## Actuarial Committee

## Meeting Agenda

| Date | Time | Location | Staff Contact |
| :--- | :--- | :--- | :--- |
| December 6, 2017 | 9:30 AM | WCIRB California |  |
|  |  | 1221 Broadway, Suite 900 | David M. Bellusci |
|  |  | Oakland, CA |  |

Released: November 29, 2017

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

## I. Approval of Minutes

Meeting held on September 5, 2017
II. Working Group Meeting Summaries

Actuarial Research Working Group Meeting held September 26, 2017
Medical Analytics Working Group Meeting held October 3, 2017
III. Unfinished Business
A. AC02-03-03: Experience of Large Deductible Policies
B. AC17-04-04: New Drug Formulary

## IV. New Business

A. AC17-12-01: 9/30/2017 Experience - Review of Methodologies
B. AC17-12-02: Legislative Cost Monitoring
C. AC17-12-03: On-leveling for Wage Level Changes in Pure Premium Ratemaking
D. AC17-12-04: Earthquake Study
E. AC17-12-05: Potential 2018 Actuarial and Research Study Projects
F. AC17-12-06: 2018 Schedule of Meetings

## V. Matters Arising at Time of Meeting

VI. Next Meeting Date: TBD
VII. Adjournment

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## Actuarial Research Working Group

## Meeting Summary

To: Participants of the Actuarial Research Working Group<br>From: Ward Brooks<br>Date: October 5, 2017

## RE: Summary of September 26, 2017 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. Seasonality of Exposures

The Working Group was informed that staff had identified significant seasonality in many classifications' exposures. Some classifications exhibited modest 'Holiday seasonality' with lower exposures in the winter months. Others, such as many agricultural and construction classifications, exhibit varying degrees of increased activity in the summer months. One classification, Ski Resorts, has a relatively unique high winter exposure pattern.

The Working Group was informed that in researching the potential to forecast frequency trends using monthly frequency series, accounting for this seasonality was necessary. Unlike cases where the variable of interest is homogeneous in its seasonality, aggregate frequency series are combinations of classifications with disparate seasonality patterns. For this reason, though staff did study adjusting for seasonality directly in time series models, staff opted to develop seasonal adjustments based on observed claim frequencies rather than use an 'in model' approach. With an in-model approach, the adjustment for the month of August would be the same for each year. Using the approach developed by staff, the adjustment for August would vary depending of the mix of classifications each year. During a construction boom, for example, more claims might be expected in August relative to years with lower than average construction activity. This approach offers the potential to tailor seasonal adjustments to the mix of classifications for both historical on-leveling and forecasting.

The Working Group was informed that staff developed the claims-based seasonality adjustments by comparing observed monthly claim frequencies over time relative to the frequencies that would be expected from an even, pro-rata earning of exposures over time. This claim-based approach does assume that actual exposures are proportional to the observed long-term differences in

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actual to pro-rata frequencies. Staff noted that this assumption seemed reasonable and may align more closely to hazards, if not exactly aligning with payrolls.

The Working Group was informed that staff explored two claim-based approaches to adjusting for seasonality-an industry based approach and an approach based on grouping classifications based on their historical seasonal patterns. The industry-based approach combined classifications of the same North American Industrial Classification System (NAICS) two-digit super-sector. The development of seasonal groups was based on the development of similarity/dissimilarity measures and cluster analysis. Only classifications with a credible volume of experience were used in the seasonal group development approach. Classifications without credible volumes of historical experience were assigned to the 'Holiday seasonality' group. A Working Group member requested a comparison of the seasonality of the classifications with credible volume used to develop the 'Holiday seasonality' group with that of the classifications that lacked credible volume to be used in the group development. The seasonality of the classifications lacking credible volume was very similar to that of the credible classifications' assigned to the 'Holiday seasonality' group.

The Working Group was informed that because the accident dates of cumulative injury and disease claims are not expected to vary according to exposures as specific injuries do, only specific injuries were used in developing the relativities. Because specific injuries' claim count development is modest, data at only first and second report were evaluated. The results for claims at first and second report levels were comparable.

The Working Group reviewed the seasonality differentials relative to those expected from a pro rata earning of exposures for accident years 2007 through 2014. Staff noted that seasonality patterns may change over time. If implemented, staff proposed that integration of seasonal adjustments would be accompanied by annual updates that would include evaluation of the changing patterns in the selection of years to use in updating seasonal adjustments.

Staff noted that while the development of the seasonality adjustments was done as preliminary work for the monthly indemnity claim frequency analysis, there was potential to incorporate seasonal adjustments into other WCIRB analyses.

## 2. Review of Monthly Indemnity Claim Frequency Time Series

The Working Group was reminded that at its February 1, 2013 and June 12, 2013 meetings, staff had presented the results of research on the development of "nearcasts" of indemnity claim frequency series for the potential to enhance indemnity claim frequency forecasts. At that time, the Working Group had evaluated alternative explanatory variables, such as unemployment insurance exhaustions. The Working Group was informed that staff had updated the monthly times series using claim-based seasonal adjustments and re-evaluated time series approaches for cumulative and noncumulative indemnity claim series separately. The Working Group was informed that staff had also evaluated including the exogenous variables currently in the WCIRB's annual noncumulative indemnity claim frequency model.

Staff reviewed for the Working Group the indemnity claim frequency patterns from the 1960s at an annual level and the unadjusted and seasonally-adjusted noncumulative and cumulative indemnity monthly claim frequency series from the early 1990s. Staff noted that the monthly noncumulative indemnity claim frequency series had stabilized around 2007.

The Working Group was informed that staff had evaluated autoregressive integrated moving average (ARIMA) models of the seasonally-adjusted monthly series from accident month January 2007 through December 2015 using the Box-Jenkins approach.

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The Working Group reviewed the results. Staff noted that the noncumulative indemnity claim frequency series had been fairly constant since 2007 and that the constant term in staff's selected model was not significant. Staff noted that the cumulative indemnity claim frequency series had exhibit a modest upward trend since 2007 and that the constant term in staff's selected model was significant. The Working Group discussed the relationship between these near-term findings evaluating the monthly indemnity claim frequency series and the annual model's negative constant term. A Working Group member suggested that the monthly series might support additional adjustment of the constant term in the annual model, noting that the constant term largely captured long-term frequency declines that had not been observed since 2007.

The Working Group was informed that staff had also evaluated the inclusion of the annual model's exogenous variables but found that none of the variables were significant in the monthly model. Staff noted that it was difficult to detect associations between the exogenous variables over the short-term when, for example, only one or two economic cycles or one statutory reforms might have been observed. Additionally, adapting the annual exogenous variables to monthly variables involved estimation error as they had not been originally measured on a monthly basis.

Several Working Group members suggested that staff bring these findings to the Actuarial Committee for consideration.

## 3. Review of Wage Series Alternatives

The Working Group was informed that staff had been requested to review potential wage inflation alternatives to the annual aggregate average wage series developed from the Bureau of Labor Statistics' (BLS) aggregate wage and salary and aggregate employment data, which were forecast by UCLA Anderson Forecast and used in WCIRB ratemaking.

The Working Group was reminded that at the June 28, 2016 meeting, staff had presented the results of evaluating different wage series as part of the analysis to develop the 2017 California Wage Report, distributed to members in 2017. Specifically, in developing the 2017 California Wage Report, staff had evaluated wage data published by the BLS and the California Employment Development Department (EDD) in their Occupational Employment Survey (OES) and other sources and had evaluated the potential to adjust exposures for wage trend at the classification level, which would control for changes in mix of classifications. ${ }^{1}$

Staff reviewed for the Working Group the major alternative series. Staff noted that only two series-the current series and the BLS' Quarterly Census of Employment and Wages (QCEW)— were available for the long term periods. Several alternatives were only available for the most recent decade. Staff noted that the BLS' QCEW series had exhibited more extreme behavior during the dot.com boom and bust, with highs and lows more extreme than the current series'. The Working Group was informed that staff had tested use of the OES series in ratemaking, but that the results were not better than those of the current series'.

Given these findings, the Working Group was informed that staff did not perceive there to be any better alternatives to the current series to use to on-level wages in aggregate ratemaking. Several Working Group members suggested that staff bring these findings to the Actuarial Committee for its consideration.

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## 4. Indemnity Claim Reserves at First Report and Development from First to Third Report Level

The Working Group was informed that WCIRB staff had received several requests to augment the WCIRB's Annual Business Comparatives with insurer's relative case reserve levels benchmarked to statewide. The impetus for this request was so that insurers could better understand how higher severities at first report level were related to future loss development. An implicit assumption expressed by those requesting this addition was that higher case reserves were associated with less future development. Staff evaluated this by insurer group and found that this assumption was supported by experience. Specifically, staff reviewed with the Working Group the relationship between insurers' relative case reserves at first report for policy year 2013 and insurers' subsequent relative loss development from first report level to third report level. The experience showed that higher relative case reserves at first report were found to be inversely related to loss development from first to third report level.

## 5. California Earthquake Study

The Working Group was informed that the WCIRB had contracted with RMS to conduct an evaluation of the earthquake hazard for California workers' compensation and that RMS had completed this study and would present its report and findings at the December 5, 2017 Actuarial Committee meeting. The Working Group was informed that while RMS's findings would be published in December, staff had begun to explore the future potential to refine RMS's results to classification, industrial, or regional levels.

Staff noted that a need for credibility at more refined levels had been expected, but that the results did not suggest the need for credibility based on the volume of observations. The Working Group was informed that staff was continuing to study the results at refined levels. The Working Group discussed staff's preliminary work. A Working Group member noted that to optimally integrate the overall findings the rate relativities would need to be refined to the third decimal point and this the need to refine to the third decimal would be even greater for any refinement.
6. Review of On-Level and Trend Factors Used in Development of Retrospective Rating Database
A Working Group member had requested that staff provide more information on the trend and benefit on-level factors that were used to update the loss elimination ratios each year between major updates to the database used to develop the retrospective rating plan rating values. Staff provided an overview of changes in recent years' trend and benefit on-level factors and discussed their impact on year-to-year changes in the loss elimination ratios. While the trend and benefit onlevel factors underlying the retrospective rating database had previously only been published with major database updates, going forward staff agreed to publish this information annually with the annual update of the loss elimination ratios. A Working Group member asked that staff provide additional information on contributions to changes in loss elimination ratios for future updates. Staff agreed to do this.

## Medical Analytics Working Group

## Meeting Summary

To: Participants of the Medical Analytics Working Group<br>Date: October 3, 2017

## RE: Summary of October 3, 2017 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. Chronic Opioid Claims Analysis

Staff provided the Working Group with a preliminary draft of the opioid analysis that looked at long-term chronic opioid use claims and compared claims that weaned to claims that did not wean. The Working Group discussed the analysis and suggested extending the maturity from 24 to 27 months, looking at claims with surgeries within 30 days of the accident, detailing the opioid drugs prescribed and studying differences in the diagnosis and nature of injury codes for the weaned and not weaned groups. Staff agreed to provide a draft of the analysis for the Working Group to review.
2. Aggregate Medical Payment Trends - 2016 Update

Staff reminded the Working Group that the latest Aggregate Medical Payment Trends report is on the WCIRB external website. Staff presented an update of the WCIRB's medical severity trends by component based on medical transaction data collected by the WCIRB. This analysis included medical payments through December 31, 2016. The Working Group was advised that payments per claim for medical services increased $1 \%$ in the first half of 2016 then decreased $2 \%$ in the second half of 2016. Staff shared with the Working Group that on a cumulative basis, medical costs per claim have declined $12 \%$ from the second half of 2012 through the second half of 2016, which was largely attributable to the impact of Senate Bill No. 863 (SB 863).

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Staff noted the largest shifts in the shares of medical paid by service type was the pharmacy cost share that decreased from $15 \%$ to $8 \%$ and the medical legal cost share that increased from $9 \%$ to $14 \%$ from the second half of 2012 to service year 2016. The Working Group was advised that pharmaceutical payments per claim declined significantly in 2016 continuing the sharp downward trend that began in 2013. It was noted that the cumulative decrease in pharmaceutical costs from the second half of 2012 through service year 2016 was $63 \%$. Staff noted there were a number of factors influencing this trend including the April 1, 2016 California Medi-Cal fee methodology change that incorporated the average Federal Upper Limit. Other factors identified included the independent medical review process, reduced physician prescribing, decreased opioid prescribing, fewer spinal implant surgeries and potential savings related to fraud indictments.
3. Insurer Medical Benchmark Report Enhancement - Medical Trend by Industry Grouping Staff presented a sample benchmark report to the Working Group showing medical trend data by industry and noted this report will be part of future benchmark reports, likely beginning with the third quarter 2017 report.
4. Assembly Bill No. 1142 (New Pharmacy Formulary status)

Staff provided the Working Group with an overview of the current status and timeline for the drug formulary being developed pursuant to Assembly Bill No. 1124 (AB 1124). This included a discussion of the structure of the draft formulary that was proposed by the Department of Industrial Relations (DIR) as well as its ancillary rules. Staff advised that the proposed formulary will apply to drugs dispensed for outpatient use on or after January 1, 2018 regardless of the date of injury. Staff has also advised that the physician drug dispensing rule that requires prospective review for all physician dispensed drugs does not apply to "special fill" and "perioperative fills" in the latest proposed regulations.

Staff noted the economic impact figures released by the DIR had not been updated with the latest changes and briefly reviewed some of the assumptions used to calculate the DIR's expected decrease in California workers' compensation prescription drug spending. The Working Group noted that while additional fields had been added to further define the drug formulary, it was unlikely further updates to the drug table would be released before the formulary goes into effect. With the lack of price controls, the ultimate cost impact would depend on how the presence of the formulary will impact how drugs are prescribed in the California system. Staff noted that evaluation of the cost impact of the new formulary would be completed after the final regulations were adopted.

## 5. RBRVS Valuation

Staff shared a draft of the impact of RBRVS on the physician services for services years 2013 through 2016. Subsequent to the meeting an update on the Special Services was identified.
6. Impact of the Affordable Care Act (ACA) on Workers' Compensation

Staff informed the Working Group that staff was studying the impact of the Affordable Care Act on workers' compensation was underway and shared the key study questions and received input from the Working Group.
7. Potential 2018 WCIRB Medical Analytics Research Topics

The Working Group members discussed potential WCIRB Medical Analytics research topics for 2018. A Working Group member suggested looking at Physical Medicine in greater detail than the 30 day Benchmark report, specifically Physical Therapy, Chiropractic Services and Acupuncture.

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Several Working Group members expressed interest in a benchmark report breaking out data by geography. As a follow up to the opioid analysis, one member suggested looking at other nondrug modalities such as psychology and social treatments. Suggested areas of emerging interest included Telemedicine and Marijuana/Marinol. A member suggested studying the possible impacts on the WC system of higher utilization of medicines for co-morbidities such as hypertension, obesity, diabetes or upset stomach. Staff reminded the Working Group that the Formulary would also be analyzed in 2018.

The Working Group was informed that the next meeting would be scheduled for early 2018 in February or March.

## Item AC02-03-03 <br> Experience of Large Deductible Policies

Beginning with the year 2000 evaluation, the WCIRB has issued annual data calls for calendar year premium and pure premium data and December 31 evaluations of accident year loss, allocated loss adjustment expense, and claim count experience for large deductible policies. ${ }^{1}$ Annually, the Committee reviews the summarized large deductible experience. In these annual reviews, the Committee generally found (a) the percentage of business written on a large deductible basis had been relatively stable, (b) claim reporting and development patterns for experience written on a large deductible basis were generally similar to those of non-large deductible policies, and (c) the impact of excluding the large deductible experience from the rate level calculation has generally been relatively modest. As a result, the Committee has generally agreed that no adjustment to statewide experience to address large deductibles is necessary. The Committee also agreed that annual reviews of updated large deductible experience should continue and the results monitored and presented to the Committee.

Included as Exhibits 1 through 7 is the summary of December 31, 2016 large deductible experience. For comparison purposes, Exhibits 1 through 7 also include analogous information summarizing the non-large deductible experience of insurers writing a large volume of large deductible experience, the experience of all non-large deductible policies, and the total statewide experience.

[^1]III-A-1
WCIRB California ${ }^{\circledR}$

## Distribution of Calendar Year Premium and Losses

| Calendar | Written Premium at Insurer Rate Level |  |  |  | Earned Premium at Insurer Rate Level |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LD Insurers |  | Other <br> Non-LD | All | LD Insurers |  | Other |  |
| Year | Large Ded. ${ }^{[1]}$ | Non-LD |  |  | Large Ded. ${ }^{[1]}$ | Non-LD | Non-LD | All |
| 2006 | 36.3\% | 23.7\% | 40.0\% | 100.0\% | 37.3\% | 24.4\% | 38.3\% | 100.0\% |
| 2007 | 36.2\% | 26.5\% | 37.3\% | 100.0\% | 36.3\% | 26.7\% | 37.0\% | 100.0\% |
| 2008 | 33.1\% | 29.2\% | 37.7\% | 100.0\% | 34.7\% | 28.4\% | 36.9\% | 100.0\% |
| 2009 | 29.8\% | 34.1\% | 36.1\% | 100.0\% | 32.0\% | 32.8\% | 35.2\% | 100.0\% |
| 2010 | 33.2\% | 32.4\% | 34.5\% | 100.0\% | 33.7\% | 32.0\% | 34.3\% | 100.0\% |
| 2011 | 33.6\% | 35.1\% | 31.3\% | 100.0\% | 33.4\% | 35.5\% | 31.1\% | 100.0\% |
| 2012 | 35.1\% | 33.7\% | 31.2\% | 100.0\% | 35.0\% | 34.5\% | 30.5\% | 100.0\% |
| 2013 | 37.2\% | 28.8\% | 34.0\% | 100.0\% | 36.8\% | 30.0\% | 33.2\% | 100.0\% |
| 2014 | 36.9\% | 26.7\% | 36.4\% | 100.0\% | 36.3\% | 26.6\% | 37.1\% | 100.0\% |
| 2015 | 34.6\% | 27.3\% | 38.1\% | 100.0\% | 34.3\% | 27.6\% | 38.1\% | 100.0\% |
| 2016 | 32.8\% | 32.6\% | 34.5\% | 100.0\% | 33.9\% | 32.6\% | 33.5\% | 100.0\% |
| Written Premium at Pure Premium Rate Level |  |  |  |  | Earned Premium at Pure Premium Rate Level |  |  |  |
| Calendar | LD Insurers |  | Other |  | LD Insurers |  | Other |  |
| Year | Large Ded. ${ }^{[1]}$ | Non-LD | Non-LD | All | Large Ded. ${ }^{[1]}$ | Non-LD | Non-LD | All |
| 2006 | 36.7\% | 25.2\% | 38.2\% | 100.0\% | 37.1\% | 26.6\% | 36.4\% | 100.0\% |
| 2007 | 37.7\% | 28.2\% | 34.2\% | 100.0\% | 37.2\% | 28.5\% | 34.4\% | 100.0\% |
| 2008 | 34.9\% | 30.3\% | 34.8\% | 100.0\% | 36.1\% | 29.1\% | 34.7\% | 100.0\% |
| 2009 | 32.5\% | 34.9\% | 32.6\% | 100.0\% | 35.6\% | 32.9\% | 31.5\% | 100.0\% |
| 2010 | 37.6\% | 33.2\% | 29.1\% | 100.0\% | 37.8\% | 33.0\% | 29.2\% | 100.0\% |
| 2011 | 37.7\% | 35.9\% | 26.4\% | 100.0\% | 37.7\% | 36.3\% | 26.1\% | 100.0\% |
| 2012 | 40.7\% | 32.5\% | 26.8\% | 100.0\% | 40.3\% | 33.5\% | 26.2\% | 100.0\% |
| 2013 | 42.1\% | 27.5\% | 30.5\% | 100.0\% | 41.7\% | 28.9\% | 29.5\% | 100.0\% |
| 2014 | 41.6\% | 25.9\% | 32.5\% | 100.0\% | 41.3\% | 25.5\% | 33.2\% | 100.0\% |
| 2015 | 39.2\% | 26.8\% | 34.0\% | 100.0\% | 39.5\% | 26.8\% | 33.7\% | 100.0\% |
| 2016 | 38.7\% | 31.4\% | 29.9\% | 100.0\% | 39.5\% | 31.3\% | 29.1\% | 100.0\% |
|  | Paid Losses |  |  |  | Incurred Losses |  |  |  |
| Calendar | LD Insurers |  | Other |  | LD Insurers |  | Other |  |
| Year | Large Ded. ${ }^{[1]}$ | Non-LD | Non-LD | All | Large Ded. ${ }^{[1]}$ | Non-LD | Non-LD | All |
| 2006 | 38.9\% | 17.6\% | 43.5\% | 100.0\% | 37.9\% | 22.6\% | 39.5\% | 100.0\% |
| 2007 | 34.5\% | 22.5\% | 43.0\% | 100.0\% | 34.6\% | 24.5\% | 40.9\% | 100.0\% |
| 2008 | 33.0\% | 24.9\% | 42.1\% | 100.0\% | 38.2\% | 29.2\% | 32.6\% | 100.0\% |
| 2009 | 32.8\% | 27.6\% | 39.6\% | 100.0\% | 25.8\% | 41.7\% | 32.5\% | 100.0\% |
| 2010 | 33.5\% | 26.2\% | 40.3\% | 100.0\% | 36.1\% | 32.7\% | 31.2\% | 100.0\% |
| 2011 | 32.8\% | 30.5\% | 36.7\% | 100.0\% | 38.5\% | 38.7\% | 22.7\% | 100.0\% |
| 2012 | 32.6\% | 31.8\% | 35.6\% | 100.0\% | 35.3\% | 37.5\% | 27.2\% | 100.0\% |
| 2013 | 33.7\% | 29.8\% | 36.5\% | 100.0\% | 38.1\% | 32.0\% | 29.8\% | 100.0\% |
| 2014 | 35.6\% | 30.1\% | 34.3\% | 100.0\% | 38.8\% | 27.7\% | 33.5\% | 100.0\% |
| 2015 | 36.3\% | 29.8\% | 33.9\% | 100.0\% | 41.5\% | 24.6\% | 33.9\% | 100.0\% |
| 2016 | 37.3\% | 31.4\% | 31.2\% | 100.0\% | 40.6\% | 29.3\% | 30.1\% | 100.0\% |

Notes: ${ }^{[1]}$ Large deductible policies are defined as policies with a deductible amount per claim or accident of at least \$100,000.
Source: Based on WCIRB's quarterly and large deductible data calls.

Policy Year Ratios of Premiums at Insurer Rate Level to Pure Premium Level

| Policy <br> Year | Written Premium |  |  |  | Earned Premium |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LD Insurers |  | Other |  | LD Insurers |  | Other |  |
|  | Large Ded. ${ }^{[1]}$ | Non-LD | Non-LD | All | Large Ded. ${ }^{[1]}$ | Non-LD | Non-LD | All |
| 2006 | 1.452 | 1.462 | 1.541 | 1.486 | 1.473 | 1.419 | 1.539 | 1.481 |
| 2007 | 1.409 | 1.449 | 1.600 | 1.485 | 1.412 | 1.460 | 1.600 | 1.490 |
| 2008 | 1.293 | 1.370 | 1.537 | 1.394 | 1.299 | 1.360 | 1.538 | 1.394 |
| 2009 | 1.246 | 1.313 | 1.575 | 1.363 | 1.244 | 1.323 | 1.580 | 1.365 |
| 2010 | 1.218 | 1.351 | 1.680 | 1.381 | 1.218 | 1.354 | 1.683 | 1.382 |
| 2011 | 1.272 | 1.416 | 1.735 | 1.432 | 1.274 | 1.421 | 1.735 | 1.432 |
| 2012 | 0.961 | 1.157 | 1.271 | 1.103 | 0.962 | 1.156 | 1.272 | 1.103 |
| 2013 | 1.015 | 1.212 | 1.283 | 1.150 | 1.016 | 1.212 | 1.285 | 1.151 |
| 2014 | 0.949 | 1.141 | 1.254 | 1.097 | 0.949 | 1.143 | 1.253 | 1.098 |
| 2015 | 0.995 | 1.145 | 1.284 | 1.128 | 0.997 | 1.146 | 1.291 | 1.130 |
| 2016 | 1.019 | 1.174 | 1.334 | 1.159 | 1.009 | 1.190 | 1.374 | 1.170 |

Notes: ${ }^{[1]}$ Large deductible policies are defined as policies with a deductible amount per claim or accident of at least \$100,000.

Source: Based on WCIRB's quarterly and large deductible data calls.

## Calendar/Accident Year Loss Ratios as of December 31, 2016

Insurers with Large Deductible Experience ${ }^{[1]}$ :

| CY/AY | Large Deductible Experience |  |  |  |  | Non-Large Deductible Experience |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Indemnity |  | Medical ${ }^{[2]}$ |  | Total Incurred ${ }^{[3]}$ | Indemnity |  | Medical ${ }^{[2]}$ |  | Total Incurred ${ }^{[3]}$ |
|  | Paid | Incurred | Paid | Incurred |  | Paid | Incurred | Paid | Incurred |  |
| 2006 | 0.146 | 0.153 | 0.207 | 0.229 | 0.463 | 0.140 | 0.147 | 0.211 | 0.231 | 0.400 |
| 2007 | 0.197 | 0.209 | 0.288 | 0.322 | 0.630 | 0.197 | 0.208 | 0.299 | 0.332 | 0.579 |
| 2008 | 0.250 | 0.268 | 0.354 | 0.405 | 0.733 | 0.253 | 0.271 | 0.379 | 0.426 | 0.752 |
| 2009 | 0.320 | 0.346 | 0.440 | 0.502 | 0.912 | 0.268 | 0.292 | 0.406 | 0.463 | 0.833 |
| 2010 | 0.291 | 0.317 | 0.397 | 0.456 | 0.839 | 0.272 | 0.300 | 0.420 | 0.480 | 0.877 |
| 2011 | 0.255 | 0.286 | 0.352 | 0.415 | 0.800 | 0.237 | 0.268 | 0.365 | 0.426 | 0.800 |
| 2012 | 0.220 | 0.255 | 0.284 | 0.346 | 0.756 | 0.188 | 0.220 | 0.282 | 0.342 | 0.785 |
| 2013 | 0.165 | 0.199 | 0.203 | 0.262 | 0.675 | 0.145 | 0.178 | 0.203 | 0.261 | 0.618 |
| 2014 | 0.131 | 0.176 | 0.155 | 0.219 | 0.684 | 0.106 | 0.148 | 0.148 | 0.211 | 0.574 |
| 2015 | 0.085 | 0.138 | 0.110 | 0.184 | 0.693 | 0.063 | 0.117 | 0.099 | 0.177 | 0.570 |
| 2016 | 0.025 | 0.060 | 0.044 | 0.111 | 0.650 | 0.020 | 0.062 | 0.038 | 0.115 | 0.551 |

## All Insurers with WC Experience:

|  | All California WC Experience |  |  |  |  | All Non-Large Deductible Experience |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Indemnity |  | Medical ${ }^{[2]}$ |  | Total Incurred ${ }^{[3]}$ | Indemnity |  | Medical ${ }^{[2]}$ |  | Total |
| CY/AY | Paid | Incurred | Paid | Incurred |  | Paid | Incurred | Paid | Incurred | Incurred ${ }^{[3]}$ |
| 2006 | 0.146 | 0.157 | 0.207 | 0.233 | 0.440 | 0.146 | 0.159 | 0.207 | 0.236 | 0.427 |
| 2007 | 0.198 | 0.213 | 0.286 | 0.325 | 0.607 | 0.198 | 0.216 | 0.285 | 0.326 | 0.594 |
| 2008 | 0.246 | 0.268 | 0.350 | 0.401 | 0.738 | 0.244 | 0.268 | 0.348 | 0.398 | 0.740 |
| 2009 | 0.280 | 0.307 | 0.398 | 0.459 | 0.850 | 0.260 | 0.288 | 0.377 | 0.438 | 0.821 |
| 2010 | 0.263 | 0.291 | 0.379 | 0.437 | 0.823 | 0.249 | 0.277 | 0.369 | 0.427 | 0.814 |
| 2011 | 0.232 | 0.264 | 0.338 | 0.402 | 0.777 | 0.221 | 0.253 | 0.331 | 0.396 | 0.765 |
| 2012 | 0.194 | 0.228 | 0.271 | 0.332 | 0.743 | 0.181 | 0.213 | 0.263 | 0.325 | 0.735 |
| 2013 | 0.151 | 0.186 | 0.199 | 0.259 | 0.638 | 0.143 | 0.178 | 0.197 | 0.257 | 0.616 |
| 2014 | 0.115 | 0.158 | 0.146 | 0.210 | 0.619 | 0.106 | 0.148 | 0.141 | 0.206 | 0.583 |
| 2015 | 0.071 | 0.126 | 0.098 | 0.177 | 0.615 | 0.064 | 0.119 | 0.092 | 0.173 | 0.575 |
| 2016 | 0.022 | 0.063 | 0.039 | 0.112 | 0.577 | 0.020 | 0.064 | 0.037 | 0.113 | 0.540 |

Notes: $\quad{ }^{[1]}$ Large deductible policies are defined as policies with a deductible amount per claim or accident of at least $\$ 100,000$.
${ }^{[2]}$ Including MCCP.
${ }^{[3]}$ Including IBNR.

Source: Based on WCIRB's quarterly and large deductible data calls.

## Incurred Indemnity Development

Large Deductible (LD) Experience

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 | 2.452 | 1.369 | 1.137 | 1.052 | 1.031 | 1.026 | 1.015 | 1.008 | 1.006 | 1.004 | 1.006 | 1.004 | 1.004 |
| 2002 | 2.431 | 1.328 | 1.093 | 1.044 | 1.041 | 1.016 | 1.008 | 1.010 | 1.006 | 1.007 | 1.005 | 1.005 | 1.003 |
| 2003 | 2.126 | 1.247 | 1.090 | 1.064 | 1.026 | 1.018 | 1.016 | 1.009 | 1.010 | 1.009 | 1.006 | 1.008 | 1.005 |
| 2004 | 1.744 | 1.212 | 1.101 | 1.047 | 1.035 | 1.024 | 1.023 | 1.013 | 1.014 | 1.009 | 1.010 | 1.006 |  |
| 2005 | 1.862 | 1.265 | 1.110 | 1.062 | 1.050 | 1.032 | 1.025 | 1.016 | 1.014 | 1.011 | 1.008 |  |  |
| 2006 | 2.066 | 1.304 | 1.123 | 1.085 | 1.053 | 1.034 | 1.024 | 1.017 | 1.014 | 1.011 |  |  |  |
| 2007 | 2.027 | 1.318 | 1.148 | 1.078 | 1.052 | 1.042 | 1.032 | 1.015 | 1.014 |  |  |  |  |
| 2008 | 2.075 | 1.349 | 1.158 | 1.079 | 1.059 | 1.037 | 1.026 | 1.017 |  |  |  |  |  |
| 2009 | 2.192 | 1.352 | 1.158 | 1.093 | 1.057 | 1.033 | 1.023 |  |  |  |  |  |  |
| 2010 | 2.234 | 1.349 | 1.159 | 1.079 | 1.057 | 1.028 |  |  |  |  |  |  |  |
| 2011 | 2.159 | 1.365 | 1.151 | 1.077 | 1.040 |  |  |  |  |  |  |  |  |
| 2012 | 2.307 | 1.329 | 1.145 | 1.073 |  |  |  |  |  |  |  |  |  |
| 2013 | 2.161 | 1.321 | 1.145 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 2.282 | 1.349 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 2.249 |  |  |  |  |  |  |  |  |  |  |  |  |

Non-Large Deductible Experience from Insurers Writing LD

|  | Evaluated as of (monts): |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 | 1.849 | 1.291 | 1.073 | 1.026 | 1.021 | 1.021 | 1.008 | 1.006 | 1.003 | 1.002 | 1.005 | 1.005 | 1.000 |
| 2002 | 1.914 | 1.207 | 1.050 | 1.022 | 1.033 | 1.011 | 1.010 | 1.010 | 1.005 | 1.008 | 1.003 | 1.000 | 1.002 |
| 2003 | 1.532 | 1.122 | 1.039 | 1.041 | 1.022 | 1.017 | 1.013 | 1.013 | 1.017 | 1.008 | 1.009 | 1.004 | 1.001 |
| 2004 | 1.254 | 1.074 | 1.061 | 1.033 | 1.032 | 1.020 | 1.017 | 1.011 | 1.015 | 1.009 | 1.006 | 1.005 |  |
| 2005 | 1.318 | 1.199 | 1.084 | 1.065 | 1.045 | 1.028 | 1.020 | 1.021 | 1.017 | 1.009 | 1.004 |  |  |
| 2006 | 1.725 | 1.218 | 1.105 | 1.063 | 1.046 | 1.038 | 1.026 | 1.017 | 1.007 | 1.005 |  |  |  |
| 2007 | 1.752 | 1.270 | 1.107 | 1.054 | 1.049 | 1.036 | 1.022 | 1.012 | 1.005 |  |  |  |  |
| 2008 | 1.889 | 1.268 | 1.117 | 1.071 | 1.041 | 1.031 | 1.018 | 1.008 |  |  |  |  |  |
| 2009 | 1.893 | 1.269 | 1.125 | 1.074 | 1.049 | 1.027 | 1.015 |  |  |  |  |  |  |
| 2010 | 1.917 | 1.302 | 1.123 | 1.067 | 1.044 | 1.028 |  |  |  |  |  |  |  |
| 2011 | 1.963 | 1.249 | 1.132 | 1.063 | 1.039 |  |  |  |  |  |  |  |  |
| 2012 | 1.941 | 1.266 | 1.105 | 1.060 |  |  |  |  |  |  |  |  |  |
| 2013 | 1.861 | 1.232 | 1.090 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.855 | 1.234 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.895 |  |  |  |  |  |  |  |  |  |  |  |  |

All California WC Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 | 1.873 | 1.325 | 1.106 | 1.035 | 1.023 | 1.021 | 1.014 | 1.009 | 1.006 | 1.007 | 1.006 | 1.005 | 1.003 |
| 2002 | 1.952 | 1.263 | 1.069 | 1.033 | 1.033 | 1.018 | 1.011 | 1.010 | 1.010 | 1.007 | 1.005 | 1.003 | 1.002 |
| 2003 | 1.782 | 1.187 | 1.069 | 1.056 | 1.033 | 1.021 | 1.018 | 1.015 | 1.015 | 1.009 | 1.006 | 1.004 | 1.003 |
| 2004 | 1.448 | 1.158 | 1.083 | 1.042 | 1.041 | 1.026 | 1.028 | 1.018 | 1.014 | 1.007 | 1.007 | 1.003 |  |
| 2005 | 1.503 | 1.218 | 1.098 | 1.068 | 1.053 | 1.040 | 1.028 | 1.016 | 1.012 | 1.006 | 1.005 |  |  |
| 2006 | 1.690 | 1.247 | 1.111 | 1.080 | 1.053 | 1.035 | 1.023 | 1.015 | 1.009 | 1.007 |  |  |  |
| 2007 | 1.784 | 1.273 | 1.120 | 1.070 | 1.049 | 1.037 | 1.022 | 1.012 | 1.011 |  |  |  |  |
| 2008 | 1.858 | 1.302 | 1.136 | 1.074 | 1.045 | 1.030 | 1.019 | 1.012 |  |  |  |  |  |
| 2009 | 1.983 | 1.293 | 1.142 | 1.076 | 1.048 | 1.024 | 1.019 |  |  |  |  |  |  |
| 2010 | 1.994 | 1.315 | 1.131 | 1.069 | 1.045 | 1.026 |  |  |  |  |  |  |  |
| 2011 | 1.997 | 1.277 | 1.133 | 1.061 | 1.037 |  |  |  |  |  |  |  |  |
| 2012 | 1.992 | 1.279 | 1.113 | 1.063 |  |  |  |  |  |  |  |  |  |
| 2013 | 1.931 | 1.259 | 1.111 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.961 | 1.278 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.968 |  |  |  |  |  |  |  |  |  |  |  |  |

All Non-Large Deductible Experience

| AY | 12-24 | $\underline{\text { 24-36 }}$ | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2001 | 1.800 | 1.311 | 1.097 | 1.029 | 1.020 | 1.019 | 1.013 | 1.010 | 1.007 | 1.009 | 1.006 | 1.006 | 1.003 |
| 2002 | 1.818 | 1.245 | 1.061 | 1.029 | 1.030 | 1.018 | 1.013 | 1.010 | 1.012 | 1.007 | 1.005 | 1.002 | 1.002 |
| 2003 | 1.697 | 1.164 | 1.060 | 1.052 | 1.036 | 1.023 | 1.019 | 1.018 | 1.018 | 1.008 | 1.007 | 1.003 | 1.002 |
| 2004 | 1.350 | 1.135 | 1.076 | 1.039 | 1.043 | 1.028 | 1.030 | 1.020 | 1.015 | 1.006 | 1.005 | 1.002 |  |
| 2005 | 1.376 | 1.196 | 1.090 | 1.070 | 1.055 | 1.045 | 1.030 | 1.016 | 1.012 | 1.003 | 1.003 |  |  |
| 2006 | 1.577 | 1.217 | 1.104 | 1.077 | 1.052 | 1.036 | 1.022 | 1.014 | 1.007 | 1.005 |  |  |  |
| 2007 | 1.687 | 1.252 | 1.107 | 1.065 | 1.048 | 1.034 | 1.016 | 1.010 | 1.010 |  |  |  |  |
| 2008 | 1.777 | 1.280 | 1.126 | 1.072 | 1.037 | 1.026 | 1.015 | 1.009 |  |  |  |  |  |
| 2009 | 1.896 | 1.264 | 1.134 | 1.068 | 1.043 | 1.018 | 1.017 |  |  |  |  |  |  |
| 2010 | 1.889 | 1.298 | 1.116 | 1.063 | 1.038 | 1.024 |  |  |  |  |  |  |  |
| 2011 | 1.926 | 1.233 | 1.123 | 1.053 | 1.036 |  |  |  |  |  |  |  |  |
| 2012 | 1.847 | 1.249 | 1.094 | 1.057 |  |  |  |  |  |  |  |  |  |
| 2013 | 1.815 | 1.224 | 1.090 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.807 | 1.235 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.830 |  |  |  |  |  |  |  |  |  |  |  |  |

III-A-5

## Incurred Medical Development *

Large Deductible (LD) Experience

| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2001 | 2.111 | 1.302 | 1.129 | 1.067 | 1.047 | 1.056 | 1.043 | 1.026 | 1.030 | 1.019 | 1.013 | 1.011 | 1.014 |
| 2002 | 1.992 | 1.221 | 1.066 | 1.050 | 1.060 | 1.043 | 1.032 | 1.028 | 1.023 | 1.020 | 1.016 | 1.015 | 0.997 |
| 2003 | 1.726 | 1.128 | 1.075 | 1.076 | 1.051 | 1.035 | 1.035 | 1.029 | 1.023 | 1.015 | 1.012 | 1.012 | 1.002 |
| 2004 | 1.528 | 1.180 | 1.112 | 1.075 | 1.057 | 1.049 | 1.039 | 1.028 | 1.029 | 1.017 | 1.012 | 1.007 |  |
| 2005 | 1.558 | 1.180 | 1.094 | 1.077 | 1.065 | 1.049 | 1.035 | 1.031 | 1.019 | 1.019 | 1.009 |  |  |
| 2006 | 1.618 | 1.200 | 1.124 | 1.086 | 1.054 | 1.044 | 1.036 | 1.027 | 1.018 | 1.005 |  |  |  |
| 2007 | 1.579 | 1.224 | 1.131 | 1.078 | 1.069 | 1.067 | 1.036 | 1.023 | 1.008 |  |  |  |  |
| 2008 | 1.631 | 1.224 | 1.131 | 1.091 | 1.075 | 1.048 | 1.034 | 1.016 |  |  |  |  |  |
| 2009 | 1.646 | 1.237 | 1.130 | 1.104 | 1.072 | 1.041 | 1.022 |  |  |  |  |  |  |
| 2010 | 1.711 | 1.235 | 1.143 | 1.078 | 1.056 | 1.032 |  |  |  |  |  |  |  |
| 2011 | 1.688 | 1.269 | 1.122 | 1.074 | 1.042 |  |  |  |  |  |  |  |  |
| 2012 | 1.712 | 1.206 | 1.111 | 1.060 |  |  |  |  |  |  |  |  |  |
| 2013 | 1.607 | 1.185 | 1.104 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.625 | 1.178 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.583 |  |  |  |  |  |  |  |  |  |  |  |  |

Non-Large Deductible Experience from Insurers Writing LD

| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2001 | 1.663 | 1.254 | 1.075 | 1.039 | 1.044 | 1.041 | 1.029 | 1.023 | 1.018 | 1.013 | 1.012 | 1.015 | 1.013 |
| 2002 | 1.746 | 1.151 | 1.053 | 1.025 | 1.060 | 1.017 | 1.026 | 1.022 | 1.025 | 1.011 | 1.013 | 1.008 | 1.000 |
| 2003 | 1.318 | 1.090 | 1.033 | 1.060 | 1.043 | 1.038 | 1.030 | 1.023 | 1.021 | 1.016 | 1.015 | 1.001 | 0.999 |
| 2004 | 1.241 | 1.061 | 1.091 | 1.071 | 1.058 | 1.045 | 1.037 | 1.023 | 1.021 | 1.014 | 1.007 | 1.002 |  |
| 2005 | 1.235 | 1.156 | 1.066 | 1.073 | 1.067 | 1.044 | 1.033 | 1.030 | 1.011 | 1.008 | 1.004 |  |  |
| 2006 | 1.404 | 1.183 | 1.107 | 1.068 | 1.061 | 1.043 | 1.040 | 1.020 | 1.014 | 1.000 |  |  |  |
| 2007 | 1.483 | 1.216 | 1.107 | 1.063 | 1.063 | 1.044 | 1.035 | 1.017 | 1.004 |  |  |  |  |
| 2008 | 1.537 | 1.180 | 1.105 | 1.097 | 1.061 | 1.042 | 1.028 | 1.010 |  |  |  |  |  |
| 2009 | 1.528 | 1.205 | 1.143 | 1.088 | 1.063 | 1.031 | 1.014 |  |  |  |  |  |  |
| 2010 | 1.531 | 1.243 | 1.136 | 1.084 | 1.048 | 1.022 |  |  |  |  |  |  |  |
| 2011 | 1.585 | 1.213 | 1.120 | 1.075 | 1.035 |  |  |  |  |  |  |  |  |
| 2012 | 1.546 | 1.181 | 1.094 | 1.059 |  |  |  |  |  |  |  |  |  |
| 2013 | 1.497 | 1.145 | 1.087 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.439 | 1.155 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.494 |  |  |  |  |  |  |  |  |  |  |  |  |

All California WC Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 | 1.658 | 1.274 | 1.107 | 1.047 | 1.041 | 1.045 | 1.040 | 1.034 | 1.035 | 1.022 | 1.017 | 1.015 | 1.013 |
| 2002 | 1.632 | 1.203 | 1.059 | 1.039 | 1.056 | 1.040 | 1.036 | 1.029 | 1.028 | 1.022 | 1.014 | 1.010 | 0.999 |
| 2003 | 1.567 | 1.119 | 1.057 | 1.059 | 1.060 | 1.042 | 1.042 | 1.037 | 1.029 | 1.018 | 1.011 | 1.003 | 0.998 |
| 2004 | 1.351 | 1.135 | 1.113 | 1.081 | 1.060 | 1.061 | 1.043 | 1.032 | 1.026 | 1.012 | 1.006 | 1.001 |  |
| 2005 | 1.389 | 1.172 | 1.087 | 1.074 | 1.084 | 1.055 | 1.045 | 1.032 | 1.020 | 1.006 | 1.006 |  |  |
| 2006 | 1.460 | 1.196 | 1.103 | 1.081 | 1.066 | 1.048 | 1.040 | 1.022 | 1.012 | 1.000 |  |  |  |
| 2007 | 1.518 | 1.204 | 1.124 | 1.081 | 1.070 | 1.050 | 1.032 | 1.018 | 1.004 |  |  |  |  |
| 2008 | 1.527 | 1.212 | 1.129 | 1.092 | 1.061 | 1.041 | 1.026 | 1.010 |  |  |  |  |  |
| 2009 | 1.604 | 1.227 | 1.140 | 1.087 | 1.061 | 1.030 | 1.016 |  |  |  |  |  |  |
| 2010 | 1.620 | 1.245 | 1.134 | 1.077 | 1.045 | 1.025 |  |  |  |  |  |  |  |
| 2011 | 1.667 | 1.222 | 1.125 | 1.069 | 1.033 |  |  |  |  |  |  |  |  |
| 2012 | 1.592 | 1.188 | 1.093 | 1.056 |  |  |  |  |  |  |  |  |  |
| 2013 | 1.559 | 1.150 | 1.085 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.524 | 1.159 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.511 |  |  |  |  |  |  |  |  |  |  |  |  |

All Non-Large Deductible Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 | 1.617 | 1.269 | 1.101 | 1.040 | 1.040 | 1.041 | 1.038 | 1.038 | 1.038 | 1.023 | 1.019 | 1.016 | 1.012 |
| 2002 | 1.586 | 1.198 | 1.057 | 1.035 | 1.054 | 1.038 | 1.038 | 1.029 | 1.030 | 1.022 | 1.013 | 1.008 | 0.999 |
| 2003 | 1.519 | 1.116 | 1.050 | 1.051 | 1.064 | 1.045 | 1.045 | 1.041 | 1.032 | 1.019 | 1.011 | 0.999 | 0.996 |
| 2004 | 1.285 | 1.115 | 1.110 | 1.085 | 1.060 | 1.068 | 1.045 | 1.034 | 1.024 | 1.010 | 1.003 | 0.998 |  |
| 2005 | 1.316 | 1.163 | 1.083 | 1.072 | 1.095 | 1.059 | 1.051 | 1.033 | 1.021 | 0.998 | 1.005 |  |  |
| 2006 | 1.402 | 1.194 | 1.092 | 1.079 | 1.072 | 1.050 | 1.042 | 1.020 | 1.009 | 0.997 |  |  |  |
| 2007 | 1.488 | 1.194 | 1.119 | 1.083 | 1.070 | 1.042 | 1.030 | 1.015 | 1.002 |  |  |  |  |
| 2008 | 1.482 | 1.206 | 1.128 | 1.093 | 1.054 | 1.037 | 1.021 | 1.007 |  |  |  |  |  |
| 2009 | 1.584 | 1.222 | 1.144 | 1.078 | 1.055 | 1.024 | 1.012 |  |  |  |  |  |  |
| 2010 | 1.575 | 1.250 | 1.130 | 1.077 | 1.039 | 1.021 |  |  |  |  |  |  |  |
| 2011 | 1.657 | 1.198 | 1.126 | 1.066 | 1.027 |  |  |  |  |  |  |  |  |
| 2012 | 1.534 | 1.178 | 1.083 | 1.053 |  |  |  |  |  |  |  |  |  |
| 2013 | 1.534 | 1.132 | 1.075 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.473 | 1.148 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.476 |  |  |  |  |  |  |  |  |  |  |  |  |

[^2]| Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 | 3.712 | 1.867 | 1.353 | 1.172 | 1.087 | 1.057 | 1.035 | 1.025 | 1.016 | 1.012 | 1.010 | 1.011 | 1.008 |
| 2002 | 3.871 | 1.839 | 1.344 | 1.144 | 1.087 | 1.043 | 1.032 | 1.018 | 1.017 | 1.012 | 1.012 | 1.010 | 1.007 |
| 2003 | 3.613 | 1.758 | 1.276 | 1.144 | 1.071 | 1.038 | 1.027 | 1.022 | 1.015 | 1.016 | 1.012 | 1.012 | 1.009 |
| 2004 | 3.080 | 1.574 | 1.269 | 1.122 | 1.070 | 1.047 | 1.034 | 1.029 | 1.025 | 1.019 | 1.013 | 1.011 |  |
| 2005 | 2.906 | 1.562 | 1.237 | 1.123 | 1.082 | 1.055 | 1.045 | 1.035 | 1.023 | 1.022 | 1.015 |  |  |
| 2006 | 3.135 | 1.559 | 1.238 | 1.143 | 1.087 | 1.064 | 1.045 | 1.032 | 1.027 | 1.022 |  |  |  |
| 2007 | 3.001 | 1.554 | 1.262 | 1.144 | 1.095 | 1.069 | 1.049 | 1.036 | 1.032 |  |  |  |  |
| 2008 | 3.057 | 1.614 | 1.276 | 1.151 | 1.102 | 1.070 | 1.047 | 1.031 |  |  |  |  |  |
| 2009 | 3.244 | 1.615 | 1.284 | 1.165 | 1.101 | 1.066 | 1.047 |  |  |  |  |  |  |
| 2010 | 3.236 | 1.627 | 1.285 | 1.157 | 1.100 | 1.065 |  |  |  |  |  |  |  |
| 2011 | 3.306 | 1.619 | 1.285 | 1.155 | 1.087 |  |  |  |  |  |  |  |  |
| 2012 | 3.265 | 1.616 | 1.269 | 1.142 |  |  |  |  |  |  |  |  |  |
| 2013 | 3.272 | 1.610 | 1.270 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 3.372 | 1.658 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 3.407 |  |  |  |  |  |  |  |  |  |  |  |  |

Non-Large Deductible Experience from Insurers Writing LD

| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2001 | 3.838 | 1.837 | 1.335 | 1.145 | 1.076 | 1.051 | 1.031 | 1.023 | 1.015 | 1.013 | 1.010 | 1.008 | 1.005 |
| 2002 | 3.691 | 1.886 | 1.293 | 1.131 | 1.070 | 1.048 | 1.033 | 1.018 | 1.015 | 1.012 | 1.013 | 1.008 | 1.006 |
| 2003 | 3.358 | 1.767 | 1.242 | 1.116 | 1.074 | 1.046 | 1.026 | 1.024 | 1.024 | 1.020 | 1.016 | 1.011 | 1.010 |
| 2004 | 3.050 | 1.531 | 1.220 | 1.117 | 1.077 | 1.041 | 1.034 | 1.033 | 1.023 | 1.022 | 1.011 | 1.015 |  |
| 2005 | 2.870 | 1.516 | 1.261 | 1.128 | 1.071 | 1.061 | 1.044 | 1.039 | 1.028 | 1.022 | 1.014 |  |  |
| 2006 | 2.864 | 1.580 | 1.246 | 1.142 | 1.092 | 1.064 | 1.048 | 1.035 | 1.029 | 1.019 |  |  |  |
| 2007 | 2.995 | 1.615 | 1.246 | 1.132 | 1.088 | 1.065 | 1.042 | 1.033 | 1.027 |  |  |  |  |
| 2008 | 3.040 | 1.590 | 1.269 | 1.145 | 1.088 | 1.058 | 1.043 | 1.026 |  |  |  |  |  |
| 2009 | 3.014 | 1.628 | 1.268 | 1.153 | 1.091 | 1.061 | 1.044 |  |  |  |  |  |  |
| 2010 | 3.133 | 1.635 | 1.285 | 1.146 | 1.091 | 1.063 |  |  |  |  |  |  |  |
| 2011 | 3.160 | 1.610 | 1.267 | 1.148 | 1.087 |  |  |  |  |  |  |  |  |
| 2012 | 3.030 | 1.600 | 1.265 | 1.133 |  |  |  |  |  |  |  |  |  |
| 2013 | 3.095 | 1.604 | 1.257 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 3.181 | 1.631 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 3.270 |  |  |  |  |  |  |  |  |  |  |  |  |

All California WC Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 | 3.545 | 1.796 | 1.322 | 1.145 | 1.077 | 1.051 | 1.034 | 1.024 | 1.017 | 1.014 | 1.012 | 1.011 | 1.008 |
| 2002 | 3.590 | 1.782 | 1.290 | 1.127 | 1.075 | 1.046 | 1.031 | 1.020 | 1.018 | 1.015 | 1.014 | 1.008 | 1.008 |
| 2003 | 3.370 | 1.696 | 1.249 | 1.128 | 1.072 | 1.043 | 1.030 | 1.026 | 1.023 | 1.021 | 1.015 | 1.012 | 1.009 |
| 2004 | 2.914 | 1.522 | 1.236 | 1.116 | 1.073 | 1.049 | 1.041 | 1.035 | 1.030 | 1.020 | 1.015 | 1.011 |  |
| 2005 | 2.734 | 1.512 | 1.235 | 1.121 | 1.079 | 1.060 | 1.047 | 1.042 | 1.028 | 1.020 | 1.015 |  |  |
| 2006 | 2.866 | 1.539 | 1.229 | 1.135 | 1.090 | 1.068 | 1.050 | 1.035 | 1.026 | 1.018 |  |  |  |
| 2007 | 2.905 | 1.547 | 1.246 | 1.140 | 1.092 | 1.066 | 1.046 | 1.033 | 1.027 |  |  |  |  |
| 2008 | 2.927 | 1.577 | 1.271 | 1.150 | 1.092 | 1.060 | 1.041 | 1.027 |  |  |  |  |  |
| 2009 | 3.069 | 1.616 | 1.280 | 1.156 | 1.092 | 1.061 | 1.043 |  |  |  |  |  |  |
| 2010 | 3.157 | 1.628 | 1.281 | 1.147 | 1.091 | 1.060 |  |  |  |  |  |  |  |
| 2011 | 3.208 | 1.613 | 1.266 | 1.144 | 1.087 |  |  |  |  |  |  |  |  |
| 2012 | 3.137 | 1.597 | 1.263 | 1.137 |  |  |  |  |  |  |  |  |  |
| 2013 | 3.169 | 1.607 | 1.260 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 3.231 | 1.634 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 3.275 |  |  |  |  |  |  |  |  |  |  |  |  |

All Non-Large Deductible Experience

| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2001 | 3.572 | 1.772 | 1.313 | 1.135 | 1.074 | 1.048 | 1.033 | 1.023 | 1.017 | 1.015 | 1.013 | 1.011 | 1.009 |
| 2002 | 3.501 | 1.766 | 1.271 | 1.121 | 1.071 | 1.048 | 1.031 | 1.020 | 1.018 | 1.016 | 1.014 | 1.007 | 1.008 |
| 2003 | 3.305 | 1.670 | 1.237 | 1.121 | 1.073 | 1.045 | 1.032 | 1.028 | 1.027 | 1.023 | 1.016 | 1.012 | 1.009 |
| 2004 | 2.844 | 1.498 | 1.223 | 1.113 | 1.075 | 1.050 | 1.045 | 1.039 | 1.032 | 1.020 | 1.016 | 1.011 |  |
| 2005 | 2.653 | 1.492 | 1.233 | 1.119 | 1.077 | 1.064 | 1.048 | 1.047 | 1.032 | 1.019 | 1.015 |  |  |
| 2006 | 2.765 | 1.528 | 1.223 | 1.131 | 1.092 | 1.070 | 1.052 | 1.037 | 1.026 | 1.016 |  |  |  |
| 2007 | 2.856 | 1.544 | 1.238 | 1.138 | 1.091 | 1.064 | 1.044 | 1.032 | 1.025 |  |  |  |  |
| 2008 | 2.869 | 1.558 | 1.269 | 1.150 | 1.087 | 1.055 | 1.038 | 1.026 |  |  |  |  |  |
| 2009 | 2.981 | 1.616 | 1.278 | 1.151 | 1.087 | 1.058 | 1.041 |  |  |  |  |  |  |
| 2010 | 3.113 | 1.629 | 1.279 | 1.141 | 1.086 | 1.057 |  |  |  |  |  |  |  |
| 2011 | 3.155 | 1.609 | 1.256 | 1.138 | 1.087 |  |  |  |  |  |  |  |  |
| 2012 | 3.061 | 1.584 | 1.259 | 1.133 |  |  |  |  |  |  |  |  |  |
| 2013 | 3.103 | 1.606 | 1.254 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 3.143 | 1.618 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 3.190 |  |  |  |  |  |  |  |  |  |  |  |  |


| Large Deductible (LD) Experience |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 | 3.220 | 1.478 | 1.203 | 1.119 | 1.077 | 1.059 | 1.050 | 1.037 | 1.031 | 1.031 | 1.023 | 1.023 | 1.023 |
| 2002 | 3.058 | 1.372 | 1.165 | 1.107 | 1.076 | 1.056 | 1.044 | 1.032 | 1.031 | 1.025 | 1.025 | 1.020 | 1.016 |
| 2003 | 2.665 | 1.304 | 1.172 | 1.112 | 1.075 | 1.050 | 1.041 | 1.034 | 1.029 | 1.030 | 1.021 | 1.019 | 1.018 |
| 2004 | 2.417 | 1.378 | 1.188 | 1.122 | 1.081 | 1.064 | 1.047 | 1.040 | 1.037 | 1.027 | 1.024 | 1.019 |  |
| 2005 | 2.372 | 1.335 | 1.203 | 1.129 | 1.093 | 1.066 | 1.053 | 1.051 | 1.031 | 1.031 | 1.021 |  |  |
| 2006 | 2.456 | 1.380 | 1.213 | 1.136 | 1.087 | 1.067 | 1.056 | 1.039 | 1.035 | 1.026 |  |  |  |
| 2007 | 2.374 | 1.382 | 1.218 | 1.131 | 1.098 | 1.082 | 1.053 | 1.041 | 1.033 |  |  |  |  |
| 2008 | 2.335 | 1.411 | 1.220 | 1.144 | 1.110 | 1.076 | 1.053 | 1.038 |  |  |  |  |  |
| 2009 | 2.477 | 1.427 | 1.244 | 1.163 | 1.106 | 1.073 | 1.051 |  |  |  |  |  |  |
| 2010 | 2.508 | 1.443 | 1.260 | 1.153 | 1.100 | 1.070 |  |  |  |  |  |  |  |
| 2011 | 2.576 | 1.465 | 1.245 | 1.149 | 1.094 |  |  |  |  |  |  |  |  |
| 2012 | 2.626 | 1.458 | 1.245 | 1.145 |  |  |  |  |  |  |  |  |  |
| 2013 | 2.567 | 1.455 | 1.234 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 2.541 | 1.447 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 2.573 |  |  |  |  |  |  |  |  |  |  |  |  |

Non-Large Deductible Experience from Insurers Writing LD

| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2001 | 2.754 | 1.482 | 1.191 | 1.104 | 1.070 | 1.055 | 1.047 | 1.039 | 1.027 | 1.028 | 1.021 | 1.020 | 1.015 |
| 2002 | 2.916 | 1.406 | 1.178 | 1.098 | 1.074 | 1.055 | 1.047 | 1.025 | 1.025 | 1.022 | 1.021 | 1.015 | 1.013 |
| 2003 | 2.449 | 1.356 | 1.153 | 1.120 | 1.078 | 1.060 | 1.042 | 1.035 | 1.032 | 1.030 | 1.023 | 1.015 | 1.015 |
| 2004 | 2.367 | 1.260 | 1.194 | 1.130 | 1.090 | 1.064 | 1.053 | 1.042 | 1.035 | 1.024 | 1.024 | 1.021 |  |
| 2005 | 2.072 | 1.346 | 1.212 | 1.140 | 1.085 | 1.072 | 1.056 | 1.047 | 1.031 | 1.028 | 1.018 |  |  |
| 2006 | 2.255 | 1.397 | 1.219 | 1.139 | 1.098 | 1.068 | 1.058 | 1.035 | 1.035 | 1.027 |  |  |  |
| 2007 | 2.383 | 1.430 | 1.230 | 1.136 | 1.097 | 1.072 | 1.051 | 1.042 | 1.029 |  |  |  |  |
| 2008 | 2.312 | 1.415 | 1.240 | 1.148 | 1.101 | 1.070 | 1.054 | 1.033 |  |  |  |  |  |
| 2009 | 2.308 | 1.444 | 1.248 | 1.162 | 1.107 | 1.067 | 1.046 |  |  |  |  |  |  |
| 2010 | 2.420 | 1.470 | 1.273 | 1.152 | 1.101 | 1.067 |  |  |  |  |  |  |  |
| 2011 | 2.517 | 1.470 | 1.242 | 1.148 | 1.095 |  |  |  |  |  |  |  |  |
| 2012 | 2.499 | 1.470 | 1.253 | 1.142 |  |  |  |  |  |  |  |  |  |
| 2013 | 2.419 | 1.470 | 1.234 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 2.498 | 1.464 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 2.564 |  |  |  |  |  |  |  |  |  |  |  |  |

All California WC Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 | 2.842 | 1.472 | 1.212 | 1.109 | 1.076 | 1.057 | 1.045 | 1.038 | 1.034 | 1.030 | 1.022 | 1.022 | 1.022 |
| 2002 | 2.887 | 1.416 | 1.168 | 1.112 | 1.072 | 1.054 | 1.046 | 1.034 | 1.032 | 1.024 | 1.023 | 1.018 | 1.016 |
| 2003 | 2.592 | 1.318 | 1.170 | 1.112 | 1.074 | 1.057 | 1.048 | 1.041 | 1.030 | 1.030 | 1.026 | 1.019 | 1.016 |
| 2004 | 2.298 | 1.345 | 1.189 | 1.123 | 1.092 | 1.070 | 1.055 | 1.040 | 1.036 | 1.034 | 1.024 | 1.018 |  |
| 2005 | 2.251 | 1.345 | 1.209 | 1.138 | 1.095 | 1.073 | 1.054 | 1.049 | 1.038 | 1.031 | 1.021 |  |  |
| 2006 | 2.340 | 1.399 | 1.220 | 1.140 | 1.099 | 1.068 | 1.056 | 1.042 | 1.034 | 1.025 |  |  |  |
| 2007 | 2.416 | 1.413 | 1.230 | 1.142 | 1.097 | 1.075 | 1.057 | 1.041 | 1.031 |  |  |  |  |
| 2008 | 2.325 | 1.421 | 1.241 | 1.148 | 1.103 | 1.072 | 1.051 | 1.035 |  |  |  |  |  |
| 2009 | 2.408 | 1.447 | 1.251 | 1.160 | 1.104 | 1.067 | 1.046 |  |  |  |  |  |  |
| 2010 | 2.479 | 1.468 | 1.265 | 1.152 | 1.096 | 1.066 |  |  |  |  |  |  |  |
| 2011 | 2.580 | 1.470 | 1.248 | 1.145 | 1.095 |  |  |  |  |  |  |  |  |
| 2012 | 2.561 | 1.468 | 1.248 | 1.143 |  |  |  |  |  |  |  |  |  |
| 2013 | 2.492 | 1.465 | 1.238 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 2.520 | 1.462 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 2.533 |  |  |  |  |  |  |  |  |  |  |  |  |

All Non-Large Deductible Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 | 2.878 | 1.465 | 1.216 | 1.106 | 1.076 | 1.056 | 1.045 | 1.039 | 1.036 | 1.029 | 1.020 | 1.021 | 1.022 |
| 2002 | 2.845 | 1.432 | 1.169 | 1.115 | 1.070 | 1.055 | 1.047 | 1.035 | 1.032 | 1.022 | 1.020 | 1.018 | 1.017 |
| 2003 | 2.567 | 1.324 | 1.169 | 1.112 | 1.077 | 1.061 | 1.051 | 1.044 | 1.030 | 1.030 | 1.028 | 1.019 | 1.016 |
| 2004 | 2.241 | 1.326 | 1.188 | 1.129 | 1.098 | 1.074 | 1.060 | 1.040 | 1.036 | 1.037 | 1.024 | 1.017 |  |
| 2005 | 2.180 | 1.354 | 1.218 | 1.142 | 1.097 | 1.078 | 1.055 | 1.047 | 1.043 | 1.031 | 1.021 |  |  |
| 2006 | 2.270 | 1.420 | 1.224 | 1.142 | 1.106 | 1.069 | 1.056 | 1.044 | 1.033 | 1.024 |  |  |  |
| 2007 | 2.461 | 1.432 | 1.237 | 1.148 | 1.096 | 1.070 | 1.059 | 1.042 | 1.030 |  |  |  |  |
| 2008 | 2.320 | 1.427 | 1.252 | 1.150 | 1.099 | 1.070 | 1.050 | 1.034 |  |  |  |  |  |
| 2009 | 2.371 | 1.458 | 1.256 | 1.159 | 1.103 | 1.064 | 1.043 |  |  |  |  |  |  |
| 2010 | 2.463 | 1.485 | 1.268 | 1.151 | 1.094 | 1.064 |  |  |  |  |  |  |  |
| 2011 | 2.583 | 1.473 | 1.249 | 1.143 | 1.095 |  |  |  |  |  |  |  |  |
| 2012 | 2.520 | 1.474 | 1.249 | 1.141 |  |  |  |  |  |  |  |  |  |
| 2013 | 2.448 | 1.471 | 1.240 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 2.507 | 1.470 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 2.509 |  |  |  |  |  |  |  |  |  |  |  |  |

[^3]Paid ALAE (Excluding MCCP) Development *

| Large Deductible (LD) Experience |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 |  |  |  |  |  | 1.098 | 1.044 | 1.042 | 1.032 | 1.028 | 1.022 | 1.023 | 1.021 |
| 2002 |  |  |  |  | 1.127 | 1.061 | 1.048 | 1.035 | 1.029 | 1.023 | 1.022 | 1.019 | 1.015 |
| 2003 |  |  |  | 1.191 | 1.097 | 1.058 | 1.046 | 1.036 | 1.031 | 1.026 | 1.022 | 1.019 | 1.015 |
| 2004 |  |  | 1.351 | 1.165 | 1.100 | 1.071 | 1.048 | 1.038 | 1.033 | 1.026 | 1.022 | 1.016 |  |
| 2005 |  | 1.785 | 1.347 | 1.178 | 1.118 | 1.080 | 1.059 | 1.048 | 1.036 | 1.029 | 1.023 |  |  |
| 2006 | 4.628 | 1.744 | 1.334 | 1.189 | 1.116 | 1.083 | 1.060 | 1.047 | 1.036 | 1.026 |  |  |  |
| 2007 | 4.057 | 1.734 | 1.350 | 1.191 | 1.128 | 1.091 | 1.063 | 1.049 | 1.035 |  |  |  |  |
| 2008 | 4.178 | 1.759 | 1.363 | 1.198 | 1.135 | 1.090 | 1.066 | 1.045 |  |  |  |  |  |
| 2009 | 4.586 | 1.793 | 1.358 | 1.210 | 1.132 | 1.090 | 1.060 |  |  |  |  |  |  |
| 2010 | 4.680 | 1.744 | 1.348 | 1.199 | 1.128 | 1.080 |  |  |  |  |  |  |  |
| 2011 | 4.415 | 1.749 | 1.345 | 1.195 | 1.112 |  |  |  |  |  |  |  |  |
| 2012 | 4.584 | 1.754 | 1.349 | 1.183 |  |  |  |  |  |  |  |  |  |
| 2013 | 4.568 | 1.720 | 1.304 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 4.397 | 1.666 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 4.333 |  |  |  |  |  |  |  |  |  |  |  |  |

Non-Large Deductible Experience from Insurers Writing LD

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 |  |  |  |  |  | 1.070 | 1.043 | 1.037 | 1.026 | 1.020 | 1.019 | 1.017 | 1.015 |
| 2002 |  |  |  |  | 1.098 | 1.063 | 1.050 | 1.029 | 1.025 | 1.020 | 1.019 | 1.016 | 1.013 |
| 2003 |  |  |  | 1.161 | 1.085 | 1.071 | 1.041 | 1.032 | 1.027 | 1.022 | 1.019 | 1.016 | 1.012 |
| 2004 |  |  | 1.305 | 1.150 | 1.103 | 1.062 | 1.048 | 1.033 | 1.030 | 1.024 | 1.017 | 1.015 |  |
| 2005 |  | 1.625 | 1.289 | 1.185 | 1.106 | 1.076 | 1.051 | 1.046 | 1.035 | 1.028 | 1.022 |  |  |
| 2006 | 3.124 | 1.659 | 1.330 | 1.179 | 1.123 | 1.076 | 1.062 | 1.045 | 1.034 | 1.026 |  |  |  |
| 2007 | 3.753 | 1.765 | 1.341 | 1.194 | 1.116 | 1.087 | 1.056 | 1.041 | 1.028 |  |  |  |  |
| 2008 | 4.186 | 1.755 | 1.348 | 1.188 | 1.119 | 1.081 | 1.057 | 1.039 |  |  |  |  |  |
| 2009 | 4.072 | 1.753 | 1.338 | 1.192 | 1.121 | 1.082 | 1.052 |  |  |  |  |  |  |
| 2010 | 4.100 | 1.762 | 1.348 | 1.190 | 1.118 | 1.076 |  |  |  |  |  |  |  |
| 2011 | 4.219 | 1.722 | 1.333 | 1.193 | 1.112 |  |  |  |  |  |  |  |  |
| 2012 | 4.196 | 1.725 | 1.341 | 1.179 |  |  |  |  |  |  |  |  |  |
| 2013 | 4.345 | 1.719 | 1.312 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 4.243 | 1.645 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 3.840 |  |  |  |  |  |  |  |  |  |  |  |  |

## All California WC Experience

| Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 |  |  |  |  |  | 1.084 | 1.044 | 1.039 | 1.028 | 1.024 | 1.020 | 1.017 | 1.017 |
| 2002 |  |  |  |  | 1.109 | 1.064 | 1.047 | 1.032 | 1.026 | 1.021 | 1.018 | 1.017 | 1.014 |
| 2003 |  |  |  | 1.171 | 1.101 | 1.063 | 1.045 | 1.034 | 1.029 | 1.023 | 1.020 | 1.017 | 1.013 |
| 2004 |  |  | 1.339 | 1.161 | 1.101 | 1.069 | 1.048 | 1.036 | 1.030 | 1.025 | 1.020 | 1.016 |  |
| 2005 |  | 1.740 | 1.330 | 1.181 | 1.113 | 1.079 | 1.056 | 1.044 | 1.035 | 1.028 | 1.022 |  |  |
| 2006 | 3.976 | 1.727 | 1.330 | 1.186 | 1.120 | 1.081 | 1.060 | 1.046 | 1.035 | 1.025 |  |  |  |
| 2007 | 3.956 | 1.716 | 1.340 | 1.194 | 1.126 | 1.088 | 1.060 | 1.045 | 1.031 |  |  |  |  |
| 2008 | 4.015 | 1.758 | 1.367 | 1.198 | 1.126 | 1.085 | 1.060 | 1.040 |  |  |  |  |  |
| 2009 | 4.322 | 1.775 | 1.354 | 1.199 | 1.126 | 1.083 | 1.054 |  |  |  |  |  |  |
| 2010 | 4.300 | 1.737 | 1.342 | 1.190 | 1.120 | 1.075 |  |  |  |  |  |  |  |
| 2011 | 4.233 | 1.727 | 1.335 | 1.189 | 1.111 |  |  |  |  |  |  |  |  |
| 2012 | 4.319 | 1.729 | 1.336 | 1.178 |  |  |  |  |  |  |  |  |  |
| 2013 | 4.385 | 1.698 | 1.306 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 4.246 | 1.649 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 4.059 |  |  |  |  |  |  |  |  |  |  |  |  |

All Non-Large Deductible Experience

| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2001 |  |  |  |  |  | 1.074 | 1.044 | 1.037 | 1.026 | 1.020 | 1.019 | 1.016 | 1.014 |
| 2002 |  |  |  |  | 1.095 | 1.068 | 1.045 | 1.030 | 1.024 | 1.019 | 1.017 | 1.014 | 1.012 |
| 2003 |  |  |  | 1.152 | 1.106 | 1.068 | 1.045 | 1.031 | 1.027 | 1.022 | 1.018 | 1.015 | 1.011 |
| 2004 |  |  | 1.325 | 1.155 | 1.102 | 1.066 | 1.048 | 1.032 | 1.030 | 1.023 | 1.018 | 1.015 |  |
| 2005 |  | 1.704 | 1.309 | 1.183 | 1.108 | 1.077 | 1.052 | 1.045 | 1.034 | 1.027 | 1.021 |  |  |
| 2006 | 3.574 | 1.710 | 1.326 | 1.183 | 1.124 | 1.079 | 1.063 | 1.044 | 1.033 | 1.025 |  |  |  |
| 2007 | 3.865 | 1.701 | 1.333 | 1.197 | 1.124 | 1.089 | 1.057 | 1.041 | 1.028 |  |  |  |  |
| 2008 | 3.902 | 1.761 | 1.370 | 1.199 | 1.123 | 1.081 | 1.055 | 1.036 |  |  |  |  |  |
| 2009 | 4.159 | 1.761 | 1.350 | 1.194 | 1.121 | 1.078 | 1.049 |  |  |  |  |  |  |
| 2010 | 4.055 | 1.731 | 1.339 | 1.184 | 1.114 | 1.072 |  |  |  |  |  |  |  |
| 2011 | 4.099 | 1.712 | 1.327 | 1.185 | 1.109 |  |  |  |  |  |  |  |  |
| 2012 | 4.134 | 1.710 | 1.326 | 1.174 |  |  |  |  |  |  |  |  |  |
| 2013 | 4.237 | 1.679 | 1.308 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 4.122 | 1.634 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 3.853 |  |  |  |  |  |  |  |  |  |  |  |  |

## Large Deductible (LD) Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2012 | 2.517 | 1.346 | 1.187 | 1.084 |  |  |  |  |  |  |  |  |  |
| 2013 | 2.410 | 1.377 | 1.156 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 2.617 | 1.335 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 2.385 |  |  |  |  |  |  |  |  |  |  |  |  |

Non-Large Deductible Experience from Insurers Writing LD


All California WC Experience


All Non-Large Deductible Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2012 | 2.463 | 1.339 | 1.185 | 1.092 |  |  |  |  |  |  |  |  |  |
| 2013 | 2.415 | 1.379 | 1.148 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 2.502 | 1.337 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 2.415 |  |  |  |  |  |  |  |  |  |  |  |  |

Large Deductible (LD) Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 25,913 | 26,511 | 26,888 | 27,121 | 27,282 | 27,366 | 27,505 | 27,629 | 27,721 |
| 2002 |  |  |  |  | 23,956 | 24,818 | 25,237 | 25,458 | 25,695 | 25,840 | 25,983 | 26,056 | 26,165 | 26,243 |
| 2003 |  |  |  | 21,776 | 22,971 | 23,516 | 23,970 | 24,343 | 24,556 | 24,783 | 24,989 | 25,117 | 25,295 | 25,420 |
| 2004 |  |  | 16,569 | 17,921 | 18,649 | 19,249 | 19,697 | 20,109 | 20,351 | 20,541 | 20,721 | 20,900 | 21,017 |  |
| 2005 |  | 11,841 | 14,393 | 15,806 | 16,688 | 17,499 | 18,001 | 18,423 | 18,676 | 18,910 | 19,098 | 19,229 |  |  |
| 2006 | 7,182 | 11,908 | 15,067 | 16,600 | 17,938 | 18,779 | 19,358 | 19,629 | 19,928 | 20,176 | 20,371 |  |  |  |
| 2007 | 7,207 | 12,216 | 15,610 | 17,745 | 18,981 | 19,840 | 20,487 | 21,118 | 21,396 | 21,666 |  |  |  |  |
| 2008 | 7,699 | 12,986 | 16,975 | 19,284 | 20,646 | 21,706 | 22,481 | 22,996 | 23,348 |  |  |  |  |  |
| 2009 | 8,200 | 13,993 | 18,069 | 20,624 | 22,331 | 23,504 | 24,183 | 24,688 |  |  |  |  |  |  |
| 2010 | 8,219 | 13,941 | 18,128 | 20,740 | 22,277 | 23,420 | 23,973 |  |  |  |  |  |  |  |
| 2011 | 8,728 | 14,318 | 18,628 | 21,120 | 22,497 | 23,269 |  |  |  |  |  |  |  |  |
| 2012 | 8,633 | 14,789 | 18,867 | 21,180 | 22,546 |  |  |  |  |  |  |  |  |  |
| 2013 | 8,908 | 14,808 | 18,654 | 21,011 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 9,062 | 15,547 | 19,973 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 9,597 | 16,241 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 9,795 |  |  |  |  |  |  |  |  |  |  |  |  |  |

Non-Large Deductible Experience from Insurers Writing LD

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | $\underline{12}$ | $\underline{24}$ | 36 | 48 | 60 | 72 | 84 | $\underline{96}$ | 108 | $\underline{120}$ | 132 | 144 | 156 | $\underline{168}$ |
| 2001 |  |  |  |  |  | 24,645 | 25,365 | 25,665 | 25,779 | 25,851 | 25,884 | 25,971 | 26,033 | 26,024 |
| 2002 |  |  |  |  | 22,607 | 23,457 | 23,573 | 23,708 | 23,906 | 23,991 | 24,116 | 24,128 | 24,067 | 24,118 |
| 2003 |  |  |  | 20,668 | 21,680 | 22,085 | 22,409 | 22,787 | 23,029 | 23,373 | 23,521 | 23,678 | 23,749 | 23,757 |
| 2004 |  |  | 15,775 | 16,808 | 17,320 | 17,945 | 18,255 | 18,505 | 18,661 | 18,949 | 19,005 | 19,085 | 19,180 |  |
| 2005 |  | 11,576 | 13,481 | 14,579 | 15,506 | 16,140 | 16,434 | 16,729 | 17,038 | 17,332 | 17,488 | 17,596 |  |  |
| 2006 | 8,672 | 12,491 | 14,794 | 16,286 | 17,215 | 17,923 | 18,528 | 18,860 | 19,121 | 19,248 | 19,329 |  |  |  |
| 2007 | 8,383 | 13,092 | 16,250 | 17,815 | 18,554 | 19,393 | 20,045 | 20,407 | 20,626 | 20,718 |  |  |  |  |
| 2008 | 8,911 | 14,542 | 18,049 | 19,832 | 21,085 | 21,768 | 22,278 | 22,658 | 22,820 |  |  |  |  |  |
| 2009 | 9,143 | 14,825 | 18,241 | 20,165 | 21,281 | 22,053 | 22,587 | 22,887 |  |  |  |  |  |  |
| 2010 | 9,116 | 14,637 | 18,346 | 20,171 | 21,196 | 22,028 | 22,603 |  |  |  |  |  |  |  |
| 2011 | 9,146 | 14,786 | 17,746 | 19,681 | 20,767 | 21,501 |  |  |  |  |  |  |  |  |
| 2012 | 9,157 | 14,611 | 17,649 | 19,270 | 20,289 |  |  |  |  |  |  |  |  |  |
| 2013 | 9,704 | 14,800 | 17,623 | 19,116 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 9,641 | 14,572 | 17,442 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 9,723 | 15,140 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 9,966 |  |  |  |  |  |  |  |  |  |  |  |  |  |

## All California WC Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | $\underline{36}$ | 48 | 60 | 72 | 84 | $\underline{96}$ | $\underline{108}$ | $\underline{120}$ | 132 | 144 | 156 | $\underline{168}$ |
| 2001 |  |  |  |  |  | 24,742 | 25,322 | 25,651 | 25,904 | 26,076 | 26,262 | 26,422 | 26,570 | 26,647 |
| 2002 |  |  |  |  | 22,585 | 23,381 | 23,829 | 24,118 | 24,371 | 24,627 | 24,805 | 24,917 | 24,975 | 25,039 |
| 2003 |  |  |  | 21,245 | 22,486 | 23,274 | 23,813 | 24,259 | 24,655 | 25,043 | 25,285 | 25,445 | 25,553 | 25,631 |
| 2004 |  |  | 15,981 | 17,309 | 18,038 | 18,809 | 19,309 | 19,856 | 20,215 | 20,519 | 20,653 | 20,785 | 20,856 |  |
| 2005 |  | 11,377 | 13,702 | 15,013 | 16,027 | 16,857 | 17,502 | 18,003 | 18,285 | 18,515 | 18,619 | 18,719 |  |  |
| 2006 | 8,116 | 12,145 | 14,933 | 16,490 | 17,756 | 18,654 | 19,286 | 19,665 | 19,944 | 20,120 | 20,259 |  |  |  |
| 2007 | 8,222 | 13,015 | 16,305 | 18,132 | 19,306 | 20,204 | 20,890 | 21,316 | 21,554 | 21,784 |  |  |  |  |
| 2008 | 8,657 | 13,998 | 17,809 | 19,992 | 21,362 | 22,214 | 22,816 | 23,210 | 23,456 |  |  |  |  |  |
| 2009 | 8,875 | 14,690 | 18,395 | 20,741 | 22,129 | 23,071 | 23,571 | 23,989 |  |  |  |  |  |  |
| 2010 | 8,841 | 14,348 | 18,235 | 20,329 | 21,571 | 22,461 | 22,988 |  |  |  |  |  |  |  |
| 2011 | 9,165 | 14,783 | 18,180 | 20,292 | 21,394 | 22,135 |  |  |  |  |  |  |  |  |
| 2012 | 9,127 | 14,599 | 17,983 | 19,753 | 20,884 |  |  |  |  |  |  |  |  |  |
| 2013 | 9,370 | 14,562 | 17,758 | 19,512 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 9,358 | 14,785 | 18,329 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 9,738 | 15,471 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 9,976 |  |  |  |  |  |  |  |  |  |  |  |  |  |

All Non-Large Deductible Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | 72 | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 24,257 | 24,828 | 25,137 | 25,397 | 25,574 | 25,802 | 25,970 | 26,128 | 26,199 |
| 2002 |  |  |  |  | 22,037 | 22,804 | 23,261 | 23,577 | 23,835 | 24,136 | 24,326 | 24,454 | 24,492 | 24,549 |
| 2003 |  |  |  | 20,996 | 22,255 | 23,158 | 23,738 | 24,219 | 24,703 | 25,169 | 25,429 | 25,604 | 25,679 | 25,734 |
| 2004 |  |  | 15,679 | 16,987 | 17,716 | 18,574 | 19,104 | 19,721 | 20,142 | 20,508 | 20,616 | 20,723 | 20,770 |  |
| 2005 |  | 11,131 | 13,320 | 14,570 | 15,654 | 16,494 | 17,220 | 17,765 | 18,064 | 18,290 | 18,346 | 18,428 |  |  |
| 2006 | 8,547 | 12,272 | 14,860 | 16,428 | 17,654 | 18,584 | 19,245 | 19,685 | 19,952 | 20,088 | 20,195 |  |  |  |
| 2007 | 8,709 | 13,437 | 16,681 | 18,343 | 19,484 | 20,404 | 21,111 | 21,426 | 21,641 | 21,849 |  |  |  |  |
| 2008 | 9,096 | 14,519 | 18,245 | 20,366 | 21,743 | 22,485 | 22,995 | 23,324 | 23,514 |  |  |  |  |  |
| 2009 | 9,185 | 15,048 | 18,567 | 20,803 | 22,021 | 22,839 | 23,241 | 23,613 |  |  |  |  |  |  |
| 2010 | 9,128 | 14,560 | 18,293 | 20,108 | 21,192 | 21,944 | 22,455 |  |  |  |  |  |  |  |
| 2011 | 9,360 | 15,014 | 17,951 | 19,866 | 20,823 | 21,545 |  |  |  |  |  |  |  |  |
| 2012 | 9,362 | 14,495 | 17,492 | 18,954 | 19,950 |  |  |  |  |  |  |  |  |  |
| 2013 | 9,606 | 14,426 | 17,248 | 18,652 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 9,507 | 14,359 | 17,384 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 9,809 | 15,039 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 10,066 |  |  |  |  |  |  |  |  |  |  |  |  |  |

Large Deductible (LD) Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | $\underline{60}$ | $\underline{72}$ | 84 | 96 | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 18,533 | 20,066 | 21,378 | 22,188 | 22,774 | 23,230 | 23,496 | 23,965 | 24,365 |
| 2002 |  |  |  |  | 16,955 | 18,708 | 20,110 | 21,103 | 21,755 | 22,212 | 22,621 | 23,015 | 23,348 | 23,724 |
| 2003 |  |  |  | 14,339 | 16,531 | 18,420 | 19,452 | 20,230 | 20,776 | 21,250 | 21,786 | 22,163 | 22,502 | 22,928 |
| 2004 |  |  | 7,896 | 10,954 | 13,204 | 14,513 | 15,430 | 16,070 | 16,698 | 17,369 | 17,805 | 18,282 | 18,645 |  |
| 2005 |  | 3,288 | 6,202 | 9,453 | 11,228 | 12,644 | 13,612 | 14,500 | 15,411 | 15,977 | 16,534 | 16,991 |  |  |
| 2006 | 1,993 | 3,832 | 7,422 | 10,355 | 12,093 | 13,495 | 14,621 | 15,541 | 16,288 | 17,080 | 17,683 |  |  |  |
| 2007 | 1,280 | 3,599 | 6,967 | 10,062 | 12,201 | 13,876 | 15,285 | 16,505 | 17,348 | 18,238 |  |  |  |  |
| 2008 | 1,462 | 3,816 | 7,666 | 10,719 | 13,136 | 15,259 | 17,011 | 18,234 | 19,310 |  |  |  |  |  |
| 2009 | 1,577 | 4,217 | 7,898 | 11,304 | 14,418 | 16,800 | 18,701 | 20,145 |  |  |  |  |  |  |
| 2010 | 1,660 | 4,115 | 8,074 | 11,911 | 15,110 | 17,313 | 19,201 |  |  |  |  |  |  |  |
| 2011 | 1,778 | 4,499 | 8,717 | 12,751 | 15,800 | 17,940 |  |  |  |  |  |  |  |  |
| 2012 | 1,946 | 4,960 | 9,611 | 13,421 | 16,361 |  |  |  |  |  |  |  |  |  |
| 2013 | 2,019 | 5,388 | 10,034 | 13,924 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 2,217 | 5,972 | 11,073 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 2,430 | 6,602 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 2,649 |  |  |  |  |  |  |  |  |  |  |  |  |  |

Non-Large Deductible Experience from Insurers Writing LD

|  | 俍 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | $\underline{60}$ | $\underline{72}$ | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | $\underline{168}$ |
| 2001 |  |  |  |  |  | 18,503 | 19,828 | 20,593 | 21,423 | 21,973 | 22,342 | 22,810 | 23,076 | 23,321 |
| 2002 |  |  |  |  | 15,568 | 17,227 | 18,484 | 19,405 | 20,000 | 20,421 | 20,837 | 21,311 | 21,752 | 22,024 |
| 2003 |  |  |  | 12,237 | 14,342 | 16,139 | 17,285 | 18,043 | 18,589 | 19,044 | 19,786 | 20,321 | 20,861 | 21,293 |
| 2004 |  |  | 7,408 | 10,218 | 11,735 | 13,005 | 13,977 | 14,558 | 15,224 | 15,827 | 16,411 | 16,790 | 17,176 |  |
| 2005 |  | 3,019 | 6,178 | 8,195 | 10,596 | 11,473 | 12,314 | 13,122 | 13,879 | 14,653 | 15,182 | 15,633 |  |  |
| 2006 | 1,794 | 3,762 | 6,367 | 9,117 | 11,357 | 12,732 | 13,743 | 14,884 | 15,694 | 16,513 | 17,219 |  |  |  |
| 2007 | 1,318 | 3,383 | 6,918 | 9,841 | 11,892 | 13,579 | 15,023 | 16,217 | 17,165 | 18,026 |  |  |  |  |
| 2008 | 1,265 | 3,732 | 7,480 | 10,817 | 13,466 | 15,633 | 16,975 | 18,437 | 19,308 |  |  |  |  |  |
| 2009 | 1,593 | 4,020 | 7,951 | 11,241 | 13,914 | 15,785 | 17,559 | 18,806 |  |  |  |  |  |  |
| 2010 | 1,253 | 3,878 | 7,701 | 11,479 | 14,374 | 16,556 | 18,226 |  |  |  |  |  |  |  |
| 2011 | 1,318 | 4,055 | 8,190 | 11,797 | 14,667 | 16,633 |  |  |  |  |  |  |  |  |
| 2012 | 1,737 | 4,908 | 8,787 | 12,259 | 14,790 |  |  |  |  |  |  |  |  |  |
| 2013 | 2,266 | 5,345 | 9,528 | 12,780 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 2,059 | 5,386 | 9,703 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 2,197 | 5,822 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 2,314 |  |  |  |  |  |  |  |  |  |  |  |  |  |

All California WC Experience $\quad$ Evaluated as of (months):

| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | $\underline{72}$ | 84 | 96 | 108 | 120 | 132 | 144 | 156 | 168 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2001 |  |  |  |  |  | 17,636 | 18,933 | 19,904 | 20,679 | 21,266 | 21,726 | 22,124 | 22,667 | 23,044 |
| 2002 |  |  |  |  | 15,185 | 16,892 | 18,222 | 19,177 | 19,813 | 20,305 | 20,806 | 21,464 | 21,834 | 22,161 |
| 2003 |  |  |  | 12,789 | 15,106 | 16,868 | 17,977 | 18,749 | 19,395 | 20,015 | 20,853 | 21,347 | 21,796 | 22,321 |
| 2004 |  |  | 6,999 | 9,867 | 11,886 | 13,179 | 14,067 | 14,773 | 15,580 | 16,489 | 17,037 | 17,518 | 17,957 |  |
| 2005 |  | 2,920 | 5,668 | 8,359 | 10,245 | 11,404 | 12,296 | 13,157 | 14,240 | 14,926 | 15,493 | 15,994 |  |  |
| 2006 | 1,534 | 3,345 | 6,359 | 9,141 | 11,038 | 12,439 | 13,641 | 14,914 | 15,791 | 16,534 | 17,214 |  |  |  |
| 2007 | 1,310 | 3,403 | 6,689 | 9,594 | 11,735 | 13,474 | 15,097 | 16,286 | 17,208 | 18,075 |  |  |  |  |
| 2008 | 1,382 | 3,654 | 7,317 | 10,541 | 13,118 | 15,503 | 16,991 | 18,242 | 19,224 |  |  |  |  |  |
| 2009 | 1,541 | 4,012 | 7,795 | 11,203 | 14,255 | 16,350 | 18,057 | 19,392 |  |  |  |  |  |  |
| 2010 | 1,401 | 3,968 | 7,879 | 11,734 | 14,572 | 16,631 | 18,327 |  |  |  |  |  |  |  |
| 2011 | 1,540 | 4,310 | 8,497 | 12,128 | 14,907 | 16,874 |  |  |  |  |  |  |  |  |
| 2012 | 1,789 | 4,967 | 9,040 | 12,552 | 15,121 |  |  |  |  |  |  |  |  |  |
| 2013 | 2,104 | 5,317 | 9,525 | 12,954 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 2,153 | 5,647 | 10,168 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 2,347 | 6,177 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 2,492 |  |  |  |  |  |  |  |  |  |  |  |  |  |

All Non-Large Deductible Experience $\quad$ Evaluated as of (months):

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | 72 | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 17,261 | 18,456 | 19,284 | 20,044 | 20,631 | 21,095 | 21,548 | 22,123 | 22,492 |
| 2002 |  |  |  |  | 14,464 | 16,148 | 17,441 | 18,377 | 19,009 | 19,519 | 20,060 | 20,829 | 21,216 | 21,521 |
| 2003 |  |  |  | 12,021 | 14,397 | 16,088 | 17,237 | 18,008 | 18,712 | 19,406 | 20,398 | 20,949 | 21,451 | 22,025 |
| 2004 |  |  | 6,530 | 9,278 | 11,156 | 12,436 | 13,312 | 14,063 | 14,971 | 16,013 | 16,624 | 17,105 | 17,586 |  |
| 2005 |  | 2,716 | 5,365 | 7,728 | 9,667 | 10,676 | 11,530 | 12,378 | 13,567 | 14,324 | 14,896 | 15,423 |  |  |
| 2006 | 1,342 | 3,105 | 5,798 | 8,454 | 10,427 | 11,829 | 13,074 | 14,554 | 15,507 | 16,222 | 16,946 |  |  |  |
| 2007 | 1,324 | 3,302 | 6,536 | 9,333 | 11,475 | 13,250 | 14,993 | 16,164 | 17,131 | 17,985 |  |  |  |  |
| 2008 | 1,344 | 3,569 | 7,128 | 10,444 | 13,108 | 15,634 | 16,980 | 18,247 | 19,178 |  |  |  |  |  |
| 2009 | 1,523 | 3,905 | 7,740 | 11,149 | 14,167 | 16,109 | 17,712 | 18,988 |  |  |  |  |  |  |
| 2010 | 1,274 | 3,892 | 7,775 | 11,638 | 14,283 | 16,266 | 17,857 |  |  |  |  |  |  |  |
| 2011 | 1,430 | 4,218 | 8,386 | 11,809 | 14,447 | 16,323 |  |  |  |  |  |  |  |  |
| 2012 | 1,709 | 4,971 | 8,727 | 12,069 | 14,430 |  |  |  |  |  |  |  |  |  |
| 2013 | 2,152 | 5,279 | 9,235 | 12,399 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 2,119 | 5,467 | 9,655 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 2,305 | 5,943 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 2,415 |  |  |  |  |  |  |  |  |  |  |  |  |  |

Large Deductible (LD) Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | $\underline{72}$ | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 66,400 | 76,145 | 83,671 | 93,084 | 101,814 | 105,494 | 115,134 | 121,374 | 126,059 |
| 2002 |  |  |  |  | 52,263 | 61,715 | 70,857 | 79,703 | 87,506 | 93,510 | 99,061 | 103,875 | 108,896 | 112,731 |
| 2003 |  |  |  | 42,362 | 51,284 | 58,690 | 69,103 | 78,266 | 83,945 | 91,015 | 98,456 | 103,923 | 111,640 | 118,642 |
| 2004 |  |  | 30,379 | 37,822 | 45,290 | 53,043 | 60,748 | 67,878 | 73,649 | 79,547 | 86,789 | 91,788 | 96,542 |  |
| 2005 |  | 20,600 | 29,157 | 35,870 | 43,825 | 51,533 | 57,759 | 63,786 | 69,026 | 75,164 | 80,241 | 84,050 |  |  |
| 2006 | 8,646 | 18,571 | 27,042 | 34,205 | 44,596 | 51,832 | 59,896 | 65,810 | 71,766 | 75,775 | 80,644 |  |  |  |
| 2007 | 9,198 | 20,455 | 30,765 | 40,406 | 48,488 | 54,577 | 62,707 | 70,590 | 75,758 | 80,107 |  |  |  |  |
| 2008 | 10,099 | 21,407 | 32,680 | 42,372 | 50,347 | 58,736 | 67,164 | 75,175 | 81,520 |  |  |  |  |  |
| 2009 | 10,651 | 22,452 | 33,311 | 43,523 | 52,631 | 60,256 | 66,519 | 73,582 |  |  |  |  |  |  |
| 2010 | 10,675 | 22,363 | 33,403 | 43,828 | 51,855 | 59,579 | 64,931 |  |  |  |  |  |  |  |
| 2011 | 11,276 | 22,688 | 34,318 | 43,758 | 51,540 | 57,397 |  |  |  |  |  |  |  |  |
| 2012 | 11,223 | 23,835 | 34,483 | 43,751 | 51,376 |  |  |  |  |  |  |  |  |  |
| 2013 | 11,617 | 23,569 | 34,201 | 43,925 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 11,672 | 24,871 | 36,799 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 12,292 | 26,016 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 12,644 |  |  |  |  |  |  |  |  |  |  |  |  |  |

Non-Large Deductible Experience from Insurers Writing LD

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | $\underline{72}$ | 84 | $\underline{96}$ | 108 | $\underline{120}$ | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 60,696 | 71,859 | 81,896 | 89,536 | 97,319 | 103,711 | 107,562 | 112,000 | 115,620 |
| 2002 |  |  |  |  | 53,214 | 66,681 | 70,513 | 78,001 | 86,092 | 95,540 | 101,021 | 104,168 | 103,505 | 108,596 |
| 2003 |  |  |  | 42,752 | 55,343 | 60,293 | 69,801 | 80,625 | 96,372 | 108,479 | 116,340 | 125,661 | 124,203 | 130,398 |
| 2004 |  |  | 30,045 | 37,718 | 44,199 | 51,620 | 58,217 | 68,393 | 72,588 | 80,702 | 85,506 | 89,934 | 97,711 |  |
| 2005 |  | 18,819 | 25,892 | 34,186 | 38,674 | 47,066 | 53,687 | 58,169 | 62,047 | 68,379 | 73,733 | 80,728 |  |  |
| 2006 | 10,685 | 20,752 | 30,190 | 37,606 | 42,946 | 50,233 | 56,799 | 61,613 | 68,181 | 67,704 | 67,625 |  |  |  |
| 2007 | 11,704 | 23,150 | 33,504 | 41,799 | 48,959 | 55,605 | 64,484 | 70,919 | 76,734 | 82,040 |  |  |  |  |
| 2008 | 11,788 | 24,490 | 35,174 | 44,205 | 52,185 | 58,890 | 67,138 | 71,504 | 79,616 |  |  |  |  |  |
| 2009 | 11,840 | 24,152 | 34,509 | 43,064 | 50,513 | 58,256 | 64,195 | 71,742 |  |  |  |  |  |  |
| 2010 | 11,777 | 23,826 | 34,479 | 43,008 | 49,794 | 56,824 | 65,423 |  |  |  |  |  |  |  |
| 2011 | 11,803 | 23,785 | 32,999 | 41,615 | 48,268 | 55,392 |  |  |  |  |  |  |  |  |
| 2012 | 11,752 | 23,058 | 32,902 | 40,426 | 47,255 |  |  |  |  |  |  |  |  |  |
| 2013 | 12,212 | 23,714 | 32,466 | 39,682 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 12,435 | 23,749 | 33,028 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 12,678 | 25,146 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 13,133 |  |  |  |  |  |  |  |  |  |  |  |  |  |

All California WC Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | $\underline{36}$ | 48 | 60 | 72 | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 62,303 | 71,127 | 79,779 | 88,248 | 95,747 | 104,424 | 112,781 | 121,971 | 127,940 |
| 2002 |  |  |  |  | 50,597 | 58,876 | 65,848 | 72,841 | 79,951 | 89,255 | 96,393 | 103,996 | 109,509 | 114,691 |
| 2003 |  |  |  | 41,672 | 50,545 | 58,622 | 67,665 | 76,909 | 88,187 | 99,553 | 112,809 | 121,239 | 126,231 | 133,918 |
| 2004 |  |  | 29,973 | 37,129 | 43,500 | 50,992 | 58,234 | 68,373 | 76,154 | 87,594 | 95,069 | 100,466 | 108,396 |  |
| 2005 |  | 19,572 | 27,527 | 34,451 | 40,898 | 48,638 | 57,238 | 65,434 | 72,884 | 79,987 | 84,793 | 91,489 |  |  |
| 2006 | 10,141 | 20,183 | 29,327 | 36,671 | 45,312 | 53,457 | 61,182 | 68,961 | 75,489 | 79,686 | 85,607 |  |  |  |
| 2007 | 10,765 | 22,426 | 32,898 | 41,691 | 49,819 | 57,010 | 66,928 | 74,796 | 80,849 | 89,141 |  |  |  |  |
| 2008 | 11,294 | 23,346 | 34,466 | 44,020 | 52,219 | 60,311 | 69,306 | 76,684 | 85,672 |  |  |  |  |  |
| 2009 | 11,478 | 23,759 | 34,140 | 43,581 | 51,911 | 60,021 | 66,286 | 74,804 |  |  |  |  |  |  |
| 2010 | 11,471 | 23,277 | 33,930 | 42,861 | 50,425 | 57,865 | 65,104 |  |  |  |  |  |  |  |
| 2011 | 11,886 | 23,813 | 33,751 | 42,718 | 49,821 | 57,011 |  |  |  |  |  |  |  |  |
| 2012 | 11,793 | 23,338 | 33,325 | 41,189 | 48,634 |  |  |  |  |  |  |  |  |  |
| 2013 | 11,977 | 23,163 | 32,660 | 40,915 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 11,977 | 23,759 | 34,232 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 12,531 | 25,148 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 13,001 |  |  |  |  |  |  |  |  |  |  |  |  |  |

## All Non-Large Deductible Experience

|  | Evaluated as of (monts). |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | $\underline{60}$ | 72 | 84 | $\underline{96}$ | 108 | $\underline{120}$ | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 60,678 | 69,217 | 78,335 | 86,511 | 93,620 | 104,029 | 111,903 | 122,206 | 128,683 |
| 2002 |  |  |  |  | 49,978 | 57,860 | 64,208 | 70,768 | 77,726 | 87,955 | 95,550 | 104,039 | 109,730 | 115,391 |
| 2003 |  |  |  | 41,392 | 50,247 | 58,597 | 67,183 | 76,473 | 89,635 | 102,563 | 118,461 | 128,218 | 132,020 | 140,049 |
| 2004 |  |  | 29,767 | 36,791 | 42,727 | 50,168 | 57,281 | 68,571 | 77,184 | 91,273 | 98,933 | 104,468 | 114,278 |  |
| 2005 |  | 19,049 | 26,666 | 33,725 | 39,518 | 47,353 | 57,004 | 66,176 | 74,695 | 82,315 | 86,971 | 95,247 |  |  |
| 2006 | 10,853 | 21,110 | 30,670 | 38,012 | 45,664 | 54,250 | 61,782 | 70,547 | 77,421 | 81,671 | 88,253 |  |  |  |
| 2007 | 11,544 | 23,487 | 34,037 | 42,340 | 50,481 | 58,242 | 69,185 | 77,088 | 83,729 | 94,639 |  |  |  |  |
| 2008 | 11,829 | 24,332 | 35,347 | 44,837 | 53,148 | 61,139 | 70,413 | 77,471 | 87,961 |  |  |  |  |  |
| 2009 | 11,852 | 24,422 | 34,573 | 43,610 | 51,532 | 59,895 | 66,161 | 75,487 |  |  |  |  |  |  |
| 2010 | 11,831 | 23,757 | 34,209 | 42,341 | 49,658 | 56,910 | 65,204 |  |  |  |  |  |  |  |
| 2011 | 12,156 | 24,376 | 33,457 | 42,174 | 48,919 | 56,801 |  |  |  |  |  |  |  |  |
| 2012 | 12,057 | 23,069 | 32,672 | 39,715 | 47,027 |  |  |  |  |  |  |  |  |  |
| 2013 | 12,154 | 22,938 | 31,779 | 39,167 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 12,128 | 23,134 | 32,709 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 12,653 | 24,652 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 13,181 |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Large Deductible (LD) Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | $\underline{72}$ | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 20,632 | 21,731 | 23,012 | 23,679 | 24,581 | 23,901 | 25,345 | 24,967 | 25,224 |
| 2002 |  |  |  |  | 17,202 | 18,132 | 20,224 | 20,573 | 22,483 | 21,686 | 22,541 | 21,655 | 21,027 | 21,137 |
| 2003 |  |  |  | 15,713 | 16,445 | 17,551 | 20,093 | 22,673 | 22,400 | 24,169 | 25,556 | 25,393 | 26,363 | 28,239 |
| 2004 |  |  | 13,493 | 14,116 | 15,871 | 17,916 | 19,809 | 21,817 | 22,147 | 23,126 | 23,295 | 26,163 | 27,458 |  |
| 2005 |  | 10,216 | 11,407 | 13,081 | 15,149 | 17,595 | 19,104 | 20,285 | 21,076 | 22,971 | 23,495 | 24,224 |  |  |
| 2006 | 5,652 | 8,699 | 10,878 | 13,044 | 16,192 | 18,337 | 20,009 | 20,707 | 21,831 | 22,736 | 23,403 |  |  |  |
| 2007 | 5,701 | 9,435 | 12,310 | 15,124 | 16,917 | 17,884 | 20,026 | 23,080 | 23,085 | 22,984 |  |  |  |  |
| 2008 | 6,308 | 10,024 | 13,142 | 15,290 | 16,507 | 18,458 | 20,292 | 21,968 | 24,193 |  |  |  |  |  |
| 2009 | 6,675 | 10,518 | 12,995 | 15,039 | 17,120 | 18,947 | 20,364 | 21,920 |  |  |  |  |  |  |
| 2010 | 6,587 | 10,364 | 12,805 | 15,256 | 17,016 | 18,592 | 19,168 |  |  |  |  |  |  |  |
| 2011 | 7,201 | 10,533 | 13,727 | 15,959 | 17,536 | 18,572 |  |  |  |  |  |  |  |  |
| 2012 | 6,775 | 11,255 | 13,620 | 15,710 | 17,625 |  |  |  |  |  |  |  |  |  |
| 2013 | 7,312 | 11,078 | 13,299 | 15,458 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 7,388 | 12,117 | 14,800 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 7,859 | 12,655 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 8,120 |  |  |  |  |  |  |  |  |  |  |  |  |  |

Non-Large Deductible Experience from Insurers Writing LD

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | 72 | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 19,558 | 22,471 | 22,926 | 23,468 | 23,828 | 22,128 | 22,652 | 22,893 | 22,237 |
| 2002 |  |  |  |  | 19,163 | 23,730 | 22,073 | 22,362 | 24,588 | 25,719 | 27,586 | 26,526 | 23,127 | 23,653 |
| 2003 |  |  |  | 16,513 | 19,977 | 19,495 | 20,748 | 24,044 | 27,680 | 29,705 | 29,821 | 30,012 | 28,878 | 26,643 |
| 2004 |  |  | 13,866 | 15,581 | 15,932 | 17,128 | 19,477 | 21,934 | 20,727 | 23,427 | 22,091 | 23,238 | 22,663 |  |
| 2005 |  | 10,140 | 11,731 | 12,580 | 14,506 | 17,695 | 18,770 | 19,389 | 19,762 | 22,506 | 23,493 | 25,981 |  |  |
| 2006 | 7,874 | 11,750 | 13,573 | 15,390 | 16,999 | 18,853 | 20,418 | 22,094 | 24,122 | 22,566 | 22,970 |  |  |  |
| 2007 | 8,440 | 12,340 | 14,847 | 16,636 | 17,611 | 19,564 | 22,195 | 24,755 | 26,138 | 26,244 |  |  |  |  |
| 2008 | 8,146 | 12,947 | 15,520 | 16,674 | 18,338 | 20,006 | 21,856 | 23,424 | 26,045 |  |  |  |  |  |
| 2009 | 8,413 | 13,425 | 15,531 | 17,293 | 18,538 | 20,238 | 22,246 | 24,129 |  |  |  |  |  |  |
| 2010 | 8,267 | 12,757 | 15,245 | 16,501 | 17,813 | 19,920 | 22,915 |  |  |  |  |  |  |  |
| 2011 | 8,179 | 12,613 | 13,872 | 15,922 | 17,409 | 19,327 |  |  |  |  |  |  |  |  |
| 2012 | 8,061 | 12,207 | 14,415 | 15,461 | 17,546 |  |  |  |  |  |  |  |  |  |
| 2013 | 8,683 | 13,135 | 14,541 | 15,238 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 8,988 | 13,163 | 14,680 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 9,266 | 14,390 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 9,505 |  |  |  |  |  |  |  |  |  |  |  |  |  |

All California WC Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | 72 | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | $\underline{168}$ |
| 2001 |  |  |  |  |  | 19,644 | 21,042 | 22,476 | 23,887 | 24,877 | 26,602 | 27,938 | 30,128 | 30,736 |
| 2002 |  |  |  |  | 16,271 | 17,560 | 18,505 | 19,301 | 20,892 | 22,682 | 23,644 | 25,016 | 25,584 | 25,427 |
| 2003 |  |  |  | 15,066 | 16,613 | 18,512 | 20,917 | 23,612 | 26,605 | 29,920 | 33,711 | 34,884 | 34,938 | 37,772 |
| 2004 |  |  | 13,041 | 14,099 | 15,446 | 17,786 | 19,829 | 23,174 | 25,105 | 29,299 | 30,540 | 32,309 | 35,175 |  |
| 2005 |  | 9,838 | 11,229 | 12,580 | 14,808 | 17,684 | 20,680 | 23,495 | 25,678 | 27,558 | 28,404 | 30,915 |  |  |
| 2006 | 7,120 | 10,191 | 12,215 | 14,276 | 17,335 | 19,932 | 21,931 | 24,718 | 26,594 | 27,475 | 30,606 |  |  |  |
| 2007 | 7,370 | 11,247 | 13,977 | 16,174 | 18,101 | 19,989 | 23,900 | 26,539 | 27,847 | 30,799 |  |  |  |  |
| 2008 | 7,569 | 11,603 | 14,568 | 16,539 | 18,070 | 20,716 | 23,227 | 25,567 | 29,402 |  |  |  |  |  |
| 2009 | 7,817 | 12,410 | 14,589 | 16,587 | 18,677 | 20,972 | 22,440 | 25,383 |  |  |  |  |  |  |
| 2010 | 7,811 | 11,902 | 14,325 | 16,045 | 17,734 | 19,606 | 21,792 |  |  |  |  |  |  |  |
| 2011 | 8,193 | 12,409 | 14,321 | 16,673 | 18,308 | 20,140 |  |  |  |  |  |  |  |  |
| 2012 | 7,989 | 12,122 | 14,437 | 15,812 | 17,853 |  |  |  |  |  |  |  |  |  |
| 2013 | 8,346 | 12,280 | 14,041 | 15,458 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 8,368 | 12,680 | 14,859 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 8,840 | 13,681 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 9,128 |  |  |  |  |  |  |  |  |  |  |  |  |  |

All Non-Large Deductible Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | 72 | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 19,253 | 20,779 | 22,277 | 23,962 | 24,980 | 27,599 | 28,906 | 32,154 | 32,913 |
| 2002 |  |  |  |  | 15,925 | 17,356 | 17,941 | 18,917 | 20,424 | 22,986 | 23,993 | 26,195 | 27,233 | 26,960 |
| 2003 |  |  |  | 14,803 | 16,680 | 18,862 | 21,193 | 23,913 | 28,041 | 31,946 | 36,922 | 38,709 | 38,340 | 41,598 |
| 2004 |  |  | 12,813 | 14,091 | 15,262 | 17,733 | 19,837 | 23,717 | 26,322 | 32,121 | 33,921 | 35,143 | 39,004 |  |
| 2005 |  | 9,646 | 11,135 | 12,323 | 14,647 | 17,723 | 21,388 | 24,940 | 27,838 | 29,772 | 30,752 | 34,295 |  |  |
| 2006 | 7,819 | 11,050 | 13,001 | 14,947 | 17,897 | 20,709 | 22,827 | 26,736 | 29,064 | 29,879 | 34,446 |  |  |  |
| 2007 | 8,200 | 12,222 | 14,866 | 16,703 | 18,690 | 21,056 | 25,972 | 28,425 | 30,541 | 35,556 |  |  |  |  |
| 2008 | 8,133 | 12,405 | 15,271 | 17,158 | 18,846 | 21,903 | 24,744 | 27,446 | 32,272 |  |  |  |  |  |
| 2009 | 8,334 | 13,371 | 15,423 | 17,386 | 19,496 | 22,061 | 23,560 | 27,319 |  |  |  |  |  |  |
| 2010 | 8,364 | 12,709 | 15,130 | 16,470 | 18,119 | 20,171 | 23,318 |  |  |  |  |  |  |  |
| 2011 | 8,632 | 13,349 | 14,630 | 17,047 | 18,712 | 20,995 |  |  |  |  |  |  |  |  |
| 2012 | 8,551 | 12,591 | 14,898 | 15,871 | 17,986 |  |  |  |  |  |  |  |  |  |
| 2013 | 8,854 | 12,947 | 14,464 | 15,457 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 8,850 | 12,997 | 14,894 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 9,340 | 14,268 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 9,636 |  |  |  |  |  |  |  |  |  |  |  |  |  |

Large Deductible (LD) Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | $\underline{12}$ | $\underline{24}$ | $\underline{36}$ | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 28,202 | 38,722 | 50,426 | 62,425 | 78,105 | 84,451 | 91,938 | 99,153 | 107,600 |
| 2002 |  |  |  |  | 19,477 | 26,387 | 35,957 | 46,741 | 58,217 | 66,121 | 74,992 | 81,427 | 90,318 | 89,743 |
| 2003 |  |  |  | 16,032 | 21,055 | 28,765 | 37,811 | 48,153 | 56,613 | 65,269 | 70,722 | 75,773 | 82,631 | 83,617 |
| 2004 |  |  | 13,393 | 17,866 | 24,504 | 32,120 | 40,955 | 48,779 | 56,604 | 67,601 | 76,749 | 84,172 | 89,162 |  |
| 2005 |  | 13,746 | 17,229 | 21,200 | 27,032 | 34,419 | 41,584 | 48,766 | 56,351 | 64,575 | 73,286 | 80,023 |  |  |
| 2006 | 10,698 | 12,889 | 16,067 | 21,182 | 28,288 | 33,737 | 41,446 | 48,376 | 56,936 | 63,493 | 65,715 |  |  |  |
| 2007 | 11,763 | 14,484 | 18,715 | 24,327 | 29,373 | 35,350 | 44,681 | 54,490 | 61,602 | 64,722 |  |  |  |  |
| 2008 | 12,771 | 15,977 | 20,446 | 25,460 | 31,427 | 39,298 | 49,120 | 59,550 | 68,041 |  |  |  |  |  |
| 2009 | 14,141 | 16,538 | 20,114 | 24,123 | 30,414 | 37,956 | 45,226 | 51,973 |  |  |  |  |  |  |
| 2010 | 14,058 | 16,759 | 20,678 | 25,943 | 31,630 | 37,102 | 42,682 |  |  |  |  |  |  |  |
| 2011 | 14,951 | 17,330 | 22,800 | 27,821 | 33,356 | 38,090 |  |  |  |  |  |  |  |  |
| 2012 | 14,692 | 18,110 | 21,914 | 26,345 | 30,649 |  |  |  |  |  |  |  |  |  |
| 2013 | 15,291 | 17,946 | 21,306 | 26,462 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 14,774 | 17,749 | 20,767 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 14,990 | 17,343 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 15,382 |  |  |  |  |  |  |  |  |  |  |  |  |  |

Non-Large Deductible Experience from Insurers Writing LD

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | 72 | 84 | $\underline{96}$ | 108 | $\underline{120}$ | $\underline{132}$ | 144 | $\underline{156}$ | 168 |
| 2001 |  |  |  |  |  | 28,616 | 40,303 | 50,231 | 59,954 | 71,948 | 77,346 | 84,398 | 90,458 | 101,558 |
| 2002 |  |  |  |  | 25,223 | 38,205 | 41,087 | 48,746 | 59,465 | 76,299 | 82,489 | 92,433 | 101,351 | 105,272 |
| 2003 |  |  |  | 20,291 | 27,631 | 33,092 | 41,861 | 51,714 | 64,390 | 70,931 | 77,126 | 84,097 | 85,898 | 86,360 |
| 2004 |  |  | 16,970 | 22,261 | 27,972 | 35,816 | 45,254 | 56,790 | 63,553 | 73,318 | 82,509 | 86,245 | 91,067 |  |
| 2005 |  | 15,893 | 19,851 | 23,506 | 28,527 | 38,401 | 46,108 | 52,704 | 57,473 | 62,428 | 67,436 | 77,874 |  |  |
| 2006 | 14,075 | 17,002 | 21,532 | 26,089 | 30,644 | 37,786 | 43,601 | 50,182 | 59,662 | 63,310 | 63,510 |  |  |  |
| 2007 | 16,018 | 19,371 | 23,758 | 28,426 | 33,122 | 40,105 | 49,231 | 60,030 | 68,617 | 77,692 |  |  |  |  |
| 2008 | 15,391 | 19,540 | 23,209 | 26,408 | 33,708 | 41,532 | 49,282 | 57,228 | 66,586 |  |  |  |  |  |
| 2009 | 15,677 | 19,763 | 23,994 | 30,035 | 35,517 | 41,337 | 48,614 | 56,607 |  |  |  |  |  |  |
| 2010 | 16,355 | 19,954 | 24,736 | 29,820 | 35,502 | 41,770 | 48,636 |  |  |  |  |  |  |  |
| 2011 | 16,127 | 19,769 | 23,420 | 28,667 | 34,823 | 39,210 |  |  |  |  |  |  |  |  |
| 2012 | 16,454 | 20,160 | 23,997 | 27,561 | 32,392 |  |  |  |  |  |  |  |  |  |
| 2013 | 16,197 | 20,312 | 22,578 | 26,257 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 16,734 | 19,245 | 22,381 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 17,011 | 20,960 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 17,446 |  |  |  |  |  |  |  |  |  |  |  |  |  |

All California WC Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | $\underline{60}$ | $\underline{72}$ | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 27,423 | 35,208 | 44,615 | 55,871 | 69,501 | 80,353 | 89,295 | 100,912 | 109,426 |
| 2002 |  |  |  |  | 20,529 | 26,940 | 33,748 | 42,372 | 51,355 | 62,347 | 72,814 | 83,501 | 91,973 | 92,023 |
| 2003 |  |  |  | 17,676 | 21,664 | 28,985 | 36,792 | 46,277 | 58,514 | 69,536 | 81,556 | 87,088 | 88,904 | 91,207 |
| 2004 |  |  | 14,769 | 19,348 | 25,314 | 31,495 | 40,525 | 50,231 | 58,902 | 73,461 | 79,190 | 82,918 | 89,704 |  |
| 2005 |  | 14,130 | 17,841 | 21,444 | 25,915 | 34,763 | 43,267 | 52,931 | 63,921 | 73,533 | 77,315 | 87,247 |  |  |
| 2006 | 12,030 | 15,443 | 19,800 | 24,148 | 30,327 | 37,392 | 45,089 | 56,135 | 65,177 | 71,025 | 76,098 |  |  |  |
| 2007 | 13,354 | 17,453 | 21,752 | 27,200 | 33,287 | 40,769 | 51,226 | 60,739 | 68,522 | 75,582 |  |  |  |  |
| 2008 | 13,997 | 18,011 | 22,556 | 27,730 | 33,903 | 42,217 | 51,116 | 60,140 | 69,387 |  |  |  |  |  |
| 2009 | 14,511 | 18,807 | 23,370 | 28,562 | 34,631 | 41,851 | 48,758 | 57,355 |  |  |  |  |  |  |
| 2010 | 14,801 | 18,799 | 23,301 | 28,489 | 34,187 | 39,872 | 46,261 |  |  |  |  |  |  |  |
| 2011 | 15,354 | 19,812 | 24,122 | 30,014 | 36,528 | 41,371 |  |  |  |  |  |  |  |  |
| 2012 | 15,569 | 19,690 | 23,841 | 27,802 | 32,676 |  |  |  |  |  |  |  |  |  |
| 2013 | 15,450 | 19,768 | 22,659 | 26,888 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 15,285 | 18,818 | 22,030 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 15,905 | 19,659 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 16,401 |  |  |  |  |  |  |  |  |  |  |  |  |  |

All Non-Large Deductible Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 27,114 | 33,869 | 42,458 | 53,515 | 66,485 | 78,840 | 88,309 | 101,603 | 110,147 |
| 2002 |  |  |  |  | 20,920 | 27,138 | 33,025 | 41,052 | 49,333 | 61,195 | 72,126 | 84,228 | 92,572 | 92,838 |
| 2003 |  |  |  | 18,344 | 21,909 | 29,066 | 36,450 | 45,676 | 59,163 | 71,040 | 85,823 | 91,649 | 91,392 | 94,252 |
| 2004 |  |  | 15,464 | 20,069 | 25,664 | 31,244 | 40,362 | 50,811 | 59,849 | 76,140 | 80,329 | 82,340 | 89,973 |  |
| 2005 |  | 14,326 | 18,164 | 21,569 | 25,389 | 34,915 | 44,022 | 54,808 | 67,476 | 77,856 | 79,243 | 90,897 |  |  |
| 2006 | 12,664 | 16,912 | 21,995 | 25,761 | 31,329 | 39,175 | 46,788 | 60,040 | 69,452 | 74,847 | 81,633 |  |  |  |
| 2007 | 14,146 | 19,050 | 23,372 | 28,650 | 35,234 | 43,514 | 54,727 | 64,146 | 72,438 | 82,193 |  |  |  |  |
| 2008 | 14,546 | 19,045 | 23,597 | 28,855 | 35,132 | 43,751 | 52,148 | 60,448 | 70,129 |  |  |  |  |  |
| 2009 | 14,679 | 19,959 | 25,075 | 30,855 | 36,850 | 43,945 | 50,664 | 60,361 |  |  |  |  |  |  |
| 2010 | 15,137 | 19,869 | 24,691 | 29,858 | 35,559 | 41,416 | 48,343 |  |  |  |  |  |  |  |
| 2011 | 15,533 | 21,056 | 24,808 | 31,163 | 38,192 | 43,158 |  |  |  |  |  |  |  |  |
| 2012 | 15,974 | 20,545 | 24,928 | 28,640 | 33,864 |  |  |  |  |  |  |  |  |  |
| 2013 | 15,528 | 20,780 | 23,431 | 27,136 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 15,537 | 19,419 | 22,780 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 16,372 | 20,983 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 16,913 |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Large Deductible (LD) Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | $\underline{60}$ | $\underline{72}$ | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 5,000 | 5,500 | 5,736 | 5,978 | 6,171 | 6,334 | 6,468 | 6,621 | 6,759 |
| 2002 |  |  |  |  | 5,167 | 5,818 | 6,170 | 6,470 | 6,696 | 6,884 | 7,030 | 7,183 | 7,319 | 7,424 |
| 2003 |  |  |  | 4,781 | 5,662 | 6,205 | 6,575 | 6,878 | 7,121 | 7,333 | 7,529 | 7,689 | 7,827 | 7,942 |
| 2004 |  |  | 3,470 | 4,669 | 5,419 | 5,956 | 6,381 | 6,682 | 6,925 | 7,150 | 7,338 | 7,489 | 7,604 |  |
| 2005 |  | 1,825 | 3,225 | 4,316 | 5,063 | 5,653 | 6,092 | 6,441 | 6,759 | 6,991 | 7,185 | 7,347 |  |  |
| 2006 | 534 | 2,081 | 3,546 | 4,649 | 5,496 | 6,121 | 6,612 | 6,978 | 7,297 | 7,552 | 7,736 |  |  |  |
| 2007 | 645 | 2,238 | 3,765 | 5,029 | 5,954 | 6,677 | 7,278 | 7,723 | 8,085 | 8,354 |  |  |  |  |
| 2008 | 707 | 2,373 | 4,035 | 5,422 | 6,452 | 7,288 | 7,928 | 8,425 | 8,793 |  |  |  |  |  |
| 2009 | 734 | 2,618 | 4,492 | 6,032 | 7,237 | 8,156 | 8,853 | 9,362 |  |  |  |  |  |  |
| 2010 | 798 | 2,832 | 4,757 | 6,311 | 7,512 | 8,423 | 9,060 |  |  |  |  |  |  |  |
| 2011 | 872 | 2,964 | 4,945 | 6,537 | 7,728 | 8,550 |  |  |  |  |  |  |  |  |
| 2012 | 891 | 2,989 | 5,030 | 6,655 | 7,808 |  |  |  |  |  |  |  |  |  |
| 2013 | 943 | 3,276 | 5,374 | 6,889 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1,071 | 3,539 | 5,614 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1,126 | 3,673 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 1,172 |  |  |  |  |  |  |  |  |  |  |  |  |  |

Non-Large Deductible Experience from Insurers Writing LD

|  | ate |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | $\underline{36}$ | 48 | 60 | $\underline{72}$ | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 5,357 | 5,777 | 6,034 | 6,249 | 6,410 | 6,528 | 6,647 | 6,743 | 6,845 |
| 2002 |  |  |  |  | 5,558 | 6,179 | 6,563 | 6,871 | 7,084 | 7,249 | 7,382 | 7,505 | 7,626 | 7,730 |
| 2003 |  |  |  | 4,668 | 5,478 | 5,951 | 6,373 | 6,656 | 6,861 | 7,037 | 7,183 | 7,313 | 7,428 | 7,514 |
| 2004 |  |  | 3,277 | 4,288 | 4,914 | 5,456 | 5,794 | 6,060 | 6,251 | 6,438 | 6,590 | 6,689 | 6,789 |  |
| 2005 |  | 1,852 | 3,017 | 3,901 | 4,633 | 5,102 | 5,449 | 5,715 | 5,972 | 6,195 | 6,365 | 6,513 |  |  |
| 2006 | 608 | 1,801 | 2,962 | 3,947 | 4,650 | 5,192 | 5,583 | 5,887 | 6,165 | 6,370 | 6,531 |  |  |  |
| 2007 | 536 | 1,849 | 3,137 | 4,137 | 4,911 | 5,476 | 5,957 | 6,290 | 6,541 | 6,723 |  |  |  |  |
| 2008 | 534 | 1,952 | 3,374 | 4,547 | 5,388 | 6,019 | 6,499 | 6,864 | 7,119 |  |  |  |  |  |
| 2009 | 620 | 2,231 | 3,816 | 5,054 | 5,988 | 6,682 | 7,212 | 7,570 |  |  |  |  |  |  |
| 2010 | 692 | 2,445 | 4,037 | 5,320 | 6,220 | 6,899 | 7,380 |  |  |  |  |  |  |  |
| 2011 | 1,255 | 3,018 | 4,385 | 5,367 | 6,098 | 6,575 |  |  |  |  |  |  |  |  |
| 2012 | 1,326 | 3,085 | 4,322 | 5,264 | 5,843 |  |  |  |  |  |  |  |  |  |
| 2013 | 1,361 | 3,021 | 4,263 | 5,073 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1,306 | 2,970 | 4,055 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1,333 | 2,740 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 849 |  |  |  |  |  |  |  |  |  |  |  |  |  |

All California WC Experience $\quad$ Evaluated as of (months):

| AY | 12 | $\underline{24}$ | $\underline{36}$ | 48 | 60 | 72 | 84 | $\underline{96}$ | 108 | $\underline{120}$ | 132 | 144 | 156 | 168 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2001 |  |  |  |  |  | 5,050 | 5,498 | 5,717 | 5,934 | 6,102 | 6,236 | 6,355 | 6,473 | 6,587 |
| 2002 |  |  |  |  | 5,026 | 5,599 | 5,960 | 6,236 | 6,436 | 6,600 | 6,729 | 6,858 | 6,976 | 7,071 |
| 2003 |  |  |  | 4,590 | 5,381 | 5,926 | 6,303 | 6,591 | 6,810 | 7,004 | 7,178 | 7,323 | 7,445 | 7,543 |
| 2004 |  |  | 3,258 | 4,354 | 5,037 | 5,557 | 5,935 | 6,212 | 6,425 | 6,630 | 6,800 | 6,929 | 7,035 |  |
| 2005 |  | 1,737 | 2,997 | 3,966 | 4,672 | 5,191 | 5,580 | 5,883 | 6,159 | 6,377 | 6,551 | 6,697 |  |  |
| 2006 | 524 | 1,838 | 3,116 | 4,107 | 4,853 | 5,418 | 5,845 | 6,180 | 6,464 | 6,682 | 6,844 |  |  |  |
| 2007 | 564 | 1,966 | 3,311 | 4,403 | 5,226 | 5,860 | 6,385 | 6,764 | 7,059 | 7,273 |  |  |  |  |
| 2008 | 609 | 2,111 | 3,614 | 4,871 | 5,803 | 6,527 | 7,070 | 7,479 | 7,764 |  |  |  |  |  |
| 2009 | 673 | 2,398 | 4,109 | 5,491 | 6,546 | 7,337 | 7,929 | 8,341 |  |  |  |  |  |  |
| 2010 | 739 | 2,551 | 4,277 | 5,667 | 6,698 | 7,469 | 8,008 |  |  |  |  |  |  |  |
| 2011 | 762 | 2,559 | 4,256 | 5,590 | 6,598 | 7,302 |  |  |  |  |  |  |  |  |
| 2012 | 761 | 2,605 | 4,326 | 5,697 | 6,663 |  |  |  |  |  |  |  |  |  |
| 2013 | 800 | 2,756 | 4,518 | 5,822 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 882 | 2,974 | 4,737 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 970 | 3,121 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 983 |  |  |  |  |  |  |  |  |  |  |  |  |  |

All Non-Large Deductible Experience

| AY | Evaluated as of (month |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 12 | $\underline{24}$ | 36 | 48 | 60 | 72 | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 5,097 | 5,496 | 5,700 | 5,894 | 6,038 | 6,145 | 6,251 | 6,337 | 6,429 |
| 2002 |  |  |  |  | 4,888 | 5,382 | 5,751 | 6,002 | 6,177 | 6,318 | 6,429 | 6,533 | 6,634 | 6,719 |
| 2003 |  |  |  | 4,356 | 5,031 | 5,577 | 5,965 | 6,234 | 6,422 | 6,593 | 6,739 | 6,866 | 6,968 | 7,044 |
| 2004 |  |  | 2,995 | 3,956 | 4,552 | 5,048 | 5,369 | 5,616 | 5,793 | 5,971 | 6,118 | 6,221 | 6,313 |  |
| 2005 |  | 1,646 | 2,752 | 3,586 | 4,244 | 4,689 | 5,024 | 5,276 | 5,508 | 5,712 | 5,863 | 5,990 |  |  |
| 2006 | 517 | 1,636 | 2,752 | 3,641 | 4,300 | 4,811 | 5,184 | 5,491 | 5,745 | 5,930 | 6,074 |  |  |  |
| 2007 | 509 | 1,764 | 2,967 | 3,930 | 4,674 | 5,239 | 5,706 | 6,034 | 6,277 | 6,449 |  |  |  |  |
| 2008 | 550 | 1,936 | 3,331 | 4,496 | 5,362 | 6,008 | 6,484 | 6,833 | 7,061 |  |  |  |  |  |
| 2009 | 637 | 2,258 | 3,863 | 5,143 | 6,099 | 6,807 | 7,329 | 7,678 |  |  |  |  |  |  |
| 2010 | 707 | 2,381 | 3,983 | 5,270 | 6,197 | 6,880 | 7,358 |  |  |  |  |  |  |  |
| 2011 | 706 | 2,334 | 3,865 | 5,048 | 5,950 | 6,584 |  |  |  |  |  |  |  |  |
| 2012 | 693 | 2,375 | 3,901 | 5,114 | 5,965 |  |  |  |  |  |  |  |  |  |
| 2013 | 718 | 2,436 | 3,979 | 5,146 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 772 | 2,612 | 4,162 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 878 | 2,768 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 877 |  |  |  |  |  |  |  |  |  |  |  |  |  |

Actuarial Committee
Meeting Agenda for December 6, 2017

## Paid MCCP per Indemnity Claim

Large Deductible (LD) Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | $\underline{60}$ | $\underline{72}$ | $\underline{84}$ | $\underline{96}$ | 108 | $\underline{120}$ | 132 | 144 | 156 | $\underline{168}$ |
| 2012 | 869 | 1,590 | 2,046 | 2,377 | 2,550 |  |  |  |  |  |  |  |  |  |
| 2013 | 874 | 1,588 | 2,081 | 2,358 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 820 | 1,612 | 2,047 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 906 | 1,629 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 868 |  |  |  |  |  |  |  |  |  |  |  |  |  |

Non-Large Deductible Experience from Insurers Writing LD

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | $\underline{72}$ | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | $\underline{156}$ | $\underline{168}$ |
| 2012 | 842 | 1,669 | 2,140 | 2,472 | 2,656 |  |  |  |  |  |  |  |  |  |
| 2013 | 822 | 1,593 | 2,074 | 2,339 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 759 | 1,502 | 1,956 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 681 | 1,360 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 582 |  |  |  |  |  |  |  |  |  |  |  |  |  |

## All California WC Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | $\underline{60}$ | $\underline{72}$ | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | $\underline{156}$ | $\underline{168}$ |
| 2012 | 696 | 1,366 | 1,773 | 2,065 | 2,218 |  |  |  |  |  |  |  |  |  |
| 2013 | 666 | 1,297 | 1,722 | 1,945 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 614 | 1,259 | 1,621 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 611 | 1,179 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 567 |  |  |  |  |  |  |  |  |  |  |  |  |  |

All Non-Large Deductible Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | 72 | 84 | $\underline{96}$ | 108 | $\underline{120}$ | 132 | $\underline{144}$ | $\underline{156}$ | $\underline{168}$ |
| 2012 | 614 | 1,243 | 1,622 | 1,891 | 2,032 |  |  |  |  |  |  |  |  |  |
| 2013 | 559 | 1,136 | 1,518 | 1,708 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 511 | 1,062 | 1,376 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 461 | 927 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 416 |  |  |  |  |  |  |  |  |  |  |  |  |  |

Large Deductible (LD) Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | $\underline{72}$ | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 | 30.9\% | 46.8\% | 63.7\% | 75.7\% | 83.6\% | 87.8\% | 90.5\% | 92.4\% | 93.9\% | 94.9\% | 95.6\% | 96.0\% | 96.6\% | 97.0\% |
| 2002 | 29.4\% | 46.5\% | 64.2\% | 78.2\% | 85.5\% | 89.4\% | 91.8\% | 93.9\% | 94.7\% | 95.7\% | 96.1\% | 96.9\% | 97.4\% | 97.7\% |
| 2003 | 29.6\% | 48.7\% | 68.8\% | 80.9\% | 86.7\% | 90.6\% | 92.4\% | 93.4\% | 94.6\% | 95.1\% | 95.7\% | 96.3\% | 96.7\% | 97.1\% |
| 2004 | 30.4\% | 53.9\% | 69.5\% | 80.2\% | 85.9\% | 88.9\% | 90.8\% | 91.8\% | 93.2\% | 94.3\% | 95.2\% | 95.5\% | 96.0\% |  |
| 2005 | 37.6\% | 58.0\% | 72.3\% | 80.5\% | 85.1\% | 87.7\% | 89.7\% | 91.4\% | 93.1\% | 94.0\% | 95.0\% | 95.8\% |  |  |
| 2006 | 39.5\% | 60.8\% | 72.7\% | 80.1\% | 84.3\% | 87.0\% | 89.6\% | 91.4\% | 92.8\% | 94.1\% | 95.1\% |  |  |  |
| 2007 | 41.1\% | 60.9\% | 71.7\% | 78.8\% | 83.7\% | 87.0\% | 89.3\% | 90.7\% | 92.5\% | 94.1\% |  |  |  |  |
| 2008 | 40.6\% | 59.7\% | 71.4\% | 78.7\% | 84.0\% | 87.4\% | 90.2\% | 92.0\% | 93.3\% |  |  |  |  |  |
| 2009 | 40.2\% | 59.6\% | 71.2\% | 78.9\% | 84.1\% | 87.6\% | 90.3\% | 92.5\% |  |  |  |  |  |  |
| 2010 | 41.0\% | 59.3\% | 71.5\% | 79.7\% | 85.1\% | 88.5\% | 91.7\% |  |  |  |  |  |  |  |
| 2011 | 39.2\% | 60.0\% | 71.5\% | 79.6\% | 85.4\% | 89.2\% |  |  |  |  |  |  |  |  |
| 2012 | 42.3\% | 60.4\% | 73.1\% | 81.0\% | 86.2\% |  |  |  |  |  |  |  |  |  |
| 2013 | 41.1\% | 61.2\% | 74.6\% | 82.6\% |  |  |  |  |  |  |  |  |  |  |
| 2014 | 41.0\% | 60.5\% | 74.4\% |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 40.5\% | 61.3\% |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 40.7\% |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Non-Large Deductible Experience from Insurers Writing LD

| Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | $\underline{72}$ | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 | 22.7\% | 44.6\% | 61.2\% | 74.3\% | 83.3\% | 88.0\% | 90.6\% | 92.5\% | 94.1\% | 95.2\% | 96.2\% | 96.7\% | 97.1\% | 97.5\% |
| 2002 | 22.5\% | 41.7\% | 62.2\% | 76.8\% | 84.7\% | 88.1\% | 91.3\% | 93.4\% | 94.2\% | 95.1\% | 95.5\% | 96.3\% | 97.3\% | 97.6\% |
| 2003 | 21.2\% | 44.6\% | 67.3\% | 78.8\% | 84.6\% | 88.8\% | 91.3\% | 92.4\% | 93.4\% | 94.1\% | 95.1\% | 96.0\% | 96.6\% | 97.5\% |
| 2004 | 21.9\% | 48.3\% | 67.8\% | 78.3\% | 84.6\% | 88.3\% | 90.2\% | 91.7\% | 93.6\% | 94.0\% | 95.6\% | 96.2\% | 97.1\% |  |
| 2005 | 26.0\% | 52.6\% | 68.1\% | 79.3\% | 84.0\% | 86.0\% | 88.9\% | 91.0\% | 92.4\% | 93.5\% | 94.7\% | 95.5\% |  |  |
| 2006 | 30.3\% | 52.7\% | 68.3\% | 77.1\% | 82.5\% | 86.1\% | 88.3\% | 90.0\% | 91.8\% | 93.7\% | 95.0\% |  |  |  |
| 2007 | 31.7\% | 54.2\% | 69.0\% | 77.4\% | 83.5\% | 86.6\% | 88.8\% | 90.7\% | 92.6\% | 94.7\% |  |  |  |  |
| 2008 | 33.9\% | 54.9\% | 68.6\% | 78.1\% | 83.6\% | 87.0\% | 89.6\% | 91.8\% | 93.4\% |  |  |  |  |  |
| 2009 | 33.7\% | 53.5\% | 68.6\% | 77.4\% | 82.5\% | 86.5\% | 89.4\% | 91.9\% |  |  |  |  |  |  |
| 2010 | 33.0\% | 54.0\% | 68.2\% | 77.4\% | 83.8\% | 87.7\% | 90.6\% |  |  |  |  |  |  |  |
| 2011 | 33.5\% | 54.3\% | 69.9\% | 78.6\% | 84.8\% | 88.7\% |  |  |  |  |  |  |  |  |
| 2012 | 35.5\% | 55.3\% | 70.0\% | 80.0\% | 85.4\% |  |  |  |  |  |  |  |  |  |
| 2013 | 33.1\% | 54.3\% | 70.9\% | 81.2\% |  |  |  |  |  |  |  |  |  |  |
| 2014 | 31.9\% | 54.8\% | 72.1\% |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 31.6\% | 54.2\% |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 32.5\% |  |  |  |  |  |  |  |  |  |  |  |  |  |

All California WC Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | $\underline{72}$ | $\underline{84}$ | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 | 25.4\% | 46.8\% | 63.0\% | 75.1\% | 82.9\% | 87.2\% | 89.8\% | 91.5\% | 92.9\% | 93.8\% | 94.4\% | 95.0\% | 95.5\% | 96.0\% |
| 2002 | 25.1\% | 45.9\% | 64.6\% | 77.9\% | 84.8\% | 88.4\% | 90.9\% | 92.6\% | 93.5\% | 94.2\% | 95.0\% | 95.8\% | 96.3\% | 96.8\% |
| 2003 | 25.4\% | 47.7\% | 67.9\% | 79.2\% | 84.7\% | 87.9\% | 89.7\% | 90.8\% | 91.8\% | 92.5\% | 93.6\% | 94.4\% | 95.1\% | 95.6\% |
| 2004 | 26.1\% | 51.9\% | 68.1\% | 77.8\% | 83.4\% | 86.0\% | 87.9\% | 89.0\% | 90.6\% | 91.9\% | 93.1\% | 93.9\% | 94.6\% |  |
| 2005 | 31.4\% | 56.2\% | 70.1\% | 78.8\% | 82.8\% | 84.8\% | 86.5\% | 88.1\% | 90.3\% | 91.8\% | 93.1\% | 94.0\% |  |  |
| 2006 | 33.2\% | 56.5\% | 69.8\% | 77.2\% | 81.2\% | 84.1\% | 86.7\% | 89.0\% | 90.7\% | 92.2\% | 93.3\% |  |  |  |
| 2007 | 34.8\% | 56.6\% | 68.8\% | 76.6\% | 81.6\% | 84.9\% | 87.2\% | 89.3\% | 91.2\% | 92.6\% |  |  |  |  |
| 2008 | 36.0\% | 56.7\% | 68.7\% | 76.9\% | 82.4\% | 86.0\% | 88.7\% | 90.6\% | 92.0\% |  |  |  |  |  |
| 2009 | 35.5\% | 54.8\% | 68.6\% | 76.9\% | 82.4\% | 86.0\% | 89.1\% | 91.2\% |  |  |  |  |  |  |
| 2010 | 35.2\% | 55.7\% | 69.1\% | 78.2\% | 84.0\% | 87.7\% | 90.6\% |  |  |  |  |  |  |  |
| 2011 | 34.3\% | 55.1\% | 69.8\% | 78.1\% | 84.1\% | 88.1\% |  |  |  |  |  |  |  |  |
| 2012 | 35.8\% | 56.5\% | 70.4\% | 79.9\% | 85.3\% |  |  |  |  |  |  |  |  |  |
| 2013 | 34.4\% | 56.3\% | 71.9\% | 81.4\% |  |  |  |  |  |  |  |  |  |  |
| 2014 | 34.4\% | 56.7\% | 72.5\% |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 34.1\% | 56.7\% |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 34.8\% |  |  |  |  |  |  |  |  |  |  |  |  |  |

All Non-Large Deductible Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | $\underline{60}$ | $\underline{72}$ | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 | 24.5\% | 47.6\% | 62.8\% | 74.7\% | 82.5\% | 87.0\% | 89.4\% | 91.2\% | 92.3\% | 93.3\% | 93.9\% | 94.5\% | 95.1\% | 95.6\% |
| 2002 | 24.4\% | 45.8\% | 64.7\% | 77.7\% | 84.6\% | 87.9\% | 90.5\% | 92.1\% | 93.0\% | 93.6\% | 94.4\% | 95.3\% | 95.9\% | 96.5\% |
| 2003 | 24.2\% | 47.2\% | 67.4\% | 78.4\% | 83.6\% | 86.6\% | 88.5\% | 89.6\% | 90.5\% | 91.3\% | 92.6\% | 93.4\% | 94.3\% | 94.9\% |
| 2004 | 24.5\% | 50.9\% | 67.4\% | 76.5\% | 82.0\% | 84.5\% | 86.3\% | 87.5\% | 89.2\% | 90.6\% | 92.0\% | 93.0\% | 93.8\% |  |
| 2005 | 28.9\% | 55.2\% | 68.8\% | 77.8\% | 81.4\% | 83.1\% | 84.6\% | 86.1\% | 88.7\% | 90.5\% | 92.0\% | 93.0\% |  |  |
| 2006 | 30.8\% | 54.3\% | 68.2\% | 75.6\% | 79.4\% | 82.4\% | 85.1\% | 87.6\% | 89.5\% | 91.2\% | 92.2\% |  |  |  |
| 2007 | 32.2\% | 54.6\% | 67.4\% | 75.4\% | 80.5\% | 83.8\% | 86.1\% | 88.5\% | 90.4\% | 91.8\% |  |  |  |  |
| 2008 | 34.1\% | 55.3\% | 67.4\% | 75.9\% | 81.5\% | 85.3\% | 87.9\% | 89.9\% | 91.3\% |  |  |  |  |  |
| 2009 | 33.5\% | 52.5\% | 67.2\% | 75.7\% | 81.4\% | 85.2\% | 88.4\% | 90.5\% |  |  |  |  |  |  |
| 2010 | 32.7\% | 54.0\% | 67.8\% | 77.4\% | 83.3\% | 87.2\% | 89.9\% |  |  |  |  |  |  |  |
| 2011 | 32.3\% | 52.8\% | 68.9\% | 77.2\% | 83.4\% | 87.4\% |  |  |  |  |  |  |  |  |
| 2012 | 32.7\% | 54.3\% | 68.8\% | 79.1\% | 84.7\% |  |  |  |  |  |  |  |  |  |
| 2013 | 31.3\% | 53.5\% | 70.2\% | 80.6\% |  |  |  |  |  |  |  |  |  |  |
| 2014 | 31.3\% | 54.4\% | 71.3\% |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 30.9\% | 53.9\% |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 32.0\% |  |  |  |  |  |  |  |  |  |  |  |  |  |

Large Deductible (LD) Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | $\underline{60}$ | 72 | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 | 42.3\% | 64.2\% | 72.9\% | 78.0\% | 81.4\% | 83.5\% | 83.9\% | 84.4\% | 85.3\% | 85.4\% | 86.4\% | 87.2\% | 88.4\% | 89.1\% |
| 2002 | 42.3\% | 65.3\% | 73.5\% | 80.1\% | 84.4\% | 85.6\% | 86.7\% | 87.7\% | 88.0\% | 88.7\% | 89.1\% | 90.2\% | 90.6\% | 92.0\% |
| 2003 | 42.3\% | 63.7\% | 73.8\% | 81.0\% | 83.6\% | 85.5\% | 86.8\% | 87.4\% | 87.8\% | 88.4\% | 89.7\% | 90.5\% | 91.1\% | 92.6\% |
| 2004 | 38.5\% | 62.1\% | 73.6\% | 78.5\% | 82.0\% | 83.8\% | 85.0\% | 85.7\% | 86.7\% | 87.3\% | 88.3\% | 89.3\% | 90.4\% |  |
| 2005 | 40.5\% | 62.6\% | 70.6\% | 77.6\% | 81.4\% | 83.4\% | 84.8\% | 86.2\% | 87.8\% | 88.8\% | 89.9\% | 90.9\% |  |  |
| 2006 | 41.3\% | 62.0\% | 71.3\% | 77.0\% | 80.5\% | 83.0\% | 84.8\% | 86.4\% | 87.5\% | 88.9\% | 90.8\% |  |  |  |
| 2007 | 42.3\% | 63.5\% | 71.8\% | 77.2\% | 81.1\% | 83.2\% | 84.4\% | 85.7\% | 87.1\% | 89.3\% |  |  |  |  |
| 2008 | 42.4\% | 60.9\% | 70.2\% | 75.7\% | 79.4\% | 81.9\% | 84.1\% | 85.7\% | 87.5\% |  |  |  |  |  |
| 2009 | 39.9\% | 60.0\% | 69.2\% | 76.1\% | 80.2\% | 82.7\% | 85.2\% | 87.7\% |  |  |  |  |  |  |
| 2010 | 40.0\% | 58.6\% | 68.4\% | 75.9\% | 80.7\% | 84.0\% | 87.1\% |  |  |  |  |  |  |  |
| 2011 | 38.6\% | 58.8\% | 68.2\% | 75.5\% | 80.8\% | 84.8\% |  |  |  |  |  |  |  |  |
| 2012 | 38.9\% | 58.5\% | 69.2\% | 76.8\% | 82.3\% |  |  |  |  |  |  |  |  |  |
| 2013 | 38.0\% | 58.1\% | 70.1\% | 77.4\% |  |  |  |  |  |  |  |  |  |  |
| 2014 | 38.7\% | 59.0\% | 71.0\% |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 38.4\% | 60.2\% |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 39.1\% |  |  |  |  |  |  |  |  |  |  |  |  |  |

Non-Large Deductible Experience from Insurers Writing LD

| AY | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 | 156 | 168 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2001 | 38.1\% | 62.1\% | 70.7\% | 76.5\% | 81.2\% | 83.4\% | 84.4\% | 85.8\% | 86.9\% | 87.6\% | 88.9\% | 89.7\% | 90.2\% | 90.4\% |
| 2002 | 36.8\% | 59.9\% | 69.0\% | 76.8\% | 81.7\% | 82.9\% | 86.0\% | 87.7\% | 88.1\% | 88.2\% | 89.1\% | 89.8\% | 90.7\% | 91.8\% |
| 2003 | 33.1\% | 58.1\% | 70.3\% | 76.8\% | 81.1\% | 83.8\% | 85.5\% | 86.5\% | 87.6\% | 88.6\% | 89.9\% | 91.0\% | 91.9\% | 93.4\% |
| 2004 | 32.3\% | 60.0\% | 68.5\% | 75.6\% | 79.7\% | 82.1\% | 83.5\% | 84.8\% | 86.4\% | 86.8\% | 88.4\% | 89.9\% | 91.6\% |  |
| 2005 | 34.5\% | 55.2\% | 66.0\% | 75.0\% | 79.8\% | 81.0\% | 83.4\% | 85.2\% | 86.1\% | 88.5\% | 90.3\% | 91.4\% |  |  |
| 2006 | 34.9\% | 57.2\% | 67.5\% | 74.4\% | 79.3\% | 82.2\% | 84.2\% | 85.5\% | 87.0\% | 88.8\% | 91.2\% |  |  |  |
| 2007 | 35.3\% | 56.7\% | 66.9\% | 74.2\% | 79.7\% | 82.2\% | 84.1\% | 85.8\% | 87.8\% | 90.1\% |  |  |  |  |
| 2008 | 37.5\% | 56.5\% | 67.4\% | 76.1\% | 79.8\% | 82.3\% | 84.9\% | 87.1\% | 89.1\% |  |  |  |  |  |
| 2009 | 37.3\% | 56.1\% | 67.5\% | 74.0\% | 78.3\% | 82.3\% | 85.2\% | 87.9\% |  |  |  |  |  |  |
| 2010 | 35.5\% | 56.5\% | 67.1\% | 74.3\% | 79.9\% | 84.0\% | 87.5\% |  |  |  |  |  |  |  |
| 2011 | 35.3\% | 56.0\% | 68.2\% | 75.7\% | 81.0\% | 85.6\% |  |  |  |  |  |  |  |  |
| 2012 | 35.7\% | 55.7\% | 68.2\% | 77.2\% | 82.6\% |  |  |  |  |  |  |  |  |  |
| 2013 | 34.9\% | 55.0\% | 69.3\% | 77.9\% |  |  |  |  |  |  |  |  |  |  |
| 2014 | 33.4\% | 56.4\% | 70.2\% |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 33.6\% | 55.9\% |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 33.2\% |  |  |  |  |  |  |  |  |  |  |  |  |  |

## All California WC Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | $\underline{60}$ | 72 | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 | 35.6\% | 60.7\% | 69.2\% | 75.4\% | 79.8\% | 82.4\% | 83.5\% | 84.3\% | 84.7\% | 84.7\% | 85.3\% | 86.1\% | 87.1\% | 88.0\% |
| 2002 | 34.5\% | 59.2\% | 69.5\% | 76.5\% | 81.8\% | 83.4\% | 84.8\% | 85.6\% | 86.1\% | 86.4\% | 86.9\% | 88.3\% | 89.1\% | 90.5\% |
| 2003 | 35.5\% | 58.9\% | 69.2\% | 76.4\% | 80.7\% | 82.1\% | 83.4\% | 83.9\% | 84.1\% | 84.8\% | 86.6\% | 87.9\% | 89.2\% | 90.9\% |
| 2004 | 33.8\% | 57.9\% | 68.3\% | 74.0\% | 77.7\% | 80.0\% | 80.7\% | 81.7\% | 83.2\% | 84.6\% | 86.5\% | 88.1\% | 89.5\% |  |
| 2005 | 35.1\% | 56.7\% | 66.0\% | 73.9\% | 78.3\% | 79.2\% | 80.5\% | 81.8\% | 83.8\% | 85.4\% | 87.5\% | 88.8\% |  |  |
| 2006 | 35.0\% | 56.0\% | 66.0\% | 72.9\% | 76.9\% | 79.3\% | 81.3\% | 83.1\% | 84.8\% | 86.6\% | 88.8\% |  |  |  |
| 2007 | 35.1\% | 56.8\% | 66.7\% | 72.9\% | 77.0\% | 79.5\% | 81.8\% | 83.9\% | 85.8\% | 88.1\% |  |  |  |  |
| 2008 | 37.2\% | 56.6\% | 66.4\% | 73.0\% | 77.3\% | 80.7\% | 83.2\% | 85.3\% | 87.4\% |  |  |  |  |  |
| 2009 | 37.1\% | 55.6\% | 65.6\% | 72.7\% | 77.8\% | 81.3\% | 84.2\% | 86.7\% |  |  |  |  |  |  |
| 2010 | 36.4\% | 55.7\% | 66.3\% | 74.1\% | 79.5\% | 83.3\% | 86.7\% |  |  |  |  |  |  |  |
| 2011 | 35.1\% | 54.9\% | 66.8\% | 74.1\% | 79.3\% | 83.9\% |  |  |  |  |  |  |  |  |
| 2012 | 35.1\% | 55.3\% | 67.2\% | 75.9\% | 81.5\% |  |  |  |  |  |  |  |  |  |
| 2013 | 35.1\% | 54.5\% | 68.1\% | 76.8\% |  |  |  |  |  |  |  |  |  |  |
| 2014 | 34.6\% | 55.9\% | 69.3\% |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 34.1\% | 55.7\% |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 34.8\% |  |  |  |  |  |  |  |  |  |  |  |  |  |

All Non-Large Deductible Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | $\underline{60}$ | 72 | $\underline{84}$ | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 | 34.1\% | 60.7\% | 68.1\% | 74.5\% | 79.2\% | 82.0\% | 83.5\% | 84.4\% | 84.4\% | 84.3\% | 84.8\% | 85.6\% | 86.6\% | 87.5\% |
| 2002 | 32.9\% | 57.2\% | 67.9\% | 75.1\% | 80.8\% | 82.4\% | 84.0\% | 84.7\% | 85.2\% | 85.4\% | 86.0\% | 87.5\% | 88.4\% | 89.9\% |
| 2003 | 33.3\% | 56.9\% | 67.2\% | 74.3\% | 79.2\% | 80.5\% | 81.7\% | 82.2\% | 82.4\% | 83.2\% | 85.1\% | 86.7\% | 88.3\% | 90.0\% |
| 2004 | 31.9\% | 55.8\% | 65.4\% | 71.5\% | 75.2\% | 77.9\% | 78.4\% | 79.5\% | 81.4\% | 83.0\% | 85.6\% | 87.4\% | 89.0\% |  |
| 2005 | 32.6\% | 53.1\% | 63.1\% | 71.6\% | 76.4\% | 76.5\% | 77.9\% | 79.1\% | 81.4\% | 83.4\% | 86.1\% | 87.5\% |  |  |
| 2006 | 31.9\% | 52.7\% | 63.0\% | 70.6\% | 74.8\% | 77.2\% | 79.3\% | 81.2\% | 83.3\% | 85.3\% | 87.6\% |  |  |  |
| 2007 | 31.6\% | 53.2\% | 63.9\% | 70.6\% | 74.9\% | 77.5\% | 80.4\% | 82.9\% | 85.1\% | 87.4\% |  |  |  |  |
| 2008 | 34.8\% | 54.5\% | 64.5\% | 71.6\% | 76.2\% | 80.0\% | 82.8\% | 85.1\% | 87.4\% |  |  |  |  |  |
| 2009 | 35.8\% | 53.4\% | 63.7\% | 70.9\% | 76.6\% | 80.5\% | 83.7\% | 86.2\% |  |  |  |  |  |  |
| 2010 | 34.7\% | 54.3\% | 65.3\% | 73.2\% | 78.8\% | 82.9\% | 86.4\% |  |  |  |  |  |  |  |
| 2011 | 33.3\% | 53.0\% | 66.0\% | 73.3\% | 78.5\% | 83.5\% |  |  |  |  |  |  |  |  |
| 2012 | 33.2\% | 53.7\% | 66.1\% | 75.4\% | 81.1\% |  |  |  |  |  |  |  |  |  |
| 2013 | 33.6\% | 52.5\% | 67.1\% | 76.5\% |  |  |  |  |  |  |  |  |  |  |
| 2014 | 32.5\% | 54.2\% | 68.3\% |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 32.0\% | 53.2\% |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 32.6\% |  |  |  |  |  |  |  |  |  |  |  |  |  |



Non-Large Deductible Experience from Insurers Writing LD

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 |  |  |  |  |  | 0.997 | 0.997 | 1.001 | 1.000 | 1.001 | 1.001 | 1.002 | 1.001 |
| 2002 |  |  |  |  | 0.996 | 1.000 | 1.002 | 1.000 | 1.002 | 1.002 | 1.002 | 1.001 | 1.000 |
| 2003 |  |  |  | 0.992 | 1.000 | 0.999 | 1.000 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.000 |
| 2004 |  |  | 0.995 | 1.004 | 0.995 | 1.006 | 1.002 | 1.002 | 1.001 | 1.001 | 1.001 | 1.000 |  |
| 2005 |  | 1.001 | 1.004 | 0.996 | 1.005 | 1.006 | 1.002 | 1.003 | 1.000 | 0.999 | 0.999 |  |  |
| 2006 | 1.109 | 1.018 | 0.997 | 1.006 | 1.002 | 1.002 | 1.000 | 1.002 | 1.000 | 1.001 |  |  |  |
| 2007 | 1.126 | 1.013 | 1.009 | 1.004 | 1.003 | 1.001 | 1.001 | 1.001 | 1.000 |  |  |  |  |
| 2008 | 1.135 | 1.026 | 1.009 | 1.005 | 1.004 | 1.002 | 1.001 | 1.001 |  |  |  |  |  |
| 2009 | 1.161 | 1.024 | 1.012 | 1.006 | 1.005 | 1.002 | 1.001 |  |  |  |  |  |  |
| 2010 | 1.182 | 1.028 | 1.010 | 1.009 | 1.004 | 1.002 |  |  |  |  |  |  |  |
| 2011 | 1.204 | 1.025 | 1.013 | 1.008 | 1.003 |  |  |  |  |  |  |  |  |
| 2012 | 1.199 | 1.035 | 1.011 | 1.007 |  |  |  |  |  |  |  |  |  |
| 2013 | 1.232 | 1.024 | 1.008 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.206 | 1.024 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.230 |  |  |  |  |  |  |  |  |  |  |  |  |

## All California WC Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 |  |  |  |  |  | 0.999 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 2002 |  |  |  |  | 0.999 | 0.999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 2003 |  |  |  | 0.998 | 0.999 | 0.998 | 0.999 | 0.999 | 1.000 | 0.999 | 1.000 | 1.000 | 1.000 |
| 2004 |  |  | 1.001 | 1.000 | 0.998 | 1.000 | 0.999 | 0.999 | 0.999 | 1.000 | 1.000 | 1.000 |  |
| 2005 |  | 1.008 | 1.002 | 1.000 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |  |  |
| 2006 | 1.123 | 1.011 | 1.004 | 1.002 | 1.001 | 1.000 | 1.000 | 1.001 | 1.001 | 1.000 |  |  |  |
| 2007 | 1.123 | 1.014 | 1.006 | 1.004 | 1.002 | 1.000 | 1.001 | 1.001 | 1.000 |  |  |  |  |
| 2008 | 1.146 | 1.022 | 1.011 | 1.005 | 1.003 | 1.001 | 1.001 | 1.001 |  |  |  |  |  |
| 2009 | 1.192 | 1.029 | 1.011 | 1.005 | 1.003 | 1.002 | 1.001 |  |  |  |  |  |  |
| 2010 | 1.216 | 1.030 | 1.011 | 1.006 | 1.004 | 1.002 |  |  |  |  |  |  |  |
| 2011 | 1.231 | 1.033 | 1.013 | 1.007 | 1.003 |  |  |  |  |  |  |  |  |
| 2012 | 1.247 | 1.035 | 1.013 | 1.006 |  |  |  |  |  |  |  |  |  |
| 2013 | 1.249 | 1.032 | 1.012 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.241 | 1.032 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.247 |  |  |  |  |  |  |  |  |  |  |  |  |

All Non-Large Deductible Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 |  |  |  |  |  | 0.998 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 2002 |  |  |  |  | 0.997 | 0.998 | 1.000 | 0.999 | 0.999 | 0.999 | 1.000 | 1.000 | 1.000 |
| 2003 |  |  |  | 0.993 | 0.997 | 0.998 | 0.999 | 0.998 | 0.999 | 0.998 | 1.000 | 1.000 | 1.000 |
| 2004 |  |  | 0.994 | 0.998 | 0.996 | 1.000 | 0.998 | 0.999 | 0.998 | 0.999 | 1.000 | 0.999 |  |
| 2005 |  | 0.993 | 0.998 | 0.997 | 1.001 | 1.001 | 0.999 | 1.000 | 0.999 | 1.000 | 0.999 |  |  |
| 2006 | 1.070 | 1.001 | 0.997 | 1.002 | 0.999 | 1.000 | 0.999 | 1.000 | 1.000 | 1.000 |  |  |  |
| 2007 | 1.087 | 1.005 | 1.005 | 1.002 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 |  |  |  |  |
| 2008 | 1.103 | 1.017 | 1.007 | 1.003 | 1.001 | 1.001 | 1.000 | 1.001 |  |  |  |  |  |
| 2009 | 1.149 | 1.020 | 1.009 | 1.003 | 1.003 | 1.001 | 1.001 |  |  |  |  |  |  |
| 2010 | 1.167 | 1.025 | 1.008 | 1.006 | 1.002 | 1.001 |  |  |  |  |  |  |  |
| 2011 | 1.191 | 1.023 | 1.011 | 1.005 | 1.001 |  |  |  |  |  |  |  |  |
| 2012 | 1.189 | 1.030 | 1.010 | 1.005 |  |  |  |  |  |  |  |  |  |
| 2013 | 1.212 | 1.023 | 1.009 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.196 | 1.021 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.205 |  |  |  |  |  |  |  |  |  |  |  |  |

Large Deductible (LD) Experience

| - | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 |  |  |  |  |  |  |  | 1.000 | 1.000 | 1.001 | 1.001 | 1.000 | 1.000 |
| 2002 |  |  |  |  |  |  | 1.000 | 1.001 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 |
| 2003 |  |  |  |  |  | 1.000 | 1.000 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 2004 |  |  |  |  | 1.000 | 0.999 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |  |
| 2005 |  |  |  | 1.000 | 1.001 | 1.001 | 1.001 | 1.000 | 1.000 | 1.001 | 1.000 |  |  |
| 2006 |  |  | 1.007 | 1.002 | 1.002 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 |  |  |  |
| 2007 |  | 1.012 | 1.005 | 1.003 | 1.003 | 1.001 | 1.001 | 1.001 | 1.000 |  |  |  |  |
| 2008 | 1.165 | 1.013 | 1.009 | 1.003 | 1.003 | 1.001 | 1.001 | 1.001 |  |  |  |  |  |
| 2009 | 1.185 | 1.019 | 1.006 | 1.003 | 1.001 | 1.002 | 1.001 |  |  |  |  |  |  |
| 2010 | 1.198 | 1.015 | 1.007 | 1.003 | 1.003 | 1.002 |  |  |  |  |  |  |  |
| 2011 | 1.200 | 1.021 | 1.006 | 1.004 | 1.002 |  |  |  |  |  |  |  |  |
| 2012 | 1.230 | 1.016 | 1.007 | 1.003 |  |  |  |  |  |  |  |  |  |
| 2013 | 1.209 | 1.017 | 1.006 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.209 | 1.017 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.215 |  |  |  |  |  |  |  |  |  |  |  |  |

Non-Large Deductible Experience from Insurers Writing LD

| Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 |  |  |  |  |  |  |  | 1.002 | 1.001 | 1.001 | 1.001 | 1.001 | 1.000 |
| 2002 |  |  |  |  |  |  | 1.004 | 1.001 | 1.001 | 1.001 | 1.001 | 1.000 | 1.000 |
| 2003 |  |  |  |  |  | 1.000 | 1.001 | 1.001 | 1.001 | 1.000 | 1.000 | 1.001 | 1.000 |
| 2004 |  |  |  |  | 1.001 | 1.005 | 1.001 | 1.001 | 1.000 | 1.000 | 1.001 | 1.000 |  |
| 2005 |  |  |  | 1.002 | 1.003 | 1.002 | 1.002 | 1.001 | 1.000 | 1.000 | 1.000 |  |  |
| 2006 |  |  | 1.002 | 1.003 | 1.002 | 1.001 | 1.001 | 1.001 | 1.000 | 1.000 |  |  |  |
| 2007 |  | 1.013 | 1.006 | 1.003 | 1.001 | 1.001 | 1.001 | 1.001 | 1.000 |  |  |  |  |
| 2008 | 1.122 | 1.013 | 1.006 | 1.003 | 1.002 | 1.001 | 1.001 | 1.001 |  |  |  |  |  |
| 2009 | 1.126 | 1.014 | 1.007 | 1.004 | 1.003 | 1.001 | 1.001 |  |  |  |  |  |  |
| 2010 | 1.138 | 1.015 | 1.006 | 1.005 | 1.003 | 1.001 |  |  |  |  |  |  |  |
| 2011 | 1.134 | 1.013 | 1.007 | 1.005 | 1.002 |  |  |  |  |  |  |  |  |
| 2012 | 1.127 | 1.019 | 1.007 | 1.004 |  |  |  |  |  |  |  |  |  |
| 2013 | 1.150 | 1.017 | 1.006 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.160 | 1.015 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.172 |  |  |  |  |  |  |  |  |  |  |  |  |

All California WC Experience

| AY |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 |  |  |  |  |  |  |  | 1.001 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 |
| 2002 |  |  |  |  |  |  | 1.001 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 |
| 2003 |  |  |  |  |  | 1.000 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 2004 |  |  |  |  | 1.000 | 1.001 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 |  |
| 2005 |  |  |  | 1.001 | 1.002 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 |  |  |
| 2006 |  |  | 1.005 | 1.003 | 1.002 | 1.001 | 1.001 | 1.001 | 1.001 | 1.000 |  |  |  |
| 2007 |  | 1.012 | 1.005 | 1.004 | 1.002 | 1.001 | 1.001 | 1.001 | 1.000 |  |  |  |  |
| 2008 | 1.128 | 1.013 | 1.008 | 1.003 | 1.002 | 1.001 | 1.001 | 1.001 |  |  |  |  |  |
| 2009 | 1.145 | 1.016 | 1.006 | 1.004 | 1.002 | 1.002 | 1.001 |  |  |  |  |  |  |
| 2010 | 1.154 | 1.016 | 1.007 | 1.004 | 1.003 | 1.002 |  |  |  |  |  |  |  |
| 2011 | 1.159 | 1.018 | 1.007 | 1.004 | 1.002 |  |  |  |  |  |  |  |  |
| 2012 | 1.170 | 1.017 | 1.007 | 1.004 |  |  |  |  |  |  |  |  |  |
| 2013 | 1.173 | 1.018 | 1.007 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.178 | 1.017 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.183 |  |  |  |  |  |  |  |  |  |  |  |  |

All Non-Large Deductible Experience

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12-24 | 24-36 | 36-48 | 48-60 | 60-72 | 72-84 | 84-96 | 96-108 | 108-120 | 120-132 | 132-144 | 144-156 | 156-168 |
| 2001 |  |  |  |  |  |  |  | 1.001 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 |
| 2002 |  |  |  |  |  |  | 1.001 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 |
| 2003 |  |  |  |  |  | 1.001 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 2004 |  |  |  |  | 1.001 | 1.003 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 |  |
| 2005 |  |  |  | 1.002 | 1.002 | 1.002 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 |  |  |
| 2006 |  |  | 1.003 | 1.003 | 1.002 | 1.001 | 1.001 | 1.001 | 1.001 | 1.000 |  |  |  |
| 2007 |  | 1.012 | 1.006 | 1.004 | 1.001 | 1.001 | 1.001 | 1.001 | 1.000 |  |  |  |  |
| 2008 | 1.106 | 1.013 | 1.007 | 1.003 | 1.002 | 1.001 | 1.001 | 1.001 |  |  |  |  |  |
| 2009 | 1.121 | 1.014 | 1.007 | 1.004 | 1.003 | 1.002 | 1.001 |  |  |  |  |  |  |
| 2010 | 1.128 | 1.016 | 1.007 | 1.005 | 1.003 | 1.002 |  |  |  |  |  |  |  |
| 2011 | 1.133 | 1.015 | 1.008 | 1.005 | 1.002 |  |  |  |  |  |  |  |  |
| 2012 | 1.132 | 1.018 | 1.008 | 1.005 |  |  |  |  |  |  |  |  |  |
| 2013 | 1.149 | 1.019 | 1.007 |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.158 | 1.016 |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.161 |  |  |  |  |  |  |  |  |  |  |  |  |


| Large Deductible (LD) Experience |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | 72 | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 84.6\% | 88.5\% | 91.2\% | 93.0\% | 94.3\% | 95.0\% | 95.6\% | 96.2\% | 96.7\% |
| 2002 |  |  |  |  | 80.2\% | 85.8\% | 89.9\% | 92.6\% | 94.0\% | 94.9\% | 95.6\% | 96.2\% | 96.7\% | 97.2\% |
| 2003 |  |  |  | 73.5\% | 81.5\% | 87.3\% | 90.9\% | 92.9\% | 94.0\% | 94.9\% | 95.8\% | 96.4\% | 96.9\% | 97.4\% |
| 2004 |  |  | 61.4\% | 74.1\% | 83.0\% | 87.7\% | 90.6\% | 92.2\% | 93.6\% | 94.9\% | 95.8\% | 96.4\% | 97.0\% |  |
| 2005 |  | 50.6\% | 64.3\% | 76.0\% | 83.2\% | 87.5\% | 90.1\% | 92.0\% | 93.9\% | 95.0\% | 96.0\% | 96.7\% |  |  |
| 2006 | 22.0\% | 45.2\% | 61.0\% | 73.8\% | 82.0\% | 86.2\% | 89.5\% | 91.9\% | 93.4\% | 94.7\% | 95.7\% |  |  |  |
| 2007 | 25.2\% | 48.9\% | 63.7\% | 74.7\% | 81.3\% | 85.3\% | 89.0\% | 91.5\% | 93.1\% | 94.5\% |  |  |  |  |
| 2008 | 27.8\% | 47.9\% | 62.8\% | 72.9\% | 79.8\% | 85.2\% | 89.1\% | 91.6\% | 93.5\% |  |  |  |  |  |
| 2009 | 27.0\% | 46.4\% | 60.0\% | 71.1\% | 79.3\% | 84.6\% | 88.5\% | 91.5\% |  |  |  |  |  |  |
| 2010 | 27.2\% | 46.2\% | 60.3\% | 72.3\% | 80.5\% | 85.6\% | 89.6\% |  |  |  |  |  |  |  |
| 2011 | 26.8\% | 46.0\% | 61.3\% | 73.0\% | 81.3\% | 86.5\% |  |  |  |  |  |  |  |  |
| 2012 | 27.9\% | 47.9\% | 62.8\% | 74.4\% | 82.3\% |  |  |  |  |  |  |  |  |  |
| 2013 | 28.2\% | 48.2\% | 64.3\% | 76.4\% |  |  |  |  |  |  |  |  |  |  |
| 2014 | 27.6\% | 49.3\% | 65.4\% |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 27.3\% | 50.4\% |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 28.5\% |  |  |  |  |  |  |  |  |  |  |  |  |  |

Non-Large Deductible Experience from Insurers Writing LD

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | $\underline{48}$ | 60 | 72 | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | $\underline{168}$ |
| 2001 |  |  |  |  |  | 85.4\% | 89.4\% | 91.7\% | 93.6\% | 94.9\% | 95.6\% | 96.3\% | 96.7\% | 97.1\% |
| 2002 |  |  |  |  | 81.3\% | 87.4\% | 90.2\% | 92.7\% | 94.1\% | 95.2\% | 95.9\% | 96.6\% | 97.2\% | 97.6\% |
| 2003 |  |  |  | 72.4\% | 82.1\% | 86.5\% | 90.2\% | 92.4\% | 94.3\% | 95.2\% | 96.1\% | 96.8\% | 97.2\% | 97.7\% |
| 2004 |  |  | 63.0\% | 76.0\% | 82.8\% | 87.2\% | 90.3\% | 92.7\% | 94.0\% | 95.2\% | 96.2\% | 96.9\% | 97.5\% |  |
| 2005 |  | 45.8\% | 63.0\% | 75.4\% | 82.5\% | 86.9\% | 90.0\% | 92.0\% | 93.4\% | 95.0\% | 96.1\% | 97.0\% |  |  |
| 2006 | 22.6\% | 48.6\% | 64.6\% | 74.8\% | 81.5\% | 86.2\% | 88.9\% | 91.5\% | 93.5\% | 94.7\% | 95.8\% |  |  |  |
| 2007 | 32.0\% | 50.9\% | 64.9\% | 75.0\% | 82.0\% | 86.2\% | 89.8\% | 92.3\% | 94.2\% | 95.8\% |  |  |  |  |
| 2008 | 27.3\% | 47.9\% | 61.8\% | 73.0\% | 80.3\% | 85.8\% | 89.4\% | 92.0\% | 94.2\% |  |  |  |  |  |
| 2009 | 26.3\% | 46.3\% | 61.3\% | 72.0\% | 79.9\% | 85.2\% | 89.2\% | 92.3\% |  |  |  |  |  |  |
| 2010 | 25.3\% | 46.1\% | 60.2\% | 72.4\% | 80.7\% | 86.4\% | 90.7\% |  |  |  |  |  |  |  |
| 2011 | 25.3\% | 45.6\% | 61.5\% | 73.6\% | 81.8\% | 87.4\% |  |  |  |  |  |  |  |  |
| 2012 | 25.9\% | 46.5\% | 63.3\% | 75.1\% | 83.1\% |  |  |  |  |  |  |  |  |  |
| 2013 | 25.2\% | 48.5\% | 64.7\% | 76.4\% |  |  |  |  |  |  |  |  |  |  |
| 2014 | 26.9\% | 50.0\% | 66.8\% |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 28.2\% | 51.8\% |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 29.3\% |  |  |  |  |  |  |  |  |  |  |  |  |  |

## All California WC Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | $\underline{36}$ | $\underline{48}$ | 60 | 72 | 84 | $\underline{96}$ | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 84.1\% | 87.8\% | 90.4\% | 92.3\% | 93.5\% | 94.5\% | 95.3\% | 96.1\% | 96.6\% |
| 2002 |  |  |  |  | 79.1\% | 84.5\% | 88.2\% | 90.8\% | 92.4\% | 93.7\% | 94.7\% | 95.8\% | 96.4\% | 96.9\% |
| 2003 |  |  |  | 70.7\% | 79.2\% | 84.7\% | 88.3\% | 90.5\% | 92.4\% | 93.7\% | 95.2\% | 95.9\% | 96.4\% | 97.0\% |
| 2004 |  |  | 60.9\% | 72.7\% | 80.5\% | 85.1\% | 88.1\% | 90.5\% | 92.3\% | 94.3\% | 95.4\% | 96.1\% | 96.8\% |  |
| 2005 |  | 49.2\% | 63.2\% | 74.5\% | 81.1\% | 85.4\% | 88.4\% | 90.7\% | 93.1\% | 94.5\% | 95.5\% | 96.4\% |  |  |
| 2006 | 23.5\% | 47.7\% | 62.7\% | 73.3\% | 80.4\% | 84.8\% | 88.1\% | 91.2\% | 93.0\% | 94.3\% | 95.5\% |  |  |  |
| 2007 | 26.9\% | 49.5\% | 63.3\% | 73.4\% | 80.1\% | 84.5\% | 88.8\% | 91.4\% | 93.2\% | 94.8\% |  |  |  |  |
| 2008 | 26.6\% | 47.5\% | 61.4\% | 71.8\% | 78.9\% | 85.0\% | 88.9\% | 91.5\% | 93.6\% |  |  |  |  |  |
| 2009 | 26.2\% | 45.9\% | 59.8\% | 70.5\% | 79.1\% | 84.6\% | 88.6\% | 91.7\% |  |  |  |  |  |  |
| 2010 | 26.1\% | 46.2\% | 60.2\% | 72.4\% | 80.5\% | 85.9\% | 90.0\% |  |  |  |  |  |  |  |
| 2011 | 26.3\% | 46.3\% | 61.7\% | 73.3\% | 81.4\% | 86.9\% |  |  |  |  |  |  |  |  |
| 2012 | 26.6\% | 47.6\% | 63.2\% | 74.9\% | 82.8\% |  |  |  |  |  |  |  |  |  |
| 2013 | 26.4\% | 48.2\% | 64.4\% | 76.5\% |  |  |  |  |  |  |  |  |  |  |
| 2014 | 26.7\% | 49.5\% | 66.1\% |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 27.4\% | 51.0\% |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 28.8\% |  |  |  |  |  |  |  |  |  |  |  |  |  |

## All Non-Large Deductible Experience

|  | Evaluated as of (months): |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AY | 12 | $\underline{24}$ | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 | 156 | 168 |
| 2001 |  |  |  |  |  | 83.9\% | 87.4\% | 90.1\% | 91.9\% | 93.2\% | 94.3\% | 95.1\% | 96.0\% | 96.5\% |
| 2002 |  |  |  |  | 78.7\% | 84.0\% | 87.6\% | 90.1\% | 91.8\% | 93.3\% | 94.3\% | 95.6\% | 96.3\% | 96.8\% |
| 2003 |  |  |  | 69.4\% | 78.1\% | 83.4\% | 87.0\% | 89.4\% | 91.6\% | 93.1\% | 94.9\% | 95.7\% | 96.2\% | 96.9\% |
| 2004 |  |  | 60.6\% | 72.0\% | 79.2\% | 83.7\% | 86.8\% | 89.6\% | 91.7\% | 94.0\% | 95.1\% | 95.9\% | 96.7\% |  |
| 2005 |  | 48.5\% | 62.7\% | 73.7\% | 79.9\% | 84.1\% | 87.5\% | 90.0\% | 92.6\% | 94.2\% | 95.2\% | 96.2\% |  |  |
| 2006 | 24.2\% | 49.1\% | 63.6\% | 73.0\% | 79.5\% | 84.1\% | 87.3\% | 90.8\% | 92.8\% | 94.1\% | 95.4\% |  |  |  |
| 2007 | 27.7\% | 49.8\% | 63.1\% | 72.7\% | 79.5\% | 84.1\% | 88.7\% | 91.4\% | 93.2\% | 95.0\% |  |  |  |  |
| 2008 | 26.1\% | 47.3\% | 60.6\% | 71.2\% | 78.4\% | 84.9\% | 88.7\% | 91.4\% | 93.7\% |  |  |  |  |  |
| 2009 | 25.8\% | 45.7\% | 59.6\% | 70.3\% | 79.0\% | 84.6\% | 88.6\% | 91.8\% |  |  |  |  |  |  |
| 2010 | 25.6\% | 46.3\% | 60.2\% | 72.4\% | 80.5\% | 86.0\% | 90.3\% |  |  |  |  |  |  |  |
| 2011 | 26.1\% | 46.4\% | 61.8\% | 73.5\% | 81.5\% | 87.1\% |  |  |  |  |  |  |  |  |
| 2012 | 26.0\% | 47.4\% | 63.4\% | 75.1\% | 83.1\% |  |  |  |  |  |  |  |  |  |
| 2013 | 25.5\% | 48.2\% | 64.5\% | 76.6\% |  |  |  |  |  |  |  |  |  |  |
| 2014 | 26.2\% | 49.7\% | 66.5\% |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 27.5\% | 51.4\% |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 28.9\% |  |  |  |  |  |  |  |  |  |  |  |  |  |

Actuarial Committee
Meeting Agenda for December 6, 2017

## 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 by July 1, 2017. At the April 3, 2017 meeting, the Committee reviewed the proposed formulary under consideration at the time by the DWC.

On October 23, 2017 the DWC submitted the final drug formulary regulations to the Office of Administrative Law (OAL) to be effective January 1, 2018. The OAL has up to December 7, 2017 to complete their review. The proposed regulations can be accessed through the following link http://www.dir.ca.gov/dwc/DWCPropRegs/MTUS-Formulary/MTUS-Formulary.htm.

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

Actuarial Committee
Meeting Agenda for December 6, 2017

## Item AC17-12-01 <br> 9/30/2017 Experience - Review of Methodologies

Staff has prepared an analysis of statewide experience through September 30, 2017, which is included in Exhibits 1 through 8 . This information reflects insurers writing approximately $100 \%$ of the market based on 2016 premium levels. The methodologies used are consistent with those reflected in the January 1, 2018 Pure Premium Rate Filing. Wage and loss levels were projected to January 1, 2019 - the approximate midpoint of experience on policies incepting in 2018, and premiums were adjusted to the industry average filed pure premium rate level as of July 1, 2017.

As shown on Exhibit 8, the projected policy year 2018 loss to the industry average filed pure premium ratio based on September 30, 2017 experience is 0.628 . (The comparable ratio projected based on June 30, 2017 experience as reflected in the Amended January 1, 2018 Pure Premium Rate Filing is 0.641 .)

Additional supplemental information is included in Exhibits 9 through 12.

## California Workers' Compensation

## Accident Year Experience as of September 30, 2017

| Year | Earned <br> Premium | Paid <br> Indemnity | Indemnity Reserves | Paid Medical** | Medical Reserves | $\underline{\text { IBNR }}$ | Total Incurred** | Loss <br> Ratio* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1985 | 2,872,481,605 | 1,278,526,315 | 3,727,056 | 984,812,249 | 21,613,400 | 18,232,285 | 2,306,911,305 | 0.803 |
| 1986 | 3,506,609,097 | 1,382,041,641 | 5,337,782 | 1,134,506,417 | 31,615,741 | 56,479,902 | 2,609,981,483 | 0.744 |
| 1987 | 4,374,085,383 | 1,504,220,484 | 7,264,715 | 1,326,407,608 | 46,565,282 | 30,404,345 | 2,914,862,434 | 0.666 |
| 1988 | 5,173,049,472 | 1,701,202,807 | 7,911,656 | 1,530,902,326 | 46,267,305 | 43,385,554 | 3,329,669,648 | 0.644 |
| 1989 | 5,674,529,942 | 1,937,042,171 | 9,238,749 | 1,785,522,109 | 61,142,053 | 47,079,110 | 3,840,024,192 | 0.677 |
| 1990 | 5,698,665,461 | 2,254,440,972 | 9,061,551 | 2,030,417,697 | 62,585,617 | 78,463,136 | 4,434,968,973 | 0.778 |
| 1991 | 5,863,319,243 | 2,469,360,807 | 17,410,889 | 2,181,436,794 | 70,074,357 | 69,264,928 | 4,807,547,775 | 0.820 |
| 1992 | 5,681,466,382 | 1,970,777,456 | 14,597,328 | 1,743,070,935 | 69,516,363 | 67,567,143 | 3,865,529,225 | 0.680 |
| 1993 | 5,928,480,359 | 1,688,778,669 | 15,505,285 | 1,493,849,397 | 86,384,089 | 57,953,730 | 3,342,471,170 | 0.564 |
| 1994 | 5,022,749,028 | 1,621,140,087 | 21,803,113 | 1,451,932,679 | 95,422,027 | 64,605,112 | 3,254,903,018 | 0.648 |
| 1995 | 3,778,975,599 | 1,753,530,488 | 32,184,292 | 1,593,987,603 | 121,363,546 | 71,500,058 | 3,572,565,987 | 0.945 |
| 1996 | 3,736,857,547 | 1,938,445,185 | 40,563,357 | 1,683,997,097 | 138,524,816 | 74,592,960 | 3,876,123,415 | 1.037 |
| 1997 | 3,916,944,392 | 2,297,083,282 | 50,186,975 | 1,977,633,238 | 158,321,129 | 131,226,500 | 4,614,451,124 | 1.178 |
| 1998 | 4,322,051,270 | 2,748,702,91 | 62,914,189 | 2,590,022,70 | 253,515,262 | 220,570,756 | 5,875,725,828 | 1.359 |
| 1999 | 4,537,629,086 | 3,026,978,860 | 61,551,303 | 2,969,054,381 | 230,322,569 | 309,059,463 | 6,596,966,576 | 1.454 |
| 2000 | 5,905,419,052 | 3,389,098,135 | 86,314,735 | 3,493,260,383 | 280,569,679 | 453,768,273 | 7,703,011,205 | 1.304 |
| 2001 | 10,094,684,192 | 4,780,575,067 | 135,030,640 | 5,239,367,227 | 459,703,045 | 709,271,880 | 11,323,947,859 | 1.122 |
| 2002 | 13,405,893,679 | 4,709,904,959 | 121,700,989 | 5,355,884,157 | 429,396,350 | 965,434,151 | 11,582,320,606 | 0.864 |
| 2003 | 19,429,675,115 | 4,465,575,87 | 184,592,077 | 4,916,996,853 | 431,790,722 | 1,357,634,127 | 11,356,589,655 | 0.584 |
| 2004 | 23,043,963,090 | 3,141,680,494 | 158,386,895 | 3,926,730,407 | 396,909,211 | 1,426,463,885 | 9,050,170,892 | 0.393 |
| 2005 | 21,350,709,483 | 2,462,180,272 | 141,746,966 | 3,517,703,142 | 383,454,658 | 1,217,325,518 | 7,722,410,556 | 0.362 |
| 2006 | 17,209,009,327 | 2,543,283,924 | 158,299,341 | 3,617,643,342 | 398,728,028 | 852,800,427 | 7,570,755,062 | 0.440 |
| 2007 | 13,256,259,568 | 2,661,467,859 | 177,156,761 | 3,852,567,625 | 470,158,255 | 836,088,471 | 7,997,438,971 | 0.603 |
| 2008 | 10,748,217,184 | 2,689,839,634 | 204,051,699 | 3,838,783,245 | 476,004,211 | 706,935,514 | 7,915,614,303 | 0.736 |
| 2009 | 8,885,303,850 | 2,542,162,599 | 211,625,954 | 3,616,439,798 | 483,311,004 | 677,280,904 | 7,530,820,259 | 0.848 |
| 2010 | 9,411,101,176 | 2,542,692,349 | 222,951,152 | 3,674,353,873 | 468,030,719 | 784,401,063 | 7,692,429,156 | 0.817 |
| 2011 | 10,146,407,076 | 2,451,512,334 | 267,003,185 | 3,256,028,809 | 563,674,432 | 995,773,195 | 7,533,991,955 | 0.743 |
| 2012 | 11,718,349,189 | 2,428,745,099 | 319,058,686 | 3,071,383,830 | 610,619,596 | 1,907,249,232 | 8,337,056,443 | 0.711 |
| 2013 | 14,186,071,217 | 2,356,119,822 | 383,280,892 | 2,812,964,741 | 694,286,747 | 2,780,956,119 | 9,027,608,321 | 0.636 |
| 2014 | 16,014,478,353 | 2,209,369,437 | 561,343,086 | 2,487,812,189 | 859,428,836 | 3,545,351,098 | 9,663,304,646 | 0.603 |
| 2015 | 17,055,735,027 | 1,806,541,612 | 804,489,106 | 2,037,017,295 | 1,165,247,874 | 4,640,928,977 | 10,454,224,864 | 0.613 |
| 2016 | 17,957,589,633 | 1,051,488,895 | 930,745,222 | 1,389,895,501 | 1,384,206,239 | 5,954,149,761 | 10,710,485,618 | 0.596 |
| 2017* | 13,250,739,567 | 216,649,600 | 528,495,789 | 398,752,605 | 1,037,562,003 | 5,197,211,410 | 7,378,671,407 | 0.557 |

[^4]Source: WCIRB quarterly experience calls

| Incurred Indemnity Loss Development Factors |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age-to-Age (in months) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Accident Year | 33/21 | 45/33 | 57/45 | 69/57 | 81/69 | 93/81 | 105/93 | 117/105 | 129/117 | 141/129 | 153/141 | 165/153 | 177/165 | 189/177 | 201/189 |
| 1992 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.002 |
| 1993 |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.001 | 0.999 |
| 1994 |  |  |  |  |  |  |  |  |  |  |  |  | 1.001 | 1.001 | 1.000 |
| 1995 |  |  |  |  |  |  |  |  |  |  |  | 1.002 | 1.003 | 1.003 | 1.000 |
| 1996 |  |  |  |  |  |  |  |  |  |  | 1.003 | 1.000 | 1.001 | 1.000 | 1.002 |
| 1997 |  |  |  |  |  |  |  |  |  | 1.004 | 1.002 | 1.002 | 1.003 | 1.002 | 1.001 |
| 1998 |  |  |  |  |  |  |  |  | 1.006 | 1.003 | 1.002 | 1.005 | 1.002 | 1.001 | 1.001 |
| 1999 |  |  |  |  |  |  |  | 1.002 | 1.006 | 1.002 | 1.004 | 1.003 | 1.003 | 1.001 | 1.001 |
| 2000 |  |  |  |  |  |  | 1.007 | 1.005 | 1.003 | 1.006 | 1.003 | 1.002 | 1.004 | 1.002 | 1.000 |
| 2001 |  |  |  |  |  | 1.013 | 1.012 | 1.006 | 1.008 | 1.007 | 1.005 | 1.004 | 1.001 | 1.001 | 1.002 |
| 2002 |  |  |  |  | 1.017 | 1.015 | 1.010 | 1.011 | 1.007 | 1.006 | 1.003 | 1.003 | 1.002 | 1.002 |  |
| 2003 |  |  |  | 1.033 | 1.025 | 1.017 | 1.018 | 1.016 | 1.011 | 1.004 | 1.005 | 1.003 | 1.003 |  |  |
| 2004 |  |  | 1.044 | 1.043 | 1.028 | 1.029 | 1.018 | 1.015 | 1.010 | 1.007 | 1.004 | 1.001 |  |  |  |
| 2005 |  | 1.110 | 1.076 | 1.053 | 1.045 | 1.033 | 1.018 | 1.012 | 1.005 | 1.005 | 1.005 |  |  |  |  |
| 2006 | 1.317 | 1.133 | 1.080 | 1.061 | 1.041 | 1.027 | 1.015 | 1.010 | 1.007 | 1.006 |  |  |  |  |  |
| 2007 | 1.350 | 1.144 | 1.075 | 1.057 | 1.037 | 1.028 | 1.012 | 1.012 | 1.006 |  |  |  |  |  |  |
| 2008 | 1.369 | 1.166 | 1.086 | 1.048 | 1.033 | 1.021 | 1.014 | 1.008 |  |  |  |  |  |  |  |
| 2009 | 1.372 | 1.171 | 1.086 | 1.054 | 1.029 | 1.019 | 1.016 |  |  |  |  |  |  |  |  |
| 2010 | 1.402 | 1.157 | 1.083 | 1.047 | 1.029 | 1.020 |  |  |  |  |  |  |  |  |  |
| 2011 | 1.366 | 1.154 | 1.072 | 1.042 | 1.026 |  |  |  |  |  |  |  |  |  |  |
| 2012 | 1.364 | 1.133 | 1.074 | 1.045 |  |  |  |  |  |  |  |  |  |  |  |
| 2013 | 1.333 | 1.135 | 1.062 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.365 | 1.140 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.352 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Selected (a) | 1.352 | 1.140 | 1.062 | 1.045 | 1.026 | 1.020 | 1.016 | 1.008 | 1.008 | 1.006 | 1.004 | 1.003 | 1.003 | 1.002 | 1.001 |
| Cumulative | 1.906 | 1.410 | 1.237 | 1.165 | 1.114 | 1.086 | 1.065 | 1.048 | 1.040 | 1.032 | 1.026 | 1.022 | 1.019 | 1.016 | 1.015 |

(a) Selections are latest year for the 21-to-33 month through 105-to-117 month factors and six-year average for the subsequent age-to-age factors.

| Incurred Medical Loss Development Factors |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Accident Year | Age-to-Age (in months) (b) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 33/21 | 45/33 | 57/45 | 69/57 | 81/69 | 93/81 | 105/93 | 117/105 | 129/117 | 141/129 | 153/141 | 165/153 | 177/165 | 189/177 | 201/189 |
| 1992 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.013 |
| 1993 |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.021 | 1.006 |
| 1994 |  |  |  |  |  |  |  |  |  |  |  |  | 1.008 | 1.012 | 1.018 |
| 1995 |  |  |  |  |  |  |  |  |  |  |  | 1.026 | 1.018 | 1.006 | 1.009 |
| 1996 |  |  |  |  |  |  |  |  |  |  | 1.019 | 1.019 | 1.017 | 1.015 | 1.005 |
| 1997 |  |  |  |  |  |  |  |  |  | 1.024 | 1.013 | 1.017 | 1.013 | 1.006 | 1.007 |
| 1998 |  |  |  |  |  |  |  |  | 1.027 | 1.020 | 1.019 | 1.006 | 1.014 | 1.010 | 1.010 |
| 1999 |  |  |  |  |  |  |  | 1.027 | 1.020 | 1.021 | 1.014 | 1.009 | 1.013 | 1.007 | 0.999 |
| 2000 |  |  |  |  |  |  | 1.030 | 1.017 | 1.026 | 1.017 | 1.017 | 1.014 | 1.006 | 1.002 | 0.996 |
| 2001 |  |  |  |  |  | 1.041 | 1.042 | 1.031 | 1.024 | 1.017 | 1.017 | 1.015 | 1.002 | 0.995 | 0.997 |
| 2002 |  |  |  |  | 1.045 | 1.038 | 1.030 | 1.027 | 1.024 | 1.016 | 1.009 | 1.003 | 0.996 | 1.000 |  |
| 2003 |  |  |  | 1.063 | 1.045 | 1.038 | 1.038 | 1.030 | 1.022 | 1.013 | 1.004 | 1.000 | 0.997 |  |  |
| 2004 |  |  | 1.085 | 1.066 | 1.063 | 1.045 | 1.034 | 1.027 | 1.019 | 1.007 | 1.001 | 0.997 |  |  |  |
| 2005 |  | 1.103 | 1.073 | 1.088 | 1.059 | 1.047 | 1.039 | 1.015 | 1.011 | 1.007 | 1.001 |  |  |  |  |
| 2006 | 1.227 | 1.124 | 1.085 | 1.071 | 1.053 | 1.043 | 1.024 | 1.014 | 1.002 | 1.001 |  |  |  |  |  |
| 2007 | 1.251 | 1.132 | 1.090 | 1.072 | 1.054 | 1.037 | 1.019 | 1.009 | 1.005 |  |  |  |  |  |  |
| 2008 | 1.241 | 1.143 | 1.103 | 1.068 | 1.045 | 1.029 | 1.013 | 1.005 |  |  |  |  |  |  |  |
| 2009 | 1.267 | 1.146 | 1.105 | 1.066 | 1.034 | 1.020 | 1.009 |  |  |  |  |  |  |  |  |
| 2010 | 1.291 | 1.155 | 1.085 | 1.051 | 1.029 | 1.015 |  |  |  |  |  |  |  |  |  |
| 2011 | 1.271 | 1.140 | 1.080 | 1.039 | 1.022 |  |  |  |  |  |  |  |  |  |  |
| 2012 | 1.233 | 1.102 | 1.062 | 1.038 |  |  |  |  |  |  |  |  |  |  |  |
| 2013 | 1.193 | 1.094 | 1.049 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.190 | 1.092 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.189 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Selected (a) | 1.189 | 1.092 | 1.049 | 1.038 | 1.022 | 1.015 | 1.009 | 1.005 | 1.014 | 1.010 | 1.008 | 1.006 | 1.005 | 1.003 | 1.002 |
| Cumulative | 1.640 | 1.379 | 1.263 | 1.204 | 1.160 | 1.135 | 1.118 | 1.108 | 1.103 | 1.088 | 1.077 | 1.068 | 1.061 | 1.056 | 1.053 |



| Paid Indemnity Loss Development Factors |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Age-to-Age (in months) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Accident Year | 33/21 | 45/33 | 57/45 | 69/57 | 81/69 | 93/81 | 105/93 | 117/105 | 129/117 | 141/129 | 153/141 | 165/153 | 177/165 | 189/177 | $\underline{201 / 189}$ |
| 1992 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.003 |
| 1993 |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.004 | 1.003 |
| 1994 |  |  |  |  |  |  |  |  |  |  |  |  | 1.005 | 1.004 | 1.002 |
| 1995 |  |  |  |  |  |  |  |  |  |  |  | 1.007 | 1.006 | 1.005 | 1.004 |
| 1996 |  |  |  |  |  |  |  |  |  |  | 1.009 | 1.007 | 1.006 | 1.004 | 1.005 |
| 1997 |  |  |  |  |  |  |  |  |  | 1.013 | 1.009 | 1.007 | 1.006 | 1.006 | 1.005 |
| 1998 |  |  |  |  |  |  |  |  | 1.017 | 1.013 | 1.009 | 1.009 | 1.007 | 1.006 | 1.006 |
| 1999 |  |  |  |  |  |  |  | 1.018 | 1.016 | 1.011 | 1.010 | 1.008 | 1.008 | 1.006 | 1.004 |
| 2000 |  |  |  |  |  |  | 1.025 | 1.018 | 1.013 | 1.010 | 1.010 | 1.008 | 1.008 | 1.005 | 1.004 |
| 2001 |  |  |  |  |  | 1.036 | 1.026 | 1.018 | 1.015 | 1.013 | 1.012 | 1.009 | 1.007 | 1.006 | 1.006 |
| 2002 |  |  |  |  | 1.053 | 1.035 | 1.022 | 1.018 | 1.016 | 1.014 | 1.009 | 1.008 | 1.006 | 1.006 |  |
| 2003 |  |  |  | 1.082 | 1.049 | 1.033 | 1.026 | 1.023 | 1.022 | 1.016 | 1.013 | 1.009 | 1.009 |  |  |
| 2004 |  |  | 1.135 | 1.081 | 1.055 | 1.043 | 1.036 | 1.032 | 1.020 | 1.016 | 1.013 | 1.010 |  |  |  |
| 2005 |  | 1.279 | 1.143 | 1.088 | 1.062 | 1.049 | 1.044 | 1.031 | 1.022 | 1.017 | 1.012 |  |  |  |  |
| 2006 | 1.704 | 1.273 | 1.152 | 1.099 | 1.072 | 1.054 | 1.039 | 1.026 | 1.022 | 1.017 |  |  |  |  |  |
| 2007 | 1.701 | 1.290 | 1.160 | 1.102 | 1.072 | 1.051 | 1.033 | 1.030 | 1.022 |  |  |  |  |  |  |
| 2008 | 1.724 | 1.323 | 1.173 | 1.103 | 1.067 | 1.044 | 1.030 | 1.024 |  |  |  |  |  |  |  |
| 2009 | 1.782 | 1.332 | 1.178 | 1.106 | 1.068 | 1.046 | 1.034 |  |  |  |  |  |  |  |  |
| 2010 | 1.793 | 1.339 | 1.172 | 1.101 | 1.066 | 1.043 |  |  |  |  |  |  |  |  |  |
| 2011 | 1.796 | 1.318 | 1.165 | 1.098 | 1.062 |  |  |  |  |  |  |  |  |  |  |
| 2012 | 1.776 | 1.316 | 1.157 | 1.101 |  |  |  |  |  |  |  |  |  |  |  |
| 2013 | 1.768 | 1.317 | 1.153 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.819 | 1.314 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.798 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Selected (a) | 1.798 | 1.314 | 1.153 | 1.101 | 1.062 | 1.043 | 1.034 | 1.024 | 1.022 | 1.017 | 1.013 | 1.009 | 1.007 | 1.006 | 1.005 |
| Cumulative Unadjusted fo |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Impact of SB 863 | 3.944 | 2.193 | 1.669 | 1.448 | 1.315 | 1.238 | 1.187 | 1.148 | 1.121 | 1.097 | 1.079 | 1.066 | 1.056 | 1.048 | 1.042 |
| Cumulative Adjusted for Impact of SB 863 (b) | 4.159 | 2.313 | 1.761 | 1.477 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

(a) Selections are latest year for the 21-to- 33 month through 105-to-117 month factors and three-year average for the subsequent age-to-age factors. (b) The 45 -to-ultimate factor for accident year 2014 and the 57-to-ultimate factor for accident year 2013 have been adjusted by $5.5 \%$ 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.)

Unadjusted (a)
Accident Year

| Unadjusted (a) | Age-to-Age (in months) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Accident Year | 33/21 | 45/33 | 57/45 | 69/57 | 81/69 | 93/81 | 105/93 | 117/105 | 129/117 | 141/129 | 153/141 | 165/153 | 177/165 | 189/177 | 201/189 |
| 1992 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.016 |
| 1993 |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.013 | 1.012 |
| 1994 |  |  |  |  |  |  |  |  |  |  |  |  | 1.017 | 1.013 | 1.012 |
| 1995 |  |  |  |  |  |  |  |  |  |  |  | 1.021 | 1.018 | 1.019 | 1.015 |
| 1996 |  |  |  |  |  |  |  |  |  |  | 1.024 | 1.021 | 1.019 | 1.015 | 1.014 |
| 1997 |  |  |  |  |  |  |  |  |  | 1.027 | 1.022 | 1.020 | 1.016 | 1.015 | 1.013 |
| 1998 |  |  |  |  |  |  |  |  | 1.033 | 1.030 | 1.023 | 1.019 | 1.018 | 1.017 | 1.017 |
| 1999 |  |  |  |  |  |  |  | 1.030 | 1.033 | 1.026 | 1.026 | 1.016 | 1.016 | 1.018 | 1.016 |
| 2000 |  |  |  |  |  |  | 1.037 | 1.033 | 1.027 | 1.023 | 1.020 | 1.020 | 1.018 | 1.014 | 1.011 |
| 2001 |  |  |  |  |  | 1.047 | 1.040 | 1.035 | 1.030 | 1.023 | 1.023 | 1.023 | 1.016 | 1.014 | 1.012 |
| 2002 |  |  |  |  | 1.061 | 1.047 | 1.037 | 1.029 | 1.025 | 1.023 | 1.019 | 1.017 | 1.013 | 1.012 |  |
| 2003 |  |  |  | 1.086 | 1.060 | 1.050 | 1.040 | 1.030 | 1.030 | 1.030 | 1.020 | 1.016 | 1.015 |  |  |
| 2004 |  |  | 1.135 | 1.100 | 1.075 | 1.059 | 1.042 | 1.037 | 1.034 | 1.028 | 1.020 | 1.014 |  |  |  |
| 2005 |  | 1.232 | 1.153 | 1.103 | 1.079 | 1.053 | 1.053 | 1.042 | 1.033 | 1.024 | 1.018 |  |  |  |  |
| 2006 | 1.472 | 1.252 | 1.156 | 1.105 | 1.073 | 1.058 | 1.049 | 1.035 | 1.028 | 1.021 |  |  |  |  |  |
| 2007 | 1.494 | 1.260 | 1.157 | 1.103 | 1.081 | 1.063 | 1.043 | 1.034 | 1.024 |  |  |  |  |  |  |
| 2008 | 1.500 | 1.271 | 1.162 | 1.113 | 1.081 | 1.054 | 1.039 | 1.028 |  |  |  |  |  |  |  |
| 2009 | 1.527 | 1.282 | 1.180 | 1.119 | 1.074 | 1.051 | 1.035 |  |  |  |  |  |  |  |  |
| 2010 | 1.551 | 1.305 | 1.176 | 1.106 | 1.072 | 1.049 |  |  |  |  |  |  |  |  |  |
| 2011 | 1.566 | 1.290 | 1.165 | 1.106 | 1.064 |  |  |  |  |  |  |  |  |  |  |
| 2012 | 1.572 | 1.288 | 1.158 | 1.102 |  |  |  |  |  |  |  |  |  |  |  |
| 2013 | 1.560 | 1.277 | 1.154 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.556 | 1.267 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.539 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Adjusted (b) | Age-to-Age (in months) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Accident Year | 33/21 | 45/33 | 57/45 | 69/57 | 81/69 | 93/81 | 105/93 | 117/105 | 129/117 | 141/129 | 153/141 | 165/153 | 177/165 | 189/177 | 201/189 |
| 1999 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.017 |
| 2000 |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.015 | 1.011 |
| 2001 |  |  |  |  |  |  |  |  |  |  |  |  | 1.018 | 1.015 | 1.013 |
| 2002 |  |  |  |  |  |  |  |  |  |  |  | 1.019 | 1.014 | 1.012 |  |
| 2003 |  |  |  |  |  |  |  |  |  |  | 1.021 | 1.018 | 1.016 |  |  |
| 2004 |  |  |  |  |  |  |  |  |  | 1.030 | 1.021 | 1.015 |  |  |  |
| 2005 |  |  |  |  |  |  |  |  | 1.035 | 1.025 | 1.020 |  |  |  |  |
| 2006 |  |  |  |  |  |  |  | 1.037 | 1.030 | 1.023 |  |  |  |  |  |
| 2007 |  |  |  |  |  |  | 1.046 | 1.037 | 1.026 |  |  |  |  |  |  |
| 2008 |  |  |  |  |  | 1.058 | 1.042 | 1.030 |  |  |  |  |  |  |  |
| 2009 |  |  |  |  | 1.079 | 1.054 | 1.037 |  |  |  |  |  |  |  |  |
| 2010 |  |  |  | 1.113 | 1.077 | 1.052 |  |  |  |  |  |  |  |  |  |
| 2011 |  |  | 1.174 | 1.111 | 1.067 |  |  |  |  |  |  |  |  |  |  |
| 2012 |  | 1.300 | 1.164 | 1.106 |  |  |  |  |  |  |  |  |  |  |  |
| 2013 | 1.572 | 1.282 | 1.156 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.560 | 1.269 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.539 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Selected (c) | 1.539 | 1.269 | 1.156 | 1.106 | 1.067 | 1.052 | 1.037 | 1.030 | 1.030 | 1.026 | 1.021 | 1.017 | 1.016 | 1.014 | 1.014 |
| Cumulative | 4.026 | 2.616 | 2.062 | 1.783 | 1.612 | 1.511 | 1.437 | 1.385 | 1.345 | 1.305 | 1.272 | 1.246 | 1.225 | 1.206 | 1.189 |
| (a) Paid medical loss development factors include the paid cost of medical cost containment programs for accident years 2011 and prior. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (b) | 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. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (c) | election | e latest | for the | o-33 m | throug | 5-to-11 | onth fac | s and thre | year ave | ge for the | bsequent | ge-to-age | actors. |  |  |

Paid Medical Loss Development Factors (Continued)

| Unadjusted (a) | Age-to-Age (in months) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Accident Year | 213/201 | 225/213 | 237/225 | 249/237 | 261/249 | 273/261 | 285/273 | 297/285 | 309/297 | 321/309 | 333/321 | 345/333 | 357/345 | 369/357 | 381/369 | 393/381 | $3931 n \mathrm{l} / 393 \mathrm{Pd}$ (d) | ULT/393Inc (e) |
| 1982 |  |  |  |  |  |  |  |  |  | 1.007 | 1.008 | 1.006 | 1.006 |  |  |  | 1.029 |  |
| 1983 |  |  |  |  |  |  |  |  | 1.004 | 1.005 | 1.004 | 1.004 | 1.004 | 1.004 | 1.004 | 1.003 | 1.030 |  |
| 1984 |  |  |  |  |  |  |  | 1.003 | 1.003 | 1.003 | 1.004 | 1.004 | 1.002 | 1.003 | 1.003 | 1.003 | 1.035 |  |
| 1985 |  |  |  |  |  |  | 1.006 | 1.004 | 1.003 | 1.003 | 1.004 | 1.004 | 1.003 | 1.002 | 1.003 | 1.002 | 1.033 |  |
| 1986 |  |  |  |  |  | 1.004 | 1.005 | 1.004 | 1.005 | 1.005 | 1.005 | 1.005 | 1.006 | 1.005 | 1.004 |  | 1.020 |  |
| 1987 |  |  |  |  | 1.007 | 1.005 | 1.005 | 1.005 | 1.005 | 1.005 | 1.005 | 1.004 | 1.003 | 1.003 |  |  | 1.021 |  |
| 1988 |  |  |  | 1.006 | 1.005 | 1.005 | 1.005 | 1.005 | 1.005 | 1.004 | 1.003 | 1.003 | 1.003 |  |  |  |  |  |
| 1989 |  |  | 1.007 | 1.005 | 1.005 | 1.007 | 1.007 | 1.006 | 1.005 | 1.005 | 1.003 | 1.003 |  |  |  |  |  |  |
| 1990 |  | 1.005 | 1.005 | 1.005 | 1.005 | 1.006 | 1.004 | 1.004 | 1.003 | 1.003 | 1.002 |  |  |  |  |  |  |  |
| 1991 | 1.007 | 1.006 | 1.005 | 1.005 | 1.006 | 1.005 | 1.006 | 1.005 | 1.003 | 1.003 |  |  |  |  |  |  |  |  |
| 1992 | 1.009 | 1.008 | 1.002 | 1.006 | 1.008 | 1.007 | 1.005 | 1.004 | 1.005 |  |  |  |  |  |  |  |  |  |
| 1993 | 1.011 | 1.011 | 1.010 | 1.009 | 1.013 | 1.008 | 1.007 | 1.006 |  |  |  |  |  |  |  |  |  |  |
| 1994 | 1.013 | 1.009 | 1.011 | 1.010 | 1.010 | 1.007 | 1.009 |  |  |  |  |  |  |  |  |  |  |  |
| 1995 | 1.011 | 1.015 | 1.014 | 1.012 | 1.009 | 1.013 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1996 | 1.014 | 1.013 | 1.013 | 1.009 | 1.007 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1997 | 1.015 | 1.011 | 1.007 | 1.006 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1998 | 1.015 | 1.011 | 1.009 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1999 | 1.013 | 1.010 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2000 | 1.010 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Adjusted (b) |  |  |  |  |  |  |  |  | Age-to- | Age (in mo | ths) |  |  |  |  |  |  |  |
| Accident Year | 213/201 | 225/213 | 237/225 | 249/237 | 261/249 | 273/261 | 285/273 | 297/285 | 309/297 | 321/309 | 333/321 | 345/333 | 357/345 | 369/357 | 381/369 | 393/381 | $393 \mathrm{lnc} / 393 \mathrm{Pd}$ (d) | ULT/393Inc (e) |
| 1982 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.029 |  |
| 1983 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.003 | 1.030 |  |
| 1984 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.003 | 1.003 | 1.035 |  |
| 1985 |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.002 | 1.003 | 1.002 | 1.033 |  |
| 1986 |  |  |  |  |  |  |  |  |  |  |  |  | 1.006 | 1.005 | 1.005 |  | 1.020 |  |
| 1987 |  |  |  |  |  |  |  |  |  |  |  | 1.004 | 1.003 | 1.003 |  |  | 1.021 |  |
| 1988 |  |  |  |  |  |  |  |  |  |  | 1.004 | 1.003 | 1.003 |  |  |  |  |  |
| 1989 |  |  |  |  |  |  |  |  |  | 1.005 | 1.003 | 1.003 |  |  |  |  |  |  |
| 1990 |  |  |  |  |  |  |  |  | 1.003 | 1.003 | 1.002 |  |  |  |  |  |  |  |
| 1991 |  |  |  |  |  |  |  | 1.005 | 1.003 | 1.003 |  |  |  |  |  |  |  |  |
| 1992 |  |  |  |  |  |  | 1.006 | 1.005 | 1.005 |  |  |  |  |  |  |  |  |  |
| 1993 |  |  |  |  |  | 1.009 | 1.007 | 1.007 |  |  |  |  |  |  |  |  |  |  |
| 1994 |  |  |  |  | 1.011 | 1.007 | 1.010 |  |  |  |  |  |  |  |  |  |  |  |
| 1995 |  |  |  | 1.013 | 1.009 | 1.014 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1996 |  |  | 1.014 | 1.009 | 1.008 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1997 |  | 1.012 | 1.007 | 1.007 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1998 | 1.016 | 1.011 | 1.010 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1999 | 1.014 | 1.011 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2000 | 1.011 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Selected (c) | 1.014 | 1.011 | 1.010 | 1.010 | 1.009 | 1.010 | 1.008 | 1.006 | 1.004 | 1.004 | 1.003 | 1.003 | 1.004 | 1.003 | 1.004 | 1.003 | 1.028 |  |
| Cumulative | 1.173 | 1.157 | 1.144 | 1.133 | 1.122 | 1.112 | 1.101 | 1.092 | 1.086 | 1.082 | 1.078 | 1.075 | 1.071 | 1.067 | 1.063 | 1.060 |  | 1.028 |



Selected Indemnity Development Factors - Paid to Age 237, Incurred from Age 237 to Ultimate (Continued)

| Accident Year | 249/237 | 261/249 | 273/261 | 285/273 | $\underline{297 / 285}$ | 309/297 | 321/309 | 333/321 | 345/333 | 357/345 | 369/357 | 381/369 | 393/381 | ULT/393Inc (e) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1981 |  |  |  |  |  |  |  | 1.003 | 0.999 | 1.001 |  |  |  |  |
| 1982 |  |  |  |  |  |  | 1.001 | 1.000 | 1.001 | 1.002 |  |  |  |  |
| 1983 |  |  |  |  |  | 1.000 | 1.000 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.000 |  |
| 1984 |  |  |  |  | 0.999 | 1.001 | 1.001 | 1.000 | 1.000 | 1.001 | 1.000 | 1.000 | 1.000 |  |
| 1985 |  |  |  | 1.000 | 1.000 | 1.001 | 1.001 | 1.000 | 1.002 | 1.001 | 1.000 | 1.000 | 1.000 |  |
| 1986 |  |  | 1.000 | 1.001 | 1.000 | 1.001 | 1.002 | 1.002 | 1.000 | 0.999 | 1.000 | 1.000 |  |  |
| 1987 |  | 1.000 | 1.000 | 1.000 | 1.001 | 1.002 | 1.000 | 1.001 | 1.000 | 1.001 | 1.000 |  |  |  |
| 1988 | 1.001 | 1.000 | 1.000 | 1.002 | 1.002 | 1.000 | 1.000 | 1.001 | 1.000 | 1.000 |  |  |  |  |
| 1989 | 1.001 | 1.000 | 1.001 | 1.000 | 1.000 | 1.000 | 1.001 | 1.001 | 1.000 |  |  |  |  |  |
| 1990 | 1.000 | 1.000 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |  |  |  |  |  |  |
| 1991 | 1.000 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |  |  |  |  |  |  |  |
| 1992 | 1.001 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 |  |  |  |  |  |  |  |  |
| 1993 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 |  |  |  |  |  |  |  |  |  |
| 1994 | 1.000 | 1.001 | 1.001 | 1.000 |  |  |  |  |  |  |  |  |  |  |
| 1995 | 1.001 | 1.000 | 1.000 |  |  |  |  |  |  |  |  |  |  |  |
| 1996 | 1.001 | 1.002 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1997 | 1.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Selected (a) | 1.001 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 | 1.001 | 1.001 | 1.000 | 1.001 | 1.000 | 1.000 | 1.000 |  |
| Cumulative | 1.010 | 1.010 | 1.009 | 1.008 | 1.008 | 1.008 | 1.008 | 1.007 | 1.006 | 1.006 | 1.005 | 1.005 | 1.005 | 1.005 |

# Paid Indemnity Loss Development Factors <br> With Separate Adjustments on Open and Closed Claims for Changes in Claim Settlement Rates 

## A. Total Reported Indemnity Claim Counts

| Accident Year | Evaluated as of (in months) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{21}$ | 33 | 45 | 57 | 69 | 81 |
| 2008 |  |  |  |  |  | 108,609 |
| 2009 |  |  |  |  | 103,782 | 103,970 |
| 2010 |  |  |  | 105,788 | 106,139 | 106,400 |
| 2011 |  |  | 106,302 | 107,108 | 107,505 | 107,740 |
| 2012 |  | 111,332 | 113,048 | 113,874 | 114,339 |  |
| 2013 | 113,482 | 118,394 | 120,014 | 120,929 |  |  |
| 2014 | 127,113 | 132,802 | 134,596 |  |  |  |
| 2015 | 132,682 | 138,240 |  |  |  |  |
| 2016 | 134,945 |  |  |  |  |  |

## B. Development of Total Reported Indemnity Claim Counts

| Accident Year | Age-to-Age Development (in months): |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 21-33 | 33-45 | 45-57 | 57-69 | 69-81 | 81-Ultimate |
| 2009 |  |  |  |  | 1.002 |  |
| 2010 |  |  |  | 1.003 | 1.002 |  |
| 2011 |  |  | 1.008 | 1.004 | 1.002 |  |
| 2012 |  | 1.015 | 1.007 | 1.004 |  |  |
| 2013 | 1.043 | 1.014 | 1.008 |  |  |  |
| 2014 | 1.045 | 1.014 |  |  |  |  |
| 2015 | 1.042 |  |  |  |  |  |
| Latest Year | 1.042 | 1.014 | 1.008 | 1.004 | 1.002 |  |
| Cumulative | 1.075 | 1.031 | 1.018 | 1.010 | 1.006 | 1.004 |
| Acc. Year | $\underline{2016}$ | $\underline{2015}$ | $\underline{2014}$ | $\underline{2013}$ | $\underline{2012}$ | $\underline{2011}$ |
| Ult. Claim Counts | 145,019 | 142,587 | 136,978 | 122,138 | 115,012 | 108,138 |

## C. Closed Indemnity Claim Counts

| Accident | Evaluated as of (in months) |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Year | $\underline{21}$ | $\underline{33}$ | $\underline{45}$ | $\underline{57}$ | $\underline{69}$ | $\underline{81}$ |
| 2008 |  |  |  |  |  | 95,642 |
| 2009 |  |  |  |  | 83,502 | 90,094 |
| 2010 |  |  | 75,877 | 85,915 | 92,484 | 94,997 |
| 2011 |  |  | 67,025 | 82,407 | 92,807 | 99,905 |
| 2012 | 50,383 | 72,601 | 89,383 | 100,669 |  |  |
| 2013 | 57,388 | 82,928 | 101,807 |  |  |  |
| 2014 | 61,417 | 89,558 |  |  |  |  |
| 2015 | 65,775 |  |  |  |  |  |
| 2016 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

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

Paid Indemnity Loss Development Factors With Separate Adjustments on Open and Closed Claims for Changes in Claim Settlement Rates
D. Ultimate Indemnity Claim Settlement Ratio (a)

| Accident Year | Evaluated as of (in months) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{21}$ | 33 | 45 | $\underline{57}$ | $\underline{69}$ | 81 |
| 2008 |  |  |  |  |  | 87.6\% |
| 2009 |  |  |  |  | 82.8\% | 87.3\% |
| 2010 |  |  |  | 78.2\% | 84.4\% | 89.0\% |
| 2011 |  |  | 70.2\% | 79.4\% | 85.5\% | 89.8\% |
| 2012 |  | 58.3\% | 71.7\% | 80.7\% | 86.9\% |  |
| 2013 | 41.3\% | 59.4\% | 73.2\% | 82.4\% |  |  |
| 2014 | 41.9\% | 60.5\% | 74.3\% |  |  |  |
| 2015 | 43.1\% | 62.8\% |  |  |  |  |
| 2016 | 45.4\% |  |  |  |  |  |

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

| Accident | Evaluated as of (in months) |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Year | $\underline{21}$ | $\underline{33}$ | $\underline{45}$ | $\underline{57}$ | $\underline{69}$ | $\underline{81}$ |
| 2008 |  |  |  |  |  | 98,052 |
| 2009 |  |  |  |  | 88,022 | 92,763 |
| 2010 |  |  | 80,372 | 89,130 | 93,934 | 95,901 |
| 2011 |  | 72,239 | 85,481 | 94,796 | 99,905 |  |
| 2012 |  |  |  |  |  |  |
| 2013 | 55,397 | 76,714 | 90,777 | 100,669 |  |  |
| 2014 | 62,128 | 86,035 | 101,807 |  |  |  |
| 2015 | 64,672 | 89,558 |  |  |  |  |
| 2016 | 65,775 |  |  |  |  |  |
|  |  |  |  |  |  |  |

F. Average Paid Indemnity per Closed Claim

| Accident | Evaluated as of (in months) |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Year | $\underline{21}$ | $\underline{33}$ | $\underline{45}$ | $\underline{57}$ | $\underline{69}$ | $\underline{81}$ |
| 2008 |  |  |  |  |  | 16,658 |
| 2009 |  |  |  |  | 13,919 | 16,746 |
| 2010 |  |  | 11,346 | 14,198 | 16,549 | 17,934 |
| 2011 |  | 8,027 | 11,709 | 14,392 | 16,460 | 17,927 |
| 2012 |  |  |  |  |  |  |
| 2013 | 4,362 | 8,380 | 12,078 | 14,764 |  |  |
| 2014 | 4,572 | 9,066 | 12,972 |  |  |  |
| 2015 | 5,020 | 9,828 |  |  |  |  |
| 2016 | 5,397 |  |  |  |  |  |

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

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

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

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

| Accident | Evaluated as of (in months) |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Year | $\underline{21}$ | $\underline{33}$ | $\underline{45}$ | $\underline{57}$ | $\underline{69}$ | $\underline{81}$ |
| 2008 |  |  |  |  |  | 17,609 |
| 2009 |  |  |  |  | 15,444 | 17,122 |
| 2010 |  |  | 12,545 | 15,218 | 16,837 | 18,309 |
| 2011 |  |  |  | 123 | 12,445 | 14,946 |
| 2012 |  |  |  | 16,466 |  |  |
| 2013 | 5,054 | 9,166 | 12,382 | 14,764 |  |  |
| 2014 | 5,192 | 9,616 | 12,972 |  |  |  |
| 2015 | 5,426 | 9,828 |  |  |  |  |
| 2016 | 5,397 |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

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

| Accident | Evaluated as of (in months) |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Year | $\underline{21}$ | $\underline{33}$ | $\underline{45}$ | $\underline{57}$ | $\underline{69}$ | $\underline{81}$ |
| 2008 |  |  |  |  | $1,576,588$ | $1,743,225$ |
| 2009 |  |  |  | $1,359,393$ | $1,588,304$ | $1,755,793$ |
| 2010 |  |  | $1,008,240$ | $1,356,406$ | $1,581,535$ | $1,740,835$ |
| 2011 |  | 659,002 | $1,063,858$ | $1,416,799$ | $1,645,034$ |  |
| 2012 |  |  |  |  |  |  |
| 2013 | 279,990 | 703,163 | $1,124,005$ | $1,486,322$ |  |  |
| 2014 | 322,539 | 827,352 | $1,320,626$ |  |  |  |
| 2015 | 350,920 | 880,155 |  |  |  |  |
| 2016 | 354,987 |  |  |  |  |  |

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

| Accident Year | Evaluated as of (in months) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{21}$ | 33 | $\underline{45}$ | $\underline{57}$ | $\underline{69}$ | 81 |
| 2008 |  |  |  |  |  | 570,166 |
| 2009 |  |  |  |  | 641,369 | 537,003 |
| 2010 |  |  |  | 699,248 | 588,239 | 476,359 |
| 2011 |  |  | 739,164 | 639,634 | 524,096 | 422,818 |
| 2012 |  | 755,345 | 729,448 | 621,607 | 508,362 |  |
| 2013 | 562,838 | 769,112 | 727,506 | 594,853 |  |  |
| 2014 | 635,592 | 876,491 | 815,130 |  |  |  |
| 2015 | 670,945 | 876,975 |  |  |  |  |
| 2016 | 668,322 |  |  |  |  |  |

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

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

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

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

| Accident | Evaluated as of (in months) |  |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
| Year | $\underline{21}$ | $\underline{33}$ | $\underline{45}$ | $\underline{57}$ | $\underline{69}$ | $\underline{81}$ |  |
| 2008 |  |  |  |  |  | 43,971 |  |
| 2009 |  |  |  |  | 37,237 | 42,444 |  |
| 2010 |  |  |  | 31,376 | 36,662 | 41,775 |  |
| 2011 |  |  | 24,295 | 30,181 | 34,891 | 39,761 |  |
| 2012 |  | 17,048 | 23,806 | 29,506 | 35,220 |  |  |
| 2013 | 8,920 | 16,795 | 23,751 | 29,361 |  |  |  |
| 2014 | 9,116 | 17,574 | 24,860 |  |  |  |  |
| 2015 | 9,415 | 18,014 |  |  |  |  |  |
| 2016 | 9,662 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

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

| Accident Year | Evaluated as of (in months) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{21}$ | 33 | 45 | 57 | $\underline{69}$ | $\underline{81}$ |
| 2008 |  |  |  |  |  | -105,969 |
| 2009 |  |  |  |  | -159,188 | -109,633 |
| 2010 |  |  |  | -141,820 | -97,924 | -37,639 |
| 2011 |  |  | -109,204 | -97,033 | -50,592 |  |
| 2012 |  | -88,888 | -73,180 | -58,688 |  |  |
| 2013 | -44,724 | -69,080 | -33,108 |  |  |  |
| 2014 | -43,208 | -54,603 |  |  |  |  |
| 2015 | -30,645 |  |  |  |  |  |

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

| Accident | Evaluated as of (in months) |  |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
| Year | $\underline{21}$ | $\underline{33}$ | $\underline{45}$ | $\underline{57}$ | $\underline{69}$ | $\underline{81}$ |  |
| 2008 |  |  |  |  |  | 464,197 |  |
| 2009 |  |  |  |  |  | 482,181 |  |
| 2010 |  |  | 627,370 |  |  |  |  |
| 2011 |  |  | 629,959 | 542,601 | 473,315 | 438,720 |  |
| 2012 |  | 666,456 | 656,267 | 562,920 | 508,362 | 422,818 |  |
| 2013 | 518,114 | 700,033 | 694,397 | 594,853 |  |  |  |
| 2014 | 592,384 | 821,889 | 815,130 |  |  |  |  |
| 2015 | 640,300 | 876,975 |  |  |  |  |  |
| 2016 | 668,322 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

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

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

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

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

| Accident | Evaluated as of (in months) |  |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
| Year | $\underline{21}$ | $\underline{33}$ | $\underline{45}$ | $\underline{57}$ | $\underline{69}$ | $\underline{81}$ |  |
| 2008 |  |  |  |  |  |  |  |
| 2009 |  |  |  |  | $2,190,784$ |  |  |
| 2010 |  |  | $1,325,458$ | $1,720,126$ | $1,979,719$ | $2,153,396$ |  |
| 2011 |  |  |  |  | $2,058,770$ | $2,170,595$ |  |
| 2012 | 998,103 | $1,403,196$ | $1,818,402$ | $2,081,174$ |  |  |  |
| 2013 | 991,220 | $1,757,130$ | $2,135,756$ |  |  |  |  |
| 2014 | $1,023,310$ |  |  |  |  |  |  |
| 2015 |  |  |  |  |  |  |  |
| 2016 |  |  |  |  |  |  |  |

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

| Accident | Evaluated as of (in months) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year | $\underline{21-33}$ | $\underline{33-45}$ | $\underline{45-57}$ | $\underline{57-69}$ | $\underline{69-81}$ |
| 2008 |  |  |  |  |  |
| 2009 |  |  |  | 1.084 | 1.054 |
| 2010 |  |  | 1.056 |  |  |
| 2011 |  | 1.298 | 1.151 | 1.082 | 1.053 |
| 2012 | 1.803 | 1.296 | 1.145 |  |  |
| 2013 | 1.773 |  |  |  |  |
| 2014 |  |  |  |  |  |
| 2015 | 1.773 | 1.295 | 1.145 | 1.088 | 1.053 |
|  | 1.778 | 1.296 | 1.152 | 1.085 | 1.054 |

O. Paid Indemnity Loss Development Factors (i)

| Accident | Evaluated as of (in months) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\underline{\text { Year }}$ | $\underline{21-33}$ | $\underline{33-45}$ | $\underline{45-57}$ | $\underline{57-69}$ | $\underline{69-81}$ |
| 2009 |  |  |  |  | 1.068 |
| 2010 |  |  |  | 1.100 | 1.065 |
| 2011 |  |  | 1.162 | 1.096 | 1.062 |
| 2012 | 1.760 | 1.310 | 1.155 | 1.100 |  |
| 2013 | 1.813 | 1.312 | 1.152 |  |  |
| 2014 | 1.794 |  |  |  |  |
| 2015 |  |  |  |  |  |

(h) Each amount is the sum of the adjusted paid indemnity on closed claims (Item H) and the adjusted paid indemnity on open claims (Item L).
(i) Development factors are based on paid indemnity losses from the same insurer mix as that used in the adjustment for changes in claim settlement rates and applied in the calculation of the development factors in Item N.

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

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

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

| Accident | Evaluated as of (in months) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | ---: | :---: |
| Year | $\underline{21-33}$ | $\underline{33-45}$ | $\underline{45-57}$ | $\underline{57-69}$ | $\underline{69-81}$ |  |
| 2009 |  |  |  |  | $-1.24 \%$ |  |
| 2010 |  |  | $-0.25 \%$ | $-1.41 \%$ | $-0.84 \%$ |  |
| 2011 |  | $-0.94 \%$ | $-0.37 \%$ | $-1.13 \%$ | $-0.87 \%$ |  |
| 2012 |  | $-0.12 \%$ | $-1.22 \%$ | $-0.62 \%$ |  |  |
| 2013 | $-0.59 \%$ | $-1.27 \%$ |  |  |  |  |
| 2014 | $-1.20 \%$ |  |  |  |  |  |
| 2015 |  |  |  |  |  |  |

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

| Accident | Evaluated as of (in months) |  |  |  |  |  |
| :---: | :--- | :--- | :--- | :--- | :--- | :---: |
| Year | $\underline{21-33}$ | $\underline{33-45}$ | $\underline{45-57}$ | $\underline{57-69}$ | $\underline{69-81}$ |  |
| 2009 |  |  |  |  | 1.055 |  |
| 2010 |  |  |  | 1.162 | 1.085 |  |
| 2011 |  | 1.304 | 1.153 | 1.089 | 1.057 |  |
| 2012 | 1.766 | 1.301 | 1.146 |  |  |  |
| 2013 | 1.808 | 1.297 |  |  |  |  |
| 2014 | 1.776 |  |  |  |  |  |
| 2015 |  |  |  |  |  |  |
|  | 1.776 | 1.297 | 1.146 | 1.089 | 1.053 |  |
| Latest Year | 1.784 | 1.301 | 1.154 | 1.086 | 1.055 |  |

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

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


| Adjusted (b) |  |  |  |  |  |  |  |  |  | e-to-Age ( | months) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Accident Year | 33/21 | 45/33 | 57/45 | 69/57 | 81/69 | 93/81 | 105/93 | 117/105 | 129/117 | 141/129 | 153/141 | 165/153 | 177/165 | 189/177 | 201/189 | 213/201 | 225/213 | 237/225 | 2371nc/237Pd (d) |
| 1996 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.014 | 1.101 |
| 1997 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.012 | 1.007 | 1.092 |
| 1998 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.016 | 1.011 | 1.010 | 1.094 |
| 1999 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.017 | 1.014 | 1.011 |  |  |
| 2000 |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.015 | 1.011 | 1.011 |  |  |  |
| 2001 |  |  |  |  |  |  |  |  |  |  |  |  | 1.018 | 1.015 | 1.013 |  |  |  |  |
| 2002 |  |  |  |  |  |  |  |  |  |  |  | 1.019 | 1.014 | 1.012 |  |  |  |  |  |
| 2003 |  |  |  |  |  |  |  |  |  |  | 1.021 | 1.018 | 1.016 |  |  |  |  |  |  |
| 2004 |  |  |  |  |  |  |  |  |  | 1.030 | 1.021 | 1.015 |  |  |  |  |  |  |  |
| 2005 |  |  |  |  |  |  |  |  | 1.035 | 1.025 | 1.020 |  |  |  |  |  |  |  |  |
| 2006 |  |  |  |  |  |  |  | 1.037 | 1.030 | 1.023 |  |  |  |  |  |  |  |  |  |
| 2007 |  |  |  |  |  |  | 1.046 | 1.037 | 1.026 |  |  |  |  |  |  |  |  |  |  |
| 2008 |  |  |  |  |  | 1.058 | 1.042 | 1.030 |  |  |  |  |  |  |  |  |  |  |  |
| 2009 |  |  |  |  | 1.079 | 1.054 | 1.037 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2010 |  |  |  | 1.113 | 1.077 | 1.052 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2011 |  |  | 1.174 | 1.111 | 1.067 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2012 |  | 1.300 | 1.164 | 1.106 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2013 | 1.572 | 1.282 | 1.156 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.560 | 1.269 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.539 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Selected (c) | 1.530(e) | 1.258(e) | 1.149(e) | 1.096(e) | 1.059(e) | 1.052 | 1.037 | 1.030 | 1.030 | 1.026 | 1.021 | 1.017 | 1.016 | 1.014 | 1.014 | 1.014 | 1.011 | 1.010 | 1.096 |
| Cumulative | 3.909 | 2.555 | 2.032 | 1.768 | 1.612 | 1.522 | 1.447 | 1.395 | 1.355 | 1.315 | 1.281 | 1.255 | 1.234 | 1.215 | 1.198 | 1.182 | 1.166 | 1.153 |  |
|  | Paid medic | loss dev | lopment fa | cors includ | the paid | st of me | al cost co | ainment pr | grams for | accident ye | ars 2011 a | d prior. |  |  |  |  |  |  |  |
|  | These fact to historical | s are adj outstandi | ted for the medical | following im sses paid | pacts: (i) red rior to Jan | duction o $\text { ry } 1,20$ | storical by an es | standing m ated 2.1\% | dical losse decrease in | s paid prio costs, and | to Januar osses paid | 1, 2013 by prior to Jan | the estimat uary 1,201 | 4.2\% 5 by an e | savings mated 1.7 | ue to appl decreas | able SB in costs d | provisio to RBRV | (ii) adjustment |
|  | Selections paid ratio is A three-yea | re latest chosen, average | ear for the d subseque f the 237 ln |  | th through ar average tor is selec | 05-to-117 curred d. | month fac develop | s and three nt factors | -year avera re selected | ge for the until ultim | ubsequen te. | paid age-to | age factors. | Paid d | lopment | ctors are | ected to | e 237, wh | re an incurred-to- |
|  | Based on c | alculations | shown on Ex | xhibits 2.6 | to 2.6.8. | ch of the | selection | is calculat | d as the la | est year paid | d medical | ge-to-age | actor multip | lied by an | djustment | or change | in claim s | tlement ra |  |

Actuarial Committee
Meeting Agenda for March 6, 2017
Selected Medical Development Factors - Paid to Age 237, Incurred from Age 237 to Ultimate (Continued)

| Accident Year | Age-to-Age (in months) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 249/237 | 261/249 | 273/261 | 285/273 | 297/285 | 309/297 | 321/309 | 333/321 | 345/333 | 357/345 | 369/357 | 381/369 | 393/381 | ULT/393Inc (f) |
| 1983 |  |  |  |  |  |  |  |  |  | 1.004 | 1.002 | 1.004 | 0.998 |  |
| 1984 |  |  |  |  |  |  |  |  | 1.001 | 1.003 | 1.002 | 0.997 | 1.000 |  |
| 1985 |  |  |  |  |  |  |  | 1.005 | 1.002 | 1.003 | 0.999 | 0.999 | 0.999 |  |
| 1986 |  |  |  |  |  |  | 1.004 | 1.005 | 1.002 | 1.001 | 0.998 | 1.001 |  |  |
| 1987 |  |  |  |  |  | 1.003 | 1.003 | 1.005 | 1.000 | 1.000 | 1.001 |  |  |  |
| 1988 |  |  |  |  | 1.004 | 1.003 | 1.003 | 1.002 | 1.000 | 1.000 |  |  |  |  |
| 1989 |  |  |  | 1.007 | 1.002 | 1.003 | 1.001 | 0.998 | 0.999 |  |  |  |  |  |
| 1990 |  |  | 1.003 | 1.003 | 0.998 | 1.001 | 1.001 | 1.000 |  |  |  |  |  |  |
| 1991 |  | 1.002 | 1.003 | 1.001 | 1.001 | 1.000 | 0.999 |  |  |  |  |  |  |  |
| 1992 | 1.005 | 1.005 | 1.005 | 1.001 | 0.999 | 0.999 |  |  |  |  |  |  |  |  |
| 1993 | 1.008 | 0.998 | 1.000 | 0.997 | 0.996 |  |  |  |  |  |  |  |  |  |
| 1994 | 1.006 | 1.001 | 1.001 | 0.991 |  |  |  |  |  |  |  |  |  |  |
| 1995 | 1.001 | 1.000 | 0.997 |  |  |  |  |  |  |  |  |  |  |  |
| 1996 | 0.995 | 1.004 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1997 | 0.995 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Selected (c) | 1.002 | 1.002 | 1.002 | 1.000 | 1.000 | 1.002 | 1.002 | 1.003 | 1.001 | 1.002 | 1.000 | 1.000 | 0.999 |  |
| Cumulative | 1.041 | 1.040 | 1.038 | 1.036 | 1.036 | 1.036 | 1.035 | 1.033 | 1.030 | 1.030 | 1.028 | 1.027 | 1.027 | 1.028 |
| (f) | The ULT/3 recent evalua | 3Inc tail fa ation, and | or was ca xtrapolate | ulated bas <br> to 80 dev | d on an in opment y | erse powe rs. | urve fit to | six-year | verage of | e 117-to-1 | 9 through | $45-\mathrm{to}-357$ | ctors, exc | uding the most |

## Paid Medical Loss Development Factors <br> With Separate Adjustments on Open and Closed Claims for Changes in Claim Settlement Rates

## A. Total Reported Indemnity Claim Counts

| Accident | Evaluated as of (in months) |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Year | $\underline{21}$ | $\underline{33}$ | $\underline{45}$ | $\underline{57}$ | $\underline{69}$ | $\underline{81}$ |
| 2008 |  |  |  |  |  | 106,898 |
| 2009 |  |  |  |  | 104,388 | 104,738 |
| 2010 |  |  | 106,302 | 107,108 | 107,505 | 104,996 |
| 2011 |  |  |  |  |  | 11,332 |
| 2012 | 113,482 | 118,394 | 120,048 | 113,874 | 114,339 |  |
| 2013 | 127,113 | 132,802 | 134,596 | 120,929 |  |  |
| 2014 | 132,682 | 138,240 |  |  |  |  |
| 2015 | 134,945 |  |  |  |  |  |
| 2016 |  |  |  |  |  |  |

## B. Development of Total Reported Indemnity Claim Counts

| Accident Year | Age-to-Age Development (in months): |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 21-33 | 33-45 | 45-57 | 57-69 | 69-81 | 81-Ultimate |
| 2009 |  |  |  |  | 1.002 |  |
| 2010 |  |  |  | 1.003 | 1.002 |  |
| 2011 |  |  | 1.008 | 1.004 | 1.002 |  |
| 2012 |  | 1.015 | 1.007 | 1.004 |  |  |
| 2013 | 1.043 | 1.014 | 1.008 |  |  |  |
| 2014 | 1.045 | 1.014 |  |  |  |  |
| 2015 | 1.042 |  |  |  |  |  |
| Latest Year | 1.042 | 1.014 | 1.008 | 1.004 | 1.002 |  |
| Cumulative | 1.075 | 1.031 | 1.018 | 1.010 | 1.006 | 1.004 |
| Acc. Year | 2016 | 2015 | 2014 | $\underline{2013}$ | 2012 | 2011 |
| Ult. Claim Counts | 145,021 | 142,589 | 136,980 | 122,140 | 115,014 | 108,140 |

## C. Closed Indemnity Claim Counts

| Accident Year | Evaluated as of (in months) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{21}$ | 33 | 45 | 57 | 69 | 81 |
| 2008 |  |  |  |  |  | 94,061 |
| 2009 |  |  |  |  | 85,330 | 90,062 |
| 2010 |  |  |  | 82,287 | 88,821 | 93,685 |
| 2011 |  |  | 75,877 | 85,915 | 92,484 | 97,106 |
| 2012 |  | 67,025 | 82,407 | 92,807 | 99,905 |  |
| 2013 | 50,383 | 72,601 | 89,383 | 100,669 |  |  |
| 2014 | 57,388 | 82,928 | 101,807 |  |  |  |
| 2015 | 61,417 | 89,558 |  |  |  |  |
| 2016 | 65,775 |  |  |  |  |  |

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

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

D. Ultimate Indemnity Claim Settlement Ratio (a)

| Accident Year | Evaluated as of (in months) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{21}$ | 33 | $\underline{45}$ | 57 | $\underline{69}$ | 81 |
| 2008 |  |  |  |  |  | 87.5\% |
| 2009 |  |  |  |  | 82.7\% | 87.3\% |
| 2010 |  |  |  | 78.1\% | 84.3\% | 88.9\% |
| 2011 |  |  | 70.2\% | 79.4\% | 85.5\% | 89.8\% |
| 2012 |  | 58.3\% | 71.6\% | 80.7\% | 86.9\% |  |
| 2013 | 41.3\% | 59.4\% | 73.2\% | 82.4\% |  |  |
| 2014 | 41.9\% | 60.5\% | 74.3\% |  |  |  |
| 2015 | 43.1\% | 62.8\% |  |  |  |  |
| 2016 | 45.4\% |  |  |  |  |  |

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

| Accident | Evaluated as of (in months) |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Year | $\underline{21}$ | $\underline{33}$ | $\underline{45}$ | $\underline{57}$ | $\underline{69}$ | $\underline{81}$ |
| 2008 |  |  |  |  |  | 96,514 |
| 2009 |  |  |  |  | 86,860 | 91,541 |
| 2010 |  |  | 80,372 | 89,130 | 93,934 | 94,634 |
| 2011 |  | 72,239 | 85,481 | 94,796 | 99,905 |  |
| 2012 |  |  |  |  |  |  |
| 2013 | 55,397 | 76,714 | 90,777 | 100,669 |  |  |
| 2014 | 62,128 | 86,035 | 101,807 |  |  |  |
| 2015 | 64,672 | 89,558 |  |  |  |  |
| 2016 | 65,775 |  |  |  |  |  |
|  |  |  |  |  |  |  |

F. Average Paid Medical per Closed Indemnity Claim

| Accident | Evaluated as of (in months) |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Year | $\underline{21}$ | $\underline{33}$ | $\underline{45}$ | $\underline{57}$ | $\underline{69}$ | $\underline{81}$ |
| 2008 |  |  |  |  |  | 20,271 |
| 2009 |  |  |  |  | 16,933 | 19,209 |
| 2010 |  |  | 12,852 | 16,384 | 19,578 | 21,877 |
| 2011 |  | 8,848 | 12,848 | 16,092 | 18,641 | 21,769 |
| 2012 |  |  |  |  |  |  |
| 2013 | 4,773 | 8,799 | 12,634 | 15,783 |  |  |
| 2014 | 4,870 | 9,132 | 12,922 |  |  |  |
| 2015 | 5,199 | 9,573 |  |  |  |  |
| 2016 | 5,510 |  |  |  |  |  |

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

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

# Paid Medical Loss Development Factors <br> With Separate Adjustments on Open and Closed Claims for Changes in Claim Settlement Rates 

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

| Accident | Evaluated as of (in months) |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Year | $\underline{21}$ | $\underline{33}$ | $\underline{45}$ | $\underline{57}$ | $\underline{69}$ | $\underline{81}$ |
| 2008 |  |  |  |  |  | 19,524 |
| 2009 |  |  |  |  | 19,022 | 21,417 |
| 2010 |  |  | 14,328 | 17,877 | 20,240 | 21,769 |
| 2011 |  | 10,040 | 13,732 | 16,769 | 18,641 |  |
| 2012 |  |  |  |  |  |  |
| 2013 | 5,480 | 9,615 | 12,986 | 15,783 |  |  |
| 2014 | 5,472 | 9,669 | 12,922 |  |  |  |
| 2015 | 5,580 | 9,573 |  |  |  |  |
| 2016 | 5,510 |  |  |  |  |  |
|  |  |  |  |  |  |  |

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

| Accident Year | Evaluated as of (in months) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{21}$ | $\underline{33}$ | 45 | 57 | 69 | 81 |
| 2008 |  |  |  |  |  | 1,884,348 |
| 2009 |  |  |  |  | 1,939,043 | 2,169,478 |
| 2010 |  |  |  | 1,652,252 | 1,960,534 | 2,196,853 |
| 2011 |  |  | 1,151,587 | 1,593,334 | 1,901,265 | 2,113,871 |
| 2012 |  | 725,293 | 1,173,869 | 1,589,639 | 1,862,322 |  |
| 2013 | 303,558 | 737,591 | 1,178,872 | 1,588,862 |  |  |
| 2014 | 339,994 | 831,889 | 1,315,587 |  |  |  |
| 2015 | 360,852 | 857,294 |  |  |  |  |
| 2016 | 362,413 |  |  |  |  |  |

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

| Accident Year | Evaluated as of (in months) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{21}$ | 33 | $\underline{45}$ | 57 | 69 | $\underline{81}$ |
| 2008 |  |  |  |  |  | 840,499 |
| 2009 |  |  |  |  | 926,226 | 796,938 |
| 2010 |  |  |  | 960,151 | 843,911 | 702,639 |
| 2011 |  |  | 949,957 | 860,569 | 722,454 | 595,607 |
| 2012 |  | 888,977 | 892,330 | 786,536 | 661,252 |  |
| 2013 | 665,160 | 851,132 | 815,502 | 679,096 |  |  |
| 2014 | 733,688 | 919,796 | 857,130 |  |  |  |
| 2015 | 747,109 | 887,393 |  |  |  |  |
| 2016 | 750,706 |  |  |  |  |  |

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

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

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

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

| Accident | Evaluated as of (in months) |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Year | $\underline{21}$ | $\underline{33}$ | $\underline{45}$ | $\underline{57}$ | $\underline{69}$ | $\underline{81}$ |
| 2008 |  |  |  |  |  | 65,475 |
| 2009 |  |  |  |  | 54,197 | 63,521 |
| 2010 |  |  |  |  | 43,444 | 53,019 |
| 2011 |  |  | 31,223 | 40,606 | 48,096 | 56,461 |
| 2012 |  | 20,064 | 29,122 | 37,335 | 45,195 |  |
| 2013 | 10,542 | 18,587 | 26,623 | 33,723 |  |  |
| 2014 | 10,523 | 18,442 | 25,149 |  |  |  |
| 2015 | 10,484 | 16,474 |  |  |  |  |
| 2016 | 8,365 |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

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) |  |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
| Year | $\underline{21}$ | $\underline{33}$ | $\underline{45}$ | $\underline{57}$ | $\underline{69}$ | $\underline{81}$ |  |
| 2008 |  |  |  |  |  | $-160,610$ |  |
| 2009 |  |  |  |  | $-198,668$ | $-144,968$ |  |
| 2010 |  |  | $-165,918$ |  |  |  |  |
| 2011 |  |  | $-140,347$ | $-130,549$ | $-69,740$ | $-58,890$ |  |
| 2012 |  | $-104,614$ | $-89,521$ | $-74,259$ |  |  |  |
| 2013 | $-52,855$ | $-76,446$ | $-37,113$ |  |  |  |  |
| 2014 | $-49,877$ | $-57,301$ |  |  |  |  |  |
| 2015 | $-34,124$ |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

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

| Accident Year | Evaluated as of (in months) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{21}$ | 33 | 45 | $\underline{57}$ | 69 | $\underline{81}$ |
| 2008 |  |  |  |  |  | 679,890 |
| 2009 |  |  |  |  | 692,258 | 631,020 |
| 2010 |  |  |  | 761,483 | 699,698 | 643,749 |
| 2011 |  |  | 809,610 | 730,020 | 652,714 | 595,607 |
| 2012 |  | 784,364 | 802,809 | 712,277 | 661,252 |  |
| 2013 | 612,305 | 774,686 | 778,389 | 679,096 |  |  |
| 2014 | 683,811 | 862,496 | 857,130 |  |  |  |
| 2015 | 712,985 | 887,393 |  |  |  |  |
| 2016 | 750,706 |  |  |  |  |  |

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

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

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

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

| Accident Year | Evaluated as of (in months) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{21}$ | 33 | 45 | 57 | $\underline{69}$ | 81 |
| 2008 |  |  |  |  |  | 208,825 |
| 2009 |  |  |  |  | 195,548 | 197,486 |
| 2010 |  |  |  | 190,579 | 192,726 | 194,740 |
| 2011 |  |  | 182,032 | 185,522 | 188,640 | 192,147 |
| 2012 |  | 184,326 | 188,670 | 193,320 | 197,720 |  |
| 2013 | 173,451 | 184,342 | 190,896 | 197,733 |  |  |
| 2014 | 211,509 | 224,459 | 233,200 |  |  |  |
| 2015 | 222,971 | 236,185 |  |  |  |  |
| 2016 | 236,3 |  |  |  |  |  |

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

| Accident Year | Evaluated as of (in months) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{21}$ | 33 | 45 | 57 | 69 | 81 |
| 2008 |  |  |  |  |  | 2,773,063 |
| 2009 |  |  |  |  | 2,826,850 | 2,997,984 |
| 2010 |  |  |  | 2,636,312 | 2,888,001 | 3,071,899 |
| 2011 |  |  | 2,318,600 | 2,704,252 | 2,950,018 | 3,117,529 |
| 2012 |  | 1,693,983 | 2,165,348 | 2,495,237 | 2,721,294 |  |
| 2013 | 1,089,314 | 1,696,619 | 2,148,157 | 2,465,691 |  |  |
| 2014 | 1,235,314 | 1,918,844 | 2,405,916 |  |  |  |
| 2015 | 1,296,808 | 1,980,872 |  |  |  |  |
| 2016 | 1,349,431 |  |  |  |  |  |

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

| Accident | Evaluated as of (in months) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year <br> 2009 | $\underline{21-33}$ | $\underline{33-45}$ | $\underline{45-57}$ | $\underline{57-69}$ | $\underline{69-81}$ |
| 2010 |  |  |  | 1.095 | 1.061 |
| 2011 |  |  | 1.166 | 1.091 | 1.057 |
| 2012 | 1.558 | 1.266 | 1.148 | 1.091 |  |
| 2013 | 1.553 | 1.254 |  |  |  |
| 2014 | 1.527 |  |  |  |  |
| 2015 |  |  |  |  |  |
|  | 1.527 | 1.254 | 1.148 | 1.091 | 1.057 |

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

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

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

P. Paid Medical Loss Development Factors (i)

| Accident | Evaluated as of (in months) |  |  |  |  |
| :---: | :--- | :--- | :--- | :--- | :--- |
| Year | $\underline{21-33}$ | $\underline{33-45}$ | $\underline{45-57}$ | $\underline{57-69}$ | $\underline{69-81}$ |
| 2009 |  |  |  |  | 1.074 |
| 2010 |  |  | 1.161 | 1.105 | 1.072 |
| 2011 |  | 1.284 | 1.156 | 1.100 | 1.064 |
| 2012 | 1.552 | 1.276 | 1.155 |  |  |
| 2013 | 1.553 | 1.265 |  |  |  |
| 2014 | 1.536 |  |  |  |  |
| 2015 |  |  |  |  |  |

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

| Accident | Evaluated as of (in months) |  |  |  |  |  |
| :---: | ---: | :---: | :---: | :---: | :---: | :---: |
| Year | $\underline{21-33}$ | $\underline{33-45}$ | $\underline{45-57}$ | $\underline{57-69}$ | $\underline{69-81}$ |  |
| 2009 |  |  |  |  | $-1.24 \%$ |  |
| 2010 |  |  |  | $0.49 \%$ | $-1.34 \%$ |  |
| 2011 |  | $-0.46 \%$ | $-0.30 \%$ | $-0.88 \%$ | $-0.71 \%$ |  |
| 2012 | $0.38 \%$ | $-0.74 \%$ | $-0.58 \%$ |  |  |  |
| 2013 | $0.04 \%$ | $-0.90 \%$ |  |  |  |  |
| 2014 | $-0.57 \%$ |  |  |  |  |  |
| 2015 |  |  |  |  |  |  |

R. Paid Medical Loss Development Factors Adjusted for Changes in Indemnity

Claim Settlement Rates (k)

| Accident | Evaluated as of (in months) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year | $\underline{21-33}$ | $\underline{33-45}$ | $\underline{45-57}$ | $\underline{57-69}$ | $\underline{69-81}$ |
| 2009 |  |  |  |  | 1.066 |
| 2010 |  |  | 1.180 | 1.096 | 1.069 |
| 2011 | 1.578 | 1.294 | 1.160 | 1.096 |  |
| 2012 | 1.561 | 1.258 | 1.149 |  |  |
| 2013 | 1.530 |  |  |  |  |
| 2014 |  |  |  |  |  |
| 2015 | 1.530 | 1.258 | 1.149 | 1.096 | 1.059 |
|  | 1.556 | 1.275 | 1.163 | 1.098 | 1.065 |

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

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

Developed Indemnity Loss Ratios Using Selected Loss Development Factors Adjusted for Changes in Claim Settlement Rates Based on Experience as of September 30, 2017

|  | (1) | Development Factors |  |  | (5) |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Cumulative |  |  |
|  |  | (2) | (3) | (4) |  |
| Accident Year | Paid or Incurred Loss Ratio (a) | Annual (b) | Unadjusted for Impact of SB 863 (b) | Adjusted for Impact of SB 863 (b) | Projected Ultimate Loss Ratio |
|  |  |  |  |  | (5) $=(1) \times(4)$ |
| 1985 | 0.446 | 1.000 | 1.005 | 1.005 | 0.449 |
| 1986 | 0.396 | 1.000 | 1.005 | 1.005 | 0.398 |
| 1987 | 0.346 | 1.000 | 1.005 | 1.005 | 0.347 |
| 1988 | 0.330 | 1.000 | 1.005 | 1.005 | 0.332 |
| 1989 | 0.343 | 1.001 | 1.006 | 1.006 | 0.345 |
| 1990 | 0.397 | 1.000 | 1.006 | 1.006 | 0.400 |
| 1991 | 0.424 | 1.001 | 1.007 | 1.007 | 0.427 |
| 1992 | 0.349 | 1.001 | 1.008 | 1.008 | 0.352 |
| 1993 | 0.287 | 1.000 | 1.008 | 1.008 | 0.290 |
| 1994 | 0.327 | 1.000 | 1.008 | 1.008 | 0.330 |
| 1995 | 0.473 | 1.000 | 1.008 | 1.008 | 0.476 |
| 1996 | 0.530 | 1.001 | 1.009 | 1.009 | 0.534 |
| 1997 | 0.599 | 1.001 | 1.010 | 1.010 | 0.605 |
| 1998 | 0.651 | 1.001 | 1.010 | 1.010 | 0.657 |
| 1999 | 0.667 | 1.004 | 1.038 | 1.038 | 0.693 |
| 2000 | 0.574 | 1.003 | 1.042 | 1.042 | 0.598 |
| 2001 | 0.474 | 1.005 | 1.047 | 1.047 | 0.496 |
| 2002 | 0.351 | 1.005 | 1.052 | 1.052 | 0.370 |
| 2003 | 0.230 | 1.006 | 1.058 | 1.058 | 0.243 |
| 2004 | 0.136 | 1.007 | 1.065 | 1.065 | 0.145 |
| 2005 | 0.115 | 1.009 | 1.075 | 1.075 | 0.124 |
| 2006 | 0.148 | 1.013 | 1.089 | 1.089 | 0.161 |
| 2007 | 0.201 | 1.017 | 1.107 | 1.107 | 0.222 |
| 2008 | 0.250 | 1.022 | 1.131 | 1.131 | 0.283 |
| 2009 | 0.286 | 1.024 | 1.158 | 1.158 | 0.331 |
| 2010 | 0.270 | 1.034 | 1.198 | 1.198 | 0.324 |
| 2011 | 0.242 | 1.043 | 1.249 | 1.249 | 0.302 |
| 2012 | 0.207 | 1.053 | 1.315 | 1.315 | 0.273 |
| 2013 | 0.166 | 1.089 | 1.432 | 1.460 | 0.243 |
| 2014 | 0.138 | 1.146 | 1.640 | 1.730 | 0.239 |
| 2015 | 0.106 | 1.297 | 2.128 | 2.244 | 0.238 |
| 2016 | 0.059 | 1.776 | 3.780 | 3.987 | 0.233 |

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

## Developed Medical Loss Ratios Using Selected Loss Development Factors Adjusted for Changes in Claim Settlement Rates with Adjustment for SB 863 Based on Experience as of September 30, 2017


(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 June 30, 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.
(d) The developed medical loss ratios shown were derived based on 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.

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## Indemnity Benefit Level Factors


(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) $/ 100+1.0] \times[$ Column (2) $/ 100+1.0] \times[$ Column (3) $/ 100+1.0]-1.0\} \times 100$.
(d) These factors represent the combined impact of the annual benefit changes on claim severity shown in Column (1), claim frequencies shown in Column (2) and wage inflation impact on benefits shown in Column (3), adjusted to the $1 / 1 / 2019$ 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

| Acciden |  |  |  | (4) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Proportion of | Proportion of | Impact of |  | Impact of | Annual |
|  | Medical | Medical Not | Fee Schedule | Change in | CPI Change | Non-Legislative |
|  | Subject to | Subject to | Change on | Medical | on Total | Cost Impact on |
|  | Fee Schedule (a) | Fee Schedule (a) | Total Medical (b) | $\mathrm{CPI}(\mathrm{c})$ | 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 | 0.5\% | 4.2\% | 0.3\% | 0.8\% |
| 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\% | 2.9\% | 0.2\% | 0.3\% |
| 2018 | 0.919 | 0.081 | 0.0\% | 3.3\% | 0.3\% | 0.3\% |
| 1/1/2019 | 0.919 | 0.081 | 0.0\% (Annual 0.0\%) | 1.5\% (Annual 3.0\%) | 0.1\% | 0.1\% |

(a) From a Special Carrier Study through 1990. Based on WCIRB's Aggregate Indemnity and Medical Costs Calls for years 1991 through 2012. Based on WCIRB medical transaction data from 2013 onwards. Accident years 2011 and subsequent do not include MCCP costs.
(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).
(c) Based on a component of the Consumer Price Index. Projections furnished by the California Department of Finance.
(d) Adjusted CPI on workers' compensation medical costs that are not subject to fee schedules. The current year impact is the weighted average of $0 \%$ and Column (4), with Columns (1) and (2) from prior years as weights. (i) 1993's non-fee proportion is reduced by $13.8 \%$ due to the new medical-legal fee schedule enacted in 1994. (ii) 1998's non-fee proportion is reduced by $7.7 \%$ due to the Inpatient Hospital Fee Schedule (IHFS) effective 4/1/1999. (iii) 2002's non-fee proportion is reduced by $7.6 \%$ due to the new pharmaceutical fee schedule effective $1 / 1 / 2003$. (iv) 2003's non-fee proportion is reduced by $17.2 \%$ due to the outpatient fee schedule effective $1 / 1 / 2004$. (v) Given the anticipated impact of legislative reform, a $0 \%$ inflation rate has been assumed for 2004 and 2005.
(e) Column (6) = Column (3) + Column (5).

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Annual Medical Cost Level Change - Legislative
$\left.\begin{array}{cccc} & \begin{array}{c}(1) \\ \text { Accident } \\ \text { Year }\end{array} & \begin{array}{c}\text { Annual Legislative } \\ \text { Cost Impact on } \\ \text { Medical Severity(a) }\end{array} & \begin{array}{c}(2) \\ \text { Annual Legislative Cost Impact } \\ \text { on Medical Due to } \\ \text { Frequency Changes(b) }\end{array}\end{array} \begin{array}{c}\text { (3) } \\ \text { Annual Total } \\ \text { Legislative Cost } \\ \text { Impact on Medical(c) }\end{array}\right]$
(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
(c) $[$ Column (1) +1.0$] \times[$ Column (2) +1.0$]-1.0$

## Total Medical Cost Level Factors

|  | (1) <br> Annual <br> Non-Legislative <br> Cost Impact on <br> Medical (a) | (2) <br> Annual <br> Legislative <br> Cost Impact on <br> Medical(b) | $(3)$ | $(4)$ <br> Annual Cost <br> Impact on <br> Medical(c) |
| :---: | :---: | :---: | :---: | :---: |

(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 1/1/2019 level.
(e) The on-level factors for accident years 2014, 2015, and 2016 include the estimated impact of the January 1, 2014 physician fee schedule for the service year 2017.

## Annual Wage Level Changes

| Year | Annual Wage Level Change | Factor to a 1/1/2019 Wage Level |
| :---: | :---: | :---: |
| 1985 | 5.7 | 3.209 |
| 1986 | 4.7 | 3.064 |
| 1987 | 5.6 | 2.902 |
| 1988 | 4.4 | 2.780 |
| 1989 | 4.3 | 2.665 |
| 1990 | 5.0 | 2.538 |
| 1991 | 2.3 | 2.481 |
| 1992 | 4.7 | 2.370 |
| 1993 | 1.2 | 2.342 |
| 1994 | 1.8 | 2.300 |
| 1995 | 2.9 | 2.235 |
| 1996 | 3.4 | 2.162 |
| 1997 | 4.7 | 2.065 |
| 1998 | 5.2 | 1.963 |
| 1999 | 6.2 | 1.848 |
| 2000 | 9.0 | 1.696 |
| 2001 | 0.6 | 1.685 |
| 2002 | 0.5 | 1.677 |
| 2003 | 3.3 | 1.624 |
| 2004 | 4.7 | 1.551 |
| 2005 | 3.1 | 1.504 |
| 2006 | 4.6 | 1.438 |
| 2007 | 4.5 | 1.376 |
| 2008 | 2.1 | 1.348 |
| 2009 | 0.5 | 1.341 |
| 2010 | 3.0 | 1.302 |
| 2011 | 3.1 | 1.263 |
| 2012 | 4.1 | 1.213 |
| 2013 | 0.7 | 1.205 |
| 2014 | 3.3 | 1.166 |
| 2015 | 4.3 | 1.118 |
| 2016 | 2.9 | 1.087 |
| Projected: |  |  |
| 2017 | 2.1 |  |
| 2018 | 4.0 |  |
| 1/1/2019 | 2.3 |  |

Source: California average annual wage level changes for 1985 to 2019 derived from information published by the UCLA Anderson School of Business as of September 2017.

|  | (1) | (2a) | (2b) | (2c) | (3) | (4) | (5) | (6) | (7) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Calendar Year | Factor to a 1/1/2019 Wage Level (a) | Ratio of Industry Average Charged Rates to Advisory Pure Premium <br> a) Rates (b) | Factor to Industry Average Filed Pure Premium Rate Level as of July 1, 2017 (c) | Factor to Adjust Insurer Premium to an Industry Average Filed Pure Premium Rate Level as of July 1, 2017 (d) | Adjustment to Remove Surcharge Premium (e) | Average Experience Modification (f) | Off-Balance Correction in Advisory January 1, 2017 Pure Premium Rates | Factor to Adjust for Impact of Premium Resulting from Audits (g) | Composite Premium Adjustment Factor (h) |
| 1985 | 3.209 | --- | --- | 0.974 | 0.991 | 0.984 | 1.026 | --- | 3.069 |
| 1986 | 3.064 | --- | --- | 0.890 | 0.991 | 0.983 | 1.026 | --- | 2.680 |
| 1987 | 2.902 | --- | --- | 0.782 | 0.992 | 0.983 | 1.026 | --- | 2.234 |
| 1988 | 2.780 | --- | --- | 0.700 | 0.993 | 0.963 | 1.026 | --- | 1.955 |
| 1989 | 2.665 | --- | --- | 0.689 | 0.993 | 0.945 | 1.026 | --- | 1.881 |
| 1990 | 2.538 | --- | --- | 0.672 | 0.991 | 0.942 | 1.026 | --- | 1.749 |
| 1991 | 2.481 | --- | --- | 0.622 | 0.987 | 0.939 | 1.026 | --- | 1.581 |
| 1992 | 2.370 | --- | --- | 0.597 | 0.982 | 0.940 | 1.026 | --- | 1.441 |
| 1993 | 2.342 | --- | --- | 0.589 | 0.981 | 0.949 | 1.026 | --- | 1.390 |
| 1994 | 2.300 | --- | --- | 0.675 | 0.986 | 0.948 | 1.026 | --- | 1.574 |
| 1995 | 2.235 | --- | --- | 0.913 | 0.995 | 0.958 | 1.026 | --- | 2.067 |
| 1996 | 2.162 | 1.024 | 0.970 | 0.947 | 1.000 | 0.935 | 1.026 | --- | 2.135 |
| 1997 | 2.065 | 0.989 | 0.968 | 0.979 | 1.000 | 0.949 | 1.026 | --- | 2.076 |
| 1998 | 1.963 | 0.965 | 1.009 | 1.046 | 1.000 | 0.959 | 1.026 | --- | 2.086 |
| 1999 | 1.848 | 0.972 | 1.019 | 1.048 | 1.000 | 0.954 | 1.026 | --- | 1.980 |
| 2000 | 1.696 | 1.006 | 0.924 | 0.918 | 1.000 | 0.970 | 1.026 | --- | 1.565 |
| 2001 | 1.685 | 1.029 | 0.814 | 0.791 | 1.000 | 0.969 | 1.026 | --- | 1.341 |
| 2002 | 1.677 | 1.157 | 0.729 | 0.630 | 1.000 | 0.991 | 1.026 | --- | 1.039 |
| 2003 | 1.624 | 1.267 | 0.596 | 0.470 | 1.000 | 1.005 | 1.026 | --- | 0.741 |
| 2004 | 1.551 | 1.397 | 0.606 | 0.434 | 1.000 | 0.981 | 1.026 | --- | 0.668 |
| 2005 | 1.504 | 1.470 | 0.730 | 0.497 | 1.000 | 0.982 | 1.026 | --- | 0.741 |
| 2006 | 1.438 | 1.447 | 0.940 | 0.650 | 1.000 | 0.956 | 1.026 | --- | 0.952 |
| 2007 | 1.376 | 1.493 | 1.281 | 0.858 | 1.000 | 0.931 | 1.026 | 0.985 | 1.218 |
| 2008 | 1.348 | 1.426 | 1.525 | 1.069 | 1.000 | 0.946 | 1.026 | 0.991 | 1.472 |
| 2009 | 1.341 | 1.366 | 1.503 | 1.100 | 1.000 | 0.937 | 1.026 | 1.034 | 1.587 |
| 2010 | 1.302 | 1.383 | 1.473 | 1.065 | 1.000 | 0.941 | 1.026 | 1.005 | 1.444 |
| 2011 | 1.263 | 1.401 | 1.472 | 1.051 | 1.000 | 0.982 | 1.026 | --- | 1.317 |
| 2012 | 1.213 | 1.222 | 1.213 | 0.993 | 1.000 | 1.000 | 1.026 | --- | 1.174 |
| 2013 | 1.205 | 1.138 | 0.977 | 0.859 | 1.000 | 0.983 | 1.026 | --- | 1.025 |
| 2014 | 1.166 | 1.126 | 0.900 | 0.799 | 1.000 | 0.961 | 1.026 | --- | 0.945 |
| 2015 | 1.118 | 1.108 | 0.874 | 0.789 | 1.000 | 0.952 | 1.026 | --- | 0.903 |
| 2016 | 1.087 | 1.147 | 0.941 | 0.820 | 1.000 | 0.952 | 1.026 | --- | 0.913 |

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

## 2016 Accident Year Indemnity Claim Frequency Model As of PY 2014 1st Set \& June 2017 UCLA



Notes:
Indemnity Benefit Level variable is leading. The benefit level change for AY 2004 is related to the AY 2003 change in non-cumulative frequency
The Indemnity Benefit Level change for Ogilvie \& Almaraz / Guzman in 2009-2010 is not leading.
The Indemnity Benefit Level variable excludes indemnity benefit utilization, and changes in the death and permanent total benefits.
The Indemnity Benefit Level variable has been revised due to on-leveling reassessments. See Actuarial Committee item AC09-03-03
For 1993 on, cumulative claims include both cumulative trauma and occupational disease claims. See March 19, 2014 Actuarial Committee Agenda Item III.
Economic variables are historical through 2016; June 2017 UCLA Anderson Forecasts for 2017 on.
Regression is over AY 1979 through AY 2015. AY 2016 through AY 2019 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 2015 change is based on a comparison of 2015 accidents on 2014 policies to 2014 accidents on 2013 policies

## Projection of Indemnity Severity Trends by Accident Year Based on Experience as of September 30, 2017

|  | (1) | (2) | (3) | (4) | (5) |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Estimated |  | Indemnity | Ultimate |  |
| Accident | Ultimate | Annual | Adjustment | On-level | Annual |
| Year | Severity | \% Change | Factor(a) | Severity | \% Change |
|  |  |  |  | (1) $\times$ (3) |  |
| 1990 | 9,986 | --- | 1.825 | 18,221 | --- |
| 1991 | 10,924 | 9.4\% | 1.726 | 18,850 | 3.5\% |
| 1992 | 11,026 | 0.9\% | 1.668 | 18,396 | -2.4\% |
| 1993 | 12,015 | 9.0\% | 1.658 | 19,926 | 8.3\% |
| 1994 | 12,979 | 8.0\% | 1.737 | 22,545 | 13.1\% |
| 1995 | 14,557 | 12.2\% | 1.618 | 23,553 | 4.5\% |
| 1996 | 16,314 | 12.1\% | 1.518 | 24,771 | 5.2\% |
| 1997 | 19,382 | 18.8\% | 1.362 | 26,404 | 6.6\% |
| 1998 | 21,232 | 9.5\% | 1.257 | 26,678 | 1.0\% |
| 1999 | 23,308 | 9.8\% | 1.164 | 27,137 | 1.7\% |
| 2000 | 24,708 | 6.0\% | 1.087 | 26,855 | -1.0\% |
| 2001 | 27,212 | 10.1\% | 1.088 | 29,607 | 10.2\% |
| 2002 | 26,295 | -3.4\% | 1.117 | 29,372 | -0.8\% |
| 2003 | 25,876 | -1.6\% | 1.116 | 28,880 | -1.7\% |
| 2004 | 21,097 | -18.5\% | 1.327 | 28,002 | -3.0\% |
| 2005 | 19,012 | -9.9\% | 1.526 | 29,013 | 3.6\% |
| 2006 | 20,766 | 9.2\% | 1.422 | 29,538 | 1.8\% |
| 2007 | 22,602 | 8.8\% | 1.378 | 31,144 | 5.4\% |
| 2008 | 24,751 | 9.5\% | 1.306 | 32,318 | 3.8\% |
| 2009 | 25,903 | 4.7\% | 1.298 | 33,619 | 4.0\% |
| 2010 | 25,576 | -1.3\% | 1.280 | 32,736 | -2.6\% |
| 2011 | 25,185 | -1.5\% | 1.260 | 31,728 | -3.1\% |
| 2012 | 24,771 | -1.6\% | 1.230 | 30,472 | -4.0\% |
| 2013 | 25,057 | 1.2\% | 1.199 | 30,040 | -1.4\% |
| 2014 | 26,825 | 7.1\% | 1.102 | 29,558 | -1.6\% |
| 2015 | 27,508 | 2.5\% | 1.075 | 29,572 | 0.0\% |
| 2016 | 27,875 | 1.3\% | 1.056 | 29,444 | -0.4\% |
| (6) Estimated Annual Exponential Trend Based on 2005 to 2016: |  |  |  |  | -0.3\% |
| (7) Estimated Annual Exponential Trend Based on 2011 to 2016: |  |  |  |  | -1.4\% |
| Selected Indemnity Severity Trend: |  |  |  |  | 0.7\% |

(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 September 30, 2017


(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.
Projection of Medical Severity Trends by Accident Year
Adjusted to Remove the Cost of Medical Cost Containment Programs (MCCP)

| MCCP Removed Based on WCIRB Aggregate <br> Calendar Year Data Calls (b) |  |  |
| :---: | :---: | :---: |
| (7) | (8) | (9) |
|  | Ultimate |  |
| Annual | On-Level | Annual |
| \% Change | Severity (c) | \% Change |
| --- | 25,333 | --- |
| 8.4\% | 27,413 | 8.2\% |
| 11.5\% | 30,093 | 9.8\% |
| 6.6\% | 32,070 | 6.6\% |
| 5.7\% | 33,946 | 5.8\% |
| 0.8\% | 34,330 | 1.1\% |
| -0.2\% | 35,159 | 2.4\% |
| -5.6\% | 34,553 | -1.7\% |
| -5.4\% | 34,023 | -1.5\% |
| -2.2\% | 34,036 | 0.0\% |
| -0.4\% | 33,902 | -0.4\% |
| 2.0\% | 34,435 | 1.6\% |
|  |  | 2.3\% |
|  |  | -0.5\% |
| lected Medical Severity Trend: |  | 3.0\% |

Source: WCIRB experience calls
Estimated Annual Exponential
Trend Based on 2005 to 2016:
Trend Based on 2011 to 2016:

[^5]Projected On-Level Accident Year Indemnity Loss to Industry Average Filed Pure Premium Ratios Based on Experience as of September 30, 2017
\(\left.$$
\begin{array}{ccccc}\begin{array}{c}\text { Accident } \\
\text { Year }\end{array} & \begin{array}{c}(1) \\
\text { Developed Indemnity } \\
\text { Loss Ratio(a) }\end{array} & \begin{array}{c}(2) \\
\text { Composite Indemnity } \\
\text { Adjustment Factor(b) }\end{array} & \begin{array}{c}(3) \\
\text { Composite Premium } \\
\text { Adjustment Factor(c) }\end{array} & \begin{array}{c}(4) \\
\text { On-Level Indemnity to } \\
\text { Industry Average Filed } \\
\text { Pure Premium Ratio }\end{array}
$$ <br>

\hline 1985 \& 0.449 \& 1.518 \& \& (1) \times(2) \div(3)\end{array}\right]\)| 0.222 |
| :--- |
| 1986 |

(a) See Exhibit 3.1.
(b) See Exhibit 4.1.
(c) See Exhibit 5.2.
(d) These on-level ratios were projected based on an estimated annual indemnity severity trend from Exhibit 6.2, the actual frequency trend for accident year 2016 from Exhibit 12, and projected frequency trends for accident years 2017, 2018, and 2019 from Exhibit 6.1; these trends were then separately applied to the 2015 and 2016 on-level ratios.

# Actuarial Committee 

On-Level Indemnity Loss to Industry Average Filed Pure Premium Ratios
Based on Experience as of September 30, 2017


* On-level indemnity to industry average filed pure premium ratios (see Exhibit 7.1)
** The $1 / 1 / 2019$ indemnity to industry average filed pure premium ratio was calculated based on separate frequency and severity trends applied to the 2015 and 2016 years.


## Projected On-Level Accident Year <br> Medical Loss to Industry Average Filed Pure Premium Ratios Based on Experience as of September 30, 2017

| Accident Year | (1) | (2) | (3) | (4) <br> On-Level Medical to Industry Average Filed Pure Premium Ratio(e) |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
|  | Loss Ratio(a) | On-Level Factor(b) | Adjustment Factor(c) |  |
|  |  |  |  |  |
| 1985 | 0.360 | 0.991 | 3.069 | 0.116 |
| 1986 | 0.342 | 0.962 | 2.680 | 0.123 |
| 1987 | 0.322 | 0.927 | 2.234 | 0.134 |
| 1988 | 0.313 | 0.893 | 1.955 | 0.143 |
| 1989 | 0.335 | 0.867 | 1.881 | 0.154 |
| 1990 | 0.378 | 0.702 | 1.749 | 0.152 |
| 1991 | 0.397 | 0.601 | 1.581 | 0.151 |
| 1992 | 0.330 | 0.633 | 1.441 | 0.145 |
| 1993 | 0.276 | 0.758 | 1.390 | 0.151 |
| 1994 | 0.319 | 0.795 | 1.574 | 0.161 |
| 1995 | 0.470 | 0.784 | 2.067 | 0.178 |
| 1996 | 0.506 | 0.773 | 2.135 | 0.183 |
| 1997 | 0.567 | 0.766 | 2.076 | 0.209 |
| 1998 | 0.685 | 0.675 | 2.086 | 0.222 |
| 1999 | 0.699 | 0.585 | 1.980 | 0.206 |
| 2000 | 0.639 | 0.537 | 1.565 | 0.219 |
| 2001 | 0.569 | 0.490 | 1.341 | 0.208 |
| 2002 | 0.444 | 0.509 | 1.039 | 0.217 |
| 2003 | 0.285 | 0.534 | 0.741 | 0.206 |
| 2004 | 0.195 | 0.807 | 0.668 | 0.236 |
| 2005 | 0.193 | 0.937 | 0.741 | 0.243 |
| 2006 | 0.251 | 0.984 | 0.952 | 0.260 |
| 2007 | 0.357 | 0.966 | 1.218 | 0.283 |
| 2008 | 0.453 | 0.959 | 1.472 | 0.296 |
| 2009 | 0.535 | 0.946 | 1.587 | 0.319 |
| 2010 | 0.536 | 0.943 | 1.444 | 0.350 |
| 2011 | 0.468 | 0.960 | 1.317 | 0.341 |
| 2012 | 0.411 | 0.988 | 1.174 | 0.346 |
| 2013 | 0.346 | 1.016 | 1.025 | 0.343 |
| 2014 | 0.314 | 1.020 | 0.945 | 0.339 |
| 2015 | 0.305 | 1.018 | 0.903 | 0.344 |
| 2016 | 0.303 | 1.014 | 0.913 | 0.336 |
|  |  |  |  | Projections (d) |
| 2017 |  |  |  | 0.349 |
| 2018 |  |  |  | 0.354 |
| 1/1/2019 |  |  |  | 0.357 |
| (a) | See Exhibit 3.2. |  |  |  |
| (b) | See Exhibit 4.4. |  |  |  |
| (c) | See Exhibit 5.2. |  |  |  |
| (d) | These on-level ratios were projected based on an estimated annual medical severity trend from Exhibit 6.4, the actual frequency trend for accident year 2016 from Exhibit 12, and projected frequency trends for accident years 2017, 2018, and 2019 from Exhibit 6.1; these trends were then separately applied to the 2015 and 2016 on-level ratios. |  |  |  |

# On-Level Medical Loss to Industry Average Filed Pure Premium Ratios <br> Based on Experience as of September 30, 2017 



* On-level medical to industry average filed pure premium ratios (see Exhibit 7.3)
** The $1 / 1 / 2019$ medical to industry average filed pure premium ratio was calculated based on separate frequency and severity trends applied to the 2015 and 2016 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 September 30, 2017

|  | Indemnity | Medical | Total |
| :---: | :---: | :---: | :---: |
| 1. Projected Loss to Industry Average Filed Pure Premium Ratio (See Exhibits 7.1 and 7.3) | 0.271 | 0.357 | 0.628 |

## Quarterly Incurred Indemnity Loss Development Factors

 Through September 30, 2017| Age in |  |  |  |  |  |  |  |  |  | dent Ye |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Months | $\underline{1999}$ | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | 2007 | $\underline{2008}$ | 2009 | $\underline{2010}$ | 2011 | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | $\underline{2016}$ | $\underline{2017}$ |
| 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 | 1.860 |
| 12/9 |  |  |  |  |  |  |  | 1.448 | 1.511 | 1.510 | 1.530 | 1.564 | 1.632 | 1.587 | 1.585 | 1.570 | 1.578 | 1.578 |  |
| 15/12 | 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 | 1.202 | 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 |  |
| 21/18 | 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 | 1.112 | 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 |  |  |
| 27/24 | 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 | 1.069 | 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 | 1.058 | 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 | 1.046 | 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 |  |  |  |
| 39/36 | 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 | 1.028 | 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 | 1.026 | 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 | 1.020 | 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 |  |  |  |  |
| 51/48 | 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 | 1.018 | 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 | 1.017 | 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 | 1.014 | 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 |  |  |  |  |  |
| 63/60 | 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 | 1.009 | 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 | 1.007 | 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 | 1.006 | 1.005 | 1.005 | 1.005 | 1.009 | 1.009 | 1.013 | 1.011 | 1.009 | 1.009 | 1.009 | 1.010 | 1.008 |  |  |  |  |  |  |
| 75/72 | 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 | 1.004 | 1.003 | 1.007 | 1.005 | 1.006 | 1.006 | 1.012 | 1.009 | 1.010 | 1.006 | 1.006 | 1.006 | 1.007 |  |  |  |  |  |  |
| 81/78 | 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 | 1.005 | 1.003 | 1.006 | 1.006 | 1.007 | 1.008 | 1.005 | 1.009 | 1.006 | 1.004 | 1.007 |  |  |  |  |  |  |  |
| 87/84 | 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 | 1.003 | 1.003 | 1.003 | 1.003 | 1.004 | 1.008 | 1.008 | 1.008 | 1.008 | 1.004 | 1.005 | 1.005 |  |  |  |  |  |  |  |
| 93/90 | 1.002 | 1.004 | 1.003 | 1.002 | 1.005 | 1.006 | 1.008 | 1.006 | 1.007 | 1.006 | 1.003 | 1.005 |  |  |  |  |  |  |  |
| 96/93 | 1.003 | 1.001 | 1.004 | 1.002 | 1.006 | 1.006 | 1.003 | 1.002 | 1.003 | 1.004 | 1.004 |  |  |  |  |  |  |  |  |

[^6]Quarterly Incurred Medical Loss Development Factors * Through September 30, 2017

| Age in | Accident Year |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Months | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | 2015 | $\underline{2016}$ | $\underline{2017}$ |
| 6/3 |  |  |  |  |  |  |  | 2.584 | 2.662 | 2.782 | 2.892 | 2.992 | 2.757 | 2.853 | 2.843 | 2.921 | 2.863 | 3.019 | 3.196 |
| 9/6 |  |  |  |  |  |  |  | 1.650 | 1.744 | 1.717 | 1.807 | 1.800 | 1.827 | 1.833 | 1.819 | 1.840 | 1.884 | 1.755 | 1.725 |
| 12/9 |  |  |  |  |  |  |  | 1.453 | 1.443 | 1.466 | 1.454 | 1.488 | 1.521 | 1.484 | 1.500 | 1.482 | 1.451 | 1.487 |  |
| 15/12 | 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 | 1.116 | 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 | 1.086 | 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 | 1.072 | 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 |  |  |
| 27/24 | 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 | 1.049 |  |  |
| 30/27 | 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 | 1.047 | 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 | 1.042 | 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 |  |  |  |
| 39/36 | 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 | 1.024 |  |  |  |
| 42/39 | 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 | 1.033 | 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 | 1.023 | 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 |  |  |  |  |
| 51/48 | 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 | 1.027 | 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 | 1.024 | 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 | 1.015 | 1.009 | 1.008 | 1.014 | 1.020 | 1.019 | 1.018 | 1.017 | 1.019 | 1.016 | 1.015 | 1.014 | 1.012 |  |  |  |  |  |
| 63/60 | 1.020 | 1.013 | 1.012 | 1.008 | 1.016 | 1.015 | 1.021 | 1.015 | 1.018 | 1.016 | 1.020 | 1.015 | 1.010 | 1.010 |  |  |  |  |  |
| 66/63 | 1.016 | 1.010 | 1.012 | 1.015 | 1.013 | 1.015 | 1.022 | 1.019 | 1.018 | 1.017 | 1.015 | 1.010 | 1.009 | 1.008 |  |  |  |  |  |
| 69/66 | 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 | 1.007 |  |  |  |  |  |
| 72/69 | 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 |  |  |  |  |  |  |
| 75/72 | 1.008 | 1.006 | 1.008 | 1.010 | 1.009 | 1.012 | 1.012 | 1.011 | 1.018 | 1.013 | 1.008 | 1.006 | 1.002 |  |  |  |  |  |  |
| 78/75 | 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 | 1.009 | 1.010 | 1.014 | 1.018 | 1.017 | 1.016 | 1.009 | 1.009 | 1.005 | 1.006 | 1.006 |  |  |  |  |  |  |
| 84/81 | 1.006 | 1.009 | 1.014 | 1.009 | 1.007 | 1.012 | 1.011 | 1.008 | 1.010 | 1.008 | 1.007 | 1.005 |  |  |  |  |  |  |  |
| 87/84 | 1.008 | 1.008 | 1.010 | 1.009 | 1.010 | 1.012 | 1.014 | 1.012 | 1.008 | 1.007 | 1.004 | 1.004 |  |  |  |  |  |  |  |
| 90/87 | 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 | 1.007 | 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 | 1.010 | 1.012 | 1.008 | 1.010 | 1.011 | 1.009 | 1.005 | 1.006 | 1.005 | 1.003 |  |  |  |  |  |  |  |  |

Source: WCIRB acident year experience calls

* 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 September 30, 2017

| Age in |  |  |  |  |  |  |  |  |  | cident Ye |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Months | $\underline{1999}$ | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | 2003 | 2004 | 2005 | $\underline{2006}$ | 2007 | 2008 | $\underline{2009}$ | $\underline{2010}$ | 2011 | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | $\underline{2016}$ | $\underline{2017}$ |
| 6/3 |  |  |  |  |  |  |  | 4.376 | 4.495 | 4.553 | 4.807 | 4.911 | 4.722 | 4.854 | 5.099 | 5.076 | 5.056 | 5.086 | 5.259 |
| 9/6 |  |  |  |  |  |  |  | 2.259 | 2.375 | 2.377 | 2.398 | 2.452 | 2.432 | 2.484 | 2.462 | 2.462 | 2.484 | 2.456 | 2.414 |
| 12/9 |  |  |  |  |  |  |  | 1.812 | 1.834 | 1.810 | 1.825 | 1.861 | 1.869 | 1.877 | 1.866 | 1.879 | 1.910 | 1.882 |  |
| 15/12 | 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 | 1.572 |  |
| 18/15 | 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 | 1.298 | 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 | 1.251 |  |
| 24/21 | 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 |  |  |
| 27/24 | 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 | 1.177 |  |  |
| 30/27 | 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 | 1.125 | 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 | 1.105 |  |  |
| 36/33 | 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 |  |  |  |
| 39/36 | 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 | 1.071 | 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 | 1.054 | 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 | 1.049 |  |  |  |
| 48/45 | 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 |  |  |  |  |
| 51/48 | 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 | 1.038 | 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 | 1.033 | 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 | 1.030 | 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 |  |  |  |  |  |
| 63/60 | 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 | 1.021 | 1.019 | 1.019 | 1.019 | 1.020 | 1.025 | 1.025 | 1.025 | 1.025 | 1.023 | 1.022 | 1.023 |  |  |  |  |  |
| 69/66 | 1.021 | 1.020 | 1.017 | 1.016 | 1.017 | 1.016 | 1.021 | 1.020 | 1.020 | 1.020 | 1.022 | 1.020 | 1.019 | 1.022 |  |  |  |  |  |
| 72/69 | 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 |  |  |  |  |  |  |
| 75/72 | 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 | 1.012 | 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 | 1.011 | 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 | 1.013 | 1.010 | 1.010 | 1.009 | 1.011 | 1.013 | 1.015 | 1.014 | 1.013 | 1.012 | 1.013 |  |  |  |  |  |  |  |
| 87/84 | 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 | 1.009 | 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 | 1.008 | 1.008 | 1.007 | 1.008 | 1.012 | 1.011 | 1.011 | 1.012 | 1.010 | 1.010 | 1.009 |  |  |  |  |  |  |  |
| 96/93 | 1.009 | 1.006 | 1.007 | 1.007 | 1.007 | 1.008 | 1.011 | 1.011 | 1.008 | 1.010 | 1.010 |  |  |  |  |  |  |  |  |

Source: WCIRB acident year experience calls

## Quarterly Paid Medical Loss Development Factors *

 Through September 30, 2017| Age in | Accident Year |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Months | 1999 | $\underline{2000}$ | 2001 | 2002 | $\underline{2003}$ | 2004 | 2005 | $\underline{2006}$ | 2007 | $\underline{2008}$ | $\underline{2009}$ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | $\underline{2017}$ |
| 6/3 |  |  |  |  |  |  |  | 5.308 | 5.615 | 6.579 | 6.101 | 6.048 | 5.854 | 5.989 | 6.284 | 5.604 | 5.720 | 5.897 | 5.421 |
| 9/6 |  |  |  |  |  |  |  | 2.348 | 2.381 | 2.348 | 2.375 | 2.361 | 2.327 | 2.398 | 2.498 | 2.428 | 2.287 | 2.326 | 2.216 |
| 12/9 |  |  |  |  |  |  |  | 1.716 | 1.765 | 1.731 | 1.723 | 1.756 | 1.746 | 1.763 | 1.736 | 1.750 | 1.705 | 1.752 |  |
| 15/12 | 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 | 1.267 | 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 | 1.168 | 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 | 1.124 | 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 |  |  |
| 27/24 | 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 | 1.088 | 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 | 1.072 | 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 | 1.066 | 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 |  |  |  |
| 39/36 | 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 | 1.049 | 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 | 1.045 | 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 | 1.039 | 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 |  |  |  |  |
| 51/48 | 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 | 1.036 | 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 | 1.030 | 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 | 1.028 | 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 |  |  |  |  |  |
| 63/60 | 1.025 | 1.022 | 1.019 | 1.019 | 1.020 | 1.024 | 1.024 | 1.024 | 1.024 | 1.027 | 1.027 | 1.026 | 1.026 | 1.025 |  |  |  |  |  |
| 66/63 | 1.021 | 1.020 | 1.020 | 1.018 | 1.021 | 1.023 | 1.024 | 1.026 | 1.026 | 1.029 | 1.029 | 1.024 | 1.027 | 1.024 |  |  |  |  |  |
| 69/66 | 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 | 1.018 | 1.016 | 1.017 | 1.018 | 1.016 | 1.021 | 1.021 | 1.022 | 1.022 | 1.023 | 1.021 | 1.020 | 1.019 |  |  |  |  |  |  |
| 75/72 | 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 | 1.015 | 1.014 | 1.015 | 1.016 | 1.015 | 1.016 | 1.018 | 1.017 | 1.022 | 1.019 | 1.018 | 1.017 | 1.016 |  |  |  |  |  |  |
| 81/78 | 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 | 1.012 | 1.013 | 1.012 | 1.012 | 1.013 | 1.016 | 1.016 | 1.015 | 1.018 | 1.015 | 1.015 | 1.015 |  |  |  |  |  |  |  |
| 87/84 | 1.011 | 1.010 | 1.012 | 1.012 | 1.012 | 1.014 | 1.013 | 1.015 | 1.017 | 1.013 | 1.013 | 1.012 |  |  |  |  |  |  |  |
| 90/87 | 1.012 | 1.011 | 1.013 | 1.012 | 1.013 | 1.015 | 1.013 | 1.015 | 1.013 | 1.013 | 1.012 | 1.012 |  |  |  |  |  |  |  |
| 93/90 | 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 | 1.008 | 1.010 | 1.010 | 1.009 | 1.013 | 1.015 | 1.016 | 1.011 | 1.012 | 1.010 |  |  |  |  |  |  |  |  |

Source: WCIRB acident year experience calls

* 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 |  |  |  |  |  |  |  | Development |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | 9-21 | 21-33 | 33-45 | 45-57 | 57-69 | 69-81 | 81-93 | 93-105 | 05-117 | 7-129 | 129-141 | 141-153 | 153-165 | 165-177 | 177-189 | 189-201 |
| 1992 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.000 |
| 1993 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.000 | 1.000 |
| 1994 |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.000 | 1.000 | 1.000 |
| 1995 |  |  |  |  |  |  |  |  |  |  |  |  | 1.001 | 1.000 | 1.001 | 1.000 |
| 1996 |  |  |  |  |  |  |  |  |  |  |  | 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 | 1.000 | 0.998 | 1.000 | 1.000 | 1.000 |
| 1999 |  |  |  |  |  |  |  |  | 1.000 | 1.000 | 1.000 | 0.996 | 1.000 | 1.000 | 1.000 | 1.000 |
| 2000 |  |  |  |  |  |  |  | 1.000 | 1.000 | 1.000 | 0.994 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 2001 |  |  |  |  |  |  | 0.999 | 0.999 | 1.000 | 0.997 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 2002 |  |  |  |  |  | 0.999 | 1.000 | 1.000 | 0.999 | 0.999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |  |
| 2003 |  |  |  |  | 0.999 | 0.998 | 0.999 | 0.998 | 0.999 | 0.999 | 1.000 | 1.000 | 1.000 | 1.000 |  |  |
| 2004 |  |  |  | 0.999 | 0.999 | 1.000 | 0.999 | 0.999 | 0.999 | 1.000 | 1.000 | 1.000 | 1.000 |  |  |  |
| 2005 |  |  | 1.001 | 1.000 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |  |  |  |  |
| 2006 |  | 1.008 | 1.006 | 1.002 | 1.000 | 1.000 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 |  |  |  |  |  |
| 2007 | 1.515 | 1.016 | 1.008 | 1.004 | 1.002 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 |  |  |  |  |  |  |
| 2008 | 1.518 | 1.029 | 1.012 | 1.006 | 1.003 | 1.002 | 1.001 | 1.001 | 1.001 |  |  |  |  |  |  |  |
| 2009 | 1.627 | 1.036 | 1.014 | 1.006 | 1.004 | 1.002 | 1.001 | 1.001 |  |  |  |  |  |  |  |  |
| 2010 | 1.684 | 1.041 | 1.014 | 1.007 | 1.003 | 1.002 | 0.999 |  |  |  |  |  |  |  |  |  |
| 2011 | 1.714 | 1.045 | 1.015 | 1.008 | 1.004 | 1.002 |  |  |  |  |  |  |  |  |  |  |
| 2012 | 1.726 | 1.048 | 1.015 | 1.007 | 1.004 |  |  |  |  |  |  |  |  |  |  |  |
| 2013 | 1.738 | 1.043 | 1.014 | 1.008 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2014 | 1.728 | 1.045 | 1.014 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 1.730 | 1.042 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 1.730 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | Latest |  |  |  |  |  |  |  |  |
|  | -to-Age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1.730 | 1.042 | 1.014 | 1.008 | 1.004 | 1.002 | 0.999 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
|  | -to-Ultim |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1.859 | 1.075 | 1.032 | 1.018 | 1.010 | 1.006 | 1.004 | 1.005 | 1.004 | 1.002 | 1.002 | 1.002 | 1.002 | 1.003 | 1.003 | 1.003 |

Notes
All figures in each accident year contain information from the same combination of insurers, all of whom submitted complete data for all evaluations for that accident year. Therefore, each accident year may contain a different mix of insurers (ranging from $61 \%$ to $100 \%$ of the total California workers' compensation insured market measured using 2016 earned premium levels).

Quarterly Reported Indemnity Claim Count Development Factors

| Accident | Development |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | 24-27 | 27-30 | 30-33 | 33-36 | 36-39 | 39-42 | 42-45 | 45-48 |
| 2008 | 2.551 | 1.655 | 1.337 | 1.094 | 1.025 | 1.015 | 1.011 | 1.009 | 1.007 | 1.004 | 1.003 | 1.003 | 1.002 | 1.003 | 1.002 |
| 2009 | 2.705 | 1.690 | 1.386 | 1.112 | 1.037 | 1.021 | 1.013 | 1.009 | 1.007 | 1.007 | 1.005 | 1.004 | 1.003 | 1.002 | 1.002 |
| 2010 | 2.721 | 1.714 | 1.410 | 1.129 | 1.039 | 1.022 | 1.016 | 1.011 | 1.008 | 1.005 | 1.005 | 1.003 | 1.004 | 1.003 | 1.001 |
| 2011 | 2.714 | 1.742 | 1.425 | 1.126 | 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 | 1.731 | 1.421 | 1.125 | 1.050 | 1.028 | 1.018 | 1.013 | 1.009 | 1.007 | 1.004 | 1.005 | 1.003 | 1.003 | 1.002 |
| 2013 | 2.831 | 1.742 | 1.423 | 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 | 2.792 | 1.726 | 1.424 | 1.132 | 1.046 | 1.025 | 1.017 | 1.012 | 1.010 | 1.005 | 1.004 | 1.004 | 1.004 | 1.002 |  |
| 2015 | 2.819 | 1.747 | 1.418 | 1.137 | 1.048 | 1.024 | 1.016 | 1.013 | 1.008 | 1.005 |  |  |  |  |  |
| 2016 | 2.731 | 1.720 | 1.413 | 1.140 | 1.046 | 1.027 |  |  |  |  |  |  |  |  |  |
| 2017 | 2.825 | 1.689 |  |  |  |  |  |  |  |  |  |  |  |  |  |

Reported Indemnity Claim Settlement Ratios

| Accident | Evaluated as of (in months): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | $\underline{9}$ | $\underline{21}$ | 33 | 45 | $\underline{57}$ | 69 | 81 | $\underline{93}$ | $\underline{105}$ | 117 | 129 | 141 | $\underline{153}$ | 165 | 177 | 189 | $\underline{201}$ |
| 1992 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 99.2\% |
| 1993 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 98.9\% | 99.0\% |
| 1994 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 98.5\% | 98.7\% | 98.8\% |
| 1995 |  |  |  |  |  |  |  |  |  |  |  |  |  | 98.0\% | 98.3\% | 98.5\% | 98.6\% |
| 1996 |  |  |  |  |  |  |  |  |  |  |  |  | 97.5\% | 97.9\% | 98.1\% | 98.3\% | 98.5\% |
| 1997 |  |  |  |  |  |  |  |  |  |  |  | 97.0\% | 97.4\% | 97.8\% | 98.0\% | 98.2\% | 98.4\% |
| 1998 |  |  |  |  |  |  |  |  |  |  | 95.9\% | 96.6\% | 97.0\% | 97.4\% | 97.7\% | 98.0\% | 98.2\% |
| 1999 |  |  |  |  |  |  |  |  |  | 94.8\% | 95.7\% | 96.3\% | 96.8\% | 97.1\% | 97.5\% | 97.9\% | 98.1\% |
| 2000 |  |  |  |  |  |  |  |  | 92.9\% | 94.2\% | 95.1\% | 95.8\% | 96.4\% | 97.0\% | 97.4\% | 97.7\% | 98.0\% |
| 2001 |  |  |  |  |  |  |  | 89.7\% | 91.7\% | 93.1\% | 94.1\% | 95.0\% | 95.8\% | 96.4\% | 96.8\% | 97.2\% | 97.6\% |
| 2002 |  |  |  |  |  |  | 87.2\% | 90.0\% | 91.8\% | 93.3\% | 94.4\% | 95.5\% | 96.2\% | 96.8\% | 97.3\% | 97.6\% |  |
| 2003 |  |  |  |  |  | 83.2\% | 87.2\% | 89.7\% | 91.7\% | 93.3\% | 94.8\% | 95.6\% | 96.2\% | 96.8\% | 97.4\% |  |  |
| 2004 |  |  |  |  | 78.5\% | 83.7\% | 87.0\% | 89.6\% | 91.6\% | 93.7\% | 94.9\% | 95.8\% | $96.5 \%$ | 97.1\% |  |  |  |
| 2005 |  |  |  | 71.9\% | 79.6\% | 84.1\% | 87.5\% | 90.0\% | 92.4\% | 94.0\% | 95.1\% | 96.1\% | 96.9\% |  |  |  |  |
| 2006 |  |  | 61.3\% | 72.5\% | 79.6\% | 84.3\% | 87.5\% | 90.6\% | 92.7\% | 94.1\% | 95.4\% | 96.3\% |  |  |  |  |  |
| 2007 |  | 45.4\% | 59.8\% | 71.1\% | 78.6\% | 83.3\% | 87.7\% | 90.8\% | 92.7\% | 94.4\% | 95.6\% |  |  |  |  |  |  |
| 2008 | 21.4\% | 44.7\% | 58.4\% | 69.7\% | 77.4\% | 83.7\% | 88.1\% | 90.9\% | 93.2\% | 94.8\% |  |  |  |  |  |  |  |
| 2009 | 21.2\% | 42.7\% | 56.7\% | 68.2\% | 77.2\% | 83.4\% | 87.8\% | 91.2\% | 93.4\% |  |  |  |  |  |  |  |  |
| 2010 | 21.3\% | 43.0\% | 57.4\% | 69.8\% | 78.9\% | 84.9\% | 89.3\% | 92.3\% |  |  |  |  |  |  |  |  |  |
| 2011 | 22.0\% | 43.5\% | 58.7\% | 71.4\% | 80.2\% | 86.0\% | 90.1\% |  |  |  |  |  |  |  |  |  |  |
| 2012 | 22.5\% | 44.1\% | 60.2\% | 72.9\% | $81.5 \%$ | 87.4\% |  |  |  |  |  |  |  |  |  |  |  |
| 2013 | 22.0\% | 44.4\% | 61.3\% | 74.5\% | 83.2\% |  |  |  |  |  |  |  |  |  |  |  |  |
| 2014 | 21.6\% | 45.1\% | 62.4\% | 75.6\% |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 22.3\% | 46.3\% | 64.8\% |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 22.9\% | 48.7\% |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2017 | 24.6\% |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Notes All figures in each accident year contain information from the same combination of insurers, all of whom submitted complete data for all evaluations for that accident year. Therefore, each accident year may contain a different mix of insurers (ranging from $61 \%$ to $100 \%$ of the total California workers' compensation insured market measured using 2016 earned premium levels).

Estimated Ultimate Indemnity Claim Settlement Ratios

| Accident | Evaluated as of (in months): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | $\underline{9}$ | $\underline{21}$ | 33 | 45 | $\underline{57}$ | $\underline{69}$ | 81 | 93 | 105 | 117 | $\underline{129}$ | 141 | 153 | 165 | 177 | 189 | 201 |
| 1992 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 99.1\% |
| 1993 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 98.8\% | 98.9\% |
| 1994 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 98.3\% | 98.5\% | 98.6\% |
| 1995 |  |  |  |  |  |  |  |  |  |  |  |  |  | 97.6\% | 97.9\% | 98.2\% | 98.4\% |
| 1996 |  |  |  |  |  |  |  |  |  |  |  |  | 97.2\% | 97.7\% | 97.9\% | 98.1\% | 98.3\% |
| 1997 |  |  |  |  |  |  |  |  |  |  |  | 96.8\% | 97.2\% | 97.6\% | 97.7\% | 97.9\% | 98.2\% |
| 1998 |  |  |  |  |  |  |  |  |  |  | 95.9\% | 96.5\% | 96.9\% | 97.1\% | 97.4\% | 97.7\% | 98.0\% |
| 1999 |  |  |  |  |  |  |  |  |  | 94.9\% | 95.8\% | 96.4\% | 96.5\% | 96.9\% | 97.3\% | 97.6\% | 97.8\% |
| 2000 |  |  |  |  |  |  |  |  | 93.2\% | 94.5\% | 95.5\% | 95.5\% | 96.1\% | 96.7\% | 97.1\% | 97.5\% | 97.8\% |
| 2001 |  |  |  |  |  |  |  | 89.8\% | 91.7\% | 93.1\% | 93.9\% | 94.7\% | 95.6\% | 96.1\% | 96.6\% | 97.0\% | 97.4\% |
| 2002 |  |  |  |  |  |  | 87.3\% | 90.0\% | 91.9\% | 93.2\% | 94.2\% | 95.3\% | 96.0\% | 96.5\% | 97.0\% | 97.4\% |  |
| 2003 |  |  |  |  |  | 83.5\% | 87.4\% | 89.8\% | 91.7\% | 93.1\% | 94.6\% | 95.4\% | 96.0\% | 96.6\% | 97.1\% |  |  |
| 2004 |  |  |  |  | 78.7\% | 83.9\% | 87.1\% | 89.6\% | 91.6\% | 93.5\% | 94.8\% | 95.6\% | 96.3\% | 96.9\% |  |  |  |
| 2005 |  |  |  | 71.7\% | 79.4\% | 84.0\% | 87.4\% | 89.8\% | 92.2\% | 93.8\% | 95.0\% | 95.9\% | 96.7\% |  |  |  |  |
| 2006 |  |  | 60.6\% | 72.2\% | 79.3\% | 84.1\% | 87.2\% | 90.4\% | 92.5\% | 93.9\% | 95.2\% | 96.1\% |  |  |  |  |  |
| 2007 |  | 43.9\% | 58.7\% | 70.4\% | 78.1\% | 82.9\% | 87.4\% | 90.5\% | 92.5\% | 94.2\% | 95.5\% |  |  |  |  |  |  |
| 2008 | 13.3\% | 42.2\% | 56.8\% | 68.5\% | 76.6\% | 83.0\% | 87.6\% | 90.5\% | 92.9\% | 94.6\% |  |  |  |  |  |  |  |
| 2009 | 12.2\% | 40.0\% | 55.0\% | 67.0\% | 76.3\% | 82.8\% | 87.3\% | 90.8\% | 93.0\% |  |  |  |  |  |  |  |  |
| 2010 | 11.8\% | 40.1\% | 55.6\% | 68.7\% | 78.2\% | 84.4\% | 89.0\% | 91.9\% |  |  |  |  |  |  |  |  |  |
| 2011 | 11.9\% | 40.3\% | 56.8\% | 70.2\% | 79.4\% | 85.5\% | 89.8\% |  |  |  |  |  |  |  |  |  |  |
| 2012 | 12.0\% | 40.7\% | 58.3\% | 71.7\% | 80.7\% | 86.9\% |  |  |  |  |  |  |  |  |  |  |  |
| 2013 | 11.7\% | 41.3\% | 59.4\% | 73.2\% | 82.4\% |  |  |  |  |  |  |  |  |  |  |  |  |
| 2014 | 11.6\% | 41.9\% | 60.5\% | 74.3\% |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2015 | 12.0\% | 43.1\% | 62.8\% |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2016 | 12.3\% | 45.4\% |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2017 | 13.2\% |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Notes All figures in each accident year contain information from the same combination of insurers, all of whom submitted complete data for all evaluations for that accident year. Therefore, each accident year may contain a different mix of insurers (ranging from $61 \%$ to $100 \%$ of the total California workers' compensation insured market measured using 2016 earned premium levels).

## Quarterly Ultimate Settlement Ratios

| Accident | Evaluated as of (in months): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | 3 | $\underline{6}$ | 9 | 12 | 15 | 18 | $\underline{21}$ | $\underline{24}$ | $\underline{27}$ | 30 | 33 | 36 | 39 | 42 | 45 | 48 |
| 2008 | 0.8\% | 5.4\% | 13.2\% | 22.8\% | 31.4\% | 37.7\% | 42.0\% | 45.8\% | 49.4\% | 53.1\% | 56.6\% | 60.1\% | 63.0\% | 65.7\% | 68.3\% | 70.7\% |
| 2009 | 0.7\% | 4.6\% | 12.1\% | 21.1\% | 29.4\% | 35.4\% | 39.8\% | 43.8\% | 47.4\% | 51.1\% | 54.8\% | 58.3\% | 61.3\% | 64.4\% | 66.9\% | 69.4\% |
| 2010 | 0.6\% | 4.6\% | 11.6\% | 20.7\% | 29.5\% | 35.5\% | 39.8\% | 44.1\% | 47.9\% | 51.8\% | 55.3\% | 58.8\% | 62.0\% | 65.4\% | 68.4\% | 71.3\% |
| 2011 | 0.8\% | 5.0\% | 11.9\% | 21.2\% | 29.6\% | 35.7\% | 40.2\% | 44.6\% | 48.5\% | 52.8\% | 56.7\% | 60.6\% | 63.9\% | 67.0\% | 70.0\% | 72.7\% |
| 2012 | 0.8\% | 5.0\% | 12.0\% | 21.1\% | 29.4\% | 35.8\% | 40.6\% | 45.4\% | 49.6\% | 53.9\% | 58.1\% | 62.0\% | 65.4\% | 68.6\% | 71.5\% | 74.1\% |
| 2013 | 0.9\% | 5.0\% | 11.7\% | 20.8\% | 29.1\% | 35.7\% | 41.1\% | 46.1\% | 50.7\% | 55.2\% | 59.3\% | 63.2\% | 66.7\% | 70.1\% | 73.0\% | 75.7\% |
| 2014 | 0.7\% | 4.7\% | 11.6\% | 20.6\% | 29.3\% | 36.1\% | 41.8\% | 46.9\% | 51.6\% | 56.1\% | 60.4\% | 64.4\% | 67.7\% | 71.2\% | 74.1\% |  |
| 2015 | 0.8\% | 4.7\% | 11.9\% | 20.9\% | 30.0\% | 37.3\% | 43.0\% | 48.2\% | 53.3\% | 58.3\% | 62.6\% |  |  |  |  |  |
| 2016 | 0.8\% | 5.1\% | 12.3\% | 21.9\% | 31.5\% | 39.3\% | 45.2\% |  |  |  |  |  |  |  |  |  |
| 2017 | 0.8\% | 5.5\% | 13.2\% |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Accident | Quarterly Incremental Change |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Year | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | 24-27 | 27-30 | 30-33 | 33-36 | 36-39 | 39-42 | 42-45 | 45-48 |  |
| 2008 | 4.6\% | 7.7\% | 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 | 3.9\% | 7.5\% | 9.0\% | 8.3\% | 6.0\% | 4.4\% | 4.0\% | 3.6\% | 3.7\% | 3.7\% | 3.5\% | 3.0\% | 3.0\% | 2.5\% | 2.5\% |  |
| 2010 | 4.0\% | 7.0\% | 9.1\% | 8.7\% | 6.0\% | 4.4\% | 4.3\% | 3.8\% | 3.9\% | 3.5\% | 3.5\% | 3.2\% | 3.4\% | 3.0\% | 2.9\% |  |
| 2011 | 4.2\% | 6.8\% | 9.3\% | 8.4\% | 6.1\% | 4.5\% | 4.3\% | 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\% | 6.4\% | 4.8\% | 4.9\% | 4.1\% | 4.3\% | 4.2\% | 3.9\% | 3.4\% | 3.2\% | 2.9\% | 2.7\% |  |
| 2013 | 4.1\% | 6.7\% | 9.0\% | 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\% | 8.7\% | 6.8\% | 5.7\% | 5.1\% | 4.8\% | 4.5\% | 4.3\% | 4.0\% | 3.3\% | 3.5\% | 2.9\% |  |  |
| 2015 | 3.9\% | 7.2\% | 8.9\% | 9.2\% | 7.3\% | 5.6\% | 5.3\% | 5.0\% | 5.0\% | 4.3\% |  |  |  |  |  |  |
| 2016 | 4.2\% | 7.2\% | 9.6\% | 9.7\% | 7.8\% | 5.9\% |  |  |  |  |  |  |  |  |  |  |
| 2017 | 4.7\% | 7.7\% |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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


${ }^{[1]}$ The 2014-2015 estimate is based on partial year unit statistical data. The 2015-2016 and 2016-2017 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.

## Item AC17-12-02 <br> Legislative Cost Monitoring

At the November 8, 2016 meeting, the Committee reviewed information on emerging post-Senate Bill No. 863 (SB 863) costs based on the most current data available. ${ }^{1}$ At the meeting, the Committee noted areas related to permanent disability (PD) costs that emerge later in the life of a claim and fee schedules that had not yet been fully implemented warrant further monitoring.

In September of 2016, the Governor signed Senate Bill No. 1160 (SB 1160) and Assembly Bill No. 1244 (AB 1244) into law. SB 1160 and AB 1244 include a number of provisions related to liens. (SB 1160 also includes a number of provisions related to utilization review which become effective on January 1, 2018 injuries.) The WCIRB's prospective evaluation of SB 1160 and AB 1244 was included in the Amended January 1, 2017 Pure Premium Rate Filing.

Staff's follow-up analysis to several provisions of SB 863 and initial retrospective analysis of the lien reforms of SB 1160 and AB 1244 are summarized below.

## SB 863 Provisions

SB 863 increased minimum and maximum weekly PD benefits for 2013 and 2014 injuries and made a number of changes to the manner in which PD ratings are computed, including eliminating the factor for future earning capacity and as a result effectively eliminating the impact of the Ogilvie decision, adding a 1.4 adjustment factor to each impairment in the PD rating, and eliminating add-ons for psychiatric impairment, sleep disorder, and sexual dysfunction from increasing PD ratings. Prior WCIRB SB 863 cost monitoring reports have noted that emerging information on PD ratings suggest that PD costs are emerging generally consistent with prospective estimates. However, the reports have also noted that PD benefits are generally paid later in the life of a claim and it often take a number of years before the final PD rating on a claim is determined.

Exhibit 1.1 shows average PD ratings based on WCIRB unit statistical data. Early estimates of average PD ratings following SB 863 continue to follow a downward trend. Exhibit 1.2 shows distributions of PD ratings by PD interval as well as the proportion of indemnity claims involving PD. There has been a gradual shift from mid-range PD ratings to lower ratings over the last few years while there has not been a significant change in the proportion of indemnity claims involving PD. However, these shifts have been occurring long before the implementation of SB 863. Given the downward trend in PD ratings shown in unit statistical data, which often reflects claims adjuster estimates of the final PD rating, staff plans to review updated information on final PD ratings issued by the Disability Evaluation Unit (DEU) during 2018. Prior estimates of post-SB 863 ratings from the DEU data, as noted in prior SB 863 cost monitoring reports, have shown increases in the average PD rating comparable to those prospectively estimated by the WCIRB.

Exhibits 2.1 through 2.3 show treatment patterns for psychiatric impairments, sleep disorder, and sexual dysfunction based on WCIRB Medical Data Call (MDC) data. As shown in Exhibits 2.2 and 2.3, the proportion of claims receiving treatment for sleep disorder or sexual dysfunction has been very low, which is consistent with prior information reviewed on PD add-ons for these impairments. Although SB 863 only eliminated psychiatric add-ons to PD ratings and continued to allow treatment for psychiatric impairments, as shown in Exhibit 2.1, average psychiatric payment costs per claim with physician services decreased significantly in 2013 and 2014, driven by a sharp drop in the proportion of physician services claims receiving psychiatric services. Some of this decrease may also be related to the changes to the physician fee schedule effective beginning in 2014 and savings in reduced medical utilization resulting from other

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provisions of SB 863. Nevertheless, given this information and information on PD add-ons reviewed in prior cost monitoring reports, staff believes the estimated savings for the provisions of SB 863 eliminating the PD add-ons reflected in prior evaluations of SB 863 continue to be appropriate.

SB 863 made changes to the supplemental job displacement benefit (SJDB) to set it at a maximum of $\$ 6,000$ for all eligible claims and modified the basis upon which the SJDB is paid and the types of expenses that are reimbursed. Payments under the $\$ 120$ million return-to-work fund established by SB 863 and administered by the Division of Workers' Compensation (DWC) is also triggered by the reception of a SJDB. In the WCIRB's 2016 SB 863 Cost Monitoring Report, it was noted that the most current information available showed increases in SJDB costs subsequent to the implementation of SB 863, resulting in an approximate $0.1 \%$ increase in total system costs. Exhibit 3 shows updated information on SJDB costs including calendar year SJDB payments based on WCIRB aggregate financial data calls and SJDB utilization and average cost per SJDB based on WCIRB PD Claim Survey data. Utilization of the SDJB continues to increase with the most recent information showing approximately double the increase noted in the 2016 SB 863 Cost Monitoring Report. However, SDJB costs remain a relatively small proportion of total indemnity benefits paid.

The independent medical review (IMR) process was one of the cornerstone reforms of SB 863. Although the number of IMR filings have been significantly greater than initially projected, the IMR process has been a significant driver of the reductions in average medical severities resulting from SB 863 . Exhibit 4 shows updated counts of IMR filings based on information provided by the DWC. The number of IMR filings have remained relatively consistent through 2017.

The 2016 SB 863 Cost Monitoring Report noted that the prospectively estimated reductions in the duration of temporary disability (TD) resulting from the IMR process had not materialized. Exhibit 5 shows updated information on TD duration based on WCIRB PD Claim Survey data. The most recent survey data shows average and median TD duration generally consistent with or higher than that of the prior year, which continues to suggest that significant savings to TD duration resulting from SB 863 have not materialized.

SB 863 provided for changes to the physician fee schedule to be based on the Medicare Resource-Based Relative Value Scale (RBRVS). The new fee schedule became effective beginning in 2014 and was to be phased in over a four-year period. The 2016 SB 863 Cost Monitoring Report included the estimated impact of the first three years of the phase-in based on WCIRB MDC data through the second quarter of 2016, which indicated significant savings in physician costs had emerged subsequent to the implementation of the new fee schedule. Exhibits 6.1 through 6.4 show updated information on physician costs based on WCIRB MDC data through the second quarter of 2017. As shown in Exhibits 6.1 and 6.2 for the 2014 and 2015 service years (the first two years of the phase-in), total physician costs per claim continue to show decreases generally consistent with prior estimates reviewed by the Committee. However, as shown in Exhibits 6.3 and 6.4, average physician costs for the 2016 and 2017 service years (the final two years of the phase-in) increased generally consistent with the WCIRB's prospective estimates for those years. The changes in physician cost trends from the first two years of the phase-in are generally attributable to reductions in the utilization of physician services, particularly for special services and reports, being more one-time in nature and not continuing into more recent years.

## SB 1160 and $A B 1244$ Provisions

SB 1160 provided for a number of provisions related to liens. First, all liens filed on or after January 1, 2017 are required to include a declaration under penalty of perjury that the lien is not subject to IMR or independent bill review and that it satisfies one of several criteria. Second, liens must be filed by the original service provider and can no longer be assigned to a third party unless the original provider has ceased doing business and assigned all rights to the third party. Finally, liens from providers indicted for fraud are stayed until the disposition of the criminal proceedings. AB 1244 provides for a special process to consolidate liens from providers convicted of fraud. The WCIRB's prospective estimate of the impact of

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WCIRB California ${ }^{\circledR}$
these provisions on costs was included in the Amended January 1, 2017 Pure Premium Rate Filing as well as the July 1, 2017 and January 1, 2018 Pure Premium Rate Filings. The WCIRB assumed a 10\% reduction in lien filings resulting from these provisions which would result in a $0.6 \%$ decrease in total costs. ${ }^{2}$

Lien filings from the first three quarters of 2017 are available from the DWC. Exhibit 7.1 shows lien filings by quarter. As discussed at prior meetings, given SB 863 's dual statutes of limitations on lien filings in effect through June 30, 2016 and the enactment of SB 1160 and AB 1244 on September 30, 2016, lien filings in third quarter of 2016 may be the only quarter representative of the post-SB 863 and pre-SB 1160 level. After an increase in lien filings in the fourth quarter of 2016 shortly before the new legislation became effective, lien filings decreased sharply in 2017. Some of this decrease may be resulting from lines filed in the fourth quarter of 2016 prior to the effective date of SB 1160 which would have otherwise been filed in early 2017. Exhibit 7.2 shows recent lien filings by month which shows that, with the exception of some lower filings in January and February, lien filing activity has been relatively consistent in 2017. Average quarterly lien filings through the first three quarters of 2017 are approximately $40 \%$ lower than the third quarter of 2016 level.

SB 1160 also provides that all outstanding liens must have a declaration under penalty of perjury filed by July 1, 2017 or be dismissed by operation of law. In August of 2017, the DWC advised that approximately 292,000 liens had been dismissed and posted the list of dismissed liens on their website. These lien dismissals could potentially significantly impact losses and loss adjustment expenses for older accident years as well as claim development and settlement patterns. As shown in Exhibit 8, over 20\% of medical services payments in the fifth through eighth development years are for medical liens. However, some of these dismissed liens may have been settled prior to the due date of the lien declaration and others may have already incurred significant loss adjustment expenses in defending against the lien prior to the dismissal.

Staff has begun linking the dismissed lien data to other data sources to analyze the potential impact on older accident years. Over $90 \%$ of the liens were linked back to the original DWC lien filing information based on the provider name and date of lien filing. Exhibit 9 summarizes information on the dismissed liens including distributions by accident year, year of lien filing, type of lien, and region and also includes the average lien demand amount based on the DWC data. ${ }^{3}$ Almost all the dismissed liens were for medical services, over $90 \%$ were from the Los Angeles Basin area, and $60 \%$ were on claims that occurred between 2010 and 2013. The demand amounts from the dismissed liens were larger on liens from older accident years, but on average were $25 \%$ less than demand amounts on other non-dismissed liens from similarly aged claims.

Staff has been able to link a portion of the DWC lien filings to unit statistical claim data as well as MDC transactions. The data was first linked to MDC data using the provider name and accident date. Claims were excluded if the provider had services on more than one claim with that accident date. The policy and claim information from MDC was then linked back to unit statistical data. Approximately 3,100 claims were matched to the recently dismissed liens and 8,600 claims were matched to other liens. Staff is in the process of refining this logic to achieve better matching results. A preliminary summary of the information from the matched claims with dismissed or non-dismissed liens is shown in Exhibit 10. The two sets of claims show fairly similar profiles and average costs, with the vast majority being permanent partial disability claims and a significant proportion being cumulative injury claims.

Payments for medical liens are captured in the WCIRB's MDC data. Using provider and accident date information, approximately 1,000 "dismissed" liens and 2,800 non-dismissed liens were linked to medical

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services in MDC to the original DWC lien filing information. These results are limited by the availability of the information used for matching, and staff is in the process of refining this logic to achieve better matching results. Nonetheless, the 1,000 "dismissed" liens with MDC payments indicates that at least some of the liens on the DWC's dismissed list were settled prior to the due date of the declaration and, as a result, no declaration was needed. Based approximately on the matching rates for the MDC transactions and unit statistical claims, anywhere from $25 \%$ to $40 \%$ of the dismissed liens may have been settled. A preliminary summary of the information from the matched liens is shown in Exhibit 11. The average lien demand amount from DWC data is somewhat higher than the MDC billed amount but the payment rate of $25 \%$ of the billed amount is consistent with prior studies of lien payment information.

## Average Permanent Disability Rating (PDR)

| AccidentYear | Report Level |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | $\underline{2}$ | $\underline{3}$ | 4 | $\underline{5}$ | 6 | 7 | 8 | $\underline{9}$ | 10 |
| 1999 | 17.5 | 22.0 | 24.3 | 25.6 | 26.0 |  |  |  |  |  |
| 2000 | 20.5 | 23.1 | 25.1 | 26.2 | 26.5 |  |  |  |  |  |
| 2001 | 20.3 | 23.5 | 26.2 | 27.0 | 27.2 | 27.6 | 27.5 | 27.2 |  |  |
| 2002 | 18.8 | 23.6 | 25.4 | 26.0 | 26.1 | 26.1 | 25.8 | 25.9 |  |  |
| 2003 | 19.1 | 22.8 | 24.2 | 24.5 | 24.1 | 23.8 | 23.9 | 24.0 | 23.8 | 23.9 |
| 2004 | 18.5 | 20.2 | 21.1 | 20.3 | 20.0 | 20.1 | 20.3 | 20.5 | 20.5 | 20.5 |
| 2005 | 13.0 | 15.1 | 15.9 | 16.4 | 16.8 | 17.3 | 17.4 | 17.6 | 17.5 | 17.6 |
| 2006 | 12.0 | 14.3 | 15.7 | 16.5 | 17.2 | 17.6 | 17.7 | 17.7 | 17.7 | 17.8 |
| 2007 | 11.9 | 14.5 | 16.2 | 17.2 | 17.8 | 18.1 | 18.0 | 18.1 | 18.2 | 17.9 |
| 2008 | 11.9 | 14.8 | 16.8 | 17.8 | 18.1 | 18.0 | 18.2 | 18.4 | 18.5 |  |
| 2009 | 12.4 | 15.2 | 16.9 | 17.7 | 17.5 | 17.8 | 18.0 | 18.2 |  |  |
| 2010 | 12.6 | 15.1 | 16.3 | 16.5 | 16.9 | 17.3 | 17.6 |  |  |  |
| 2011 | 12.7 | 14.6 | 15.2 | 15.8 | 16.4 | 16.7 |  |  |  |  |
| 2012 | 12.1 | 13.6 | 14.6 | 15.4 | 16.3 |  |  |  |  |  |
| 2013 | 11.3 | 12.9 | 14.0 | 14.4 |  |  |  |  |  |  |
| 2014 | 11.0 | 12.5 | 13.6 |  |  |  |  |  |  |  |
| 2015 | 10.4 | 11.9 |  |  |  |  |  |  |  |  |
| 2016 | 9.7 |  |  |  |  |  |  |  |  |  |

Source: WCIRB unit statistical data. Data in italics is preliminary.

## Distribution of Permanent Disability Ratings

| Report Level 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Accident Year |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PDR Interval | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | $\underline{2009}$ | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | $\underline{2016}$ |
| 1-4 | 9.3\% | 9.5\% | 8.8\% | 10.3\% | 18.8\% | 21.7\% | 21.3\% | 19.9\% | 17.4\% | 15.3\% | 15.4\% | 16.0\% | 17.9\% | 20.3\% | 22.9\% | 25.0\% |
| 5-9 | 13.4\% | 14.7\% | 14.3\% | 15.4\% | 25.1\% | 29.3\% | 30.2\% | 29.7\% | 29.8\% | 32.3\% | 31.0\% | 31.6\% | 32.1\% | 32.0\% | 32.8\% | 33.0\% |
| 10-14 | 18.1\% | 18.6\% | 19.0\% | 20.0\% | 22.6\% | 19.6\% | 18.8\% | 19.5\% | 19.0\% | 18.5\% | 19.0\% | 19.3\% | 20.6\% | 19.9\% | 19.6\% | 19.9\% |
| 15-19 | 15.6\% | 17.3\% | 16.8\% | 15.0\% | 13.5\% | 12.5\% | 13.1\% | 14.5\% | 15.7\% | 15.5\% | 16.0\% | 16.6\% | 15.7\% | 14.8\% | 13.0\% | 12.2\% |
| 20-24 | 12.7\% | 12.5\% | 13.6\% | 13.4\% | 7.9\% | 6.5\% | 6.2\% | 6.9\% | 7.7\% | 7.3\% | 7.2\% | 6.9\% | 6.1\% | 6.0\% | 5.0\% | 4.5\% |
| 25-34 | 15.7\% | 15.3\% | 15.3\% | 14.5\% | 7.3\% | 6.1\% | 5.8\% | 5.5\% | 5.9\% | 6.1\% | 6.6\% | 5.7\% | 4.6\% | 4.3\% | 4.2\% | 3.3\% |
| 35-49 | 9.5\% | 8.4\% | 8.4\% | 7.8\% | 3.1\% | 2.7\% | 2.9\% | 2.7\% | 3.0\% | 3.3\% | 3.1\% | 2.6\% | 2.0\% | 1.8\% | 1.6\% | 1.5\% |
| 50-69 | 4.3\% | 3.2\% | 3.1\% | 2.8\% | 1.2\% | 1.2\% | 1.3\% | 1.0\% | 1.1\% | 1.3\% | 1.4\% | 1.0\% | 0.8\% | 0.7\% | 0.7\% | 0.5\% |
| 70-99 | 1.4\% | 0.6\% | 0.8\% | 0.8\% | 0.4\% | 0.5\% | 0.3\% | 0.3\% | 0.3\% | 0.4\% | 0.3\% | 0.3\% | 0.2\% | 0.2\% | 0.2\% | 0.1\% |
| PD \% of All |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Indemnity | 52.7\% | 50.9\% | 47.7\% | 44.4\% | 37.8\% | 35.8\% | 34.9\% | 36.2\% | 35.9\% | 35.9\% | 36.1\% | 35.6\% | 33.0\% | 33.9\% | 35.3\% | 34.4\% |

Report Level 2

|  | Accident Year |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PDR Interval | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| 1-4 | 9.0\% | 8.4\% | 9.3\% | 11.3\% | 17.9\% | 19.1\% | 17.4\% | 16.5\% | 14.8\% | 13.5\% | 14.0\% | 15.5\% | 17.7\% | 19.5\% | 21.2\% |
| 5-9 | 11.4\% | 11.7\% | 11.6\% | 14.1\% | 22.8\% | 25.0\% | 24.5\% | 24.4\% | 25.0\% | 27.6\% | 26.6\% | 26.9\% | 26.8\% | 27.4\% | 29.0\% |
| 10-14 | 13.6\% | 13.6\% | 14.3\% | 16.9\% | 18.9\% | 18.2\% | 18.2\% | 18.1\% | 17.8\% | 17.0\% | 17.7\% | 18.3\% | 19.4\% | 19.0\% | 19.1\% |
| 15-19 | 13.5\% | 13.3\% | 13.5\% | 13.6\% | 13.4\% | 13.6\% | 15.1\% | 15.5\% | 15.9\% | 15.9\% | 17.0\% | 18.1\% | 17.0\% | 15.8\% | 14.4\% |
| 20-24 | 11.5\% | 12.3\% | 12.8\% | 13.1\% | 8.5\% | 8.0\% | 8.3\% | 8.8\% | 8.9\% | 8.4\% | 8.5\% | 8.1\% | 7.5\% | 7.1\% | 6.3\% |
| 25-34 | 18.5\% | 18.1\% | 17.8\% | 15.6\% | 10.1\% | 8.3\% | 8.9\% | 8.8\% | 9.0\% | 9.0\% | 8.8\% | 7.5\% | 6.8\% | 6.6\% | 5.9\% |
| 35-49 | 13.5\% | 14.0\% | 12.9\% | 9.8\% | 5.3\% | 4.7\% | 4.9\% | 5.1\% | 5.5\% | 5.5\% | 4.7\% | 3.6\% | 3.3\% | 3.1\% | 2.7\% |
| 50-69 | 7.0\% | 6.8\% | 6.1\% | 4.3\% | 2.4\% | 2.3\% | 2.1\% | 2.1\% | 2.5\% | 2.5\% | 2.1\% | 1.5\% | 1.2\% | 1.1\% | 1.0\% |
| 70-99 | 2.0\% | 1.8\% | 1.6\% | 1.3\% | 0.8\% | 0.7\% | 0.6\% | 0.7\% | 0.7\% | 0.7\% | 0.6\% | 0.5\% | 0.4\% | 0.3\% | 0.4\% |
| PD \% of All |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Indemnity | 55.1\% | 54.6\% | 53.5\% | 48.4\% | 42.7\% | 41.8\% | 43.1\% | 44.3\% | 44.2\% | 44.4\% | 43.9\% | 42.7\% | 41.9\% | 42.8\% | 43.7\% |

Report Level 3

|  |  | Accident Year |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PDR Interval | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | $\underline{2009}$ | 2010 | 2011 | 2012 | $\underline{2013}$ | 2014 |
| 1-4 | 8.2\% | 8.7\% | 9.4\% | 11.7\% | 17.2\% | 16.8\% | 16.0\% | 15.2\% | 14.0\% | 13.0\% | 14.6\% | 16.3\% | 17.7\% | 18.9\% |
| 5-9 | 10.3\% | 10.7\% | 10.7\% | 14.1\% | 21.7\% | 22.6\% | 22.0\% | 21.7\% | 22.7\% | 25.4\% | 24.2\% | 23.2\% | 24.4\% | 25.3\% |
| 10-14 | 11.7\% | 11.6\% | 13.0\% | 15.3\% | 17.6\% | 17.6\% | 17.1\% | 16.8\% | 16.6\% | 16.2\% | 16.9\% | 17.6\% | 18.3\% | 18.2\% |
| 15-19 | 11.6\% | 11.7\% | 12.5\% | 13.2\% | 13.9\% | 14.5\% | 15.0\% | 15.1\% | 15.2\% | 15.8\% | 17.5\% | 18.2\% | 16.8\% | 15.6\% |
| 20-24 | 11.1\% | 11.7\% | 12.2\% | 11.1\% | 8.8\% | 9.1\% | 8.9\% | 9.1\% | 9.3\% | 8.8\% | 9.1\% | 8.6\% | 7.9\% | 7.7\% |
| 25-34 | 18.7\% | 18.5\% | 18.3\% | 16.6\% | 11.0\% | 10.0\% | 10.7\% | 10.7\% | 10.7\% | 10.1\% | 9.8\% | 9.0\% | 8.5\% | 8.5\% |
| 35-49 | 16.0\% | 16.0\% | 14.4\% | 11.0\% | 6.0\% | 5.9\% | 6.4\% | 6.9\% | 7.0\% | 6.5\% | 5.0\% | 4.4\% | 4.4\% | 4.0\% |
| 50-69 | 9.3\% | 8.5\% | 7.2\% | 5.3\% | 2.8\% | 2.7\% | 2.9\% | 3.4\% | 3.4\% | 3.2\% | 2.3\% | 1.9\% | 1.6\% | 1.6\% |
| 70-99 | 3.2\% | 2.4\% | 2.2\% | 1.6\% | 0.9\% | 0.8\% | 0.9\% | 1.0\% | 1.1\% | 1.0\% | 0.6\% | 0.6\% | 0.5\% | 0.4\% |

PD \% of All

Report Level 4

|  |  |  | Accident Year |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PDR Interval | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
| 1-4 | 8.4\% | 8.7\% | 9.4\% | 12.1\% | 16.4\% | 16.1\% | 15.6\% | 14.8\% | 13.8\% | 13.9\% | $15.4 \%$ | 16.4\% | 18.3\% |
| 5-9 | 9.9\% | 10.2\% | 10.5\% | 15.6\% | 20.9\% | 21.7\% | 20.9\% | 20.9\% | 21.5\% | 23.6\% | 22.3\% | 22.1\% | 23.9\% |
| 10-14 | 10.9\% | 11.2\% | 12.6\% | 15.8\% | 17.4\% | 17.1\% | 16.4\% | 16.0\% | 16.1\% | 16.1\% | 16.3\% | 16.9\% | 18.0\% |
| 15-19 | 10.8\% | 11.4\% | 12.5\% | 13.7\% | 14.5\% | 14.4\% | 14.5\% | 14.5\% | 15.2\% | 16.2\% | 17.4\% | 17.7\% | 15.6\% |
| 24 | 10.8\% | 11.5\% | 11.7\% | 10.7\% | 9.2\% | 9.1\% | 9.0\% | 9.2\% | 9.3\% | 9.1\% | 9.1\% | 8.5\% | 8.2\% |
| 34 | 18.8\% | 18.7\% | 18.9\% | 15.7\% | 11.3\% | 10.8\% | 11.4\% | 11.4\% | 11.2\% | 10.4\% | 10.3\% | 9.8\% | 8.8\% |
| 35-49 | 16.9\% | 16.6\% | 14.6\% | 10.3\% | 6.4\% | 6.7\% | 7.1\% | 7.8\% | 7.7\% | 6.5\% | 5.7\% | 5.2\% | 5.2\% |
| 50-69 | 10.0\% | 9.0\% | 7.4\% | 4.8\% | 2.9\% | 3.1\% | 3.8\% | 4.1\% | 4.0\% | 3.3\% | 2.7\% | 2.5\% | 1.9\% |
| 70-99 | 3.4\% | 2.7\% | 2.4\% | 1.4 | 0.9 | 1.0 | .1 | 1.3 | 1.3 | 0.9 | 0.7 | 0.7 | 0.4\% |

PD \% of All


Cumulative Percentage of Physician Services Claims with Psych Payments

| Accident | Service Quarter (Delay from Accident Quarter) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Quarter | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2012Q3 | 2.5\% | 4.1\% | 4.8\% | 5.2\% | 5.6\% | 5.9\% | 6.1\% | 6.3\% | 6.5\% | 6.6\% | 6.7\% | 6.8\% | 6.9\% |
| 201204 | 2.5\% | 4.0\% | 4.7\% | 5.1\% | 5.4\% | 5.7\% | 5.8\% | 6.0\% | 6.1\% | 6.3\% | 6.4\% | 6.5\% | 6.6\% |
| 2013Q1 | 2.8\% | 4.3\% | 4.9\% | 5.4\% | 5.6\% | 5.8\% | 6.0\% | 6.1\% | 6.2\% | 6.3\% | 6.4\% | 6.5\% | 6.5\% |
| $2013 Q 2$ | 2.4\% | 3.8\% | 4.3\% | 4.6\% | 4.8\% | 5.0\% | 5.2\% | 5.4\% | 5.5\% | 5.7\% | 5.8\% | 5.8\% | 5.9\% |
| 2013Q3 | 2.2\% | 3.4\% | 3.8\% | 4.0\% | 4.2\% | 4.4\% | 4.6\% | 4.7\% | 4.9\% | 5.0\% | 5.1\% | 5.1\% | 5.2\% |
| 2013 Q4 | 2.0\% | 2.4\% | 2.6\% | 2.9\% | 3.1\% | 3.4\% | 3.6\% | 3.7\% | 3.9\% | 4.0\% | 4.0\% | 4.1\% | 4.2\% |
| 2014Q1 | 0.6\% | 1.2\% | 1.5\% | 1.8\% | 2.1\% | 2.3\% | 2.5\% | 2.7\% | 2.8\% | 3.0\% | 3.1\% | 3.1\% |  |
| 2014Q2 | 0.6\% | 1.1\% | 1.4\% | 1.7\% | 2.0\% | 2.2\% | 2.4\% | 2.5\% | 2.7\% | 2.8\% | 2.8\% |  |  |
| 2014Q3 | 0.5\% | 1.0\% | 1.4\% | 1.7\% | 1.9\% | 2.1\% | 2.3\% | 2.4\% | 2.6\% | 2.7\% |  |  |  |
| 2014Q4 | 0.4\% | 0.9\% | 1.3\% | 1.6\% | 1.8\% | 2.0\% | 2.2\% | 2.3\% | 2.4\% |  |  |  |  |
| 2015 Q1 | 0.4\% | 0.9\% | 1.2\% | 1.5\% | 1.7\% | 1.9\% | 2.0\% | 2.2\% |  |  |  |  |  |
| 2015Q2 | 0.4\% | 1.0\% | 1.3\% | 1.6\% | 1.8\% | 2.0\% | 2.1\% |  |  |  |  |  |  |
| 2015Q3 | 0.4\% | 0.9\% | 1.2\% | 1.5\% | 1.7\% | 1.8\% |  |  |  |  |  |  |  |
| 2015 Q4 | 0.4\% | 0.9\% | 1.2\% | 1.5\% | 1.7\% |  |  |  |  |  |  |  |  |
| 2016 Q1 | 0.4\% | 1.0\% | 1.3\% | 1.6\% |  |  |  |  |  |  |  |  |  |
| 2016Q2 | 0.4\% | 0.9\% | 1.2\% |  |  |  |  |  |  |  |  |  |  |
| 2016Q3 | 0.4\% | 0.8\% |  |  |  |  |  |  |  |  |  |  |  |
| 2016 Q4 | 0.4\% |  |  |  |  |  |  |  |  |  |  |  |  |

Cumulative Psych Payments Per Psych Claim

| Accident | Service Quarter (Delay from Accident Quarter) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Quarter | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2012Q3 | \$221 | \$324 | \$386 | \$434 | \$472 | \$506 | \$533 | \$556 | \$570 | \$585 | \$602 | \$619 | \$632 |
| 2012Q4 | \$222 | \$305 | \$369 | \$412 | \$446 | \$473 | \$495 | \$513 | \$532 | \$552 | \$574 | \$594 | \$611 |
| 2013Q1 | \$224 | \$310 | \$359 | \$396 | \$419 | \$443 | \$460 | \$480 | \$505 | \$523 | \$538 | \$553 | \$570 |
| $2013 Q 2$ | \$222 | \$301 | \$355 | \$386 | \$414 | \$446 | \$467 | \$488 | \$507 | \$529 | \$548 | \$567 | \$581 |
| 2013Q3 | \$226 | \$309 | \$350 | \$392 | \$422 | \$452 | \$479 | \$499 | \$514 | \$533 | \$553 | \$577 | \$601 |
| 2013Q4 | \$231 | \$307 | \$373 | \$418 | \$460 | \$500 | \$524 | \$551 | \$575 | \$606 | \$635 | \$658 | \$681 |
| 2014Q1 | \$301 | \$446 | \$532 | \$649 | \$707 | \$739 | \$765 | \$794 | \$824 | \$856 | \$884 | \$909 |  |
| 2014Q2 | \$316 | \$418 | \$500 | \$545 | \$593 | \$633 | \$664 | \$703 | \$742 | \$772 | \$803 |  |  |
| 2014Q3 | \$270 | \$410 | \$480 | \$541 | \$582 | \$648 | \$699 | \$739 | \$772 | \$808 |  |  |  |
| 2014 Q 4 | \$296 | \$420 | \$505 | \$588 | \$664 | \$732 | \$771 | \$856 | \$872 |  |  |  |  |
| 2015 Q1 | \$346 | \$462 | \$533 | \$620 | \$707 | \$753 | \$791 | \$823 |  |  |  |  |  |
| 2015 Q2 | \$385 | \$523 | \$605 | \$709 | \$779 | \$830 | \$876 |  |  |  |  |  |  |
| 2015Q3 | \$357 | \$478 | \$611 | \$678 | \$732 | \$777 |  |  |  |  |  |  |  |
| 2015Q4 | \$377 | \$527 | \$638 | \$719 | \$770 |  |  |  |  |  |  |  |  |
| 201601 | \$470 | \$605 | \$721 | \$779 |  |  |  |  |  |  |  |  |  |
| 201602 | \$411 | \$628 | \$707 |  |  |  |  |  |  |  |  |  |  |
| 2016 Q 3 | \$405 | \$543 |  |  |  |  |  |  |  |  |  |  |  |
| 2016Q4 | \$392 |  |  |  |  |  |  |  |  |  |  |  |  |

Cumulative Psych Payments Per Physician Services Claim

| Accident | Service Quarter (Delay from Accident Quarter) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Quarter | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2012Q3 | \$5.5 | \$13.2 | \$18.5 | \$22.7 | \$26.6 | \$30.1 | \$32.7 | \$35.1 | \$36.9 | \$38.6 | \$40.5 | \$42.2 | \$43.6 |
| 2012Q4 | \$5.4 | \$12.3 | \$17.2 | \$21.0 | \$24.2 | \$26.8 | \$28.9 | \$30.8 | \$32.7 | \$34.8 | \$36.9 | \$38.7 | \$40.3 |
| 2013Q1 | \$6.2 | \$13.4 | \$17.6 | \$21.3 | \$23.5 | \$25.7 | \$27.5 | \$29.4 | \$31.5 | \$33.2 | \$34.5 | \$35.9 | \$37.4 |
| 2013Q2 | \$5.3 | \$11.5 | \$15.4 | \$17.7 | \$19.9 | \$22.4 | \$24.3 | \$26.2 | \$28.0 | \$29.9 | \$31.6 | \$33.1 | \$34.5 |
| 2013Q3 | \$4.9 | \$10.5 | \$13.1 | \$15.8 | \$17.9 | \$20.1 | \$22.1 | \$23.7 | \$25.1 | \$26.6 | \$28.0 | \$29.7 | \$31.2 |
| $2013 Q^{4}$ | \$4.7 | \$7.2 | \$9.9 | \$12.2 | \$14.5 | \$16.9 | \$18.7 | \$20.6 | \$22.3 | \$24.0 | \$25.6 | \$27.1 | \$28.5 |
| 2014Q1 | \$1.9 | \$5.2 | \$8.0 | \$11.8 | \$14.8 | \$17.3 | \$19.3 | \$21.2 | \$23.2 | \$25.3 | \$27.0 | \$28.5 |  |
| 2014Q2 | \$1.8 | \$4.7 | \$7.1 | \$9.3 | \$11.7 | \$13.9 | \$15.7 | \$17.8 | \$19.7 | \$21.2 | \$22.6 |  |  |
| 2014Q3 | \$1.4 | \$4.1 | \$6.7 | \$9.1 | \$11.3 | \$13.8 | \$16.1 | \$18.1 | \$19.9 | \$21.6 |  |  |  |
| 2014Q4 | \$1.3 | \$4.0 | \$6.5 | \$9.2 | \$12.1 | \$14.7 | \$16.7 | \$19.8 | \$21.3 |  |  |  |  |
| 2015Q1 | \$1.5 | \$4.1 | \$6.5 | \$9.2 | \$11.8 | \$14.1 | \$16.0 | \$17.7 |  |  |  |  |  |
| 2015Q2 | \$1.6 | \$5.0 | \$7.7 | \$11.2 | \$14.0 | \$16.5 | \$18.8 |  |  |  |  |  |  |
| 2015Q3 | \$1.4 | \$4.1 | \$7.2 | \$9.9 | \$12.2 | \$14.3 |  |  |  |  |  |  |  |
| 2015Q4 | \$1.5 | \$4.9 | \$7.8 | \$10.6 | \$12.9 |  |  |  |  |  |  |  |  |
| 2016Q1 | \$2.1 | \$6.0 | \$9.6 | \$12.5 |  |  |  |  |  |  |  |  |  |
| 2016Q2 | \$1.6 | \$5.4 | \$8.3 |  |  |  |  |  |  |  |  |  |  |
| 2016Q3 | \$1.5 | \$4.6 |  |  |  |  |  |  |  |  |  |  |  |
| 2016Q4 | \$1.4 |  |  |  |  |  |  |  |  |  |  |  |  |

Source: WCIRB Medical Data Call

IV-B-7
WCIRB California ${ }^{\circledR}$

## Sleep Disorder Treatment Patterns

Cumulative Percentage of Physician Services Claims with Sleep Disorder Payments

| Accident | Service Quarter (Delay from Accident Quarter) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Quarter | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2012Q3 | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.2\% | 0.2\% | 0.2\% | 0.2\% | 0.2\% |
| 2012Q4 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.2\% |
| 2013Q1 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.2\% | 0.2\% | 0.2\% | 0.2\% |
| 2013Q2 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% |
| 2013Q3 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% |
| 2013Q4 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% |
| 2014Q1 | "0.0\% | "0.0\% | "0.1\% | "0.1\% | "0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.2\% |  |
| 2014Q2 | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% |  |  |
| 2014Q3 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% |  |  |  |
| 2014Q4 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% | 0.1\% |  |  |  |  |
| 2015Q1 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% |  |  |  |  |  |
| 2015Q2 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% |  |  |  |  |  |  |
| 2015Q3 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |  |  |  |  |  |  |
| 2015Q4 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |  |  |  |  |  |  |  |
| 2016Q1 | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |  |  |  |  |  |  |  |  |
| 2016Q2 | 0.0\% | 0.0\% | 0.0\% |  |  |  |  |  |  |  |  |  |  |
| 2016Q3 | 0.0\% | 0.0\% |  |  |  |  |  |  |  |  |  |  |  |
| 2016Q4 | 0.0\% |  |  |  |  |  |  |  |  |  |  |  |  |

Cumulative Sleep Disorder Payments Per Sleep Disorder Claim
Accident Service Quarter (Delay from Accident Quarter)

| Quarter | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2012Q3 | \$366 | \$1,012 | \$1,002 | \$932 | \$881 | \$863 | \$823 | \$783 | \$768 | \$771 | \$776 | \$755 | \$758 |
| 2012 Q | \$1,768 | \$932 | \$966 | \$863 | \$860 | \$759 | \$748 | \$681 | \$678 | \$669 | \$657 | \$659 | \$689 |
| 2013Q1 | \$387 | \$515 | \$589 | \$655 | \$678 | \$659 | \$571 | \$559 | \$540 | \$530 | \$516 | \$527 | \$528 |
| 2013Q2 | \$387 | \$446 | \$496 | \$549 | \$527 | \$441 | \$437 | \$482 | \$467 | \$465 | \$468 | \$478 | \$482 |
| 2013Q3 | N/A | \$894 | \$660 | \$583 | \$495 | \$493 | \$505 | \$508 | \$511 | \$541 | \$543 | \$559 | \$649 |
| 2013Q4 | \$321 | \$474 | \$510 | \$518 | \$476 | \$473 | \$469 | \$497 | \$520 | \$508 | \$526 | \$541 | \$544 |
| 2014Q1 | \$208 | \$602 | \$415 | \$529 | \$485 | \$446 | \$454 | \$470 | \$482 | \$482 | \$505 | \$509 |  |
| 2014Q2 | \$208 | \$168 | \$292 | \$332 | \$351 | \$343 | \$349 | \$402 | \$498 | \$516 | \$530 |  |  |
| 2014Q3 | \$326 | \$149 | \$336 | \$434 | \$496 | \$476 | \$488 | \$488 | \$497 | \$520 |  |  |  |
| 2014Q4 | \$187 | \$176 | \$259 | \$319 | \$337 | \$357 | \$385 | \$397 | \$415 |  |  |  |  |
| 2015Q1 | \$135 | \$183 | \$218 | \$272 | \$300 | \$324 | \$360 | \$360 |  |  |  |  |  |
| 2015Q2 | \$150 | \$194 | \$213 | \$252 | \$279 | \$311 | \$383 |  |  |  |  |  |  |
| 2015Q3 | \$405 | \$311 | \$273 | \$300 | \$300 | \$293 |  |  |  |  |  |  |  |
| 2015Q4 | \$107 | \$414 | \$488 | \$632 | \$665 |  |  |  |  |  |  |  |  |
| 2016Q1 | \$508 | \$409 | \$481 | \$596 |  |  |  |  |  |  |  |  |  |
| 2016Q2 | \$542 | \$561 | \$683 |  |  |  |  |  |  |  |  |  |  |
| 2016Q3 | \$73 | \$494 |  |  |  |  |  |  |  |  |  |  |  |
| 2016Q4 | N/A |  |  |  |  |  |  |  |  |  |  |  |  |

Cumulative Sleep Disorder Payments Per Physician Services Claim

| Accident | Service Quarter (Delay from Accident Quarter) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Quarter | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2012Q3 | \$0.0 | \$0.4 | \$0.5 | \$0.7 | \$0.8 | \$0.9 | \$1.0 | \$1.1 | \$1.2 | \$1.3 | \$1.4 | \$1.4 | \$1.5 |
| 2012Q4 | \$0.1 | \$0.1 | \$0.3 | \$0.3 | \$0.5 | \$0.6 | \$0.7 | \$0.7 | \$0.7 | \$0.8 | \$0.8 | \$0.9 | \$1.0 |
| 2013Q1 | \$0.0 | \$0.1 | \$0.2 | \$0.4 | \$0.5 | \$0.6 | \$0.7 | \$0.8 | \$0.8 | \$0.8 | \$0.8 | \$0.9 | \$0.9 |
| 2013Q2 | \$0.0 | \$0.1 | \$0.2 | \$0.3 | \$0.3 | \$0.4 | \$0.4 | \$0.5 | \$0.5 | \$0.5 | \$0.5 | \$0.6 | \$0.6 |
| 2013Q3 | \$0.0 | \$0.1 | \$0.3 | \$0.4 | \$0.4 | \$0.5 | \$0.6 | \$0.6 | \$0.7 | \$0.7 | \$0.7 | \$0.8 | \$0.9 |
| 2013Q4 | \$0.0 | \$0.1 | \$0.2 | \$0.3 | \$0.3 | \$0.4 | \$0.5 | \$0.6 | \$0.6 | \$0.6 | \$0.7 | \$0.7 | \$0.7 |
| 2014Q1 | \$0.0 | \$0.1 | \$0.3 | \$0.4 | \$0.5 | \$0.5 | \$0.6 | \$0.6 | \$0.7 | \$0.7 | \$0.7 | \$0.8 |  |
| 2014Q2 | \$0.0 | \$0.1 | \$0.2 | \$0.3 | \$0.3 | \$0.4 | \$0.4 | \$0.5 | \$0.7 | \$0.7 | \$0.8 |  |  |
| 2014Q3 | \$0.0 | \$0.0 | \$0.1 | \$0.3 | \$0.4 | \$0.4 | \$0.4 | \$0.4 | \$0.5 | \$0.5 |  |  |  |
| 2014Q4 | \$0.0 | \$0.0 | \$0.1 | \$0.2 | \$0.2 | \$0.3 | \$0.3 | \$0.3 | \$0.3 |  |  |  |  |
| 2015 Q1 | \$0.0 | \$0.0 | \$0.1 | \$0.1 | \$0.1 | \$0.2 | \$0.2 | \$0.2 |  |  |  |  |  |
| 2015Q2 | \$0.0 | \$0.0 | \$0.1 | \$0.1 | \$0.1 | \$0.1 | \$0.2 |  |  |  |  |  |  |
| 2015Q3 | \$0.0 | \$0.1 | \$0.1 | \$0.1 | \$0.1 | \$0.1 |  |  |  |  |  |  |  |
| 2015Q4 | \$0.0 | \$0.0 | \$0.1 | \$0.1 | \$0.2 |  |  |  |  |  |  |  |  |
| 2016Q1 | \$0.0 | \$0.0 | \$0.1 | \$0.1 |  |  |  |  |  |  |  |  |  |
| 2016Q2 | \$0.0 | \$0.1 | \$0.1 |  |  |  |  |  |  |  |  |  |  |
| 2016Q3 | \$0.0 | \$0.0 |  |  |  |  |  |  |  |  |  |  |  |
| 2016Q4 | \$0.0 |  |  |  |  |  |  |  |  |  |  |  |  |

Source: WCIRB Medical Data Call

## Sexual Dysfunction Treatment Patterns

Cumulative Percentage of Physician Services Claims with Sexual Dysfunction Payments

| Accident | Service Quarter (Delay from Accident Quarter) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Quarter | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2012Q3 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 2012Q4 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 2013Q1 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 2013Q2 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 2013Q3 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 2013Q4 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 2014Q1 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |
| 2014Q2 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |  |
| 2014Q3 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |  |  |
| 2014Q4 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |  |  |  |
| 2015 Q1 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |  |  |  |  |
| 2015Q2 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |  |  |  |  |  |
| 2015Q3 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |  |  |  |  |  |  |
| 2015Q4 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |  |  |  |  |  |  |  |
| 2016Q1 | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |  |  |  |  |  |  |  |  |
| 2016Q2 | 0.0\% | 0.0\% | 0.0\% |  |  |  |  |  |  |  |  |  |  |
| 2016Q3 | 0.0\% | 0.0\% |  |  |  |  |  |  |  |  |  |  |  |
| 2016Q4 | 0.0\% |  |  |  |  |  |  |  |  |  |  |  |  |

Cumulative Sexual Dysfunction Payments Per Sexual Dysfunction Claim
Accident Service Quarter (Delay from Accident Quarter)

| Quarter | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 2012Q3 | $\$ 695$ | $\$ 695$ | $\$ 695$ | $\$ 695$ | $\$ 695$ | $\$ 695$ | $\$ 402$ | $\$ 702$ | $\$ 402$ | $\$ 402$ | $\$ 352$ | $\$ 352$ | $\$ 352$ |
| 2012Q4 | $\$ 296$ | $\$ 296$ | $\$ 258$ | $\$ 360$ | $\$ 360$ | $\$ 360$ | $\$ 360$ | $\$ 360$ | $\$ 360$ | $\$ 436$ | $\$ 435$ | $\$ 431$ | $\$ 431$ |
| 2013Q1 | N/A | N/A | $\$ 40$ | $\$ 248$ | $\$ 248$ | $\$ 248$ | $\$ 297$ | $\$ 297$ | $\$ 297$ | $\$ 587$ | $\$ 705$ | $\$ 602$ | $\$ 602$ |
| 2013Q2 | $\$ 1,274$ | $\$ 977$ | $\$ 977$ | $\$ 977$ | $\$ 977$ | $\$ 977$ | $\$ 803$ | $\$ 803$ | $\$ 641$ | $\$ 576$ | $\$ 576$ | $\$ 529$ | $\$ 529$ |
| 2013Q3 | $\$ 552$ | $\$ 552$ | $\$ 349$ | $\$ 349$ | $\$ 274$ | $\$ 463$ | $\$ 420$ | $\$ 385$ | $\$ 418$ | $\$ 418$ | $\$ 508$ | $\$ 457$ | $\$ 443$ |
| 2013Q4 | $\$ 499$ | $\$ 499$ | $\$ 613$ | $\$ 613$ | $\$ 598$ | $\$ 598$ | $\$ 598$ | $\$ 651$ | $\$ 651$ | $\$ 651$ | $\$ 651$ | $\$ 651$ | $\$ 426$ |

201401 \$1,472 \$1,398 \$1,459 \$1,864 \$1,864 \$2,287 \$2,047 \$2,047 \$1,748 \$1,617 \$1,617 \$1,617

2014Q2 $\begin{array}{lllllllllll} & \$ 834 & \$ 834 & \$ 737 & \$ 737 & \$ 737 & \$ 657 & \$ 657 & \$ 657 & \$ 1,183 & \$ 1,183\end{array} \$ 1,183$
2014Q3 $\quad \$ 462$ \$426 $\begin{array}{lllllllll}\$ 814 & \$ 814 & \$ 596 & \$ 596 & \$ 596 & \$ 596 & \$ 535 & \$ 432\end{array}$
2014Q4 \$2,319 \$2,305 \$2,305 \$1,737 \$1,480 \$1,480 \$1,480 \$1,069 \$852
2015Q1 $\quad \$ 180 \quad \$ 180 \quad \$ 407 \quad \$ 408 \quad \$ 378 \quad \$ 347$ \$2,530 $\$ 2,289$
2015Q2 N/A $\quad \$ 756 \quad \$ 756 \quad \$ 490 \quad \$ 590 \quad \$ 590 \quad \$ 475$
2015Q3 $\quad \$ 541 \quad \$ 541 \quad \$ 706 \quad \$ 706 \quad \$ 515 \quad \$ 515$
2015Q4 $\$ 927 \quad \$ 504 \quad \$ 504 \quad \$ 617 \quad \$ 619$
2016Q1 $\quad \$ 651 \quad \$ 651 \quad \$ 651 \quad \$ 479$
2016Q2 \$409 \$322 \$170
2016 Q3 N/A \$671
2016 Q4 \$550
Cumulative Sexual Dysfunction Payments Per Physician Services Claim

| Accident | Service Quarter (Delay from Accident Quarter) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Quarter | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2012Q3 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 |
| 2012Q4 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.1 | \$0.1 | \$0.1 |
| 2013Q1 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.1 | \$0.1 | \$0.1 | \$0.1 |
| 2013Q2 | \$0.1 | \$0.1 | \$0.1 | \$0.1 | \$0.1 | \$0.1 | \$0.1 | \$0.1 | \$0.1 | \$0.1 | \$0.1 | \$0.1 | \$0.1 |
| 2013Q3 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.1 | \$0.1 | \$0.1 | \$0.1 | \$0.1 |
| 2013Q4 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 |
| 2014Q1 | \$0.0 | \$0.1 | \$0.1 | \$0.2 | \$0.2 | \$0.3 | \$0.3 | \$0.3 | \$0.3 | \$0.3 | \$0.3 | \$0.3 |  |
| 2014Q2 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.1 | \$0.1 | \$0.1 |  |  |
| 2014Q3 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 |  |  |  |
| 2014Q4 | \$0.0 | \$0.1 | \$0.1 | \$0.1 | \$0.1 | \$0.1 | \$0.1 | \$0.1 | \$0.1 |  |  |  |  |
| 2015Q1 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.3 | \$0.3 |  |  |  |  |  |
| 2015Q2 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 |  |  |  |  |  |  |
| 2015Q3 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 |  |  |  |  |  |  |  |
| 2015Q4 | \$0.0 | \$0.0 | \$0.0 | \$0.1 | \$0.1 |  |  |  |  |  |  |  |  |
| 2016 Q1 | \$0.0 | \$0.0 | \$0.0 | \$0.0 |  |  |  |  |  |  |  |  |  |
| 2016Q2 | \$0.0 | \$0.0 | \$0.0 |  |  |  |  |  |  |  |  |  |  |
| 2016Q3 | \$0.0 | \$0.0 |  |  |  |  |  |  |  |  |  |  |  |
| 2016Q4 | \$0.0 |  |  |  |  |  |  |  |  |  |  |  |  |

Source: WCIRB Medical Data Call

## Supplemental Job Displacement Benefit (SJDB) Costs

| Calendar Year Paid SJJB Costs |  |  |
| :---: | :---: | :---: |
| Calendar <br> Year | SJDB Paid <br> (\$millions) | of Total <br> Indemnity Paid |
| 2010 | $\$ 32.0$ | $1.1 \%$ |
| 2011 | $\$ 32.3$ | $1.1 \%$ |
| 2012 | $\$ 36.2$ | $1.1 \%$ |
| 2013 | $\$ 37.2$ | $1.1 \%$ |
| 2014 | $\$ 30.0$ | $0.9 \%$ |
| 2015 | $\$ 45.8$ | $1.4 \%$ |
| 2016 | $\$ 64.6$ | $1.8 \%$ |

## SJDB Costs by Accident Year

First Survey Level

| Accident Year | \% of Claims w/ Incurred SJDB | \% of Claims w/ Paid SJDB | Average Incurred SJDB | Average |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | \% Change | Paid SJDB | \% Change |
| 2009 | 20.3\% | 3.3\% | \$5,965 | --- | \$3,945 | --- |
| 2010 | 16.6\% | 3.2\% | \$5,948 | 0\% | \$4,097 | 4\% |
| 2011 | 14.7\% | 3.0\% | \$5,995 | 1\% | \$4,241 | 4\% |
| 2012 | 11.9\% | 2.5\% | \$5,845 | -3\% | \$4,227 | 0\% |
| 2013 | 16.1\% | 4.2\% | \$5,796 | -1\% | \$5,054 | 20\% |
| 2014 | 20.2\% | 7.2\% | \$5,648 | -3\% | \$4,927 | -3\% |

Second Survey Level

| Accident Year | \% of Claims w/ Incurred SJDB | \% of Claims w/ Paid SJDB | Average Incurred SJDB | Average Paid |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | \% Change |  | \% Change |
| 2009 | 22.7\% | 2.7\% | \$6,489 | --- | \$4,879 | --- |
| 2010 | 20.0\% | 3.0\% | \$6,437 | -1\% | \$4,601 | -6\% |
| 2011 | 16.2\% | 2.2\% | \$6,607 | 3\% | \$5,105 | 11\% |
| 2012 | 14.8\% | 2.4\% | \$6,343 | -4\% | \$4,303 | -16\% |
| 2013 | 24.0\%"'0"* | 6.5\%"******** | \$5,743 | -"9\%"'0 | \$44,497"'s | 5\% |

Source: WCIRB aggregate financial data calls and Permanent Disability Claim Survey

## IMR Filed Counts

Quarterly IMRs Filed

| Year \& Quarter | Total IMRs Filed | Change from Same Quarter in Prior Year | Eligible IMRs | Change from Same Quarter in Prior Year |
| :---: | :---: | :---: | :---: | :---: |
| 2013 1Q \& 2Q | 878 | --- | --- | --- |
| 2013 3Q | 31,950 | --- | --- | --- |
| 2013 4Q | 51,092 | --- | --- | --- |
| 2014 1Q | 49,928 | --- | --- | --- |
| 2014 2Q | 59,983 | --- | --- | --- |
| 2014 3Q | 59,606 | 86.6\% | --- | --- |
| 2014 4Q | 58,567 | 14.6\% | --- | --- |
| 2015 1Q | 61,142 | 22.5\% | 38,752 | --- |
| 2015 2Q | 65,418 | 9.1\% | 42,761 | --- |
| 2015 3Q | 65,889 | 10.5\% | 43,036 | --- |
| 2015 4Q | 61,327 | 4.7\% | 41,060 | --- |
| 2016 1Q | 60,772 | -0.6\% | 41,023 | 5.9\% |
| 2016 2Q | 64,852 | -0.9\% | 44,287 | 3.6\% |
| 2016 3Q | 62,411 | -5.3\% | 43,892 | 2.0\% |
| 2016 4Q | 61,318 | 0.0\% | 43,618 | 6.2\% |
| 2017 1Q | 61,973 | 2.0\% | 43,480 | 6.0\% |
| 2017 2Q | 62,773 | -3.2\% | 44,491 | 0.5\% |
| 2017 3Q | 63,377 | 1.5\% | 44,422 | 1.2\% |

## Yearly IMR Counts

|  | Original IMR <br> Applications |  | Duplicates |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Source: DWC

## Changes in the Number of Weeks of Temporary Disability Benefits

## First Survey Level

| Accident <br> Year | Average <br> TD Duration |  |  | Median <br> Change | TD Duration |
| :---: | :---: | :---: | :---: | :---: | :---: | | Change |
| :---: |

Second Survey Level

| Accident <br> Year | Average <br> TD Duration |  |  | Median <br> Change | TD Duration |
| :---: | :---: | :---: | :---: | :---: | :---: | | Change |
| :---: |

Source: WCIRB Permanent Disability Claim Survey
Projected vs. Actual Change in Physician Fees Schedule
Payments per Claim: SY 2013 to SY 2014 Transactions through 2 Q2

Source: WCIRB Medical Data Call
Projected vs. Actual Change in Physician Fees Schedule
Payments per Claim: SY 2014 to SY 2015 Transactions through 2 Q20


| Share of Payments (Service Year 2014) |  |  |  |
| :--- | :---: | ---: | :---: |
| $27 \%$ | $10 \%$ | $20 \%$ |  |

$100 \%$

7\%

| Share of Payments (Service Year 2014) |
| :--- |
| $27 \%$ |



Source: WCIRB Medical Data Call
Projected vs. Actual Change in Physician Fees Schedule
Payments per Claim: SY 2015 to SY 2016 Transactions through 2 Q2


[^9]| Time Period | Bay Area | Central Coast/ <br> Valley | Los Angeles County | Remainder of LA Basin | Remaining CA Zip Codes | Sacramento | San Diego County | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |


| Counts by Type |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time Period | Interpreter | Medical | MedicalLegal | Copy Service | Other*** | Total |
| 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 |

[^10]
## Lien Filed Counts by Month

| Year.Month | Number of Liens Filed |
| :---: | :---: |
| 2016.01 | 34,877 |
| 2016.02 | 34,352 |
| 2016.03 | 38,791 |
| 2016.04 | 36,419 |
| 2016.05 | 36,861 |
| 2016.06 | 32,692 |
| 2016.07 | 24,184 <---SB 863 "Dual Statutes" Ends |
| 2016.08 | 26,963 |
| 2016.09 | 25,392 <----SB 1160 Signed |
| 2016.10 | 25,219 |
| 2016.11 | 28,706 |
| 2016.12 | 49,794 |
| 2017.01 | 8,748 <---SB 1160 Becomes Effective |
| 2017.02 | 13,075 |
| 2017.03 | 17,844 |
| 2017.04 | 17,785 |
| 2017.05 | 17,750 |
| 2017.06 | 15,858 |
| 2017.07 | 15,463 |
| 2017.08 | 16,369 |
| 2017.09 | 13,447 |

Source: DWC

## Medical Lien Payments by Development Period

\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Development
Year

1} \& \multicolumn{4}{|c|}{Calendar Year} <br>
\hline \& $\underline{2014}$ \& $\underline{2015}$ \& $\underline{2016}$ \& 2017 (6 Mo.) <br>
\hline 1 \& 0.0\% \& 0.0\% \& 0.0\% \& 0.0\% <br>
\hline 2 \& 1.7\% \& 1.5\% \& 1.2\% \& 0.3\% <br>
\hline 3 \& 8.3\% \& 8.2\% \& 7.6\% \& 4.2\% <br>
\hline 4 \& 16.4\% \& 16.3\% \& 17.8\% \& 15.3\% <br>
\hline 5 \& 21.6\% \& 22.5\% \& 21.6\% \& 21.4\% <br>
\hline 6 \& 21.6\% \& 24.9\% \& 22.2\% \& 21.8\% <br>
\hline 7 \& 20.8\% \& 22.6\% \& 22.8\% \& 21.2\% <br>
\hline 8 \& 17.9\% \& 20.4\% \& 21.2\% \& 22.1\% <br>
\hline 9 \& 16.0\% \& 17.9\% \& 19.9\% \& 21.0\% <br>
\hline 10 \& 13.6\% \& 15.0\% \& 16.3\% \& 13.3\% <br>
\hline 11 \& 13.4\% \& 10.6\% \& 15.8\% \& 12.1\% <br>
\hline 12 \& 11.1\% \& 10.4\% \& 10.2\% \& 11.4\% <br>
\hline 13 \& 8.8\% \& 8.6\% \& 10.7\% \& 10.8\% <br>
\hline 14 \& 7.8\% \& 7.9\% \& 9.0\% \& 9.0\% <br>
\hline 15 \& 5.4\% \& 6.6\% \& 6.9\% \& 4.9\% <br>
\hline 16 \& 4.9\% \& 5.9\% \& 11.6\% \& 5.1\% <br>
\hline 17+ \& 2.7\% \& 2.8\% \& 3.5\% \& 2.5\% <br>
\hline All Periods \& 8.9\% \& 8.9\% \& 8.4\% \& 7.3\% <br>
\hline
\end{tabular}

Ratio of Lien Paid Amount to Charged Amount

| Development | Calendar Year |  |  |  |
| :---: | ---: | ---: | ---: | ---: |
| Year $^{1}$ | $\underline{2014}$ | $\underline{2015}$ | $\underline{2016}$ | $\underline{2017(6 \mathrm{Mo} .)}$ |
| 2 | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ |
| 3 | $41.3 \%$ | $30.3 \%$ | $31.3 \%$ | $27.1 \%$ |
| 3 | $41.6 \%$ | $31.8 \%$ | $32.4 \%$ | $26.0 \%$ |
| 4 | $40.9 \%$ | $34.3 \%$ | $33.0 \%$ | $26.5 \%$ |
| 5 | $41.8 \%$ | $33.7 \%$ | $34.7 \%$ | $26.9 \%$ |
| 6 | $39.1 \%$ | $36.4 \%$ | $35.1 \%$ | $28.5 \%$ |
| 7 | $37.4 \%$ | $32.0 \%$ | $36.7 \%$ | $31.5 \%$ |
| 8 | $33.6 \%$ | $30.7 \%$ | $33.0 \%$ | $32.8 \%$ |
| 9 | $28.2 \%$ | $29.1 \%$ | $30.8 \%$ | $28.3 \%$ |
| 10 | $27.2 \%$ | $24.9 \%$ | $25.8 \%$ | $27.3 \%$ |
| 11 | $25.6 \%$ | $23.7 \%$ | $23.4 \%$ | $24.3 \%$ |
| 12 | $25.7 \%$ | $25.0 \%$ | $20.9 \%$ | $25.7 \%$ |
| 13 | $28.7 \%$ | $25.9 \%$ | $20.5 \%$ | $22.9 \%$ |
| 14 | $35.5 \%$ | $27.2 \%$ | $24.3 \%$ | $27.4 \%$ |
| 15 | $28.7 \%$ | $22.2 \%$ | $25.7 \%$ | $25.9 \%$ |
| 16 | $29.3 \%$ | $30.2 \%$ | $28.5 \%$ | $24.6 \%$ |
| $17+$ | $31.1 \%$ | $23.7 \%$ | $26.6 \%$ | $25.8 \%$ |
| All Periods | $36.5 \%$ | $31.5 \%$ | $31.8 \%$ | $27.5 \%$ |

Source: WCIRB Medical Data Call
${ }^{1}$ For example, calendar year 2014 development year 5 represents payments made on 2010 claims in 2014.

## DWC Dismissed Lien Summary

| Accident Year | \% of Liens | Avg. Lien Demand | Lien Filing Year | \% of Liens | Avg. Lien Demand |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Before 1996 | 2.8\% | \$11,572 | 2013 | 11.6\% | \$9,285 |
| 1996 | 0.4\% | \$10,828 | 2014 | 19.9\% | \$8,109 |
| 1997 | 0.5\% | \$10,307 | 2015 | 36.6\% | \$8,076 |
| 1998 | 0.6\% | \$10,350 | 2016 | 31.9\% | \$8,475 |
| 1999 | 0.7\% | \$9,804 |  |  |  |
| 2000 | 1.0\% | \$9,430 |  |  |  |
| 2001 | 1.0\% | \$9,667 | Lien Type | \% of Liens | Avg. Lien Demand |
| 2002 | 1.2\% | \$9,520 | Medical | 99.9\% | \$8,353 |
| 2003 | 1.3\% | \$9,270 | Other | 0.1\% | \$5,017 |
| 2004 | 1.6\% | \$9,669 |  |  |  |
| 2005 | 2.0\% | \$9,056 |  |  |  |
| 2006 | 2.7\% | \$8,792 | Region | \% of Liens | Avg. Lien Demand |
| 2007 | 3.8\% | \$8,776 | Bay Area | 1.7\% | \$9,798 |
| 2008 | 5.2\% | \$8,237 | Central Coast/Valley | 3.3\% | \$9,085 |
| 2009 | 7.3\% | \$8,206 | Los Angeles County | 66.1\% | \$8,402 |
| 2010 | 11.6\% | \$7,992 | Remainder of LA Basin | 25.5\% | \$7,965 |
| 2011 | 15.9\% | \$8,111 | Sacramento | 0.3\% | \$15,166 |
| 2012 | 18.3\% | \$8,233 | San Deigo County | 2.8\% | \$7,739 |
| 2013 | 14.0\% | \$8,070 | Other CA | 0.3\% | \$13,379 |
| 2014 | 7.0\% | \$7,277 |  |  |  |
| 2015 | 1.1\% | \$7,305 |  |  |  |
| 2016 | 0.0\% | \$7,513 |  |  |  |

Source: Approximately 271,000 dismissed liens linked to the original lien filing ( $93 \%$ of total dismissals).
Unit Statistical Claims Involving Liens (Preliminary)

| Claims with Non-Dismissed Liens |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Policy Year | Latest RL | Claim Distribution | \% Open | \% PP | \% Indemnity | \% Cumulative | Avg Ind Pd | Avg Ind Inc | Avg Med Pd | Avg Med Inc | Avg ALAE Pd |
| 2004 \& Prior | $5+$ | 9.8\% | 76\% | 91\% | 98\% | 13\% | 70,753 | 104,657 | 117,928 | 188,039 | 10,242 |
| 2005 | 10 | 2.6\% | 47\% | 87\% | 93\% | 16\% | 69,037 | 81,084 | 130,804 | 159,133 | 20,013 |
| 2006 | 10 | 5.0\% | 35\% | 91\% | 97\% | 15\% | 69,041 | 83,040 | 130,895 | 165,988 | 20,298 |
| 2007 | 9 | 7.7\% | 32\% | 86\% | 95\% | 15\% | 63,714 | 73,165 | 117,942 | 139,214 | 21,324 |
| 2008 | 8 | 10.1\% | 31\% | 90\% | 97\% | 18\% | 55,146 | 64,369 | 101,011 | 123,839 | 20,232 |
| 2009 | 7 | 13.1\% | 27\% | 82\% | 95\% | 18\% | 44,800 | 51,134 | 79,573 | 95,755 | 19,043 |
| 2010 | 6 | 15.1\% | 31\% | 79\% | 95\% | 17\% | 38,677 | 43,851 | 62,942 | 73,939 | 19,546 |
| 2011 | 5 | 15.8\% | 34\% | 77\% | 96\% | 18\% | 32,827 | 38,809 | 49,709 | 61,166 | 19,898 |
| 2012 | 4 | 11.8\% | 41\% | 73\% | 96\% | 16\% | 26,380 | 31,709 | 37,969 | 47,462 | 16,119 |
| 2013 | 3 | 6.4\% | 53\% | 71\% | 94\% | 22\% | 21,251 | 26,906 | 25,651 | 36,074 | 11,861 |
| 2014 | 2 | 2.2\% | 62\% | 68\% | 92\% | 19\% | 16,025 | 26,002 | 18,029 | 31,828 | 8,719 |
| 2015 | 1 | 0.3\% | 78\% | 61\% | 96\% | 22\% | 8,733 | 37,306 | 11,412 | 31,210 | 4,687 |
| All |  | 100\% | 39\% | 81\% | 96\% | 17\% | 44,474 | 54,336 | 75,243 | 96,335 | 17,700 |


| Policy Year | Latest RL | Claim Distribution | \% Open | \% PP | \% Indemnity | \% Cumulative | Avg Ind Pd | Avg Ind Inc | Avg Med Pd | Avg Med Inc | Avg ALAE Pd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2004 \& Prior | $5+$ | 7.7\% | 82\% | 87\% | 96\% | 13\% | 85,752 | 129,327 | 131,529 | 212,507 | 14,942 |
| 2005 | 10 | 2.9\% | 46\% | 89\% | 93\% | 22\% | 63,325 | 88,648 | 134,226 | 187,823 | 20,586 |
| 2006 | 10 | 4.5\% | 32\% | 84\% | 95\% | 16\% | 73,225 | 86,181 | 154,426 | 175,694 | 21,410 |
| 2007 | 9 | 6.6\% | 35\% | 93\% | 96\% | 14\% | 69,243 | 82,250 | 153,646 | 186,732 | 23,013 |
| 2008 | 8 | 9.1\% | 31\% | 87\% | 96\% | 15\% | 56,177 | 67,064 | 93,698 | 108,756 | 21,956 |
| 2009 | 7 | 12.3\% | 27\% | 84\% | 97\% | 15\% | 46,569 | 50,721 | 79,876 | 91,041 | 19,461 |
| 2010 | 6 | 15.9\% | 30\% | 81\% | 96\% | 17\% | 38,153 | 43,330 | 63,658 | 73,117 | 20,494 |
| 2011 | 5 | 18.5\% | 29\% | 77\% | 96\% | 18\% | 28,838 | 32,211 | 50,206 | 57,552 | 19,197 |
| 2012 | 4 | 13.6\% | 36\% | 69\% | 94\% | 18\% | 28,055 | 33,205 | 40,402 | 51,390 | 16,160 |
| 2013 | 3 | 7.2\% | 46\% | 72\% | 93\% | 20\% | 25,844 | 30,289 | 31,971 | 39,206 | 12,469 |
| 2014 | 2 | 1.8\% | 40\% | 71\% | 93\% | 12\% | 19,108 | 22,860 | 18,312 | 31,079 | 9,111 |
| 2015 | 1 | 0.1\% | 100\% | 100\% | 100\% | 0\% | 775 | 9,402 | 1,554 | 8,523 | 2,409 |
| All |  | 100\% | 37\% | 80\% | 96\% | 16\% | 44,454 | 54,002 | 76,764 | 95,502 | 18,655 |


Medical Lien Transactions

| \% of Liens | Average | Average |  | Average |
| :---: | :---: | :---: | :---: | :---: |
|  | Billed Amt | Paid Amt | Paid \% | Lien Demand |
| 16\% | \$5,106 | \$1,275 | 25\% | \$7,138 |
| 7\% | \$4,669 | \$1,285 | 28\% | \$9,377 |
| 7\% | \$6,897 | \$1,968 | 29\% | \$8,091 |
| 7\% | \$5,765 | \$1,516 | 26\% | \$8,089 |
| 4\% | \$3,943 | \$1,387 | 35\% | \$6,305 |
| 5\% | \$6,547 | \$1,161 | 18\% | \$8,799 |
| 4\% | \$4,739 | \$1,654 | 35\% | \$5,298 |
| 3\% | \$8,940 | \$1,604 | 18\% | \$9,249 |
| 2\% | \$14,628 | \$4,882 | 33\% | \$32,655 |
| 8\% | \$5,048 | \$1,093 | 22\% | \$5,969 |
| 36\% | \$5,897 | \$1,574 | 27\% | \$7,770 |
| 100\% | \$5,832 | \$1,523 | 26\% | \$8,058 |





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

Staff presented the results of evaluating different wage series as part of the analysis to develop the 2017 California Wage Report, made available to members in January of 2017. In the report, staff noted that these historical and projected wage series can potentially be used to on-level and trend historical exposures and indemnity benefits.

Staff conducted a review of the underlying series used to on-level premiums and indemnity benefit level costs for wage level changes in pure premium ratemaking. The currently selected UCLA wage series and the Occupational Employee Statistics (OES) wage series were evaluated retrospectively to determine whether the OES series provides an improvement in accuracy compared to the current method. The Amended January 1, 2018 Pure Premium Rate Filing loss ratios (experience as of June 30, 2017) and benefit level adjustments were used in the analysis to calculate the ultimate loss ratios while the wage onlevel adjustment is based on the June 2017 UCLA series or the May 2016 OES series which was published in April 2017 (both of which were the most current of these series available at the time of the analysis).

## Wage Series

The OES series was published by the Bureau of Labor Statistics (BLS) and the California Employment Development Department (EDD) in the Occupational Employment Survey ${ }^{1}$ while the UCLA series is developed from the BLS' aggregate wage and salary and aggregate employment data, which are forecast by the UCLA Anderson Forecast and used in ratemaking. There are several differences which are noted below.

1. UCLA Wage: UCLA is updated on a quarterly basis with the most recent wage information and is thus more responsive. The UCLA forecasts are based on annual aggregate average wages which may cause more volatility during periods of economic transition. The UCLA wage forecasts rely on the BLS reported wage information.
2. OES Wage: OES is updated annually which causes changes to wage trends to be captured more slowly. Unlike the UCLA wage series, the OES series is based on median information which may better represent the covered exposure, especially during periods of economic transition. The OES series is collected through semiannual surveys to collect employment and wages for specific occupations. As such, data adjustments are needed at the classification level to reduce potential distortions due to changes of mix of classifications. Staff used the OES data to model median wages and develop occupational-level wage inflation projections while preparing the 2017 California Wage Report. Wage projections for future periods are not published in the OES series.

Staff also reviewed a modified UCLA wage forecast series. In this series, the UCLA wage forecast for future years was adjusted by the change in the emerging year when compared to the previous UCLA forecast. This adjustment was made for both the first and second projection years in the forecast, which mimics the projection years used in pure premium ratemaking. For example, the forecasted 2015 and 2016 wage changes from the June 2014 UCLA forecast was adjusted with the change on 2014 from the March 2014 to the June 2014 UCLA forecasts to obtain the adjusted forecasted wage changes for 2015 and 2016. This alternative series is intended to be more responsive to changes in emerging average wage levels.

[^11]
## Methodology

The OES and UCLA were both used to on-level developed loss ratios on an accident year basis. The methodology used to calculate projected ultimate loss ratios is based on the separate frequency and severity trends applied to the previous two years prior to the corresponding unadjusted latest year at the current wage level. The frequency and severity assumptions used for the analysis are based on those included in the Amended January 1, 2018 Pure Premium Rate Filing. Inasmuch as only the wage level change projection is being reviewed in this analysis, the loss trending methodology applied should not impact the results.

Exhibits 1 and 2 show the projected loss ratios under each wage on-leveling basis and compares those projected loss ratios to the emerged loss ratios for the period at the current wage level. The UCLA projections are more in-line with the actual loss ratio, which is most clearly seen in the medical loss ratios shown in Exhibit 2. Exhibit 3 compares the absolute error between the projected loss ratio and the actual loss ratio using the currently selected latest 2-year average frequency and severity trend as well as a 5 -year loss ratio trend. The projected loss ratios on-leveled using the UCLA series perform similar to or better than those using the OES series for the majority of the years. Based on these results, staff does not recommend adopting the OES wage series for use in pure premium ratemaking.

Exhibit 4 compares the differences of adjusted and unadjusted UCLA forecast wage changes (as described above) to the "full maturity" wage changes for 2007 through 2016. (The reported wages are assumed to reach "full maturity" 12 months after the end of the year. For example, the "full maturity" 2015 wage change is as of December 2016.) The adjusted wage series generally performed the same or worse than the unadjusted wage series based on the average absolute error. As a result, staff does not recommend making these adjustments to the UCLA forecasts when being used for pure premium ratemaking.


## Item AC17-12-04 <br> Earthquake Study

At the December 6, 2016 meeting, the Committee discussed the WCIRB undertaking a study of the potential earthquake exposure in California. At the meeting, the Committee noted that it had been a number of years since the WCIRB had updated its projections around statewide earthquake exposure and there have been significant enhancements in catastrophe modeling since that time. The Committee also noted that while individual insurers have their own processes to evaluate earthquake exposure, a WCIRB published analysis of the statewide earthquake exposure in California could help inform system stakeholders as to this potential exposure. The study was authorized by the Governing Committee at their meeting of April 5, 2017.

The WCIRB contracted with Risk Management Solutions (RMS), a leading catastrophe risk modeling firm, to conduct an analysis of potential statewide workers' compensation exposure arising from earthquakes. Classification exposures by location information underlying the study was provided by the WCIRB based on the information used in its studies of regional differences in frequency and severity.

Representatives of RMS will present their study findings at the meeting.

## Item AC17-12-05

Potential 2018 Actuarial and Research Study Projects

Potential actuarial and medical research studies under consideration for 2018 are shown below. Also shown for each potential study is staff's assessment of the current status of the study. Committee input is being solicited as to the completeness and relative priority of these potential studies.

## A. Studies/Projects Arising Out of California Department of Insurance (CDI) Directives

1. Industry Average Rates. In the CDI Decision on the January 1, 2011 Pure Premium Rate Filing as modified by the Commissioner's June 21, 2011 directive, the WCIRB was directed to include information on industry average filed and charged rates in WCIRB pure premium rate filings.

Project Status: In response to the CDI directive, in 2011, the WCIRB developed a process to compute industry average filed rates by classification with respect to the January 1, 2012 Pure Premium Rate Filing. In 2013, the WCIRB, in consultation with the CDI, developed an alternative simplified process to be used for potential mid-year filings that produced January 1 average insurer rate estimates of comparable accuracy to the more comprehensive process. As in the last several years, staff anticipates using the simplified process to determine industry average rates as of January 1, 2018 for purpose of a potential July 1, 2018 Pure Premium Rate Filing and the comprehensive process to compute industry average filed rates as of July 1, 2018 for purposes of the January 1, 2019 Pure Premium Rate Filing.
2. Adjusted Incurred Loss Development Methodology. In the decisions on the July 1, 2017 and January 1, 2018 Pure Premium Rate Filings, the CDI recommended the WCIRB to review the underlying assumptions of the adjusted incurred loss development methodology.

Project Status: Staff anticipates undertaking a comprehensive review of the assumptions underlying the case reserve-adjusted incurred loss development methodology that has been used in providing alternative loss development projections as part of the WCIRB's pure premium rate filing materials. Staff anticipates completing this analysis for Actuarial Committee's review by the third quarter of 2018 for consideration of the January 1, 2019 Pure Premium Rate Filing.
3. Unallocated Loss Adjustment Expenses (ULAE) Apportionment to California. In the decision on the January 1, 2018 Pure Premium Rate Filing, the CDI directed the WCIRB to continue its analysis of the appropriate basis to apportion countrywide ULAE to California and relied in part on the expected results of that analysis in the advisory pure premium rate level decision.

Project Status: At the September 5, 2017 meeting, the Actuarial Committee adopted changes to the WCIRB's annual Expense Call to collect open indemnity claim count information. This information will facilitate a new method of apportioning countrywide ULAE to California, which should better reflect the longer duration of claims in California than did paid losses. Staff anticipates compiling this information for the 2017 calendar year in the second quarter of 2018 and presenting it to the Actuarial Committee in the third quarter of 2018 for consideration of the January 1, 2019 Pure Premium Rate Filing
4. Indemnity Claim Frequency Model. In the CDI Decision on the January 1, 2017 Pure Premium Rate Filing, the CDI recommended that the WCIRB review its frequency projection model in light of the continued increases in indemnity claim frequency.

Project Status: The WCIRB regularly reviews its frequency projection model and has made a number of enhancements over the years. In 2017, staff continued its review of the model parameters including consideration of a time-series approach with the Actuarial Research Working Group (ARWG). Staff anticipates continuing this work in 2018 with any recommendation for change presented to the to the Actuarial Committee in the third quarter of 2018 for consideration of the January 1, 2019 Pure Premium Rate Filing
5. Terrorism Data Reporting. In 2016 and 2017, the CDI directed staff to provide information to both the National Association of Insurance Commissioners (NAIC) and the Federal Insurance Office (FIO) related to terrorism exposure in California workers' compensation.

Project Status: In early 2017, the WCIRB issued a special call related to terrorism premium and based on that information and data already collected via unit statistical reports provided the information requested by the NAIC on terrorism charges by insurer on a confidential basis in July of 2017. Also in 2017, the staff worked with FIO, NCCI and ISO, who is collecting the terrorism data on behalf of the FIO, to finalize the workers' compensation terrorism data reporting structure for information submitted to the FIO. In accordance with that structure and FIO requirements, staff provided the FIO, on a confidential basis, terrorism premium and exposure information by insurer group in September of 2017. The NAIC and the FIO have requested similar information to be provided in early 2018. As a result, staff anticipates providing the annual update to that information in the first and second quarters of 2018.

## B. Studies/Projects Directed by Legislation

1. Statewide Paid Costs. Section 11759.1 of the Insurance Code requires the WCIRB to report annually on workers' compensation costs paid during the preceding calendar year. The 2017 calendar year report is required to be completed by June of 2018.

Project Status: Staff anticipates publishing the report by the end of the second quarter of 2018. In addition, as in the last several years, staff anticipates compiling information from this report and other WCIRB reports into a high-level "executive summary" of the state of the California workers' compensation system to be published by the third quarter of 2018.
2. Policyholder Dividends. Section 11739 of the Insurance Code requires the WCIRB to collect information on policyholder dividends in California and prepare an annual report to the Insurance Commissioner.

Project Status: Staff anticipates providing the report to the CDI by the third quarter of 2018.

## C. Cost Impact of Legislative Changes

1. SB 863 Cost Monitoring. SB 863 was enacted in 2012 and included a number of reform provisions related to the California benefit delivery system. In March of 2013, the WCIRB submitted a comprehensive plan to the CDI to monitor the emerging costs related to SB 863. The WCIRB's fourth and final comprehensive retrospective cost evaluation of SB 863 was published on November 17, 2016.

Project Status: While the final comprehensive SB 863 monitoring report was published in 2016, at the November 8, 2016 joint Actuarial Committee and Claims Working Group meeting, it was agreed that staff will prepare summaries of the key elements of SB 863 that are still emerging, such as the phased-in changes to the physician fee schedule to a Resource-Based Relative Value Scale (RBRVS) basis. Staff is presenting a summary of updated SB 863 cost monitoring information at the December 6, 2017 Actuarial Committee
meeting. The 2018 follow-up on any outstanding SB 863 issues, such as the changes related to the permanent disability add-ons, will be summarized and presented to the Actuarial Committee by the fourth quarter of 2018.
2. Review of SB 863 Ratemaking Adjustments. The WCIRB's initial evaluations of SB 863 included estimates to several impacted system components that were in part based on judgmental assumptions that may or may not materialize. These estimates were reflected in the on-leveling adjustments reflected in the January 1, 2013 and subsequent pure premium rate filings.

Project Status: The WCIRB adjusts on-level factors based on differences in emerging experience from that reflected in the WCIRB's initial SB 863 projections as part of the pure premium rate filing process. Staff anticipates updating the on-level adjustments based on the latest SB 863 cost monitoring information for the review of the Actuarial Committee in the first quarter of 2018 in consideration of a potential July 1, 2018 Pure Premium Rate Filing. In addition, given that it is more than five years since SB 863 was enacted, staff anticipates reviewing the continued efficacy of further SB 863 adjustments, including those related to loss development, with the Actuarial Committee in the third quarter of 2018 in consideration of the January 1, 2019 Pure Premium Rate Filing.
3. Additional SB 863 Fee Schedules. SB 863 provides for new fee schedules for interpreter, copy and home health services to be promulgated.

Project Status: The Division of Workers' Compensation (DWC) promulgated a schedule for copy services effective July 1, 2015. The Actuarial Committee reviewed the impact of this schedule in the second quarter of 2015 and agreed that no prospective pure premium rate adjustment was appropriate. At this time, the DWC has not promulgated final schedules for interpreter and home health services. If either of those fee schedules are finalized, working with the Claims Working Group, Medical Analytics Working Group and Actuarial Committee, staff anticipates completing its analysis of the pure premium rate impact of the new fee schedules within 120 days of the final values being promulgated.
4. Drug Formulary. Assembly Bill No. 1124 requires the DWC to establish a formulary for prescription medications.

Project Status: On October 23, 2017, the DWC submitted a final drug formulary to the Office of Administrative Law for approval to be effective January 1, 2018. A preliminary assessment of the proposed formulary will be presented to the Actuarial Committee at the meeting of December 6, 2017. Working with the Medical Analytics Working Group and Actuarial Committee, staff anticipates completing its analysis of the pure premium rate impact of the new formulary in the first quarter of 2018 for consideration of a potential July 1, 2018 Pure Premium Rate Filing. Additionally, staff anticipates completing a preliminary review of the retrospective impact of the new formulary based on transactions through the second quarter of 2018 for review of the Actuarial Committee in the fourth quarter of 2018.
5. Impact of Senate Bill No. 1160 (SB 1160) and Assembly Bill No. 1244 (AB 1244). SB 1160 and AB 1244 were signed into law on September 30, 2016. Primarily, SB 1160 restricts utilization review within the first 30 days of treatment on injuries occurring on or after January 1, 2018 and SB 1160 and AB 1244 include a number of provisions related to liens. The WCIRB's cost evaluation of SB 1160 and AB 1244 as approved by the Actuarial Committee at the September 6, 2016 meeting was reflected in the WCIRB's Amended January 1, 2017, July 1, 2017 and January 1, 2018 Pure Premium Rate Filings.

Project Status: The CDI decision on the January 1, 2018 Pure Premium Rate Filing attributed greater savings than reflected in the WCIRB filing to the lien provisions of

SB 1160 and AB 1244 based on lien filing counts through the third quarter of 2017. Staff anticipates continuing to review the number of liens filed on a quarterly basis. Staff anticipates reviewing the cost estimates reflected in the WCIRB's pure premium rate filing for SB 1160 and AB 1244 including the potential impact of the dismissal of existing liens on loss development in the first quarter of 2018 in consideration of a potential July 1, 2018 Pure Premium Rate Filing. The potential impact of the SB 1160 restrictions on utilization review within the first 30 days on the level of medical services provided will be reviewed in the fourth quarter of 2018 based on medical transaction data through June 30, 2018.

## D. Other Studies Directly Impacting Pure Premium Rates and Rate Level Projections

1. Classification Ratemaking Methodologies. In adopting new loss development groupings for classification relativities at the September 8, 2010 meeting, the Actuarial Committee also recommended several areas of additional actuarial research.

Project Status: Refinements to the loss development process for classification relativities and other refinements that were approved at the April 2, 2012 meeting were implemented in 2013 and reflected in the January 1, 2014 Pure Premium Rate Filing. In 2014, staff began a multi-year study of stochastic loss development, as used in loss development for the advisory retrospective rating plan values, for classification ratemaking and presented the analysis at the December 3, 2014 Actuarial Committee meeting. At the December 3, 2014 meeting, the Committee agreed that a stochastic approach for classification relativity loss development is promising but requires significant additional study. Staff doesn't anticipate further work on this topic in 2018.
2. Study of Dual Wage Thresholds. At the June 15, 2016 meeting, the Classification and Rating Committee discussed the analysis of all sixteen dual wage classification thresholds scheduled for 2017 in preparation for the January 1, 2018 Regulatory Filing. The Committee concurred with staff's recommendation for the 2017 analysis that includes an analytical review of all dual wage classification thresholds using unit statistical data and external wage data from published governmental sources.

Project Status: At the April 25, 2017 and June 1, 2017 meetings, the Classification and Rating Committee adopted staff's recommendations for dual wage threshold adjustments based on the new methodology and those recommendations were included in the January 1, 2018 Regulatory Filing and adopted by the CDI. However, given anomalies in the analysis of the dual wage information for the Glaziers dual wage classifications, the Classification and Rating Committee adopted staff's recommendation that an in-depth study be completed of the Glaziers dual wage classifications. Staff anticipates completing this study for the Classification and Rating Committee's review in the second quarter of 2018 in preparation for the January 1, 2019 Regulatory Filing.
3. Expansion of Payroll Limits for Additional Classifications. At the March 21, 2017 meeting, the Actuarial Committee reviewed the summary of the February 17, 2017 meeting of the Actuarial Research Working Group (ARWG) which discussed claim costs by wage level interval. During the meeting, it was noted that the data suggested that severity costs increased to a point, then leveled off at the state average annual salary, while total costs per $\$ 100$ of payroll declined at high levels of wages. Given this, it was noted that staff planned to explore expanding the number of classifications subject to an employee annual payroll limitation.

Project Status: Staff is analyzing the feasibility of limiting the payroll in four additional classifications to the annual wage limitation currently used for executive officers, partners and individual employers as well as several athletic and entertainment classifications ( $\$ 128,700$ in 2018). Staff anticipates completing this study, including recommended advisory
pure premium rate adjustments for the Classification and Rating and Actuarial Committees' review in the second quarter of 2018 in preparation for the January 1, 2019 Regulatory Filing.
4. Study of Alternative Loss Trending Methodologies. At the August 2,2017 meeting, the Actuarial Committee reviewed a retrospective analysis of alternative loss trending methodologies in which it was noted that methods based on trending from the latest year generally outperformed the comparable methods based on trending from the latest two years. The Committee recommended that the feasibility of basing the trend projection solely on the latest year be analyzed.

Project Status: Staff anticipates reviewing the retrospective analysis of the performance of the latest year trending methodology for review of the Actuarial Committee by the first quarter of 2018 in consideration of a potential July 1, 2018 Pure Premium Rate Filing.
5. Review of Medical On-Level Adjustments. Adjusting developed accident year medical loss ratios for the impact of measureable phenomena that impact medical costs such as legislative reforms, fee schedule changes and general medical inflation is a key component of the WCIRB's pure premium ratemaking process. It has been a number of years since the Actuarial Committee has undertaken a comprehensive review of that process.

Project Status: Staff anticipates undertaking a comprehensive review of the on-leveling process for medical losses including the process by which annual changes in Medicare fees are incorporated into the California workers' compensation fee schedules for review of the Actuarial Committee by the fourth quarter of 2018.
6. Study of Loss Development Tail. At the August 2,2017 meeting, the Actuarial Committee reviewed a study of longer-term loss development that focused on the recent volatility in incurred loss development patterns. At that meeting, it was noted that paid loss development patterns fit very well to the inverse power curve that is currently being utilized for incurred loss development.

Project Status: Staff plans to continue to review the tail development methodology with the Actuarial Committee as part of the Committee's regular reviews of loss experience. However, given the commitment to other projects, staff does not anticipate completing an in-depth study of the loss development tail in 2018.
7. Review of ULAE Projection Methodologies. Although the WCIRB has continued to modify the data collected related to ULAE in order to enhance the accuracy of the ULAE projection, a comprehensive review of the ULAE projection methodologies has not been undertaken for some time.

Project Status: Given that the new data related to the ULAE projection is only being collected for calendar year 2017 in early 2018 and the commitment to other projects, staff does not anticipate completing this review in 2018.
E. Other Studies Indirectly Impacting Rate Level Projections

1. Evaluation of the Impact of Fraud Indictments. Efforts by the DWC, CDI, local district attorneys and others that have been successful in identifying and prosecuting fraud have been identified as a significant driver of reduced medical cost trends. At the meeting of December 6, 2016, the Actuarial Committee recommended that staff continue to track the volume of medical services provided in the past by providers who have subsequently been indicted for fraud.

Project Status: At the March 30, 2017 meeting, staff provided the Claims Working Group updated information on the amount of medical costs generated by providers that have been indicted for fraud. Staff anticipates providing an update of this information for review of the Claims Working Group and the Actuarial Committee by the second quarter of 2018.
2. Study of Medicare "Set-asides" (MSAs). At the July 28, 2015 meeting, the Claims Working Group recommended that consideration be given to conducting a more in-depth study of MSAs.

Project Status: At the March 23, 2016 meeting, the Claims Working Group discussed a potential study on the cost of MSAs that provided additional information on the frequency in which MSAs are used and the costs involved when MSAs are used. Prior to undertaking a more comprehensive study, the Working Group agreed that staff should compare postsettlement loss development patterns of claims that are settled through a compromise and release (C\&R), which includes a settlement component for future medical losses, with those settled through a stipulated award.

The Claims Working Group and Actuarial Committee reviewed the development differences between C\&R settled claims and stipulated award settled claims at the November 8, 2016 meeting. At the March 30, 2017 meeting, the Claims Working Group suggested that any further study of the issue be deferred pending ongoing research by other organizations. Staff doesn't anticipate further work on this issue in 2018.
3. Impact of the Affordable Care Act (ACA) on Workers' Compensation Costs. The ACA has fundamentally altered the healthcare delivery system in the United States and may have significant impact on workers' compensation medical costs in California. At the October 1, 2013 meeting, the Medical Analytics Working Group discussed various ways to assess the ACA impact on California workers' compensation costs in the future when sufficient post-ACA experience is available.

Project Status: At the December 6, 2016 Actuarial Committee meeting, the Actuarial Committee noted that sufficient time has elapsed with enough additional workers covered in California to conduct an initial evaluation of potential impacts along the criteria identified in 2013. Staff is in the process of completing this study and anticipates publishing an analysis of the potential ACA impacts on California workers compensation by the first quarter of 2018.
4. Analysis of Cumulative Injury Claims. Recent Actuarial Committee analyses of claim frequency changes have indicated that cumulative injury claims are an increasingly significant component of the changes and are continuing to increase.

Project Status: Staff anticipates completing a comprehensive study of the various characteristics of cumulative injury claims and their impact on various statewide measures for review of the Actuarial Committee by the third quarter of 2018.
5. Analysis of Factors Driving California Medical Payout Pattern. Staff analysis has shown that the very slow rate of medical loss payouts is one of the key contributing factors to the high medical costs in California.

Project Status: Staff published a comprehensive analysis of the factors driving the medical loss payout pattern in California and how those patterns differ from patterns in other states on July 8, 2015. While not planning a major update to the report in 2018, staff anticipates updating some of the key comparisons of California to the rest of the country with respect to medical payouts in the second quarter of 2018.
6. Physical Medicine Analysis. At the October 3, 2017 meeting, the Medical Analytics Working Group recommended that given increases in the cost of physical medicine and the potential for physical medicine to be used in lieu of opioid prescriptions, staff consider a comprehensive study of physical medicine costs.

Project Status: Staff anticipates completing a comprehensive analysis of physical medicine utilization and costs in California by the second quarter of 2018.
7. Analysis of Medical-Legal Costs. At the August 2, 2017 meeting, the Actuarial Committee noted that unlike many other medical-related costs, the cost of medical-legal reports continued to increase sharply despite no change in the medical-legal fee schedule for a number of years. Given this, it was suggested that a comprehensive study of medical legal costs may be appropriate.

Project Status: Staff anticipates completing a comprehensive analysis of medical legal costs by the third quarter of 2018.
8. Analysis of Very Large Claims. The Claims Working Group and Actuarial Committee regularly review the frequency and relative cost of large claims. Given recent trends in medical treatment patterns for severe injuries as well as updated mortality information including that for impaired individuals, it has been suggested that the WCIRB undertake comprehensive analysis of the frequency and characteristics of very large or "jumbo" claims in the California workers' compensation system.

Project Status: Staff anticipates completing a comprehensive study of very large claims including an analysis of their relative frequency, severity, trends, loss development patterns, payment patterns, medical treatment patterns, claimant characteristics, and claim adjudication patterns by the fourth quarter of 2018.

## F. Studies Related to Rating Plans

1. Experience Rating Plan - Small Medical-Only Claims. In the decision on the January 1, 2017 Regulatory Filing, the CDI clarified the requirements related to the reporting of small medical-only or "first aid" claims to specify that all claims with medical costs incurred must be reported. In the decision on the January 1, 2018 Regulatory Filing, the CDI adopted the WCIRB proposed changes to the Experience Rating Plan to be effective January 1, 2019 that provide that the first $\$ 250$ of each claim will not be used in the experience modification computation.

Project Status: In 2018, the WCIRB will be implementing the 2019 changes to the experience rating formula adopted by the CDI and conducting an extensive educational outreach effort to stakeholders on the changes. Staff anticipates providing an initial summary as to how the adopted changes related to small medical-only claims may be impacting claim reporting by the fourth quarter of 2018.
2. Experience Rating Eligibility. At the October 22, 2014 meeting, the Actuarial Research Working Group discussed changes to the experience rating eligibility criteria in light of other changes to the Plan being adopted and noted that staff has not completed a comprehensive review of experience rating eligibility in a number of years.

Project Status: Now that the changes to the experience rating formula to vary the split point by the size of the employer have been implemented and the changes to the formula to address the non-reporting of small medial-only claims have been adopted, staff anticipates completing an initial review of the appropriateness of the current eligibility threshold for review of the Classification and Rating and Actuarial Committees by the fourth quarter of 2018.
3. Development of Experience Rating Expected Loss Rates. The Actuarial Committee annually reviews the WCIRB's methodology to compute the experience rating expected loss rates proposed to the CDI each year. The methodology used for this process was adopted by the Actuarial Committee at the June 11, 2008 meeting.

Project Status: Staff anticipates no further analysis in this area in 2018. However, since it has been almost a decade since a comprehensive review of the methodology has been undertaken, staff anticipates beginning the methodology review process in 2019.
4. Retrospective Rating Plan Values. In 2012, the WCIRB updated the advisory California Retrospective Rating Plan values, including insurance charges and loss elimination ratios, to be effective January 1, 2013.

Project Status: Staff published updated California hazard group classification assignments on a decimal basis and loss and loss and ALAE elimination ratios in the second quarter of 2017. Staff anticipates publishing a full update to the advisory California Retrospective Rating Plan, including updated insurance charges, following review of the Actuarial Research Working Group by the third quarter of 2018.
G. Other Potential Studies

1. Analysis of California Regional Differences. Recent WCIRB analyses of claim frequency, cumulative injuries, liens, and other system components have suggested that there are significant regional differences across California. However, analyses of these differences had been limited by the data the WCIRB had historically collected on location. At the July 25, 2014 meeting, the Actuarial Research Working Group discussed potential alternative sources of geographical information to enhance analyses of regional differences.

Project Status: Staff used a wide range of available information to prepare an analysis of regional differences in components such as frequency, severity and permanent disability patterns. The WCIRB's latest report on regional differences was published on October 19, 2017. Staff anticipates continuing this work in 2018 by also including a focus on regional differences in loss development and frequency and severity differences by industry and diagnostic group with a follow-up report to be published by the fourth quarter of 2018.
2. Wage Data Analysis. Early in 2017, staff developed a comprehensive data cube and wage report for members with detailed information on various wage distributions by industry, classification and occupation as well as other wage related information. The information relates historical and projected wage levels by classification to industries, recognizing differences in payroll exclusions in developing insured exposures and differences in the allocation of standard exception classifications.

Project Status: Staff anticipates updating this wage information based on updated source information and publishing a report on the impact of various local changes in minimum wage levels on exposures and claim costs by the first quarter of 2018.
3. Comparison of Workers' Compensation Medical Costs to Group Health Costs. At the May 27, 2009 meeting, the Claims Working Group suggested that consideration be given to conducting a research study comparing occupational and non-occupational medical treatment cost data for a similar mix of injuries.

Project Status: Staff anticipates no further analysis in this area in 2018.
4. Development of Diagnostic Grouper. The WCIRB has been collecting ICD-9 and now ICD-10 information on each medical transaction since 2012. The Medical Analytics Working Group has suggested that WCIRB medical analytical research as well as WCIRB benchmarking reports provided to members can be significantly enhanced by summarizing information based on groupings of claims by similar diagnoses.

Project Status: Staff anticipates developing by the third quarter of 2018, a diagnostic grouper that will assign claims to diagnostic groups. Diagnostic groups may vary by level of maturity.
5. Aging of the Work Force. This study would quantify the aging of the work force and identify changes in costs - particularly severities - due to this demographic shift. The study would also identify future aging patterns and forecast their impact.

Project Status: Staff completed some preliminary analysis of the impact of aging on claim costs as part of prior frequency studies, but does not anticipate conducting any further analysis in this area in 2018.
6. Terrorism Losses. In early 2003, at the direction of the Governing Committee, the WCIRB contracted with EQECAT to help estimate potential terrorism losses with respect to the Terrorism Risk Insurance Act of 2002. The results of the analysis were published in a March 12, 2003 WCIRB Bulletin.

Project Status: Since the last update was completed in 2003 and the earthquake analysis was recently completed based on exposure information by location provided by staff using the information derived for regional studies, staff is considering updating the study by the fourth quarter of 2018 pending recommendation of the Actuarial and Governing Committees.
7. Earthquake Losses. In July of 2002, EQECAT completed a report estimating the average annual expected costs arising from California earthquakes. In 2003, EQECAT completed a follow-up study to address some of the issues raised by the CDI in reviewing the 2002 study. Based on the results of these studies, the WCIRB included a provision to reflect expected earthquake losses in the January 1, 2004 Pure Premium Rate Filing. In the Decision on that filing, the CDI rejected this provision based on concerns as to the underlying loss distribution projected by the model and the lack of a mechanism to fund the cost of a major earthquake if one were to occur. In 2007, the WCIRB contracted with EQECAT to update the California earthquake studies. The updated report was published in June 2007.

Project Status: At the April 5, 2017 meeting, the Governing Committee authorized the WCIRB to contract with Risk Management Solutions (RMS), a leading catastrophe risk modeling firm, to conduct an analysis of potential statewide workers' compensation exposure arising from earthquakes. The results of the study is scheduled for presentation to the Actuarial Committee at the meeting of December 6, 2017. Depending on Actuarial Committee feedback, additional work on refining cost estimates by classification and region could be completed in 2018.

Actuarial Committee Meeting Agenda for December 6, 2017

## Item AC17-12-06 <br> 2018 Schedule of Meetings

Shown below is a proposed schedule of Actuarial Committee meetings for 2018.

Monday, March 19, 2018

Monday, April 2, 2018
Friday, June 15, 2018
Wednesday, August 1, 2018
Tuesday, September 4, 2018

Wednesday, December 5, 2018


[^0]:    ${ }^{1}$ http://www.labormarketinfo.edd.ca.gov/data/oes-employment-and-wages.html

[^1]:    ${ }^{1}$ A large deductible policy is defined as having a deductible amount per claim or accident of at least $\$ 100,000$.

[^2]:    * Incurred medical loss development factors include the paid cost of medical cost containment programs for accident years 2011 and prior.

[^3]:    * Paid medical loss development factors include the paid cost of medical cost containment programs for accident years 2011 and prior.

[^4]:    * Shown for informational purposes only
    ** Paid medical for accident years 2011 and subsequent exclude the paid cost of medical cost containment programs (MCCP). Paid medical for accident years 2010 and prior include paid MCCP costs.

[^5]:    (a) Estimated ultimate severities for all accident years were derived by dividing ultimate medical losses on indemnity
    claims by ultimate indemnity claim counts.
    (b) Adjustments to accident years 2005 through 2010 based on WCIRB's Annual Calls for Direct California Workers'
    
    Compensation Aggregate Indemnity and Medical Costs.

[^6]:    Source: WCIRB acident year experience calls

[^7]:    ${ }^{1}$ These findings were later published in the WCIRB's Senate Bill No. 863 WCIRB Cost Monitoring Report - 2016 Retrospective Evaluation, released on November 17, 2016.

[^8]:    ${ }^{2}$ In the Decision on the January 1, 2018 Pure Premium Rate Filing, given the lower lien filings emerging through the first three quarters of 2017, the California Department of Insurance reflected a reduction in total costs of $-2.4 \%$ resulting from SB 1160 and AB 1244 compared to the $-0.6 \%$ reflected in the Filing.
    ${ }^{3}$ Lien demands over $\$ 1,000,000$ were excluded in that they likely involved multiple services or were reported in error.

[^9]:    Share of Payments (Service Year 2015)
    

    Source: WCIRB Medical Data Call

[^10]:    * Lien Counts exclude SDI/EDD Liens
    ** Regions reflect the following WCAB Office mapping: Bay Area - Oakland, San Jose, San Francisco; Central Coast/Valley - Bakersfield, Fresno, Goleta, Grover Beach, Salinas, Stockton; Los Angeles County - Long Beach, Los Angeles, Marina Del Rey, Pomona, Van Nuys; Remainder of LA Basin - Anaheim, Oxnard, Riverside, San Bernardino, Santa Ana; Remaining CA Zip Codes - Eureka, Redding, San Luis Obispo, Santa Barbara, Santa Rosa; Sacramento - Sacramento; San Diego County - San Diego
    ***Other includes Attorney Fees, Family Support, Living Expense, PFL, Transport, Wage Replace Liens
    Source: EAMS Liens Data

[^11]:    ${ }^{1}$ http://www.labormarketinfo.edd.ca.gov/data/oes-employment-and-wages.html

