 240, Incurred from Age 240 to Ultimate (Continued)

|                        | 396/384 ULT/396Inc (d)                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |              | 1.024      |
|------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|------------|
|                        | 396/384                                       | 0.997 | 1.000 | 0.999 |       |       |       |       |       |       |       |       |       |       |       |       | 0.999        | 1.023      |
|                        | 384/372                                       |       | 0.997 | 0.999 | 1.001 |       |       |       |       |       |       |       |       |       |       |       | 1.000        | 1.023      |
|                        | 372/360                                       |       |       | 0.998 | 0.998 | 1.001 |       |       |       |       |       |       |       |       |       |       | 1.000        | 1.023      |
|                        | 360/348                                       |       |       |       | 1.002 | 0.997 | 0.999 |       |       |       |       |       |       |       |       |       | 1.001        | 1.024      |
| ths)                   | 348/336                                       |       |       |       |       | 1.001 | 0.998 | 0.999 |       |       |       |       |       |       |       |       | 1.000        | 1.024      |
| Age-to-Age (in months) | 336/324                                       |       |       |       |       |       | 1.002 | 0.999 | 1.000 |       |       |       |       |       |       |       | 1.003        | 1.027      |
| Age-to-A               | 324/312                                       |       |       |       |       |       |       | 0.999 | 1.000 | 0.999 |       |       |       |       |       |       | 1.002        | 1.029      |
|                        | 312/300                                       |       |       |       |       |       |       |       | 1.002 | 1.000 | 1.002 |       |       |       |       |       | 1.002        | 1.031      |
|                        | 300/288                                       |       |       |       |       |       |       |       |       | 1.001 | 0.999 | 1.000 |       |       |       |       | 1.000        | 1.031      |
|                        | 288/276                                       |       |       |       |       |       |       |       |       |       | 1.000 | 966.0 | 0.995 |       |       |       | 1.001        | 1.032      |
|                        | 276/264                                       |       |       |       |       |       |       |       |       |       |       | 1.000 | 966.0 | 0.992 |       |       | 1.000        | 1.031      |
|                        | 264/252                                       |       |       |       |       |       |       |       |       |       |       |       | 1.001 | 1.006 | 0.999 |       | 1.002        | 1.033      |
|                        | 252/240                                       |       |       |       |       |       |       |       |       |       |       |       |       | 0.999 | 0.998 | 0.997 | 1.002        | 1.035      |
|                        | Accident Year 252/240 264/252 276/264 288/276 | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | Selected (c) | Cumulative |

The ULT/396Inc 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 most recent evaluation, 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> | <u>84</u> |  |  |  |  |  |
| 2008        |           |                             |           |           |           |           | 122,533   |  |  |  |  |  |
| 2009        |           |                             |           |           |           | 113,143   | 113,367   |  |  |  |  |  |
| 2010        |           |                             |           |           | 116,528   | 116,923   | 117,185   |  |  |  |  |  |
| 2011        |           |                             |           | 116,025   | 116,790   | 117,114   | 117,350   |  |  |  |  |  |
| 2012        |           |                             | 120,697   | 122,224   | 122,998   | 123,437   |           |  |  |  |  |  |
| 2013        |           | 123,986                     | 127,798   | 129,319   | 130,081   |           |           |  |  |  |  |  |
| 2014        | 103,741   | 128,697                     | 132,815   | 134,392   |           |           |           |  |  |  |  |  |
| 2015        | 107,408   | 133,838                     | 137,998   |           |           |           |           |  |  |  |  |  |
| 2016        | 108,417   | 136,362                     |           |           |           |           |           |  |  |  |  |  |
| 2017        | 111,910   |                             |           |           |           |           |           |  |  |  |  |  |

### B. Development of Total Reported Indemnity Claim Counts

| Accident          | Age-to-Age Development (in months): |             |              |              |         |                |            |  |  |  |  |
|-------------------|-------------------------------------|-------------|--------------|--------------|---------|----------------|------------|--|--|--|--|
| <u>Year</u>       | 12-24                               | 24-36       | <u>36-48</u> | <u>48-60</u> | 60-72   | <u>72-84</u> 8 | 4-Ultimate |  |  |  |  |
| 2009              |                                     |             |              |              |         | 1.002          |            |  |  |  |  |
| 2010              |                                     |             |              |              | 1.003   | 1.002          |            |  |  |  |  |
| 2011              |                                     |             |              | 1.007        | 1.003   | 1.002          |            |  |  |  |  |
| 2012              |                                     |             | 1.013        | 1.006        | 1.004   |                |            |  |  |  |  |
| 2013              |                                     | 1.031       | 1.012        | 1.006        |         |                |            |  |  |  |  |
| 2014              | 1.241                               | 1.032       | 1.012        |              |         |                |            |  |  |  |  |
| 2015              | 1.246                               | 1.031       |              |              |         |                |            |  |  |  |  |
| 2016              | 1.258                               |             |              |              |         |                |            |  |  |  |  |
| Latest Year       | 1.258                               | 1.031       | 1.012        | 1.006        | 1.004   | 1.002          |            |  |  |  |  |
| Cumulative        | 1.332                               | 1.059       | 1.027        | 1.015        | 1.009   | 1.005          | 1.003      |  |  |  |  |
|                   |                                     |             |              |              |         |                |            |  |  |  |  |
| Acc. Year         | 2017                                | <u>2016</u> | <u>2015</u>  | <u>2014</u>  | 2013    | 2012           | 2011       |  |  |  |  |
| Ult. Claim Counts | 149,038                             | 144,386     | 141,713      | 136,391      | 131,243 | 124,097        | 117,740    |  |  |  |  |

### 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> | 84      |  |  |  |  |  |
| 2008        |           |                             |           |           |           |           | 108,863 |  |  |  |  |  |
| 2009        |           |                             |           |           |           | 95,725    | 100,417 |  |  |  |  |  |
| 2010        |           |                             |           |           | 93,961    | 100,515   | 105,591 |  |  |  |  |  |
| 2011        |           |                             |           | 85,607    | 95,456    | 102,030   | 106,705 |  |  |  |  |  |
| 2012        |           |                             | 76,679    | 91,844    | 102,147   | 109,049   |         |  |  |  |  |  |
| 2013        |           | 60,211                      | 82,728    | 99,339    | 110,238   |           |         |  |  |  |  |  |
| 2014        | 27,893    | 63,929                      | 87,902    | 105,140   |           |           |         |  |  |  |  |  |
| 2015        | 29,471    | 68,496                      | 94,640    |           |           |           |         |  |  |  |  |  |
| 2016        | 31,569    | 73,595                      |           |           |           |           |         |  |  |  |  |  |
| 2017        | 34,848    |                             |           |           |           |           |         |  |  |  |  |  |

### D. Ultimate Indemnity Claim Settlement Ratio (a)

| Accident    |           | Evaluated as of (in months) |           |           |           |           |           |  |  |  |  |  |
|-------------|-----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|--|
| <u>Year</u> | <u>12</u> | <u>24</u>                   | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | <u>84</u> |  |  |  |  |  |
| 2008        |           |                             |           |           |           |           | 88.5%     |  |  |  |  |  |
| 2009        |           |                             |           |           |           | 84.1%     | 88.3%     |  |  |  |  |  |
| 2010        |           |                             |           |           | 79.9%     | 85.5%     | 89.8%     |  |  |  |  |  |
| 2011        |           |                             |           | 72.7%     | 81.1%     | 86.7%     | 90.6%     |  |  |  |  |  |
| 2012        |           |                             | 61.8%     | 74.0%     | 82.3%     | 87.9%     |           |  |  |  |  |  |
| 2013        |           | 45.9%                       | 63.0%     | 75.7%     | 84.0%     |           |           |  |  |  |  |  |
| 2014        | 20.5%     | 46.9%                       | 64.4%     | 77.1%     |           |           |           |  |  |  |  |  |
| 2015        | 20.8%     | 48.3%                       | 66.8%     |           |           |           |           |  |  |  |  |  |
| 2016        | 21.9%     | 51.0%                       |           |           |           |           |           |  |  |  |  |  |
| 2017        | 23.4%     |                             |           |           |           |           |           |  |  |  |  |  |

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

| Accident    | cident 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      |  |  |
| 2008        |                                    |           |           |           |           |           | 111,507 |  |  |
| 2009        |                                    |           |           |           |           | 99,968    | 103,100 |  |  |
| 2010        |                                    |           |           |           | 98,758    | 103,318   | 106,555 |  |  |
| 2011        |                                    |           |           | 90,763    | 98,897    | 103,463   | 106,705 |  |  |
| 2012        |                                    |           | 82,875    | 95,663    | 104,236   | 109,049   |         |  |  |
| 2013        |                                    | 66,896    | 87,648    | 101,171   | 110,238   |           |         |  |  |
| 2014        | 31,891                             | 69,520    | 91,086    | 105,140   |           |           |         |  |  |
| 2015        | 33,135                             | 72,233    | 94,640    |           |           |           |         |  |  |
| 2016        | 33,760                             | 73,595    |           |           |           |           |         |  |  |
| 2017        | 34,848                             |           |           |           |           |           |         |  |  |

### 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> | 84     |  |  |  |  |
| 2008        |                             |           |           |           |           |           | 20,668 |  |  |  |  |
| 2009        |                             |           |           |           |           | 20,134    | 22,644 |  |  |  |  |
| 2010        |                             |           |           |           | 17,967    | 20,833    | 23,451 |  |  |  |  |
| 2011        |                             |           |           | 13,911    | 17,335    | 20,307    | 22,494 |  |  |  |  |
| 2012        |                             |           | 10,042    | 13,829    | 17,088    | 19,436    |        |  |  |  |  |
| 2013        |                             | 5,803     | 10,103    | 13,709    | 16,601    |           |        |  |  |  |  |
| 2014        | 2,409                       | 5,879     | 10,141    | 13,744    |           |           |        |  |  |  |  |
| 2015        | 2,541                       | 6,311     | 10,519    |           |           |           |        |  |  |  |  |
| 2016        | 2,747                       | 6,539     |           |           |           |           |        |  |  |  |  |
| 2017        | 2,884                       |           |           |           |           |           |        |  |  |  |  |

<sup>(</sup>a) Ratio of closed indemnity claim counts (Item C) to the estimated ultimate indemnity claim counts (Item B) for that accident year.

<sup>(</sup>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> |  |  |  |  |  |
| 2008        |           |                             |           |           |           |           | 22,169    |  |  |  |  |  |
| 2009        |           |                             |           |           |           | 22,392    | 24,101    |  |  |  |  |  |
| 2010        |           |                             |           |           | 20,023    | 22,240    | 23,983    |  |  |  |  |  |
| 2011        |           |                             |           | 15,610    | 18,832    | 20,954    | 22,494    |  |  |  |  |  |
| 2012        |           |                             | 11,445    | 14,957    | 17,767    | 19,436    |           |  |  |  |  |  |
| 2013        |           | 6,841                       | 11,059    | 14,158    | 16,601    |           |           |  |  |  |  |  |
| 2014        | 2,659     | 6,677                       | 10,727    | 13,744    |           |           |           |  |  |  |  |  |
| 2015        | 2,767     | 6,789                       | 10,519    |           |           |           |           |  |  |  |  |  |
| 2016        | 2,874     | 6,539                       |           |           |           |           |           |  |  |  |  |  |
| 2017        | 2.884     |                             |           |           |           |           |           |  |  |  |  |  |

### 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        |  |  |  |  |
| 2008        |                             |           |           |           |           |           | 2,471,985 |  |  |  |  |
| 2009        |                             |           |           |           |           | 2,238,453 | 2,484,836 |  |  |  |  |
| 2010        |                             |           |           |           | 1,977,386 | 2,297,838 | 2,555,514 |  |  |  |  |
| 2011        |                             |           |           | 1,416,789 | 1,862,438 | 2,168,008 | 2,400,249 |  |  |  |  |
| 2012        |                             |           | 948,489   | 1,430,842 | 1,851,946 | 2,119,477 |           |  |  |  |  |
| 2013        |                             | 457,650   | 969,325   | 1,432,356 | 1,830,050 |           |           |  |  |  |  |
| 2014        | 84,806                      | 464,151   | 977,094   | 1,445,053 |           |           |           |  |  |  |  |
| 2015        | 91,698                      | 490,404   | 995,522   |           |           |           |           |  |  |  |  |
| 2016        | 97,026                      | 481,203   |           |           |           |           |           |  |  |  |  |
| 2017        | 100,486                     |           |           |           |           |           |           |  |  |  |  |

### 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      |  |  |  |  |  |  |
| 2008        |           |                             |           |           |           |           | 968,949 |  |  |  |  |  |  |
| 2009        |           |                             |           |           |           | 1,021,287 | 885,520 |  |  |  |  |  |  |
| 2010        |           |                             |           |           | 1,061,886 | 936,895   | 767,788 |  |  |  |  |  |  |
| 2011        |           |                             |           | 1,038,317 | 928,263   | 778,971   | 628,635 |  |  |  |  |  |  |
| 2012        |           |                             | 984,805   | 955,161   | 818,260   | 681,102   |         |  |  |  |  |  |  |
| 2013        |           | 812,603                     | 944,537   | 877,378   | 719,413   |           |         |  |  |  |  |  |  |
| 2014        | 340,241   | 801,954                     | 920,237   | 814,403   |           |           |         |  |  |  |  |  |  |
| 2015        | 354,270   | 811,872                     | 882,377   |           |           |           |         |  |  |  |  |  |  |
| 2016        | 371,462   | 810,417                     |           |           |           |           |         |  |  |  |  |  |  |
| 2017        | 393,822   |                             |           |           |           |           |         |  |  |  |  |  |  |

<sup>(</sup>c) Adjusted based on ultimate indemnity claim settlement ratios (Item D) and assuming a log-linear relationship between maturities.

<sup>(</sup>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     |  |
| 2008        |                             |           |           |           |           |           | 70,901 |  |
| 2009        |                             |           |           |           |           | 58,630    | 68,376 |  |
| 2010        |                             |           |           |           | 47,066    | 57,106    | 66,217 |  |
| 2011        |                             |           |           | 34,137    | 43,510    | 51,636    | 59,054 |  |
| 2012        |                             |           | 22,376    | 31,443    | 39,241    | 47,338    |        |  |
| 2013        |                             | 12,751    | 20,966    | 29,262    | 36,255    |           |        |  |
| 2014        | 4,486                       | 12,382    | 20,489    | 27,841    |           |           |        |  |
| 2015        | 4,554                       | 12,425    | 20,351    |           |           |           |        |  |
| 2016        | 4,834                       | 12,912    |           |           |           |           |        |  |
| 2017        | 5.110                       |           |           |           |           |           |        |  |

### 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> | 84       |  |
| 2008        |           |                             |           |           |           |           | -187,462 |  |
| 2009        |           |                             |           |           |           | -248,765  | -183,521 |  |
| 2010        |           |                             |           |           | -225,775  | -160,069  | -63,767  |  |
| 2011        |           |                             |           | -176,010  | -149,716  | -74,046   |          |  |
| 2012        |           |                             | -138,641  | -120,081  | -81,935   |           |          |  |
| 2013        |           | -85,226                     | -103,131  | -53,608   |           |           |          |  |
| 2014        | -17,936   | -69,227                     | -65,218   |           |           |           |          |  |
| 2015        | -16,686   | -46,421                     |           |           |           |           |          |  |
| 2016        | -10,591   |                             |           |           |           |           |          |  |

### 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> | <u>84</u> |
| 2008        |                             |           |           |           |           |           | 781,487   |
| 2009        |                             |           |           |           |           | 772,522   | 701,999   |
| 2010        |                             |           |           |           | 836,111   | 776,825   | 704,020   |
| 2011        |                             |           |           | 862,307   | 778,546   | 704,925   | 628,635   |
| 2012        |                             |           | 846,164   | 835,080   | 736,325   | 681,102   |           |
| 2013        |                             | 727,377   | 841,406   | 823,770   | 719,413   |           |           |
| 2014        | 322,305                     | 732,727   | 855,020   | 814,403   |           |           |           |
| 2015        | 337,584                     | 765,450   | 882,377   |           |           |           |           |
| 2016        | 360,871                     | 810,417   |           |           |           |           |           |
| 2017        | 393,822                     |           |           |           |           |           |           |

- (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      |  |
| 2008        |           |                             |           |           |           |           | 251,024 |  |
| 2009        |           |                             |           |           |           | 225,372   | 227,782 |  |
| 2010        |           |                             |           |           | 221,217   | 223,544   | 226,615 |  |
| 2011        |           |                             |           | 206,581   | 210,178   | 213,680   | 217,086 |  |
| 2012        |           |                             | 206,967   | 212,252   | 217,572   | 221,664   |         |  |
| 2013        |           | 199,201                     | 209,356   | 217,010   | 222,801   |           |         |  |
| 2014        | 147,505   | 220,239                     | 231,701   | 238,678   |           |           |         |  |
| 2015        | 154,001   | 232,920                     | 242,829   |           |           |           |         |  |
| 2016        | 165,346   | 247,615                     |           |           |           |           |         |  |
| 2017        | 182,864   |                             |           |           |           |           |         |  |

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

| Accident    |           |           | Evalua    | ted as of (ir | n months) |           |           |
|-------------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|
| <u>Year</u> | <u>12</u> | <u>24</u> | <u>36</u> | <u>48</u>     | <u>60</u> | <u>72</u> | 84        |
| 2008        |           |           |           |               |           |           | 3,504,496 |
| 2009        |           |           |           |               |           | 3,236,347 | 3,414,617 |
| 2010        |           |           |           |               | 3,074,753 | 3,343,083 | 3,532,872 |
| 2011        |           |           |           | 2,703,697     | 3,092,151 | 3,340,740 | 3,510,116 |
| 2012        |           |           | 2,001,620 | 2,478,174     | 2,805,843 | 3,022,243 |           |
| 2013        |           | 1,384,227 | 2,020,087 | 2,473,136     | 2,772,264 |           |           |
| 2014        | 554,616   | 1,417,118 | 2,063,815 | 2,498,135     |           |           |           |
| 2015        | 583,283   | 1,488,774 | 2,120,727 |               |           |           |           |
| 2016        | 623,242   | 1,539,235 |           |               |           |           |           |
| 2017        | 677,171   |           |           |               |           |           |           |

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

| Accident    |              | Eva          | luated as o  | 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> | 72-84 |
| 2009        |              |              |              |              |              | 1.055 |
| 2010        |              |              |              |              | 1.087        | 1.057 |
| 2011        |              |              |              | 1.144        | 1.080        | 1.051 |
| 2012        |              |              | 1.238        | 1.132        | 1.077        |       |
| 2013        |              | 1.459        | 1.224        | 1.121        |              |       |
| 2014        | 2.555        | 1.456        | 1.210        |              |              |       |
| 2015        | 2.552        | 1.424        |              |              |              |       |
| 2016        | 2.470        |              |              |              |              |       |
| Latest Year | 2.470        | 1.424        | 1.210        | 1.121        | 1.077        | 1.051 |

<sup>(</sup>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    | 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 |  |  |  |
| 2009        |                             |              |              |              |              | 1.067 |  |  |  |
| 2010        |                             |              |              |              | 1.096        | 1.066 |  |  |  |
| 2011        |                             |              |              | 1.143        | 1.094        | 1.058 |  |  |  |
| 2012        |                             |              | 1.242        | 1.141        | 1.087        |       |  |  |  |
| 2013        |                             | 1.462        | 1.234        | 1.129        |              |       |  |  |  |
| 2014        | 2.519                       | 1.462        | 1.223        |              |              |       |  |  |  |
| 2015        | 2.533                       | 1.436        |              |              |              |       |  |  |  |
| 2016        | 2.469                       |              |              |              |              |       |  |  |  |

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

| Accident    |       | Evaluated as of (in months) |              |              |        |        |  |  |  |  |
|-------------|-------|-----------------------------|--------------|--------------|--------|--------|--|--|--|--|
| <u>Year</u> | 12-24 | <u>24-36</u>                | <u>36-48</u> | <u>48-60</u> | 60-72  | 72-84  |  |  |  |  |
| 2009        |       |                             |              |              |        | -1.13% |  |  |  |  |
| 2010        |       |                             |              |              | -0.77% | -0.87% |  |  |  |  |
| 2011        |       |                             |              | 0.03%        | -1.22% | -0.66% |  |  |  |  |
| 2012        |       |                             | -0.35%       | -0.77%       | -0.88% |        |  |  |  |  |
| 2013        |       | -0.16%                      | -0.83%       | -0.68%       |        |        |  |  |  |  |
| 2014        | 1.42% | -0.36%                      | -0.99%       |              |        |        |  |  |  |  |
| 2015        | 0.77% | -0.79%                      |              |              |        |        |  |  |  |  |
| 2016        | 0.04% |                             |              |              |        |        |  |  |  |  |

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

| Accident       |              | Eva   | luated as o | f (in months | s)    |       |
|----------------|--------------|-------|-------------|--------------|-------|-------|
| <u>Year</u>    | <u>12-24</u> | 24-36 | 36-48       | <u>48-60</u> | 60-72 | 72-84 |
| 2009           |              |       |             |              |       | 1.060 |
| 2010           |              |       |             |              | 1.095 | 1.061 |
| 2011           |              |       |             | 1.154        | 1.087 | 1.054 |
| 2012           |              |       | 1.254       | 1.139        | 1.079 |       |
| 2013           |              | 1.474 | 1.233       | 1.124        |       |       |
| 2014           | 2.580        | 1.460 | 1.215       |              |       |       |
| 2015           | 2.552        | 1.428 |             |              |       |       |
| 2016           | 2.481        |       |             |              |       |       |
|                |              |       |             |              |       |       |
| Latest Year    | 2.481        | 1.428 | 1.215       | 1.124        | 1.079 | 1.054 |
| 3-Year Average | 2.538        | 1.454 | 1.234       | 1.139        | 1.087 | 1.058 |

- (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, 2017

| Accident Year         Ratio(a)         Annual(b)         SB 863(b)         SB 863(b)         Ratio (5) = (1) x (4)           1985         0.446         1.001         1.003         1.003         0.448           1986         0.396         1.000         1.003         1.003         0.397           1987         0.346         1.000         1.003         1.003         0.347   |               |               | De        | tors       |           |                        |
|---|---------------|---------------|-----------|------------|-----------|------------------------|
| Paid or Incurred Loss         Unadjusted for Impact of For Impact of SB 863(b)         Adjusted For Impact of SB 863(b)         Projected Ultimate Loss SB 863(b)           Accident Year         Ratio(a)         Annual(b)         SB 863(b)         SB 863(b)         Ratio (5) = (1) x (4)           1985         0.446         1.001         1.003         1.003         0.448           1986         0.396         1.000         1.003         1.003         0.397           1987         0.346         1.000         1.003         1.003         0.347 |               | •             |           | Cum        | ulative   | •                      |
| Accident Year         Ratio(a)         Annual(b)         SB 863(b)         For Impact of SB 863(b)         Ultimate Loss Ratio           1985         0.446         1.001         1.003         1.003         0.448           1986         0.396         1.000         1.003         1.003         0.397           1987         0.346         1.000         1.003         1.003         0.347   |               | (1)           | (2)       | (3)        | (4)       | (5)                    |
| Accident Year         Ratio(a)         Annual(b)         SB 863(b)         SB 863(b)         Ultimate Loss           1985         0.446         1.001         1.003         1.003         0.448           1986         0.396         1.000         1.003         1.003         0.397           1987         0.346         1.000         1.003         1.003         0.347   |               | Paid or       |           | Unadjusted | Adjusted  | Projected              |
| (5) = (1) x (4)<br>1985   |               | Incurred Loss |           | •          | •         | Ultimate Loss          |
| 1985       0.446       1.001       1.003       1.003       0.448         1986       0.396       1.000       1.003       1.003       0.397         1987       0.346       1.000       1.003       1.003       0.347  | Accident Year | Ratio(a)      | Annual(b) | SB 863(b)  | SB 863(b) | <u>Ratio</u>           |
| 1986       0.396       1.000       1.003       1.003       0.397         1987       0.346       1.000       1.003       1.003       0.347   |               |               |           |            |           | $(5) = (1) \times (4)$ |
| 1987 0.346 1.000 1.003 1.003 0.347  | 1985          | 0.446         | 1.001     | 1.003      | 1.003     | 0.448                  |
|   | 1986          | 0.396         | 1.000     | 1.003      | 1.003     | 0.397                  |
| 1988 0.330 1.000 1.003 1.003 0.331  | 1987          | 0.346         | 1.000     | 1.003      | 1.003     | 0.347                  |
| 1100 11000  | 1988          | 0.330         | 1.000     | 1.003      | 1.003     | 0.331                  |
| 1989 0.343 1.001 1.004 1.004 0.344  | 1989          | 0.343         | 1.001     | 1.004      | 1.004     | 0.344                  |
| 1990 0.397 1.001 1.004 1.004 0.399  | 1990          | 0.397         | 1.001     | 1.004      | 1.004     | 0.399                  |
| 1991 0.424 1.001 1.005 1.005 0.426  | 1991          | 0.424         | 1.001     | 1.005      | 1.005     | 0.426                  |
| 1992 0.349 1.001 1.005 1.005 0.351  | 1992          | 0.349         | 1.001     | 1.005      | 1.005     | 0.351                  |
| 1993 0.287 1.000 1.006 1.006 0.289  | 1993          | 0.287         | 1.000     | 1.006      | 1.006     | 0.289                  |
| 1994 0.327 1.000 1.006 1.006 0.329  | 1994          | 0.327         | 1.000     | 1.006      | 1.006     | 0.329                  |
| 1995 0.473 1.000 1.006 1.006 0.476  | 1995          | 0.473         | 1.000     | 1.006      | 1.006     | 0.476                  |
| 1996 0.529 1.001 1.006 1.006 0.533  | 1996          | 0.529         | 1.001     | 1.006      | 1.006     | 0.533                  |
| 1997 0.599 1.001 1.007 1.007 0.603  | 1997          | 0.599         | 1.001     | 1.007      | 1.007     | 0.603                  |
| 1998 0.651 1.000 1.007 1.007 0.655  | 1998          | 0.651         | 1.000     | 1.007      | 1.007     | 0.655                  |
| 1999 0.667 1.003 1.034 1.034 0.690  | 1999          | 0.667         | 1.003     | 1.034      | 1.034     | 0.690                  |
| 2000 0.574 1.003 1.037 1.037 0.596  | 2000          | 0.574         | 1.003     | 1.037      | 1.037     | 0.596                  |
| 2001 0.474 1.005 1.042 1.042 0.494  | 2001          | 0.474         | 1.005     | 1.042      | 1.042     | 0.494                  |
| 2002 0.352 1.004 1.046 1.046 0.368  | 2002          | 0.352         | 1.004     | 1.046      | 1.046     | 0.368                  |
| 2003 0.230 1.005 1.052 1.052 0.242  | 2003          | 0.230         | 1.005     | 1.052      | 1.052     | 0.242                  |
| 2004 0.137 1.007 1.059 1.059 0.145  | 2004          | 0.137         | 1.007     | 1.059      | 1.059     | 0.145                  |
| 2005 0.116 1.009 1.068 1.068 0.124  | 2005          | 0.116         | 1.009     | 1.068      | 1.068     | 0.124                  |
| 2006 0.148 1.012 1.081 1.081 0.160  | 2006          | 0.148         | 1.012     | 1.081      | 1.081     | 0.160                  |
| 2007 0.201 1.015 1.098 1.098 0.221  | 2007          | 0.201         | 1.015     | 1.098      | 1.098     | 0.221                  |
| 2008 0.252 1.019 1.119 1.119 0.282  | 2008          | 0.252         | 1.019     | 1.119      | 1.119     | 0.282                  |
| 2009 0.288 1.025 1.147 1.147 0.330  | 2009          | 0.288         | 1.025     | 1.147      | 1.147     | 0.330                  |
| 2010 0.272 1.031 1.183 1.183 0.322  | 2010          | 0.272         | 1.031     | 1.183      | 1.183     | 0.322                  |
| 2011 0.244 1.038 1.228 1.228 0.300  | 2011          | 0.244         | 1.038     | 1.228      | 1.228     | 0.300                  |
| 2012 0.210 1.048 1.287 1.287 0.270  | 2012          | 0.210         | 1.048     | 1.287      | 1.287     | 0.270                  |
| 2013 0.170 1.075 1.383 1.411 0.240  | 2013          | 0.170         | 1.075     | 1.383      | 1.411     | 0.240                  |
| 2014 0.144 1.120 1.550 1.630 0.235  | 2014          | 0.144         | 1.120     | 1.550      | 1.630     | 0.235                  |
| 2015 0.115 1.240 1.922 2.021 0.233  | 2015          | 0.115         | 1.240     | 1.922      | 2.021     | 0.233                  |
| 2016 0.071 1.594 3.064 3.222 0.228  | 2016          |               | 1.594     | 3.064      | 3.222     | 0.228                  |
| 2017 0.023 3.226 9.883 10.393 0.242   | 2017          | 0.023         | 3.226     | 9.883      | 10.393    | 0.242                  |

<sup>(</sup>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.

<sup>(</sup>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 with Adjustment for SB 863 Based on Experience as of December 31, 2017

|          | (1)              | (2)              | (3)       | (4)<br>Adjusted for SB 86 | (5)           | (6)               |
|----------|------------------|------------------|-----------|---------------------------|---------------|-------------------|
|          | Unadjusted       | Adjusted         |           | Aujusteu for 3B 00        | Adjusted      | Projected         |
| Accident | Paid or Incurred | Paid or Incurred | Developr  | ment Factors              | Developed     | Ultimate          |
| Year     | Loss Ratio(a)    | Loss Ratio(b)    | Annual(c) | Cumulative                | Loss Ratio(d) | Loss Ratio        |
|          |                  |                  |           |                           | (2) x (4)     | (1) + ((5) - (2)) |
| 1985     | 0.350            | 0.350            | 1.000     | 1.024                     | 0.359         | 0.359             |
| 1986     | 0.333            | 0.333            | 0.999     | 1.023                     | 0.340         | 0.340             |
| 1987     | 0.314            | 0.314            | 1.000     | 1.023                     | 0.321         | 0.321             |
| 1988     | 0.304            | 0.304            | 1.000     | 1.023                     | 0.311         | 0.311             |
| 1989     | 0.325            | 0.325            | 1.001     | 1.024                     | 0.333         | 0.333             |
| 1990     | 0.367            | 0.367            | 1.000     | 1.024                     | 0.376         | 0.376             |
| 1991     | 0.384            | 0.384            | 1.003     | 1.027                     | 0.394         | 0.394             |
| 1992     | 0.320            | 0.320            | 1.002     | 1.029                     | 0.329         | 0.329             |
| 1993     | 0.267            | 0.267            | 1.002     | 1.031                     | 0.275         | 0.275             |
| 1994     | 0.308            | 0.308            | 1.000     | 1.031                     | 0.317         | 0.317             |
| 1995     | 0.454            | 0.454            | 1.001     | 1.032                     | 0.468         | 0.468             |
| 1996     | 0.486            | 0.486            | 1.000     | 1.031                     | 0.502         | 0.502             |
| 1997     | 0.545            | 0.545            | 1.002     | 1.033                     | 0.563         | 0.563             |
| 1998     | 0.657            | 0.657            | 1.002     | 1.035                     | 0.680         | 0.680             |
| 1999     | 0.656            | 0.608            | 1.009     | 1.141                     | 0.693         | 0.742             |
| 2000     | 0.592            | 0.549            | 1.011     | 1.153                     | 0.633         | 0.677             |
| 2001     | 0.520            | 0.482            | 1.012     | 1.167                     | 0.563         | 0.601             |
| 2002     | 0.400            | 0.371            | 1.013     | 1.183                     | 0.439         | 0.468             |
| 2003     | 0.254            | 0.235            | 1.013     | 1.198                     | 0.282         | 0.300             |
| 2004     | 0.171            | 0.159            | 1.015     | 1.216                     | 0.193         | 0.205             |
| 2005     | 0.166            | 0.154            | 1.017     | 1.237                     | 0.191         | 0.202             |
| 2006     | 0.211            | 0.197            | 1.020     | 1.261                     | 0.248         | 0.263             |
| 2007     | 0.292            | 0.273            | 1.024     | 1.291                     | 0.352         | 0.371             |
| 2008     | 0.359            | 0.337            | 1.028     | 1.327                     | 0.447         | 0.470             |
| 2009     | 0.410            | 0.386            | 1.033     | 1.371                     | 0.530         | 0.553             |
| 2010     | 0.394            | 0.373            | 1.034     | 1.418                     | 0.529         | 0.549             |
| 2011     | 0.325            | 0.312            | 1.045     | 1.481                     | 0.462         | 0.475             |
| 2012     | 0.266            | 0.259            | 1.054     | 1.561                     | 0.404         | 0.412             |
| 2013     | 0.203            | 0.200            | 1.079     | 1.686                     | 0.338         | 0.340             |
| 2014     | 0.162            | 0.161            | 1.124     | 1.895                     | 0.305         | 0.306             |
| 2015     | 0.128            | 0.128            | 1.215     | 2.302                     | 0.295         | 0.295             |
| 2016     | 0.088            | 0.088            | 1.428     | 3.287                     | 0.290         | 0.290             |
| 2017     | 0.039            | 0.039            | 2.481     | 8.155                     | 0.320         | 0.320             |

- (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, 2017. Reflects an adjustment for SB 863 of -4.2% applied to payments made before January 1, 2013, and adjustments for RBRVS of -2.1% applied to payments made before January 1, 2014, and -1.7% applied to payments made before January 1, 2015. No adjustments are applied to the incurred loss ratios.
- (c) Based on Exhibits 2.6.1 and 2.6.2. Reflects an adjustment for SB 863 of -4.2% applied to payments made before January 1, 2013, and adjustments for RBRVS of -2.1% applied to payments made before January 1, 2014, and -1.7% applied to payments made before January 1, 2015. No adjustments are applied to the incurred loss ratios.
- (d) The developed medical loss ratios shown were derived based on an adjustment to reflect an adjustment for SB 863 and RBRVS. 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<br><u>Year</u> | (1) Annual Bene Change Prior Frequency Adjustments ( | to<br>Frequency | (3) Annual Impact on Indemnity Ben Due to Wage Inflation (b) | efits Cost      | (5a)<br>Composite<br>Indemnity<br>Adjustment<br><u>Factor (d)</u> |
|-------------------------|--|-----------------|--|-----------------|---|
| 1985                    | 0.0  | 0.0             | 2.0  | 2.0             | 1.522   |
| 1986                    | 0.0  | 0.0             | 1.6  | 1.6             | 1.498   |
| 1987                    | 0.0  | 0.0             | 1.9  | 1.9             | 1.470   |
| 1988                    | 0.0  | 0.0             | 1.5  | 1.5             | 1.449   |
| 1989                    | 0.0  | 0.0             | 1.5  | 1.5             | 1.427   |
| 1990                    | 2.3  | 19.9            | 1.7  | 24.7            | 1.144   |
| 1991                    | 4.9  | 14.8            | 0.8  | 21.4            | 0.943   |
| 1992                    | 1.8  | -8.3            | 1.6  | -5.2            | 0.994   |
| 1993                    | 0.2  | -18.1           | 0.4  | -17.6           | 1.206   |
| 1994                    | -5.1   | 0.2             | 0.6  | -4.3            | 1.261   |
| 1995                    | 6.3  | 0.6             | 1.0  | 8.0             | 1.167   |
| 1996                    | 5.3  | 0.4             | 1.2  | 7.0             | 1.091   |
| 1997                    | 9.7  | 0.2             | 1.6  | 11.7            | 0.977   |
| 1998                    | 6.5  | 0.0             | 1.8  | 8.4             | 0.901   |
| 1999                    | 5.7  | 0.0             | 2.1  | 7.9             | 0.835   |
| 2000                    | 3.9  | 0.0             | 3.1  | 7.1             | 0.780   |
| 2001                    | -0.3   | 0.0             | 0.2  | -0.1            | 0.780   |
| 2002                    | -0.7   | 0.0             | 0.2  | -0.5            | 0.801 (e)   |
| 2003                    | 7.3  | 0.0             | 1.1  | 8.5             | 0.800 (e)   |
| 2004                    | -6.0   | -13.7           | 1.6  | -17.6           | 1.103 (e)   |
| 2005                    | -31.6  | -15.3           | 1.1  | -41.5           | 1.497   |
| 2006                    | 5.6  | -5.7            | 1.6  | 1.2             | 1.480   |
| 2007                    | 1.6  | 0.0             | 1.6  | 3.2             | 1.434   |
| 2008                    | 4.8  | 0.6             | 0.7  | 6.2             | 1.351   |
| 2009                    | 0.4  | 1.4             | 0.2  | 2.0             | 1.324   |
| 2010                    | 0.4  | 0.0             | 1.0  | 1.4             | 1.306   |
| 2011                    | 0.0  | 0.0             | 1.6  | 1.6             | 1.285   |
| 2012                    | 0.3  | 0.0             | 2.1  | 2.4             | 1.255   |
| 2013                    | 2.2  | 0.2             | 0.4  | 2.8             | 1.220   |
| 2014                    | 7.0  | 1.5             | 1.7  | 10.4            | 1.105   |
| 2015                    | 0.3  | 0.0             | 2.3  | 2.6             | 1.077   |
| 2016                    | 0.3  | 0.0             | 1.0  | 1.3             | 1.064   |
| 2017                    | 0.5  | 0.0             | 1.2  | 1.7             | 1.046   |
| 2018                    | 0.4  | 0.0             | 2.0  | 2.4             |   |
| 4/1/2019                | 0.3 (  | Annual 0.4) 0.0 | 1.8 (A   | Annual 2.4) 2.1 |   |

- (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, including SB 863 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 of injured workers and the legislatively scheduled benefits for that year.
- (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 4/1/2019 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            |
|             | Medical          | Medical Not      | Fee Schedule     | C             | Change  | in (          | CPI Chang  | е        | Non-Legislative   |
| Accident    | Subject to       | Subject to       | Change on        |               | Medica  |               | on Total   |          | Cost Impact on    |
| <u>Year</u> | Fee Schedule (a) | Fee Schedule (a) | Total Medical (I | <u>o)</u>     | CPI (c) |               | Medical (d | )        | Total Medical (e) |
| 1985        | 0.665            | 0.335            | 2.3%             |               | 6.5%    |               | 2.2%       |          | 4.5%              |
| 1986        | 0.604            | 0.396            | 0.0%             |               | 9.1%    |               | 3.0%       |          | 3.0%              |
| 1987        | 0.610            | 0.390            | 0.9%             |               | 7.4%    |               | 2.9%       |          | 3.8%              |
| 1988        | 0.649            | 0.351            | 0.8%             |               | 7.7%    |               | 3.0%       |          | 3.8%              |
| 1989        | 0.647            | 0.353            | 0.0%             |               | 8.6%    |               | 3.0%       |          | 3.0%              |
| 1990        | 0.661            | 0.339            | 0.0%             |               | 10.4%   |               | 3.7%       |          | 3.7%              |
| 1991        | 0.631            | 0.369            | 0.0%             |               | 10.6%   |               | 3.6%       |          | 3.6%              |
| 1992        | 0.628            | 0.372            | 0.0%             |               | 8.1%    |               | 3.0%       |          | 3.0%              |
| 1993        | 0.565            | 0.435            | 0.0%             |               | 7.3%    |               | 2.7%       |          | 2.7%              |
| 1994        | 0.691            | 0.309            | -3.6%            |               | 4.3%    |               | 1.3%       | (i)      | -2.3%             |
| 1995        | 0.681            | 0.319            | 0.0%             |               | 3.0%    |               | 0.9%       |          | 0.9%              |
| 1996        | 0.663            | 0.337            | 0.0%             |               | 3.0%    |               | 1.0%       |          | 1.0%              |
| 1997        | 0.643            | 0.357            | 0.0%             |               | 2.2%    |               | 0.7%       |          | 0.7%              |
| 1998        | 0.658            | 0.342            | 0.0%             |               | 2.2%    |               | 0.8%       |          | 0.8%              |
| 1999        | 0.728            | 0.272            | 1.6%             |               | 3.3%    |               | 0.9%       | (ii)     | 2.5%              |
| 2000        | 0.715            | 0.285            | 0.5%             |               | 4.3%    |               | 1.2%       |          | 1.7%              |
| 2001        | 0.722            | 0.278            | 1.5%             |               | 4.8%    |               | 1.4%       |          | 2.9%              |
| 2002        | 0.635            | 0.365            | 0.6%             |               | 5.1%    |               | 1.4%       |          | 2.0%              |
| 2003        | 0.786            | 0.214            | 0.0%             |               | 4.8%    |               | 1.4%       | (iii)    | 1.4%              |
| 2004        | 0.952            | 0.048            | 0.0%             |               | 5.0%    |               | 0.0%       | (iv),(v) | 0.0%              |
| 2005        | 0.936            | 0.064            | 0.0%             |               | 4.8%    |               | 0.0%       | (v)      | 0.0%              |
| 2006        | 0.926            | 0.074            | 0.0%             |               | 4.1%    |               | 0.3%       |          | 0.3%              |
| 2007        | 0.923            | 0.077            | 1.4%             |               | 5.3%    |               | 0.4%       |          | 1.8%              |
| 2008        | 0.896            | 0.104            | -0.1%            |               | 4.2%    |               | 0.3%       |          | 0.2%              |
| 2009        | 0.894            | 0.106            | 0.0%             |               | 3.6%    |               | 0.4%       |          | 0.4%              |
| 2010        | 0.895            | 0.105            | 0.0%             |               | 2.8%    |               | 0.3%       |          | 0.3%              |
| 2011        | 0.969            | 0.031            | 0.0%             |               | 3.2%    |               | 0.3%       |          | 0.3%              |
| 2012        | 0.969            | 0.031            | 0.0%             |               | 2.7%    |               | 0.1%       |          | 0.1%              |
| 2013        | 0.938            | 0.062            | 0.0%             |               | 2.6%    |               | 0.1%       |          | 0.1%              |
| 2014        | 0.928            | 0.072            | 0.4%             |               | 4.2%    |               | 0.3%       |          | 0.7%              |
| 2015        | 0.934            | 0.066            | 0.1%             |               | 3.1%    |               | 0.2%       |          | 0.3%              |
| 2016        | 0.919            | 0.081            | 0.1%             |               | 5.4%    |               | 0.4%       |          | 0.5%              |
| 2017        | 0.919            | 0.081            | 0.1%             |               | 2.3%    |               | 0.2%       |          | 0.3%              |
| 2018        | 0.919            | 0.081            | 0.0%             |               | 3.3%    |               | 0.3%       |          | 0.3%              |
| 4/1/2019    | 0.919            | 0.081            | 0.0%             | (Annual 0.0%) | 2.5%    | (Annual 3.3%) | 0.2%       |          | 0.2%              |

<sup>(</sup>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.

<sup>(</sup>b) Based on the WCIRB's evaluation of the cost impact of changes in the medical fee schedules. Includes the 1/1/2014 changes to the physician fee schedule to a resource-based relative value scale (RBRVS) except for the proportion reflected in loss development (See Exhibit 2.4).

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

<sup>(</sup>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.

<sup>(</sup>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     |
| Year     | Medical Severity(a) | Frequency Changes(b)           | Impact on Medical(c) |
|          |                     |                                | - · · ·              |
| 1985     | 0.0%                | 0.0%                           | 0.0%                 |
| 1986     | 0.0%                | 0.0%                           | 0.0%                 |
| 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     | -3.0%               | 0.0%                           | -3.0%                |
| 2013     | -3.0%               | 0.2%                           | -2.8%                |
| 2014     | -2.0%               | 1.3%                           | -0.7%                |
| 2015     | 0.0%                | 0.0%                           | 0.0%                 |
| 2016     | 0.0%                | 0.0%                           | 0.0%                 |
| 2017     | 0.0%                | 0.0%                           | 0.0%                 |
| 2018     | 0.0%                | 0.0%                           | 0.0%                 |
| 4/1/2019 | 0.0%                | 0.0%                           | 0.0%                 |

- (a) These annual cost impacts reflect the WCIRB's retrospective estimates of the cost impact of legislation based on WCIRB cost monitoring results. These factors do not include the estimated -4.2% impact of 1/1/2013 medical provisions in SB 863, which was reflected in 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)<br>Annual<br>Non-Legislative | (2)<br>Annual<br>Legislative | (3)<br>Total<br>Annual Cost | (4)<br>Composite<br>Medical |
|-------------|----------------------------------|------------------------------|-----------------------------|-----------------------------|
| Accident    | Cost Impact on                   | Cost Impact on               | Impact on                   | On-level                    |
| <u>Year</u> | Medical (a)                      | Medical(b)                   | Medical(c)                  | Factor(d)                   |
|             |                                  |                              |                             |                             |
| 1985        | 4.5%                             | 0.0%                         | 4.5%                        | 0.991                       |
| 1986        | 3.0%                             | 0.0%                         | 3.0%                        | 0.962                       |
| 1987        | 3.8%                             | 0.0%                         | 3.8%                        | 0.927                       |
| 1988        | 3.8%                             | 0.0%                         | 3.8%                        | 0.893                       |
| 1989        | 3.0%                             | 0.0%                         | 3.0%                        | 0.867                       |
| 1990        | 3.7%                             | 19.1%                        | 23.5%                       | 0.702                       |
| 1991        | 3.6%                             | 12.9%                        | 16.9%                       | 0.601                       |
| 1992        | 3.0%                             | -7.9%                        | -5.2%                       | 0.633                       |
| 1993        | 2.7%                             | -18.7%                       | -16.5%                      | 0.758                       |
| 1994        | -2.3%                            | -2.3%                        | -4.6%                       | 0.795                       |
| 1995        | 0.9%                             | 0.5%                         | 1.4%                        | 0.784                       |
| 1996        | 1.0%                             | 0.4%                         | 1.4%                        | 0.773                       |
| 1997        | 0.7%                             | 0.2%                         | 0.9%                        | 0.766                       |
| 1998        | 0.8%                             | 12.6%                        | 13.5%                       | 0.675                       |
| 1999        | 2.5%                             | 12.6%                        | 15.4%                       | 0.585                       |
| 2000        | 1.7%                             | 7.0%                         | 8.8%                        | 0.537                       |
| 2001        | 2.9%                             | 6.6%                         | 9.7%                        | 0.490                       |
| 2002        | 2.0%                             | -5.6%                        | -3.7%                       | 0.509                       |
| 2003        | 1.4%                             | -6.0%                        | -4.7%                       | 0.534                       |
| 2004        | 0.0%                             | -33.9%                       | -33.9%                      | 0.807                       |
| 2005        | 0.0%                             | -13.9%                       | -13.9%                      | 0.937                       |
| 2006        | 0.3%                             | -5.1%                        | -4.8%                       | 0.984                       |
| 2007        | 1.8%                             | 0.1%                         | 1.9%                        | 0.966                       |
| 2008        | 0.2%                             | 0.5%                         | 0.7%                        | 0.959                       |
| 2009        | 0.4%                             | 1.0%                         | 1.4%                        | 0.946                       |
| 2010        | 0.3%                             | 0.0%                         | 0.3%                        | 0.943                       |
| 2011        | 0.3%                             | -2.0%                        | -1.7%                       | 0.960                       |
| 2012        | 0.1%                             | -3.0%                        | -2.9%                       | 0.988                       |
| 2013        | 0.1%                             | -2.8%                        | -2.7%                       | 1.016                       |
| 2014        | 0.7%                             | -0.7%                        | 0.0%                        | 1.020 (e)                   |
| 2015        | 0.3%                             | 0.0%                         | 0.3%                        | 1.018 (e)                   |
| 2016        | 0.5%                             | 0.0%                         | 0.5%                        | 1.014 (e)                   |
| 2017        | 0.3%                             | 0.0%                         | 0.3%                        | 1.012 (e)                   |
| 2018        | 0.3%                             | 0.0%                         | 0.3%                        | ( )                         |
| 4/1/2019    | 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 4/1/2019 level.
- (e) The on-level factors for accident years 2014, 2015, 2016, and 2017 include the estimated impact of the January 1, 2014 physician fee schedule for the service year 2017.

### **Annual Wage Level Changes**

|             | Annual Wage          | Factor to a         |
|-------------|----------------------|---------------------|
| <u>Year</u> | Level Change         | 4/1/2019 Wage Level |
| 1985        | 5.7                  | 3.217               |
| 1986        | 4.7                  | 3.073               |
| 1987        | 5.6                  | 2.910               |
| 1988        | 4.4                  | 2.787               |
| 1989        | 4.3                  | 2.672               |
| 1990        | 5.0                  | 2.545               |
| 1991        | 2.3                  | 2.488               |
| 1992        | 4.7                  | 2.376               |
| 1993        | 1.2                  | 2.348               |
| 1994        | 1.8                  | 2.306               |
| 1995        | 2.9                  | 2.241               |
| 1996        | 3.4                  | 2.168               |
| 1997        | 4.7                  | 2.070               |
| 1998        | 5.2                  | 1.968               |
| 1999        | 6.2                  | 1.853               |
| 2000        | 9.0                  | 1.700               |
| 2001        | 0.6                  | 1.690               |
| 2002        | 0.5                  | 1.682               |
| 2003        | 3.3                  | 1.628               |
| 2004        | 4.7                  | 1.555               |
| 2005        | 3.1                  | 1.508               |
| 2006        | 4.6                  | 1.442               |
| 2007        | 4.5                  | 1.380               |
| 2008        | 2.1                  | 1.351               |
| 2009        | 0.5                  | 1.345               |
| 2010        | 3.0                  | 1.305               |
| 2011        | 3.1                  | 1.266               |
| 2012        | 4.1                  | 1.216               |
| 2013        | 0.7                  | 1.208               |
| 2014        | 3.3                  | 1.169               |
| 2015        | 4.4                  | 1.120               |
| 2016        | 1.9                  | 1.099               |
| 2017        | 2.3                  | 1.074               |
| -           |                      |                     |
| Projected:  |                      |                     |
| 2018        | 3.8                  |                     |
| 4/1/2019    | 3.5 $(Annual = 4.7)$ |                     |

Source: California average annual wage level changes for 1985 to 2019 derived from information

published by the UCLA Anderson School of Business as of December 2017.

### **Premium Adjustment Factors**

|          | (1)            | (2a)             | (2b)             | (2c)                                | (3)         | (4)              | (5)           | (6)              | (7)        |
|----------|----------------|------------------|------------------|-------------------------------------|-------------|------------------|---------------|------------------|------------|
|          |                | Ratio of         | Factor to        | Factor to Adjust<br>Insurer Premium |             |                  | Off-Balance   |                  |            |
|          |                | 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          | July 1, 2017  | of Premium       | Premium    |
| Calendar | 4/1/2019       | Pure Premium     | Rate Level as of | Rate Level as of                    | Surcharge   | Experience       | Pure Premium  | Resulting from   | Adjustment |
| Year     | Wage Level (a) |                  | July 1, 2017 (c) | July 1, 2017 (d)                    | Premium (e) | Modification (f) | Rates         | Audits (g)       | Factor (h) |
| 1985     | 3.217          |                  |                  | 0.974                               | 0.991       | 0.984            | 1.026         |                  | 3.075      |
| 1986     | 3.073          |                  |                  | 0.890                               | 0.991       | 0.983            | 1.026         |                  | 2.686      |
| 1987     | 2.910          |                  |                  | 0.782                               | 0.992       | 0.983            | 1.026         |                  | 2.239      |
| 1988     | 2.787          |                  |                  | 0.700                               | 0.993       | 0.963            | 1.026         |                  | 1.960      |
| 1989     | 2.672          |                  |                  | 0.689                               | 0.993       | 0.945            | 1.026         |                  | 1.885      |
| 1990     | 2.545          |                  |                  | 0.672                               | 0.991       | 0.942            | 1.026         |                  | 1.752      |
| 1991     | 2.488          |                  |                  | 0.622                               | 0.987       | 0.939            | 1.026         |                  | 1.584      |
| 1992     | 2.376          |                  |                  | 0.597                               | 0.982       | 0.940            | 1.026         |                  | 1.444      |
| 1993     | 2.348          |                  |                  | 0.589                               | 0.981       | 0.949            | 1.026         |                  | 1.393      |
| 1994     | 2.306          |                  |                  | 0.675                               | 0.986       | 0.948            | 1.026         |                  | 1.577      |
| 1995     | 2.241          |                  |                  | 0.913                               | 0.995       | 0.958            | 1.026         |                  | 2.072      |
| 1996     | 2.168          | 1.023            | 0.970            | 0.948                               | 1.000       | 0.935            | 1.026         |                  | 2.143      |
| 1997     | 2.070          | 0.989            | 0.968            | 0.979                               | 1.000       | 0.949            | 1.026         |                  | 2.081      |
| 1998     | 1.968          | 0.966            | 1.008            | 1.043                               | 1.000       | 0.959            | 1.026         |                  | 2.087      |
| 1999     | 1.853          | 0.973            | 1.019            | 1.047                               | 1.000       | 0.954            | 1.026         |                  | 1.983      |
| 2000     | 1.700          | 1.006            | 0.924            | 0.918                               | 1.000       | 0.970            | 1.026         |                  | 1.569      |
| 2001     | 1.690          | 1.030            | 0.814            | 0.790                               | 1.000       | 0.969            | 1.026         |                  | 1.343      |
| 2002     | 1.682          | 1.157            | 0.728            | 0.629                               | 1.000       | 0.991            | 1.026         |                  | 1.041      |
| 2003     | 1.628          | 1.267            | 0.596            | 0.470                               | 1.000       | 1.005            | 1.026         |                  | 0.743      |
| 2004     | 1.555          | 1.397            | 0.606            | 0.434                               | 1.000       | 0.981            | 1.026         |                  | 0.670      |
| 2005     | 1.508          | 1.470            | 0.729            | 0.496                               | 1.000       | 0.982            | 1.026         |                  | 0.742      |
| 2006     | 1.442          | 1.447            | 0.940            | 0.650                               | 1.000       | 0.956            | 1.026         |                  | 0.955      |
| 2007     | 1.380          | 1.493            | 1.281            | 0.858                               | 1.000       | 0.931            | 1.026         | 0.985            | 1.221      |
| 2008     | 1.351          | 1.426            | 1.524            | 1.069                               | 1.000       | 0.946            | 1.026         | 0.991            | 1.475      |
| 2009     | 1.345          | 1.366            | 1.502            | 1.100                               | 1.000       | 0.937            | 1.026         | 1.034            | 1.590      |
| 2010     | 1.305          | 1.384            | 1.472            | 1.064                               | 1.000       | 0.941            | 1.026         | 1.005            | 1.445      |
| 2011     | 1.266          | 1.401            | 1.471            | 1.050                               | 1.000       | 0.982            | 1.026         |                  | 1.319      |
| 2012     | 1.216          | 1.223            | 1.213            | 0.992                               | 1.000       | 1.000            | 1.026         |                  | 1.176      |
| 2013     | 1.208          | 1.138            | 0.976            | 0.858                               | 1.000       | 0.983            | 1.026         |                  | 1.027      |
| 2014     | 1.169          | 1.126            | 0.899            | 0.798                               | 1.000       | 0.961            | 1.026         |                  | 0.947      |
| 2015     | 1.120          | 1.108            | 0.874            | 0.789                               | 1.000       | 0.951            | 1.026         |                  | 0.905      |
| 2016     | 1.099          | 1.147            | 0.941            | 0.820                               | 1.000       | 0.950            | 1.026         |                  | 0.925      |
| 2017     | 1.074          | 1.155            | 1.039            | 0.900                               | 1.000       | 0.959            | 1.026         |                  | 0.982      |

<sup>(</sup>a) See Exhibit 5.1.

<sup>(</sup>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.

<sup>(</sup>c) Reflects (1) advisory pure premium rate level changes to bring premium to the advisory July 1, 2017 pure premium rate level and (2) an additional adjustment factor, which is the ratio of the average advisory July 1, 2017 pure premium rate (\$2.00) to the industry average filed pure premium rate as of July 1, 2017 (\$2.34).

<sup>(</sup>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, 2017.

<sup>(</sup>e) Based on unit statistical data.

<sup>(</sup>f) Based on average promulgated experience modifications. Calendar years 1996 through 2000 include adjustments for the impacts of AB 1913 and SB 1217 (1998).

<sup>(9)</sup> 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.

<sup>(</sup>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.

### 2017 Accident Year Indemnity Claim Frequency Model As of PY 2015 Preliminary 1st Set & December 2017 UCLA

|      | Annual % Changes Intra- | Intra              | -Class Indemnity Frequ | ency                 | Annual Log Differences AY+1 | •            | Economic          | CalOSHA  |
|------|-------------------------|--------------------|------------------------|----------------------|-----------------------------|--------------|-------------------|----------|
| _    | Class Ind Freq          | per \$N            | M Exposure at PY 2016  | Level                | Indemnity                   | Cumulative   | Variables         | Dummy    |
| AY   | Total                   | Total              | Cumulative             | Non-cum.             | Benefit Level               | Injury Index | (1st Prin. Comp.) | Variable |
| 1962 |                         |                    |                        |                      |                             |              |                   |          |
| 1963 | 2.0%                    | 0.020              |                        |                      | 0.000                       |              | -0.029            | 0.000    |
| 1964 | 0.3%                    | 0.003              |                        |                      | 0.000                       |              | 0.004             | 0.000    |
| 1965 | -0.3%                   | -0.003             |                        |                      | 0.000                       |              | 0.020             | 0.000    |
| 966  | 1.7%                    | 0.017              |                        |                      | 0.000                       |              | 0.191             | 0.000    |
| 1967 | 1.8%                    | 0.017              |                        |                      | 0.000                       |              | -0.146            | 0.000    |
| 1968 | 1.4%                    | 0.014              |                        |                      | 0.049                       |              | 0.059             | 0.000    |
| 1969 | 2.7%                    | 0.026              |                        |                      | 0.000                       |              | 0.044             | 0.000    |
| 1970 | 1.8%                    | 0.018              |                        |                      | 0.000                       |              | -0.337            | 0.000    |
| 1971 | 1.5%                    | 0.015              |                        |                      | 0.162                       |              | -0.190            | 0.000    |
| 1972 | -4.3%                   | -0.044             |                        |                      | 0.040                       |              | 0.161             | 0.000    |
| 1973 | 7.0%                    | 0.067              |                        |                      | 0.049                       |              | 0.090             | 0.000    |
| 1974 | 19.2%                   | 0.176              |                        |                      | 0.058                       |              | -0.035            | 0.000    |
| 1975 | 12.5%                   | 0.118              |                        |                      | 0.000                       |              | -0.298            | 0.000    |
| 1976 | 0.8%                    | 0.008              |                        |                      | 0.063                       |              | 0.085             | 0.000    |
| 1977 | 4.3%                    | 0.042              |                        |                      | 0.001                       |              | 0.112             | 0.000    |
| 1978 | -8.7%                   | -0.091             |                        |                      | 0.000                       |              | 0.173             | 0.000    |
| 1979 | 0.5%                    | 0.005              | -0.053                 | 0.007                | 0.000                       | -0.060       | 0.134             | 0.000    |
| 1980 | -6.5%                   | -0.068             | -0.132                 | -0.066               | 0.033                       | -0.066       | -0.080            | 0.000    |
| 1981 | -3.5%                   | -0.036             | -0.028                 | -0.036               | 0.000                       | 0.008        | -0.078            | 0.000    |
| 1982 | -1.6%                   | -0.016             | 0.153                  | -0.022               | 0.352                       | 0.175        | -0.292            | 0.000    |
| 1983 | 6.2%                    | 0.060              | 0.214                  | 0.054                | 0.081                       | 0.160        | 0.029             | 0.000    |
| 1984 | 9.5%                    | 0.091              | 0.235                  | 0.084                | 0.000                       | 0.151        | 0.221             | 0.000    |
| 1985 | 2.0%                    | 0.020              | 0.138                  | 0.014                | 0.000                       | 0.124        | 0.080             | 0.000    |
| 1986 | -2.4%                   | -0.024             | 0.039                  | -0.028               | 0.000                       | 0.067        | 0.077             | 0.000    |
| 1987 | 1.5%                    | 0.015              | 0.053                  | 0.013                | 0.000                       | 0.041        | 0.150             | 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        | -0.120            | 0.000    |
| 1991 | 0.3%                    | 0.007              | 0.166                  | -0.018               | 0.023                       | 0.184        | -0.291            | 0.000    |
| 1992 | -11.1%                  | -0.118             | -0.272                 | -0.018               | 0.023                       | -0.174       | -0.185            | 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       | 0.074             | 0.000    |
| 1997 | -3.3%                   | -0.033             | -0.023                 | -0.034               | 0.066                       | 0.011        | 0.137             | 0.000    |
| 1998 | -3.8%                   | -0.038             | -0.040                 | -0.038               | 0.058                       | -0.002       | 0.078             | 0.000    |
| 1999 | 1.5%                    | 0.014              | 0.100                  | 0.008                | 0.040                       | 0.092        | 0.127             | 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        | -0.100            | 0.000    |
| 2002 | -2.8%                   | -0.029             | 0.001                  | -0.031               | 0.060                       | 0.033        | -0.197            | 0.000    |
| 2003 | -3.2%                   | -0.032             | -0.009                 | -0.035               | -0.065                      | 0.026        | -0.022            | 0.000    |
| 2004 | -16.9%                  | -0.185             | -0.212                 | -0.182               | -0.398                      | -0.030       | 0.098             | 0.000    |
| 2005 | -13.6%                  | -0.147             | -0.299                 | -0.134               | 0.051                       | -0.165       | 0.143             | 0.000    |
| 2006 | -5.7%                   | -0.059             | -0.050                 | -0.059               | 0.016                       | 0.009        | 0.090             | 0.000    |
| 2007 | -1.6%                   | -0.017             | 0.021                  | -0.020               | 0.049                       | 0.040        | -0.095            | 0.000    |
| 2008 | -2.7%                   | -0.027             | 0.038                  | -0.033               | 0.006                       | 0.071        | -0.320            | 0.000    |
| 2009 | -0.2%                   | -0.002             | 0.168                  | -0.018               | 0.066                       | 0.186        | -0.414            | 0.000    |
| 2010 | 8.9%                    | 0.085              | 0.139                  | 0.079                | 0.012                       | 0.060        | -0.077            | 0.000    |
| 2011 | 1.3%                    | 0.013              | 0.033                  | 0.010                | 0.003                       | 0.022        | 0.048             | 0.000    |
| 2012 | 4.7%                    | 0.046              | 0.130                  | 0.036                | 0.022                       | 0.094        | 0.120             | 0.000    |
| 2013 | 0.6%                    | 0.006              | 0.155                  | -0.015               | 0.071                       | 0.170        | 0.154             | 0.000    |
| 2014 | 0.5%                    | 0.005              | 0.095                  | -0.009               | 0.003                       | 0.104        | 0.172             | 0.000    |
| 2015 | -0.6%                   | -0.006             | 0.075                  | -0.020               | 0.002                       | 0.094        | 0.192             | 0.000    |
| 016* | -3.2%                   | -0.033             | 0.000                  | -0.039               | 0.004                       | 0.040        | 0.128             | 0.000    |
| 2017 | -0.9%                   | -0.009             | -0.009                 | -0.009               | 0.004                       | 0.000        | 0.109             | 0.000    |
| 2018 | -1.3%                   | -0.013             | -0.013                 | -0.013               | 0.004                       | 0.000        | 0.066             | 0.000    |
| 2019 | -2.0%                   | -0.020             | -0.020                 | -0.020               | 0.004                       | 0.000        | -0.005            | 0.000    |
| 2020 | -2.1%                   | -0.021             | -0.021                 | -0.021               | 0.004                       | 0.000        | -0.016            | 0.000    |
|      | •                       | = Hazardousness-A  | djusted Noncumulativ   | ve Indemnity Claim F | requency                    |              |                   |          |
|      |                         | onstant            | ajastou Honoumulatii   | -0.020               | . oquonoy                   |              |                   |          |
|      |                         | td Err of Y Est    |                        | 0.040                |                             |              |                   |          |
|      |                         | Squared            |                        | 0.583                |                             |              |                   |          |
|      |                         | o. of Observations |                        | 38                   |                             |              |                   |          |
|      |                         |                    |                        |                      |                             |              |                   |          |

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.

Degrees of Freedom

X Coefficient(s)

Std Err of Coef.

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 2016; December 2017 UCLA Anderson Forecasts for 2017 on.

Regression is over AY 1979 through AY 2016. AY 2017 through AY 2020 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

33

0.178

0.073

0.284

0.062

0.094

0.044

-0.131

0.077

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.

frequency to increase without bound.

\*AY 2016 is preliminary and change is based on a comparison of 2016 accidents on 2015 policies to 2015 accidents on 2014 policies.

### Projection of Indemnity Severity Trends by Accident Year Based on Experience as of December 31, 2017

|   | (1)             | (2)      | (3)        | (4)       | (5)      |  |  |
|---|-----------------|----------|------------|-----------|----------|--|--|
|   | Estimated       |          | Indemnity  | Ultimate  |          |  |  |
| Accident  | Ultimate        | Annual   | Adjustment | On-level  | Annual   |  |  |
| <u>Year</u>   | <u>Severity</u> | % Change | Factor (a) | Severity  | % Change |  |  |
|   |                 |          |            | (1) x (3) |          |  |  |
| 1990  | 9,968           |          | 1.830      | 18,242    |          |  |  |
| 1991  | 10,903          | 9.4%     | 1.731      | 18,870    | 3.4%     |  |  |
| 1992  | 11,003          | 0.9%     | 1.673      | 18,412    | -2.4%    |  |  |
| 1993  | 11,990          | 9.0%     | 1.663      | 19,944    | 8.3%     |  |  |
| 1994  | 12,948          | 8.0%     | 1.742      | 22,559    | 13.1%    |  |  |
| 1995  | 14,531          | 12.2%    | 1.623      | 23,582    | 4.5%     |  |  |
| 1996  | 16,270          | 12.0%    | 1.523      | 24,777    | 5.1%     |  |  |
| 1997  | 19,318          | 18.7%    | 1.366      | 26,396    | 6.5%     |  |  |
| 1998  | 21,168          | 9.6%     | 1.260      | 26,677    | 1.1%     |  |  |
| 1999  | 23,213          | 9.7%     | 1.168      | 27,108    | 1.6%     |  |  |
| 2000  | 24,631          | 6.1%     | 1.090      | 26,852    | -0.9%    |  |  |
| 2001  | 27,130          | 10.1%    | 1.091      | 29,606    | 10.3%    |  |  |
| 2002  | 26,204          | -3.4%    | 1.120      | 29,358    | -0.8%    |  |  |
| 2003  | 25,794          | -1.6%    | 1.119      | 28,874    | -1.6%    |  |  |
| 2004  | 21,040          | -18.4%   | 1.331      | 28,010    | -3.0%    |  |  |
| 2005  | 18,998          | -9.7%    | 1.531      | 29,079    | 3.8%     |  |  |
| 2006  | 20,721          | 9.1%     | 1.427      | 29,561    | 1.7%     |  |  |
| 2007  | 22,528          | 8.7%     | 1.382      | 31,135    | 5.3%     |  |  |
| 2008  | 24,682          | 9.6%     | 1.310      | 32,323    | 3.8%     |  |  |
| 2009  | 25,898          | 4.9%     | 1.302      | 33,714    | 4.3%     |  |  |
| 2010  | 25,551          | -1.3%    | 1.284      | 32,801    | -2.7%    |  |  |
| 2011  | 25,170          | -1.5%    | 1.264      | 31,804    | -3.0%    |  |  |
| 2012  | 24,707          | -1.8%    | 1.234      | 30,485    | -4.1%    |  |  |
| 2013  | 24,934          | 0.9%     | 1.202      | 29,982    | -1.6%    |  |  |
| 2014  | 26,527          | 6.4%     | 1.105      | 29,317    | -2.2%    |  |  |
| 2015  | 27,109          | 2.2%     | 1.077      | 29,202    | -0.4%    |  |  |
| 2016  | 27,290          | 0.7%     | 1.064      | 29,028    | -0.6%    |  |  |
| 2017  | 27,758          | 1.7%     | 1.046      | 29,038    | 0.0%     |  |  |
| (6) Estimated Annual Exponential Trend Based on 2005 to 2017: |                 |          |            |           |          |  |  |
| (7) Estimated Annual Exponential Trend Based on 2012 to 2017: |                 |          |            |           |          |  |  |
| Selected Indemnity Severity Trend:                            |                 |          |            |           |          |  |  |

<sup>(</sup>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, 2017

|             | (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        | 8,756        |          | 1.016      | 8,895           |          |
| 1991        | 9,421        | 7.6%     | 0.997      | 9,393           | 5.6%     |
| 1992        | 9,530        | 1.2%     | 0.964      | 9,191           | -2.2%    |
| 1993        | 10,573       | 10.9%    | 0.948      | 10,023          | 9.1%     |
| 1994        | 11,622       | 9.9%     | 0.997      | 11,586          | 15.6%    |
| 1995        | 13,361       | 15.0%    | 0.990      | 13,223          | 14.1%    |
| 1996        | 14,336       | 7.3%     | 0.980      | 14,045          | 6.2%     |
| 1997        | 17,040       | 18.9%    | 0.973      | 16,577          | 18.0%    |
| 1998        | 20,870       | 22.5%    | 0.859      | 17,920          | 8.1%     |
| 1999        | 23,745       | 13.8%    | 0.744      | 17,673          | -1.4%    |
| 2000        | 26,690       | 12.4%    | 0.684      | 18,263          | 3.3%     |
| 2001        | 31,739       | 18.9%    | 0.625      | 19,835          | 8.6%     |
| 2002        | 32,084       | 1.1%     | 0.649      | 20,836          | 5.0%     |
| 2003        | 30,632       | -4.5%    | 0.683      | 20,913          | 0.4%     |
| 2004        | 28,360       | -7.4%    | 0.905      | 25,662          | 22.7%    |
| 2005        | 29,267       | 3.2%     | 0.907      | 26,549          | 3.5%     |
| 2006        | 32,022       | 9.4%     | 0.905      | 28,985          | 9.2%     |
| 2007        | 35,778       | 11.7%    | 0.891      | 31,883          | 10.0%    |
| 2008        | 39,016       | 9.0%     | 0.891      | 34,754          | 9.0%     |
| 2009        | 41,300       | 5.9%     | 0.892      | 36,833          | 6.0%     |
| 2010        | 41,621       | 0.8%     | 0.895      | 37,255          | 1.1%     |
| 2011        | 37,936 (c)   |          | 0.919      | 34,857 (c)      |          |
| 2012        | 35,745       | -5.8%    | 0.955      | 34,123          | -2.1%    |
| 2013        | 33,552       | -6.1%    | 0.994      | 33,366          | -2.2%    |
| 2014        | 32,621       | -2.8%    | 1.018      | 33,205          | -0.5%    |
| 2015        | 32,289       | -1.0%    | 1.018      | 32,877          | -1.0%    |
| 2016        | 32,710       | 1.3%     | 1.014      | 33,170          | 0.9%     |
| 2017        | 34,572       | 5.7%     | 1.012      | 34,996          | 5.5%     |

Selected Medical Severity Trend:

3.0%

- (a) Estimated ultimate severities for all accident years are derived by dividing ultimate medical losses on indemnity claims by ultimate indemnity claim counts. The estimated ultimate medical severities were derived from the projected ultimate loss ratios shown in Exhibit 3.2, column (6).
- (b) These adjustment factors are based on Exhibit 4.4, excluding the impact of frequency, and including the impact of SB 863 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.

MCCP Removed Based on

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, 2017

|                      |  |          |               |              |                                  | WCIRB A                      | WCIRB Aggregate |              |
|----------------------|--|----------|---------------|--------------|----------------------------------|------------------------------|-----------------|--------------|
|                      |  | MCCP I   | 1CCP Included |              |                                  | Calendar Year Data Calls (b) | Data Calls (b)  |              |
| Ξ                    | (2)  | (3)      | (4)           | (5)          | (9)                              | (7)                          | (8)             | (6)          |
|                      | Estimated  |          | Ultimate      |              | Estimated                        |                              | Ultimate        |              |
| Accident             | Ultimate   | Annual   | On-Level      | Annual       | Ultimate                         | Annual                       | On-Level        | Annual       |
| Year                 | Severity (a)   | % Change | Severity (c)  | % Change     | Severity (a)                     | % Change                     | Severity (c)    | % Change     |
| 2005                 | 5 29,267   | !        | 26,549        | 1            | 27,658                           | 1                            | 25,090          | !            |
| 2006                 | 32,022   | 9.4%     | 28,986        | 9.2%         | 29,944                           | 8.3%                         | 27,104          | 8.0%         |
| 2007                 |  | 11.7%    | 31,883        | 10.0%        | 33,313                           | 11.3%                        | 29,686          | 9.5%         |
| 2008                 |  | %0.6     | 34,754        | %0.6         | 35,513                           | %9.9                         | 31,633          | %9:9         |
| 2008                 | 9 41,300   | 2.9%     | 36,833        | %0.9         | 37,756                           | %6.3%                        | 33,672          | 6.4%         |
| 2010                 |  | 0.8%     | 37,255        | 1.1%         | 38,012                           | %2'0                         | 34,024          | 1.0%         |
| 2011                 |  | 0.1%     | 38,295        | 2.8%         | 32,936                           | -0.2%                        | 34,857          | 2.4%         |
| 2012                 | 39,190   | -0.0%    | 37,412        | -2.3%        | 35,745                           | -5.8%                        | 34,123          | -2.1%        |
| 2013                 | 36,871   | -2.9%    | 36,667        | -2.0%        | 33,552                           | -6.1%                        | 33,366          | -2.2%        |
| 2014                 | 1 35,852   | -2.8%    | 36,494        | -0.5%        | 32,621                           | -2.8%                        | 33,205          | -0.5%        |
| 2015                 | 35,434   | -1.2%    | 36,079        | -1.1%        | 32,289                           | -1.0%                        | 32,877          | -1.0%        |
| 2016                 | 35,899   | 1.3%     | 36,404        | %6:0         | 32,710                           | 1.3%                         | 33,170          | %6.0         |
| 2017                 | 37,828   | 5.4%     | 38,291        | 5.2%         | 34,572                           | 2.7%                         | 34,996          | 2.5%         |
| stimated             | Estimated Annual Exponential Trend                         | al Trend |               | ò            |                                  |                              |                 | ò            |
| rend Bas<br>rend Bas | Frend Based on 2005 to 2017<br>Trend Based on 2012 to 2017 | 7:       |               | 2.2%<br>0.2% |                                  |                              |                 | 2.0%<br>0.3% |
|                      |  |          |               | Se           | Selected Medical Severity Trend: | erity Trend:                 |                 | 3.0%         |

(a) Estimated ultimate severities for all accident years were derived by dividing ultimate medical losses on indemnity claims by ultimate indemnity claim counts. (b) Adjustments to accident years 2005 through 2010 based on WCIRB's Annual Calls for Direct California Workers' Compensation Aggregate Indemnity and Medical Costs. (c) Ultimate severities are on-leveled based on adjustment factors shown on Exhibit 4.4, excluding the impact of frequency.

Source: WCIRB experience calls.

### Projected On-Level Accident Year Indemnity Loss to Industry Average Filed Pure Premium Ratios Based on Experience as of December 31, 2017

|             | (1)                 | (2)                  | (3)                  | (4)                    |
|-------------|---------------------|----------------------|----------------------|------------------------|
|             | , ,                 | , ,                  | , ,                  | On-Level Indemnity to  |
| Accident    | Developed Indemnity | Composite Indemnity  | Composite Premium    | Industry Average Filed |
| <u>Year</u> | Loss Ratio(a)       | Adjustment Factor(b) | Adjustment Factor(c) | Pure Premium Ratio     |
|             |                     |                      |                      | (1)×(2)÷(3)            |
| 1985        | 0.448               | 1.522                | 3.075                | 0.222                  |
| 1986        | 0.397               | 1.498                | 2.686                | 0.221                  |
| 1987        | 0.347               | 1.470                | 2.239                | 0.228                  |
| 1988        | 0.331               | 1.449                | 1.960                | 0.245                  |
| 1989        | 0.344               | 1.427                | 1.885                | 0.261                  |
| 1990        | 0.399               | 1.144                | 1.752                | 0.260                  |
| 1991        | 0.426               | 0.943                | 1.584                | 0.254                  |
| 1992        | 0.351               | 0.994                | 1.444                | 0.242                  |
| 1993        | 0.289               | 1.206                | 1.393                | 0.250                  |
| 1994        | 0.329               | 1.261                | 1.577                | 0.263                  |
| 1995        | 0.476               | 1.167                | 2.072                | 0.268                  |
| 1996        | 0.533               | 1.091                | 2.143                | 0.271                  |
| 1997        | 0.603               | 0.977                | 2.081                | 0.283                  |
| 1998        | 0.655               | 0.901                | 2.087                | 0.283                  |
| 1999        | 0.690               | 0.835                | 1.983                | 0.290                  |
| 2000        | 0.596               | 0.780                | 1.569                | 0.296                  |
| 2001        | 0.494               | 0.780                | 1.343                | 0.287                  |
| 2002        | 0.368               | 0.801                | 1.041                | 0.283                  |
| 2003        | 0.242               | 0.800                | 0.743                | 0.261                  |
| 2004        | 0.145               | 1.103                | 0.670                | 0.238                  |
| 2005        | 0.124               | 1.497                | 0.742                | 0.250                  |
| 2006        | 0.160               | 1.480                | 0.955                | 0.248                  |
| 2007        | 0.221               | 1.434                | 1.221                | 0.260                  |
| 2008        | 0.282               | 1.351                | 1.475                | 0.258                  |
| 2009        | 0.330               | 1.324                | 1.590                | 0.275                  |
| 2010        | 0.322               | 1.306                | 1.445                | 0.291                  |
| 2011        | 0.300               | 1.285                | 1.319                | 0.292                  |
| 2012        | 0.270               | 1.255                | 1.176                | 0.288                  |
| 2013        | 0.240               | 1.220                | 1.027                | 0.285                  |
| 2014        | 0.235               | 1.105                | 0.947                | 0.274                  |
| 2015        | 0.233               | 1.077                | 0.905                | 0.277                  |
| 2016        | 0.228               | 1.064                | 0.925                | 0.262                  |
| 2017        | 0.242               | 1.046                | 0.982                | 0.257                  |
|             |                     |                      |                      | Projections (d)        |
| 2018        |                     |                      |                      | 0.257                  |
| 4/1/2019    |                     |                      |                      | 0.253                  |

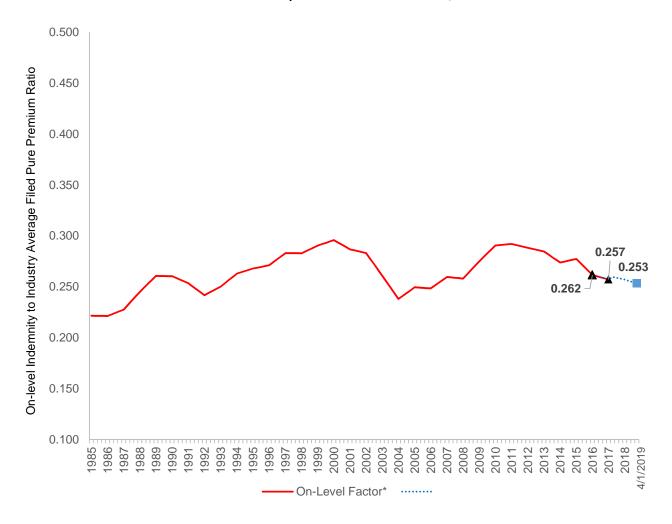
<sup>(</sup>a) See Exhibit 3.1.

<sup>(</sup>b) See Exhibit 4.1.

<sup>(</sup>c) See Exhibit 5.2.

<sup>(</sup>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 2017 from Exhibit 12, and projected frequency trends for accident years 2018 and 2019 from Exhibit 6.1; these trends were then separately applied to the 2016 and 2017 on-level ratios.

### On-Level Indemnity Loss to Industry Average Filed Pure Premium Ratios Based on Experience as of December 31, 2017



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

<sup>\*\*</sup> The 4/1/2019 indemnity to industry average filed pure premium ratio was calculated based on separate frequency and severity trends applied to the 2016 and 2017 years.

# Projected On-Level Accident Year Medical Loss to Industry Average Filed Pure Premium Ratios Based on Experience as of December 31, 2017

|             | (1)               | (2)                | (3)                  | (4)                    |
|-------------|-------------------|--------------------|----------------------|------------------------|
|             |                   |                    |                      | On-Level Medical to    |
| Accident    | Developed Medical | Composite Medical  | Composite Premium    | Industry Average Filed |
| <u>Year</u> | Loss Ratio(a)     | On-Level Factor(b) | Adjustment Factor(c) | Pure Premium Ratio(e)  |
|             |                   |                    |                      | (1)×(2)÷(3)            |
| 1985        | 0.359             | 0.991              | 3.075                | 0.116                  |
| 1986        | 0.340             | 0.962              | 2.686                | 0.122                  |
| 1987        | 0.321             | 0.927              | 2.239                | 0.133                  |
| 1988        | 0.311             | 0.893              | 1.960                | 0.142                  |
| 1989        | 0.333             | 0.867              | 1.885                | 0.153                  |
| 1990        | 0.376             | 0.702              | 1.752                | 0.151                  |
| 1991        | 0.394             | 0.601              | 1.584                | 0.149                  |
| 1992        | 0.329             | 0.633              | 1.444                | 0.144                  |
| 1993        | 0.275             | 0.758              | 1.393                | 0.150                  |
| 1994        | 0.317             | 0.795              | 1.577                | 0.160                  |
| 1995        | 0.468             | 0.784              | 2.072                | 0.177                  |
| 1996        | 0.502             | 0.773              | 2.143                | 0.181                  |
| 1997        | 0.563             | 0.766              | 2.081                | 0.207                  |
| 1998        | 0.680             | 0.675              | 2.087                | 0.220                  |
| 1999        | 0.693             | 0.585              | 1.983                | 0.204                  |
| 2000        | 0.633             | 0.537              | 1.569                | 0.217                  |
| 2001        | 0.563             | 0.490              | 1.343                | 0.205                  |
| 2002        | 0.439             | 0.509              | 1.041                | 0.215                  |
| 2003        | 0.282             | 0.534              | 0.743                | 0.203                  |
| 2004        | 0.193             | 0.807              | 0.670                | 0.233                  |
| 2005        | 0.191             | 0.937              | 0.742                | 0.241                  |
| 2006        | 0.248             | 0.984              | 0.955                | 0.256                  |
| 2007        | 0.352             | 0.966              | 1.221                | 0.279                  |
| 2008        | 0.447             | 0.959              | 1.475                | 0.291                  |
| 2009        | 0.530             | 0.946              | 1.590                | 0.315                  |
| 2010        | 0.529             | 0.943              | 1.445                | 0.345                  |
| 2011        | 0.462             | 0.960              | 1.319                | 0.336                  |
| 2012        | 0.404             | 0.988              | 1.176                | 0.340                  |
| 2013        | 0.338             | 1.016              | 1.027                | 0.334                  |
| 2014        | 0.305             | 1.020              | 0.947                | 0.329                  |
| 2015        | 0.295             | 1.018              | 0.905                | 0.331                  |
| 2016        | 0.290             | 1.014              | 0.925                | 0.318                  |
| 2017        | 0.320             | 1.012              | 0.982                | 0.330                  |
|             |                   |                    |                      | Projections (d)        |
| 2018        |                   |                    |                      | 0.335                  |
| 4/1/2019    |                   |                    |                      | 0.338                  |

(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.

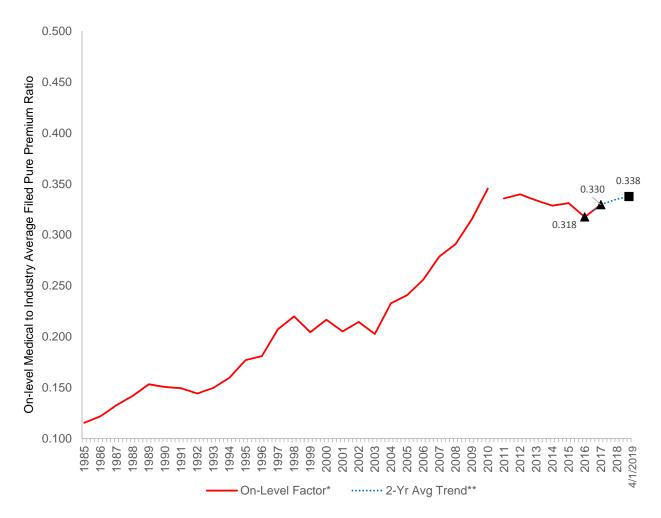
<sup>(</sup>b) See Exhibit 4.4.

<sup>(</sup>c) See Exhibit 5.2.

<sup>(</sup>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 2017 from Exhibit 12, and projected frequency trends for accident years 2018 and 2019 from Exhibit 6.1; these trends were then separately applied to the 2016 and 2017 on-level ratios.

<sup>(</sup>e) Accident years 2011 and subsequent do not reflect the paid cost of medical cost containment programs (MCCP). Accident years 2010 and prior do reflect paid MCCP costs.

### On-Level Medical Loss to Industry Average Filed Pure Premium Ratios Based on Experience as of December 31, 2017



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

<sup>\*\*</sup> The 4/1/2019 medical to industry average filed pure premium ratio was calculated based on separate frequency and severity trends applied to the 2016 and 2017 years.

# Indicated Loss to Industry Average Filed Pure Premium Ratios For Policies with Effective Dates between January 1, 2018 and December 31, 2018 Based on Experience as of December 31, 2017

|  | <u>Indemnity</u> | <u>Medical</u> | <u>Total</u> |
|--|------------------|----------------|--------------|
| Projected Loss to Industry Average Filed Pure Premium Ratio     (See Exhibits 7.1 and 7.3) | 0.253            | 0.338          | 0.591        |

# Quarterly Incurred Indemnity Loss Development Factors Through December 31, 2017

| Age in        |             |             |       |       |       |       |       |       |       | Accide | nt Yea | r     |       |             |       |       |       |             |       |       |
|---------------|-------------|-------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------------|-------|-------|-------|-------------|-------|-------|
| <u>Months</u> | <u>1998</u> | <u>1999</u> | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007   | 2008   | 2009  | 2010  | <u>2011</u> | 2012  | 2013  | 2014  | <u>2015</u> | 2016  | 2017  |
| 6/3           |             |             |       |       |       |       |       |       | 2.417 | 2.724  | 2.785  | 3.031 | 3.116 | 3.052       | 3.238 | 3.344 | 3.303 | 3.209       | 3.201 | 3.358 |
| 9/6           |             |             |       |       |       |       |       |       | 1.656 | 1.776  | 1.820  | 1.848 | 1.904 | 2.001       | 1.966 | 1.940 | 1.960 | 1.948       | 1.945 | 1.863 |
| 12/9          |             |             |       |       |       |       |       |       | 1.448 | 1.511  | 1.510  | 1.530 | 1.564 | 1.632       | 1.587 | 1.585 | 1.570 | 1.578       | 1.578 | 1.579 |
| 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 |       |
| 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 | ı     |
| 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       | 1.132 |       |
| 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 |       |
| 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       |       |       |
| 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       |       |       |
| 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 | 1.049       |       |       |
| 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 | 1.036       |       |       |
| 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 |             |       |       |
| 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 |             |       |       |
| 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 | 1.025 |             |       |       |
| 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 |             |       |       |
| 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 |       |             |       |       |
| 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 |       |             |       |       |
| 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 |       |             |       |       |
| 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 |       |             |       |       |
| 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 |       |       |             |       |       |
| 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 |       |       |             |       |       |
| 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 |       |       |             |       |       |
| 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 |       |       |             |       |       |
| 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       |       |       |       |             |       |       |
| 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       |       |       |       |             |       |       |
| 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       |       |       |       |             |       |       |
| 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       |       |       |       |             |       |       |
| 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 |             |       |       |       |             |       |       |
| 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 |             |       |       |       |             |       |       |
| 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 |             |       |       |       |             |       |       |
| 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 |             |       |       |       |             |       |       |

Source: WCIRB accident year experience calls

## Quarterly Incurred Medical Loss Development Factors \* Through December 31, 2017

| Age in        |             |             |       |       |       |       |       |       |       | Accide | nt Yea | r     |       |       |       |       |       |             |       |       |
|---------------|-------------|-------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------------|-------|-------|
| <u>Months</u> | <u>1998</u> | <u>1999</u> | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007   | 2008   | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | <u>2015</u> | 2016  | 2017  |
| 6/3           |             |             |       |       |       |       |       |       | 2.584 | 2.662  | 2.782  | 2.892 | 2.992 | 2.757 | 2.853 | 2.843 | 2.921 | 2.863       | 3.019 | 3.195 |
| 9/6           |             |             |       |       |       |       |       |       | 1.650 | 1.744  | 1.717  | 1.807 | 1.800 | 1.827 | 1.833 | 1.819 | 1.840 | 1.884       | 1.755 | 1.727 |
| 12/9          |             |             |       |       |       |       |       |       | 1.453 | 1.443  | 1.466  | 1.454 | 1.488 | 1.521 | 1.484 | 1.500 | 1.482 | 1.451       | 1.487 | 1.444 |
| 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 |       |
| 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       | 1.094 |       |
| 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       | 1.068 |       |
| 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 |       |
| 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       |       |       |
| 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       |       |       |
| 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 | 1.032       |       |       |
| 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       |       |       |
| 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 |             |       |       |
| 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 |             |       |       |
| 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 |             |       |       |
| 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 | 1.013 |             |       |       |
| 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 |       |             |       |       |
| 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 |       |             |       |       |
| 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 |       |             |       |       |
| 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 |       |             |       |       |
| 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 |       |       |             |       |       |
| 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 |       |       |             |       |       |
| 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 |       |       |             |       |       |
| 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 |       |       |             |       |       |
| 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 |       |       |       |             |       |       |
| 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 |       |       |       |             |       |       |
| 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 |       |       |       |             |       |       |
| 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 |       |       |       |             |       |       |
| 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 |       |       |       |       |             |       |       |
| 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 |       |       |       |       |             |       |       |
| 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 |       |       |       |       |             |       |       |
| 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 |       |       |       |       |             |       |       |

Source: WCIRB acident year experience calls

<sup>\*</sup> Incurred medical loss development factors include the paid cost of medical cost containment programs for accident years 2011 and prior.

# Quarterly Paid Indemnity Loss Development Factors Through December 31, 2017

| Age in        |       |             |       |             |       |       |       |       |       | Accide | nt Yea | ır    |       |             |       |       |       |             |       |             |
|---------------|-------|-------------|-------|-------------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------------|-------|-------|-------|-------------|-------|-------------|
| <u>Months</u> | 1998  | <u>1999</u> | 2000  | <u>2001</u> | 2002  | 2003  | 2004  | 2005  | 2006  | 2007   | 2008   | 2009  | 2010  | <u>2011</u> | 2012  | 2013  | 2014  | <u>2015</u> | 2016  | <u>2017</u> |
| 6/3           |       |             |       |             |       |       |       |       | 4.376 | 4.495  | 4.553  | 4.807 | 4.911 | 4.722       | 4.854 | 5.099 | 5.076 | 5.056       | 5.087 | 5.258       |
| 9/6           |       |             |       |             |       |       |       |       | 2.259 | 2.375  | 2.377  | 2.398 | 2.452 | 2.432       | 2.484 | 2.462 | 2.462 | 2.484       | 2.456 | 2.418       |
| 12/9          |       |             |       |             |       |       |       |       | 1.812 | 1.834  | 1.810  | 1.825 | 1.861 | 1.869       | 1.877 | 1.866 | 1.879 | 1.910       | 1.882 | 1.891       |
| 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 |             |
| 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       | 1.364 |             |
| 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       | 1.253 |             |
| 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 |             |
| 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       |       |             |
| 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       |       |             |
| 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 | 1.106       |       |             |
| 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       |       |             |
| 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 |             |       |             |
| 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 |             |       |             |
| 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 |             |       |             |
| 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 |             |       |             |
| 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 |       |             |       |             |
| 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 | 1.034 |       |             |       |             |
| 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 |       |             |       |             |
| 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 |       |             |       |             |
| 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 |       |       |             |       |             |
| 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       | 1.023 |       |       |             |       |             |
| 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       | 1.021 |       |       |             |       |             |
| 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 |       |       |             |       |             |
| 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       |       |       |       |             |       |             |
| 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       |       |       |       |             |       |             |
| 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       |       |       |       |             |       |             |
| 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       |       |       |       |             |       |             |
| 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 |             |       |       |       |             |       |             |
| 90/87         | 1.008 | 1.009       | 1.010 | 1.009       | 1.008 | 1.008 | 1.011 | 1.012 | 1.013 | 1.012  | 1.011  | 1.010 | 1.010 |             |       |       |       |             |       |             |
| 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 |             |       |       |       |             |       |             |
| 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 |             |       |       |       |             |       |             |

Source: WCIRB acident year experience calls

## Quarterly Paid Medical Loss Development Factors \* Through December 31, 2017

| Age in        |       |             |       |       |       |       |       |       |       | Accide | nt Yea | r     |       |       |       |       |       |       |             |       |
|---------------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------------|-------|
| <u>Months</u> | 1998  | <u>1999</u> | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007   | 2008   | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | <u>2016</u> | 2017  |
| 6/3           |       |             |       |       |       |       |       |       | 5.308 | 5.615  | 6.579  | 6.101 | 6.048 | 5.854 | 5.989 | 6.284 | 5.604 | 5.720 | 5.897       | 5.419 |
| 9/6           |       |             |       |       |       |       |       |       | 2.348 | 2.381  | 2.348  | 2.375 | 2.361 | 2.327 | 2.398 | 2.498 | 2.428 | 2.287 | 2.326       | 2.220 |
| 12/9          |       |             |       |       |       |       |       |       | 1.716 | 1.765  | 1.731  | 1.723 | 1.756 | 1.746 | 1.763 | 1.736 | 1.750 | 1.705 | 1.752       | 1.736 |
| 15/12         | 1.453 | 1.490       | 1.514 | 1.547 | 1.554 | 1.510 | 1.437 | 1.423 | 1.429 | 1.444  | 1.413  | 1.429 | 1.445 | 1.472 | 1.446 | 1.443 | 1.460 | 1.454 | 1.479       |       |
| 18/15         | 1.241 | 1.267       | 1.286 | 1.310 | 1.330 | 1.295 | 1.243 | 1.230 | 1.227 | 1.259  | 1.243  | 1.259 | 1.268 | 1.282 | 1.284 | 1.263 | 1.265 | 1.278 | 1.259       |       |
| 21/18         | 1.164 | 1.168       | 1.192 | 1.219 | 1.211 | 1.179 | 1.153 | 1.151 | 1.163 | 1.173  | 1.170  | 1.178 | 1.182 | 1.187 | 1.192 | 1.193 | 1.192 | 1.189 | 1.170       |       |
| 24/21         | 1.132 | 1.124       | 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       |       |
| 27/24         | 1.096 | 1.108       | 1.121 | 1.128 | 1.123 | 1.093 | 1.090 | 1.093 | 1.106 | 1.107  | 1.110  | 1.112 | 1.119 | 1.120 | 1.123 | 1.122 | 1.122 | 1.124 |             |       |
| 30/27         | 1.077 | 1.088       | 1.101 | 1.108 | 1.103 | 1.077 | 1.084 | 1.087 | 1.097 | 1.100  | 1.100  | 1.106 | 1.107 | 1.111 | 1.109 | 1.111 | 1.111 | 1.105 |             |       |
| 33/30         | 1.065 | 1.072       | 1.086 | 1.089 | 1.077 | 1.063 | 1.071 | 1.065 | 1.081 | 1.083  | 1.086  | 1.092 | 1.094 | 1.093 | 1.094 | 1.090 | 1.089 | 1.081 |             |       |
| 36/33         | 1.055 | 1.066       | 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 |             |       |
| 39/36         | 1.051 | 1.059       | 1.060 | 1.061 | 1.049 | 1.044 | 1.053 | 1.056 | 1.057 | 1.059  | 1.061  | 1.066 | 1.071 | 1.066 | 1.069 | 1.065 | 1.064 |       |             |       |
| 42/39         | 1.044 | 1.049       | 1.055 | 1.054 | 1.041 | 1.044 | 1.049 | 1.054 | 1.055 | 1.058  | 1.059  | 1.061 | 1.068 | 1.063 | 1.062 | 1.057 | 1.059 |       |             |       |
| 45/42         | 1.039 | 1.045       | 1.047 | 1.044 | 1.036 | 1.037 | 1.040 | 1.047 | 1.048 | 1.049  | 1.054  | 1.053 | 1.056 | 1.056 | 1.053 | 1.051 | 1.045 |       |             |       |
| 48/45         | 1.035 | 1.039       | 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 |       |             |       |
| 51/48         | 1.030 | 1.035       | 1.037 | 1.034 | 1.031 | 1.030 | 1.033 | 1.037 | 1.036 | 1.036  | 1.039  | 1.041 | 1.043 | 1.040 | 1.039 | 1.038 |       |       |             |       |
| 54/51         | 1.031 | 1.036       | 1.032 | 1.027 | 1.030 | 1.029 | 1.034 | 1.034 | 1.035 | 1.035  | 1.036  | 1.042 | 1.038 | 1.035 | 1.035 | 1.035 |       |       |             |       |
| 57/54         | 1.026 | 1.030       | 1.027 | 1.024 | 1.024 | 1.024 | 1.029 | 1.031 | 1.034 | 1.031  | 1.033  | 1.038 | 1.034 | 1.034 | 1.031 | 1.028 |       |       |             |       |
| 60/57         | 1.026 | 1.028       | 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 |       |       |             |       |
| 63/60         | 1.023 | 1.025       | 1.022 | 1.019 | 1.019 | 1.020 | 1.024 | 1.024 | 1.024 | 1.024  | 1.027  | 1.027 | 1.026 | 1.027 | 1.025 |       |       |       |             |       |
| 66/63         | 1.026 | 1.021       | 1.020 | 1.020 | 1.018 | 1.021 | 1.023 | 1.024 | 1.026 | 1.026  | 1.029  | 1.029 | 1.024 | 1.028 | 1.024 |       |       |       |             |       |
| 69/66         | 1.021 | 1.022       | 1.019 | 1.018 | 1.016 | 1.019 | 1.021 | 1.023 | 1.023 | 1.021  | 1.024  | 1.024 | 1.022 | 1.020 | 1.019 |       |       |       |             |       |
| 72/69         | 1.022 | 1.018       | 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 |       |       |       |             |       |
| 75/72         | 1.017 | 1.016       | 1.014 | 1.015 | 1.015 | 1.014 | 1.018 | 1.020 | 1.019 | 1.019  | 1.018  | 1.018 | 1.018 | 1.015 |       |       |       |       |             |       |
| 78/75         | 1.018 | 1.015       | 1.014 | 1.015 | 1.016 | 1.015 | 1.016 | 1.018 | 1.017 | 1.022  | 1.019  | 1.018 | 1.017 | 1.017 |       |       |       |       |             |       |
| 81/78         | 1.015 | 1.014       | 1.013 | 1.014 | 1.013 | 1.014 | 1.018 | 1.018 | 1.015 | 1.019  | 1.018  | 1.015 | 1.015 | 1.013 |       |       |       |       |             |       |
| 84/81         | 1.013 | 1.012       | 1.013 | 1.012 | 1.012 | 1.013 | 1.016 | 1.016 | 1.015 | 1.018  | 1.015  | 1.015 | 1.015 | 1.013 |       |       |       |       |             |       |
| 87/84         | 1.013 | 1.011       | 1.010 | 1.012 | 1.012 | 1.012 | 1.014 | 1.013 | 1.015 | 1.017  | 1.013  | 1.013 | 1.011 |       |       |       |       |       |             |       |
| 90/87         | 1.013 | 1.012       | 1.011 | 1.013 | 1.012 | 1.013 | 1.015 | 1.013 | 1.015 | 1.013  | 1.013  | 1.012 | 1.011 |       |       |       |       |       |             |       |
| 93/90         | 1.011 | 1.010       | 1.011 | 1.012 | 1.011 | 1.013 | 1.013 | 1.012 | 1.014 | 1.014  | 1.013  | 1.011 | 1.010 |       |       |       |       |       |             |       |
| 96/93         | 1.010 | 1.010       | 1.008 | 1.010 | 1.010 | 1.009 | 1.013 | 1.015 | 1.016 | 1.011  | 1.012  | 1.010 | 1.009 |       |       |       |       |       |             |       |

Source: WCIRB acident year experience calls

<sup>\*</sup> Paid medical loss development factors include the paid cost of medical cost containment programs for accident years 2011 and prior.

#### Reported Indemnity Claim Count Development

| Accident |              |       |         |       |       |       |       | Develop | ment    |         |         |         |                |         |         |         |
|----------|--------------|-------|---------|-------|-------|-------|-------|---------|---------|---------|---------|---------|----------------|---------|---------|---------|
| Year     | 12-24        | 24-36 | 36-48   | 48-60 | 60-72 | 72-84 | 84-96 | 96-108  | 108-120 | 120-132 | 132-144 | 144-156 | <u>156-168</u> | 168-180 | 180-192 | 192-204 |
| 1992     |              |       |         |       |       |       |       |         |         |         |         |         |                |         |         | 1.000   |
|          |              |       |         |       |       |       |       |         |         |         |         |         |                |         | 4 000   |         |
| 1993     |              |       |         |       |       |       |       |         |         |         |         |         |                | 4 000   | 1.000   | 1.000   |
| 1994     |              |       |         |       |       |       |       |         |         |         |         |         | 4.004          | 1.000   | 1.000   | 1.000   |
| 1995     |              |       |         |       |       |       |       |         |         |         |         | 4.004   | 1.001          | 1.000   | 1.001   | 1.000   |
| 1996     |              |       |         |       |       |       |       |         |         |         | 4 000   | 1.001   | 1.000          | 1.000   | 1.000   | 1.000   |
| 1997     |              |       |         |       |       |       |       |         |         |         | 1.000   | 1.000   | 1.000          | 1.000   | 1.000   | 1.000   |
| 1998     |              |       |         |       |       |       |       |         |         | 1.000   | 1.000   | 1.001   | 1.000          | 1.000   | 1.000   | 1.000   |
| 1999     |              |       |         |       |       |       |       | 4 000   | 1.000   | 1.000   | 1.001   | 1.000   | 1.000          | 1.000   | 1.000   | 1.000   |
| 2000     |              |       |         |       |       |       |       | 1.000   | 1.000   | 1.000   | 1.000   | 1.001   | 1.000          | 1.000   | 1.000   | 1.000   |
| 2001     |              |       |         |       |       |       | 0.999 | 1.000   | 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   | 1.000   |         |
| 2003     |              |       |         |       | 0.999 | 0.998 | 0.999 | 0.999   | 1.000   | 0.999   | 1.000   | 1.000   | 1.000          | 1.000   |         |         |
| 2004     |              |       |         | 1.001 | 0.999 | 1.000 | 0.999 | 0.999   | 0.999   | 1.000   | 1.000   | 1.000   | 1.000          |         |         |         |
| 2005     |              |       | 1.003   | 1.000 | 1.001 | 1.001 | 1.000 | 1.000   | 1.000   | 1.000   | 1.000   | 1.000   |                |         |         |         |
| 2006     |              | 1.011 | 1.004   | 1.002 | 1.001 | 1.000 | 1.001 | 1.001   | 1.001   | 1.000   | 1.000   |         |                |         |         |         |
| 2007     | 1.122        | 1.013 | 1.006   | 1.004 | 1.002 | 1.000 | 1.001 | 1.001   | 1.000   | 1.000   |         |         |                |         |         |         |
| 2008     | 1.145        | 1.022 | 1.011   | 1.005 | 1.003 | 1.001 | 1.001 | 1.001   | 1.000   |         |         |         |                |         |         |         |
| 2009     | 1.189        | 1.028 | 1.011   | 1.006 | 1.004 | 1.002 | 1.001 | 1.001   |         |         |         |         |                |         |         |         |
| 2010     | 1.215        | 1.029 | 1.011   | 1.006 | 1.003 | 1.002 | 1.001 |         |         |         |         |         |                |         |         |         |
| 2011     | 1.229        | 1.032 | 1.013   | 1.007 | 1.003 | 1.002 |       |         |         |         |         |         |                |         |         |         |
| 2012     | 1.244        | 1.034 | 1.013   | 1.006 | 1.004 |       |       |         |         |         |         |         |                |         |         |         |
| 2013     | 1.248        | 1.031 | 1.012   | 1.006 |       |       |       |         |         |         |         |         |                |         |         |         |
| 2014     | 1.241        | 1.032 | 1.012   |       |       |       |       |         |         |         |         |         |                |         |         |         |
| 2015     | 1.246        | 1.031 |         |       |       |       |       |         |         |         |         |         |                |         |         |         |
| 2016     | 1.258        |       |         |       |       |       |       |         |         |         |         |         |                |         |         |         |
|          |              |       |         |       |       |       |       |         |         |         |         |         |                |         |         |         |
|          |              |       |         |       |       |       |       | Latest  | Year    |         |         |         |                |         |         |         |
|          | Age-to-Age   |       | 4 0 4 0 | 4 000 |       | 4 000 | 4 004 |         | 4 000   | 4 000   | 4 000   | 4 000   | 4 000          |         |         | 4.000   |
|          | 1.258        | 1.031 | 1.012   | 1.006 | 1.004 | 1.002 | 1.001 | 1.001   | 1.000   | 1.000   | 1.000   | 1.000   | 1.000          | 1.000   | 1.000   | 1.000   |
|          | Age-to-Ultim |       | 4 007   | 4.045 | 4 000 | 4.005 | 4 000 |         |         | 4 004   | 4 004   | 4 004   | 4 004          |         |         |         |
|          | 1.332        | 1.059 | 1.027   | 1.015 | 1.009 | 1.005 | 1.003 | 1.002   | 1.001   | 1.001   | 1.001   | 1.001   | 1.001          | 1.001   | 1.001   | 1.001   |

#### Quarterly Reported Indemnity Claim Count Development Factors

| Accident |            |       |       |       |              |       | De    | velopment |       |       |       |       |       |       |       |
|----------|------------|-------|-------|-------|--------------|-------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|
| Year     | <u>3-6</u> | 6-9   | 9-12  | 12-15 | <u>15-18</u> | 18-21 | 21-24 | 24-27     | 27-30 | 30-33 | 33-36 | 36-39 | 39-42 | 42-45 | 45-48 |
| 2008     | 2.534      | 1.651 | 1.335 | 1.093 | 1.025        | 1.015 | 1.010 | 1.009     | 1.006 | 1.004 | 1.003 | 1.003 | 1.002 | 1.003 | 1.002 |
| 2009     | 2.695      | 1.687 | 1.385 | 1.111 | 1.036        | 1.021 | 1.012 | 1.009     | 1.007 | 1.007 | 1.005 | 1.004 | 1.003 | 1.002 | 1.002 |
| 2010     | 2.708      | 1.710 | 1.409 | 1.126 | 1.038        | 1.022 | 1.016 | 1.011     | 1.008 | 1.005 | 1.005 | 1.003 | 1.004 | 1.003 | 1.001 |
| 2011     | 2.712      | 1.742 | 1.425 | 1.125 | 1.042        | 1.026 | 1.018 | 1.010     | 1.010 | 1.006 | 1.005 | 1.004 | 1.003 | 1.003 | 1.002 |
| 2012     | 2.768      | 1.732 | 1.422 | 1.124 | 1.050        | 1.028 | 1.018 | 1.012     | 1.009 | 1.007 | 1.004 | 1.004 | 1.003 | 1.003 | 1.002 |
| 2013     | 2.830      | 1.743 | 1.422 | 1.139 | 1.045        | 1.027 | 1.016 | 1.010     | 1.009 | 1.007 | 1.004 | 1.004 | 1.004 | 1.002 | 1.002 |
| 2014     | 2.791      | 1.726 | 1.425 | 1.132 | 1.046        | 1.025 | 1.017 | 1.012     | 1.010 | 1.005 | 1.004 | 1.004 | 1.004 | 1.002 | 1.002 |
| 2015     | 2.819      | 1.747 | 1.417 | 1.138 | 1.048        | 1.024 | 1.016 | 1.013     | 1.008 | 1.005 | 1.003 |       |       |       |       |
| 2016     | 2.730      | 1.720 | 1.413 | 1.140 | 1.046        | 1.027 | 1.017 |           |       |       |       |       |       |       |       |
| 2017     | 2.823      | 1.690 | 1.413 |       |              |       |       |           |       |       |       |       |       |       |       |

#### Reported Indemnity Claim Settlement Ratios

| Accident |           |           |           |           |           |           | E         | Evaluated | as of (in | months): |       |            |            |            |            |            |       |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-------|------------|------------|------------|------------|------------|-------|
| Year     | <u>12</u> | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | <u>84</u> | <u>96</u> | 108       | 120      | 132   | <u>144</u> | <u>156</u> | <u>168</u> | <u>180</u> | <u>192</u> | 204   |
| 1992     |           |           |           |           |           |           |           |           |           |          |       |            |            |            |            |            | 99.2% |
| 1993     |           |           |           |           |           |           |           |           |           |          |       |            |            |            |            | 98.9%      | 99.0% |
| 1994     |           |           |           |           |           |           |           |           |           |          |       |            |            |            | 98.6%      | 98.8%      | 98.9% |
| 1995     |           |           |           |           |           |           |           |           |           |          |       |            |            | 98.1%      | 98.4%      | 98.5%      | 98.7% |
| 1996     |           |           |           |           |           |           |           |           |           |          |       |            | 97.7%      | 98.0%      | 98.2%      | 98.4%      | 98.6% |
| 1997     |           |           |           |           |           |           |           |           |           |          |       | 97.1%      | 97.5%      | 97.7%      | 98.0%      | 98.2%      | 98.4% |
| 1998     |           |           |           |           |           |           |           |           |           |          | 96.2% | 96.8%      | 97.1%      | 97.5%      | 97.8%      | 98.0%      | 98.2% |
| 1999     |           |           |           |           |           |           |           |           |           | 95.3%    | 96.1% | 96.6%      | 97.0%      | 97.3%      | 97.7%      | 98.0%      | 98.1% |
| 2000     |           |           |           |           |           |           |           |           | 93.5%     | 94.7%    | 95.5% | 96.2%      | 96.6%      | 97.2%      | 97.5%      | 97.8%      | 98.0% |
| 2001     |           |           |           |           |           |           |           | 90.4%     | 92.3%     | 93.6%    | 94.5% | 95.3%      | 96.1%      | 96.6%      | 97.0%      | 97.4%      | 97.7% |
| 2002     |           |           |           |           |           |           | 88.2%     | 90.8%     | 92.4%     | 93.7%    | 94.7% | 95.8%      | 96.4%      | 96.9%      | 97.4%      | 97.7%      |       |
| 2003     |           |           |           |           |           | 84.8%     | 88.4%     | 90.6%     | 92.4%     | 93.7%    | 95.2% | 95.9%      | 96.4%      | 97.0%      | 97.5%      |            |       |
| 2004     |           |           |           |           | 80.8%     | 85.3%     | 88.3%     | 90.6%     | 92.4%     | 94.3%    | 95.4% | 96.1%      | 96.8%      | 97.3%      |            |            |       |
| 2005     |           |           |           | 74.8%     | 81.3%     | 85.5%     | 88.5%     | 90.8%     | 93.1%     | 94.5%    | 95.5% | 96.4%      | 97.0%      |            |            |            |       |
| 2006     |           |           | 64.3%     | 74.3%     | 81.0%     | 85.2%     | 88.3%     | 91.2%     | 93.0%     | 94.3%    | 95.5% | 96.4%      |            |            |            |            |       |
| 2007     |           | 49.9%     | 63.6%     | 73.6%     | 80.3%     | 84.7%     | 88.8%     | 91.4%     | 93.2%     | 94.8%    | 95.9% |            |            |            |            |            |       |
| 2008     | 27.6%     | 48.2%     | 61.8%     | 72.1%     | 79.2%     | 85.0%     | 88.8%     | 91.5%     | 93.6%     | 95.0%    |       |            |            |            |            |            |       |
| 2009     | 26.7%     | 46.3%     | 60.0%     | 70.7%     | 79.1%     | 84.6%     | 88.6%     | 91.7%     | 93.7%     |          |       |            |            |            |            |            |       |
| 2010     | 26.9%     | 46.8%     | 60.7%     | 72.6%     | 80.6%     | 86.0%     | 90.1%     | 92.8%     |           |          |       |            |            |            |            |            |       |
| 2011     | 27.6%     | 47.2%     | 62.2%     | 73.8%     | 81.7%     | 87.1%     | 90.9%     |           |           |          |       |            |            |            |            |            |       |
| 2012     | 27.6%     | 48.1%     | 63.5%     | 75.1%     | 83.0%     | 88.3%     |           |           |           |          |       |            |            |            |            |            |       |
| 2013     | 27.1%     | 48.6%     | 64.7%     | 76.8%     | 84.7%     |           |           |           |           |          |       |            |            |            |            |            |       |
| 2014     | 26.9%     | 49.7%     | 66.2%     | 78.2%     |           |           |           |           |           |          |       |            |            |            |            |            |       |
| 2015     | 27.4%     | 51.2%     | 68.6%     |           |           |           |           |           |           |          |       |            |            |            |            |            |       |
| 2016     | 29.1%     | 54.0%     |           |           |           |           |           |           |           |          |       |            |            |            |            |            |       |
| 2017     | 31.1%     |           |           |           |           |           |           |           |           |          |       |            |            |            |            |            |       |

#### **Estimated Ultimate Indemnity Claim Settlement Ratios**

| Accident |           |           |           |           |           |           | E     | valuated  | as of (in  | months): |       |            |            |            |       |       |       |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|-----------|------------|----------|-------|------------|------------|------------|-------|-------|-------|
| Year     | <u>12</u> | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84    | <u>96</u> | <u>108</u> | 120      | 132   | <u>144</u> | <u>156</u> | <u>168</u> | 180   | 192   | 204   |
| 1992     |           |           |           |           |           |           |       |           |            |          |       |            |            |            |       |       | 99.1% |
| 1993     |           |           |           |           |           |           |       |           |            |          |       |            |            |            |       | 98.8% | 98.9% |
| 1994     |           |           |           |           |           |           |       |           |            |          |       |            |            |            | 98.3% | 98.5% | 98.7% |
| 1995     |           |           |           |           |           |           |       |           |            |          |       |            |            | 97.8%      | 98.0% | 98.3% | 98.5% |
| 1996     |           |           |           |           |           |           |       |           |            |          |       |            | 97.4%      | 97.8%      | 98.0% | 98.2% | 98.4% |
| 1997     |           |           |           |           |           |           |       |           |            |          |       | 96.8%      | 97.2%      | 97.5%      | 97.7% | 97.9% | 98.2% |
| 1998     |           |           |           |           |           |           |       |           |            |          | 95.9% | 96.5%      | 96.9%      | 97.3%      | 97.5% | 97.8% | 98.0% |
| 1999     |           |           |           |           |           |           |       |           |            | 94.9%    | 95.7% | 96.3%      | 96.7%      | 97.1%      | 97.5% | 97.8% | 98.0% |
| 2000     |           |           |           |           |           |           |       |           | 93.2%      | 94.4%    | 95.2% | 95.9%      | 96.4%      | 97.0%      | 97.4% | 97.6% | 97.9% |
| 2001     |           |           |           |           |           |           |       | 90.3%     | 92.1%      | 93.4%    | 94.3% | 95.1%      | 95.9%      | 96.4%      | 96.8% | 97.2% | 97.6% |
| 2002     |           |           |           |           |           |           | 88.2% | 90.8%     | 92.3%      | 93.6%    | 94.6% | 95.7%      | 96.3%      | 96.8%      | 97.2% | 97.6% |       |
| 2003     |           |           |           |           |           | 85.1%     | 88.5% | 90.7%     | 92.4%      | 93.7%    | 95.0% | 95.8%      | 96.3%      | 96.9%      | 97.4% |       |       |
| 2004     |           |           |           |           | 81.0%     | 85.4%     | 88.4% | 90.7%     | 92.4%      | 94.3%    | 95.3% | 96.0%      | 96.7%      | 97.2%      |       |       |       |
| 2005     |           |           |           | 74.6%     | 81.1%     | 85.4%     | 88.5% | 90.7%     | 93.0%      | 94.4%    | 95.5% | 96.3%      | 96.9%      |            |       |       |       |
| 2006     |           |           | 63.6%     | 73.8%     | 80.6%     | 84.9%     | 88.0% | 91.0%     | 92.9%      | 94.2%    | 95.5% | 96.3%      |            |            |       |       |       |
| 2007     |           | 48.4%     | 62.6%     | 72.9%     | 79.8%     | 84.4%     | 88.6% | 91.2%     | 93.0%      | 94.7%    | 95.8% |            |            |            |       |       |       |
| 2008     | 23.0%     | 46.0%     | 60.4%     | 71.2%     | 78.5%     | 84.6%     | 88.5% | 91.2%     | 93.5%      | 94.9%    |       |            |            |            |       |       |       |
| 2009     | 21.3%     | 43.9%     | 58.5%     | 69.7%     | 78.4%     | 84.1%     | 88.3% | 91.6%     | 93.6%      |          |       |            |            |            |       |       |       |
| 2010     | 21.0%     | 44.3%     | 59.1%     | 71.5%     | 79.9%     | 85.5%     | 89.8% | 92.6%     |            |          |       |            |            |            |       |       |       |
| 2011     | 21.2%     | 44.5%     | 60.6%     | 72.7%     | 81.1%     | 86.7%     | 90.6% |           |            |          |       |            |            |            |       |       |       |
| 2012     | 20.9%     | 45.3%     | 61.8%     | 74.0%     | 82.3%     | 87.9%     |       |           |            |          |       |            |            |            |       |       |       |
| 2013     | 20.5%     | 45.9%     | 63.0%     | 75.7%     | 84.0%     |           |       |           |            |          |       |            |            |            |       |       |       |
| 2014     | 20.5%     | 46.9%     | 64.4%     | 77.1%     |           |           |       |           |            |          |       |            |            |            |       |       |       |
| 2015     | 20.8%     | 48.3%     | 66.8%     |           |           |           |       |           |            |          |       |            |            |            |       |       |       |
| 2016     | 21.9%     | 51.0%     |           |           |           |           |       |           |            |          |       |            |            |            |       |       |       |
| 2017     | 23.4%     |           |           |           |           |           |       |           |            |          |       |            |            |            |       |       |       |

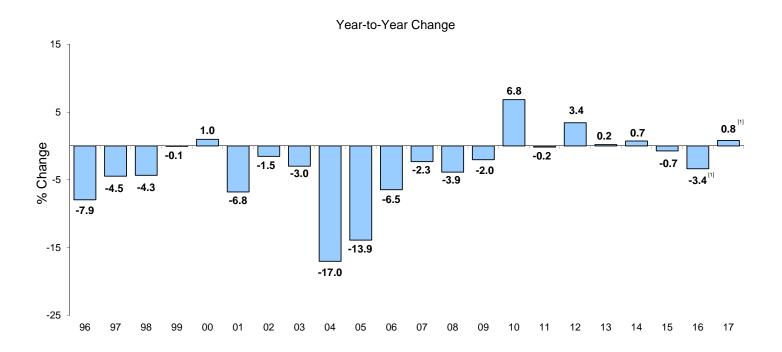
#### **Quarterly Ultimate Settlement Ratios**

| 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> | 48    |
| 2008        | 0.8%       | 5.5%     | 13.3%    | 23.0%     | 31.6%        | 37.8%     | 42.2%        | 46.0%       | 49.7%      | 53.3%     | 56.8%     | 60.3%     | 63.2%     | 65.9%     | 68.5%     | 70.9% |
| 2009        | 0.7%       | 4.7%     | 12.2%    | 21.2%     | 29.6%        | 35.6%     | 40.0%        | 43.9%       | 47.6%      | 51.2%     | 55.0%     | 58.5%     | 61.5%     | 64.5%     | 67.0%     | 69.6% |
| 2010        | 0.6%       | 4.7%     | 11.8%    | 21.0%     | 29.8%        | 35.8%     | 40.1%        | 44.4%       | 48.2%      | 52.2%     | 55.7%     | 59.2%     | 62.4%     | 65.8%     | 68.8%     | 71.7% |
| 2011        | 0.8%       | 5.1%     | 12.0%    | 21.3%     | 29.7%        | 35.9%     | 40.4%        | 44.8%       | 48.7%      | 53.0%     | 56.9%     | 60.9%     | 64.2%     | 67.3%     | 70.3%     | 73.0% |
| 2012        | 0.8%       | 5.0%     | 12.1%    | 21.2%     | 29.5%        | 36.0%     | 40.8%        | 45.6%       | 49.8%      | 54.1%     | 58.4%     | 62.3%     | 65.7%     | 68.9%     | 71.8%     | 74.5% |
| 2013        | 0.9%       | 5.1%     | 11.8%    | 20.9%     | 29.3%        | 35.9%     | 41.3%        | 46.3%       | 50.9%      | 55.4%     | 59.5%     | 63.5%     | 67.0%     | 70.4%     | 73.3%     | 76.0% |
| 2014        | 0.7%       | 4.7%     | 11.6%    | 20.7%     | 29.4%        | 36.2%     | 41.9%        | 47.1%       | 51.8%      | 56.3%     | 60.6%     | 64.6%     | 68.0%     | 71.5%     | 74.4%     | 77.2% |
| 2015        | 0.8%       | 4.7%     | 12.0%    | 20.9%     | 30.1%        | 37.4%     | 43.0%        | 48.3%       | 53.4%      | 58.5%     | 62.8%     | 66.8%     |           |           |           |       |
| 2016        | 0.8%       | 5.1%     | 12.3%    | 21.9%     | 31.6%        | 39.4%     | 45.4%        | 51.1%       |            |           |           |           |           |           |           |       |
| 2017        | 0.9%       | 5.6%     | 13.4%    | 24.0%     |              |           |              |             |            |           |           |           |           |           |           |       |
|             |            |          |          |           |              |           |              |             |            |           |           |           |           |           |           |       |
| Accident    |            |          |          |           |              |           | Quarterly In | cremental   | Change     |           |           |           |           |           |           |       |
| Year        | <u>3-6</u> | 6-9      | 9-12     | 12-15     | <u>15-18</u> | 18-21     | 21-24        | 24-27       | 27-30      | 30-33     | 33-36     | 36-39     | 39-42     | 42-45     | 45-48     |       |
| 2008        | 4.7%       | 7.8%     | 9.6%     | 8.6%      | 6.3%         | 4.4%      | 3.8%         | 3.6%        | 3.7%       | 3.5%      | 3.5%      | 2.9%      | 2.7%      | 2.6%      | 2.4%      |       |
| 2009        | 4.0%       | 7.5%     | 9.0%     | 8.3%      | 6.0%         | 4.4%      | 4.0%         | 3.7%        | 3.6%       | 3.7%      | 3.5%      | 3.0%      | 3.0%      | 2.5%      | 2.5%      |       |
| 2010        | 4.1%       | 7.1%     | 9.2%     | 8.8%      | 6.0%         | 4.4%      | 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%     | 8.4%      | 6.2%         | 4.5%      | 4.4%         | 3.9%        | 4.3%       | 3.9%      | 4.0%      | 3.3%      | 3.0%      | 3.0%      | 2.7%      |       |
| 2012        | 4.2%       | 7.0%     | 9.1%     | 8.3%      | 6.5%         | 4.8%      | 4.9%         | 4.2%        | 4.3%       | 4.2%      | 3.9%      | 3.4%      | 3.2%      | 2.9%      | 2.7%      |       |
| 2013        | 4.1%       | 6.7%     | 9.1%     | 8.4%      | 6.6%         | 5.4%      | 5.0%         | 4.6%        | 4.5%       | 4.1%      | 3.9%      | 3.6%      | 3.3%      | 2.9%      | 2.8%      |       |
| 2014        | 4.0%       | 6.9%     | 9.0%     | 8.8%      | 6.8%         | 5.7%      | 5.1%         | 4.8%        | 4.5%       | 4.3%      | 4.0%      | 3.4%      | 3.5%      | 2.9%      | 2.8%      |       |
| 2015        | 3.9%       | 7.3%     | 8.9%     | 9.2%      | 7.3%         | 5.7%      | 5.3%         | 5.1%        | 5.1%       | 4.3%      | 4.0%      |           |           |           |           |       |
| 2016        | 4.2%       | 7.3%     | 9.6%     | 9.7%      | 7.8%         | 6.0%      | 5.8%         |             |            |           |           |           |           |           |           |       |
| 2017        | 4.8%       | 7.8%     | 10.6%    |           |              |           |              |             |            |           |           |           |           |           |           |       |

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 85% to 97% of the total California workers' compensation insured market measured using 2017 earned premium levels).

Source: WCIRB quarterly calls for experience

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



<sup>[1]</sup> The 2015-2016 estimate is based on partial year unit statistical data. The 2016-2017 estimates is based on comparison of claim counts based on WCIRB accident year experience as of December 31, 2017 relative to the estimated change in statewide employment. Prior years are based on unit statistical data.

### Item AC18-03-03 Impact of SB 1160 & AB 1244 on Loss Development

Senate Bill No. 1160 (SB 1160), enacted in 2016, provides for a number of provisions related to liens including a declaration under penalty of perjury required for all liens, restrictions on assigning liens to a third party, and a stay on liens from providers indicted for fraud. Assembly Bill No. 1244 (AB 1244) provides for a special process to consolidate liens from providers convicted of fraud. These provisions not only impact new lien filings but also outstanding liens. As a result, the lien provisions of SB 1160 and AB 1244 could significantly impact loss development patterns on older years and the loss development projections for more recent years. Staff's analysis of the potential impact of SB 1160 and AB 1244 on development is summarized below.

#### Impact on Age-to-Age Factors

In July of 2017, the Division of Workers' Compensation (DWC) dismissed approximately 292,000 outstanding liens that did not have declarations filed by July 1, 2017. Although some of these liens may have been settled prior to July of 2017, a significant number have been dismissed on claims from multiple accident years. In addition, information from the DWC suggests that several thousand outstanding liens from providers indicted for fraud are currently stayed while others have been consolidated and dismissed. As a result, paid medical development emerging after approximately mid-2017 would reflect lower lien payments than what underlies paid medical development prior to mid-2017. Given that lien payments have been a significant proportion of paid medical costs, if no adjustment is made, age-to-age factors computed after the second quarter of 2017 may be distorted.

As discussed at the December 6, 2017 meeting, medical loss development emerging in the third quarter of 2017 was significantly lower than the prior quarters. Some of this lower loss development may be related to the recent lien dismissals. Staff analyzed a potential adjustment to the paid medical age-to-age factors applied to the third quarter of 2017 and later that corrects for the change in the volume of lien settlements due to SB 1160. The adjustment is similar to the WCIRB's standard approach for correcting age-to-age paid medical development for other "date of service" medical reforms such as those currently applied for Senate Bill No. 863 (SB 863) and the changes to the physician fee schedule.

Exhibit 1 summarizes by accident year the liens dismissed by the DWC in July of 2017. In order to estimate the proportion of dollars that was dismissed, the demand amounts from the dismissed liens are compared to the demand amounts for all outstanding liens as of January 1, 2017 (the effective date of SB 1160).<sup>2</sup> As discussed at the December 6, 2017 meeting, a preliminary review of the dismissed liens suggested that some of them may have already been settled. Staff linked the provider information from the dismissed liens to provider information on lien payments reported in the WCIRB's Medical Data Call (MDC) transaction data to estimate the proportion that were settled. Staff also performed this process to all liens filed between January 1, 2013 and December 31, 2016 to estimate the total number of outstanding liens as of January 1, 2017. In both cases (dismissed liens and all liens), approximately 20% of the liens were estimated to be settled. This proportion is reflected in Exhibit 1.

Although Exhibit 1 shows lien demand amounts and not settled amounts, staff assumed the ratio of settlement amount to demand amount is consistent between the dismissed liens and all liens, resulting in the same proportions when using demand amounts.<sup>3</sup> As shown in Exhibit 1, 18% to 26% of outstanding lien dollars are estimated to have been dismissed for accident years 2010 through 2015.

<sup>&</sup>lt;sup>1</sup> See Item AC17-12-02 of the December 6, 2017 meeting for more information on the liens dismissed by the DWC.

<sup>&</sup>lt;sup>2</sup> Only liens filed after January 1, 2013 are reflected in Exhibit 1 since only liens subject to the SB 863 filing fee (post-1/1/2013 filings) were subject to the declaration.

<sup>&</sup>lt;sup>3</sup> Liens typically settle for 25% of the demand amount.

Exhibit 2 shows lien payments as a proportion of total incremental medical paid from MDC data by development period. MDC data includes medical services (including liens) but not other types of medical payments such as lump sum settlements and Medicare-related payments. In order to estimate lien payments as a proportion of total medical paid, they were adjusted downward by the estimated proportion of medical payments not included in MDC data based on the WCIRB's Report on 2016 California Workers' Compensation Losses and Expenses.<sup>4</sup>

Exhibit 3 shows the adjustment made to age-to-age factors based on December 31, 2017 experience. All pre-July 1, 2017 payments are restated to exclude the dismissed liens based on the dismissed lien proportion of total liens from Exhibit 1 and liens as a proportion of incremental medical paid from Exhibit 2. Although the adjustment results in modest increases in the medical age-to-age factors, it is only based on two quarters of post-July 1, 2017 development and its magnitude should grow as additional quarters emerge. Staff recommends making this adjustment to the 36-month through 108-month paid medical age-to-age factors (where lien payments have been most significant) and continuing to monitor emerging lien payment data.

#### Impact on Cumulative Loss Development Projections

The adjustment to age-to-age development discussed above only corrects for a potential distortion in paid medical development resulting from the lower lien payments emerging after July of 2017. The adjustment does not address the impact of the reduced volume of liens on future medical loss development. It also does not address the notion that reduced lien filings for more recent accident years may result in a lower loss development projection, which is primarily based on development of older years that include higher levels of lien filings. As shown in Exhibit M9.2 of Item AC18-03-01 of this Agenda, lien filings in 2017 are at least 40% below the pre-SB 1160 level. Liens not only incur significant costs to defend and settle, but also have prolonged claim durations. This information suggests that some adjustment to the loss development projections for the decrease in lien activity may be appropriate.

Exhibit 4 shows a comparison of cumulative age-to-240 paid medical development with and without lien payments based on MDC data and the average of the development for the most recent three calendar years. For example, at 12 months projected paid medical development would be 9% lower (4.424 compared to 4.876) if there were no lien payments. The WCIRB's prospective estimate for SB 1160 and AB 1244 reflected a 10% reduction in lien filings. The emerging data through the fourth quarter of 2017 suggests closer to a 40% reduction in lien filings. The impact of both of these lien filing assumptions on the medical loss development projection is shown in Exhibit 4. For example, a 40% reduction in lien filings indicates a 3.7% reduction in projected medical loss development after 12 months. Given the significant impact lien payments have on projected medical loss development, staff recommends making this adjustment to the paid medical loss development projection for accident years currently aged 72 months and earlier (i.e., accident years 2012 and later). Adjustments to other quarterly periods (i.e., 15 months) would be interpolated based on the information shown in Exhibit 4.6

Table 1 shows the estimated net impact of the all the adjustments discussed above on accident years 2012 through 2017. Given that these adjustments account for the impact of SB 1160 and AB 1244 in the medical loss development projection, staff does not recommend also reflecting the impact in the medical on-level factors for these accident years, as this would double-count the impact of the reforms.

<sup>&</sup>lt;sup>4</sup> These included medical payments made directly to injured workers, Medicare set-aside payments, capitated medical payments, and reimbursements to Medicare. The total proportion was also adjusted to remove medical cost containment program payments. <sup>5</sup> In the decision on the January 1, 2018 Pure Premium Rate Filing, the California Department of Insurance reflected a 40% reduction in lien filings resulting from SB 1160 and AB 1244.

<sup>&</sup>lt;sup>6</sup> This adjustment and the process to interpolate for other quarterly periods is similar to the adjustments currently applied to cumulative paid indemnity development for the permanent disability changes from SB 863.

Table 1: Impact of SB 1160 Adjustments to Paid Medical Development

|          | past 5. <b>5</b> | <b>–</b>          | o to i ala illoaloai | - o . o. o p o |
|----------|------------------|-------------------|----------------------|----------------|
|          |                  |                   | Impact of Future     |                |
|          |                  | Impact of Lien    | Lien Filings         |                |
| Accident | Age at           | Dismissals        | (Based on a          | Estimated      |
| Year     | 12/31/17         | (Age-to-Age Adj.) | 40% Reduction)       | Net Impact     |
| 2012     | 72               | +0.3%             | -0.6%                | -0.3%          |
| 2013     | 60               | +0.4%             | -1.1%                | -0.7%          |
| 2014     | 48               | +0.6%             | -1.9%                | -1.3%          |
| 2015     | 36               | +0.8%             | -2.7%                | -1.9%          |
| 2016     | 24               | +0.9%             | -3.4%                | -2.5%          |
| 2017     | 12               | +0.9%             | -3.7%                | -2.8%          |

#### ALAE Development Impact

As discussed in prior studies and pure premium rate filings, the administrative and legal cost incurred in defending and settling liens can often be greater than the lien settlement amount. As a result, the changes to lien filings resulting from SB 1160 and AB 1244 could significantly impact paid ALAE development and calendar year paid ULAE. Sufficient data to derive an adjustment to paid ALAE development similar to what is discussed for paid medical above is not available. However, assuming that the relative impact to paid ALAE is similar to that of paid medical may be reasonable. Staff plans to review the impact of these reforms on LAE costs with the Committee at the next meeting when the update to ALAE experience as of December 31, 2017 is available.

### Estimation of Proportion of Liens Dismissed by Accident Year

|      | (1)            | (2)         | (3)        | (4)            | (5)                | (6)            |
|------|----------------|-------------|------------|----------------|--------------------|----------------|
|      |                |             |            |                | Adj. All           |                |
|      | Dismissed Lien | All Lien    |            | Adj. Dismissed | (Outstanding) Lien |                |
|      | Demand         | Demand      | Lien       | Lien Demand    | Demand Amounts     | Lien Dismissal |
|      | Amounts        | Amounts     | Settlement | Amounts        | (in 000's)         | Rate           |
| AY   | (in 000's)     | (in 000's)  | Rate       | (1)x(1.0-(3))  | (2)x(1.0-(3))      | (4)/(5)        |
| 1998 | \$9,193        | \$39,387    | 20%        | \$7,354        | \$31,510           | 23.3%          |
| 1999 | \$9,511        | \$48,021    | 20%        | \$7,609        | \$38,417           | 19.8%          |
| 2000 | \$13,307       | \$58,709    | 20%        | \$10,646       | \$46,967           | 22.7%          |
| 2001 | \$17,244       | \$78,784    | 20%        | \$13,795       | \$63,027           | 21.9%          |
| 2002 | \$21,455       | \$91,990    | 20%        | \$17,164       | \$73,592           | 23.3%          |
| 2003 | \$24,979       | \$114,087   | 20%        | \$19,983       | \$91,270           | 21.9%          |
| 2004 | \$27,304       | \$115,737   | 20%        | \$21,843       | \$92,590           | 23.6%          |
| 2005 | \$29,645       | \$134,294   | 20%        | \$23,716       | \$107,435          | 22.1%          |
| 2006 | \$42,752       | \$177,076   | 20%        | \$34,202       | \$141,660          | 24.1%          |
| 2007 | \$60,630       | \$260,740   | 20%        | \$48,504       | \$208,592          | 23.3%          |
| 2008 | \$84,995       | \$362,536   | 20%        | \$67,996       | \$290,029          | 23.4%          |
| 2009 | \$132,873      | \$532,377   | 20%        | \$106,298      | \$425,901          | 25.0%          |
| 2010 | \$213,075      | \$837,173   | 20%        | \$170,460      | \$669,739          | 25.5%          |
| 2011 | \$327,431      | \$1,225,207 | 20%        | \$261,945      | \$980,166          | 26.7%          |
| 2012 | \$447,547      | \$1,706,675 | 20%        | \$358,037      | \$1,365,340        | 26.2%          |
| 2013 | \$426,611      | \$1,751,002 | 20%        | \$341,289      | \$1,400,802        | 24.4%          |
| 2014 | \$265,228      | \$1,190,858 | 20%        | \$212,182      | \$952,687          | 22.3%          |
| 2015 | \$61,327       | \$334,228   | 20%        | \$49,062       | \$267,383          | 18.3%          |
| 2016 | \$2,053        | \$24,161    | 20%        | \$1,643        | \$19,329           | 8.5%           |

<sup>(1)</sup> Based on approximately 292,000 liens dismissed by the DWC in July of 2017.

Source: DWC EAMS Lien Data.

<sup>(2)</sup> Based on all liens filed between January 1, 2013 and December 31, 2016 (i.e., liens subject to the SB 1160 declaration for outstanding liens).

<sup>(3)</sup> Based on linking DWC lien information to WCIRB Medical Data Call (MDC) data. Settlement rate represents the proportion of liens with a lien payment in MDC data. The settlement rates for the "Dismissed Liens" and "All Liens" were found to be consistent. For consistency, the same proportion is ued for all accident years.

### **Percentage of Total Medical Payments for Liens**

|         | (1)               | (2)                   | (3)                |  |  |  |  |  |  |
|---------|-------------------|-----------------------|--------------------|--|--|--|--|--|--|
|         |                   |                       | % of Total Medical |  |  |  |  |  |  |
|         | % of MDC Paid for | % of Medical Payments | Payments for Liens |  |  |  |  |  |  |
| Age     | Liens             | not in MDC            | (1)x(1-(2))        |  |  |  |  |  |  |
| 228-240 | 3.2%              | 34%                   | 2.1%               |  |  |  |  |  |  |
| 216-228 | 3.4%              | 34%                   | 2.3%               |  |  |  |  |  |  |
| 204-216 | 3.9%              | 34%                   | 2.6%               |  |  |  |  |  |  |
| 192-204 | 4.3%              | 34%                   | 2.8%               |  |  |  |  |  |  |
| 180-192 | 6.9%              | 34%                   | 4.6%               |  |  |  |  |  |  |
| 168-180 | 5.8%              | 34%                   | 3.8%               |  |  |  |  |  |  |
| 156-168 | 8.0%              | 34%                   | 5.3%               |  |  |  |  |  |  |
| 144-156 | 8.6%              | 34%                   | 5.7%               |  |  |  |  |  |  |
| 132-144 | 10.2%             | 34%                   | 6.7%               |  |  |  |  |  |  |
| 120-132 | 12.1%             | 34%                   | 8.0%               |  |  |  |  |  |  |
| 108-120 | 13.6%             | 34%                   | 8.9%               |  |  |  |  |  |  |
| 96-108  | 16.7%             | 34%                   | 11.0%              |  |  |  |  |  |  |
| 84-96   | 19.0%             | 34%                   | 12.5%              |  |  |  |  |  |  |
| 72-84   | 20.6%             | 34%                   | 13.6%              |  |  |  |  |  |  |
| 60-72   | 21.8%             | 34%                   | 14.4%              |  |  |  |  |  |  |
| 48-60   | 20.9%             | 34%                   | 13.8%              |  |  |  |  |  |  |
| 36-48   | 16.3%             | 34%                   | 10.7%              |  |  |  |  |  |  |
| 24-36   | 7.6%              | 34%                   | 5.0%               |  |  |  |  |  |  |
| 12-24   | 1.3%              | 34%                   | 0.9%               |  |  |  |  |  |  |

<sup>(1)</sup> Based on Medical Data Call (MDC) data for calendar year 2016.(2) Reflects payments made directly to injured workers and Medicare-related payments not included in MDC data, based on the WCIRB's Report on 2016 Losses and Expenses. Also excludes MCCP costs.

Medical Age-to-Age Factors Adjusted for Dismissed Liens

| (9) | Adjustment            | Impact<br>(5)-(1)          | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000  | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 | 0.000 |
|-----|-----------------------|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|-------|-------|-------|-------|-------|-------|-------|
| (5) | Age-to-Age            | Factor Adj. for            | 1.009   | 1.009   | 1.009   | 1.011   | 1.011   | 1.013   | 1.015   | 1.019   | 1.021   | 1.022   | 1.027   | 1.033  | 1.043 | 1.059 | 1.088 | 1.132 | 1.228 | 1.440 | 2.480 |
| (4) | Estimated % for       | Dismissed Liens            | 0.49%   | 0.45%   | 0.58%   | 0.62%   | 1.06%   | 0.84%   | 1.24%   | 1.25%   | 1.62%   | 1.86%   | 2.10%   | 2.75%  | 3.19% | 3.63% | 3.78% | 3.36% | 2.39% | 0.92% | 0.07% |
| (3) | % of Total<br>Medical | Payments for               | 2.1%    | 2.3%    | 2.6%    | 2.8%    | 4.6%    | 3.8%    | 2.3%    | 2.7%    | %2'9    | 8.0%    | 8.9%    | 11.0%  | 12.5% | 13.6% | 14.4% | 13.8% | 10.7% | 2.0%  | %6.0  |
| (2) |                       | DWC Lien<br>Dismissal Rate | 23.3%   | 19.8%   | 22.7%   | 21.9%   | 23.3%   | 21.9%   | 23.6%   | 22.1%   | 24.1%   | 23.3%   | 23.4%   | 25.0%  | 25.5% | 26.7% | 26.2% | 24.4% | 22.3% | 18.3% | 8.5%  |
| (1) | Unadjusted            | Age-to-Age<br>Factor       | 1.009   | 1.009   | 1.009   | 1.011   | 1.011   | 1.013   | 1.015   | 1.019   | 1.020   | 1.022   | 1.027   | 1.032  | 1.042 | 1.058 | 1.087 | 1.130 | 1.226 | 1.439 | 2.480 |
|     |                       | Ą                          | 228-240 | 216-228 | 204-216 | 192-204 | 180-192 | 168-180 | 156-168 | 144-156 | 132-144 | 120-132 | 108-120 | 96-108 | 84-96 | 72-84 | 60-72 | 48-60 | 36-48 | 24-36 | 12-24 |
|     |                       | ۸                          | 1998    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    | 2005    | 2006    | 2007    | 2008    | 2009   | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  |

(1) Based on December 31, 2017 experience.
(2) See Exhibit 1, Column (6).
(3) See Exhibit 2, Column (3).
(5) All medical payments made prior to July 1, 2017 have been adjusted to exclude the proportion shown in Column (4) to restate these payments at the post-dismissal level.
Source: WCIRB quarterly calls for experience.

Adjustment to Cumulative Medical Development Factors for SB 1160 Lien Reforms

| (7)<br>Age-to-240 | Factor (w/               | 40% Adj.)        | (4)x(6)            | 1.009   | 1.018   | 1.027   | 1.038   | 1.050   | 1.064   | 1.080   | 1.100   | 1.123   | 1.147   | 1.178   | 1.215  | 1.265  | 1.335  | 1.446  | 1.625  | 1.978  | 2.828  | 6.993  |
|-------------------|--------------------------|------------------|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| (9)               | Age-to-240               | Dismissed        | Lien Adj.)         | 1.009   | 1.018   | 1.026   | 1.038   | 1.049   | 1.063   | 1.079   | 1.099   | 1.122   | 1.147   | 1.178   | 1.217  | 1.269  | 1.344  | 1.463  | 1.655  | 2.033  | 2.928  | 7.262  |
| (5)               | Age-to-Age<br>Factor (w/ | Dismissed        | Lien Adj.)         | 1.009   | 1.009   | 1.009   | 1.011   | 1.011   | 1.013   | 1.015   | 1.019   | 1.021   | 1.022   | 1.027   | 1.033  | 1.043  | 1.059  | 1.088  | 1.132  | 1.228  | 1.440  | 2.480  |
| (4)               | Adjustment               | Factor w/ 40%    | Lien Reduction     | 1.000   | 1.000   | 1.000   | 1.000   | 1.001   | 1.001   | 1.001   | 1.001   | 1.001   | 1.000   | 1.000   | 0.998  | 0.997  | 0.994  | 0.989  | 0.981  | 0.973  | 0.966  | 0.963  |
| (3)               | Adjustment               | Factor w/ 10%    | Lien Reduction     | 1.000   | 1.000   | 1.000   | 1.000   | 1.000   | 1.000   | 1.000   | 1.000   | 1.000   | 1.000   | 1.000   | 1.000  | 0.999  | 0.998  | 0.997  | 0.995  | 0.993  | 0.991  | 0.991  |
| (2)               | Paid Medical             | (All MDC Service | Types Excl. Liens) | 1.004   | 1.009   | 1.016   | 1.023   | 1.033   | 1.045   | 1.062   | 1.079   | 1.097   | 1.116   | 1.138   | 1.165  | 1.200  | 1.249  | 1.319  | 1.436  | 1.648  | 2.137  | 4.424  |
| (1)               | Paid Medical             | (All MDC Service | Types)             | 1.004   | 1.009   | 1.015   | 1.022   | 1.031   | 1.044   | 1.060   | 1.077   | 1.096   | 1.116   | 1.139   | 1.170  | 1.211  | 1.269  | 1.358  | 1.505  | 1.769  | 2.337  | 4.876  |
|                   |                          |                  | Age                | 228-240 | 216-240 | 204-240 | 192-240 | 180-240 | 168-240 | 156-240 | 144-240 | 132-240 | 120-240 | 108-240 | 96-240 | 84-240 | 72-240 | 60-240 | 48-240 | 36-240 | 24-240 | 12-240 |

(1) Based on Medical Data Call data for the average of the latest three calendar years. Factors include all medical service types in MDC but does not include payments not reported in MDC such as claim settlements.

<sup>(2)</sup> Based on the same information shown in Column (1) but excludes all lien payments.
(3) = ((2) x 10%) + ((1) x 90%) / (1). 10% lien reduction was reflected in the January 1, 2018 Filing.
(4) = ((2) x 40%) + ((1) x 60%) / (1). 40% lien reduction was reflected in the CDI's decision on the January 1, 2018 Filing.
(5) See Exhibit 3, Column (5).
Source: Medical Data Call (MDC).