

# **Actuarial Committee**

# **Meeting Agenda**

| Date                 | Time                      | Location                              | Staff Contact                 |
|----------------------|---------------------------|---------------------------------------|-------------------------------|
| April 3, 2018        | 9:30 AM                   | WCIRB California                      | David M. Bellusci             |
|                      |                           | 1221 Broadway, Suite 900              |                               |
|                      |                           | Oakland, CA                           |                               |
| 1221 Broadway, Suite | 900 • Oakland, CA 94612 • | 415.777.0777 • Fax 415.778.7007 • www | w.wcirb.com • wcirb@wcirb.com |

Released: March 27, 2018

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

# I. Approval of Minutes

None

# II. Working Group Meeting Summaries

Medical Analytics Working Group Meeting held March 16, 2018

# III. Unfinished Business

- A. AC17-04-04: New Drug Formulary
- B. AC18-03-02: 12/31/2017 Experience Review of Methodologies

# IV. New Business

- A. AC18-04-01: 12/31/2017 Loss Adjustment Expense Experience Review
- B. AC18-04-02: 12/31/2017 Experience Alternative Loss Projections
- C. AC18-04-03: Impact of the Affordable Care Act on California Workers' Compensation
- D. AC18-04-04: Impact of Medical Fraud Enforcement

# V. Matters Arising at Time of Meeting

- VI. Next Meeting Date: June 15, 2018
- VII. Adjournment

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**Medical Analytics Working Group** 

# **Meeting Summary**

To: Participants of the Medical Analytics Working Group Date: March 23, 2018

# RE: Summary of March 16, 2018 Meeting

# Insurer Meeting Participants Were Reminded of the Antitrust Notice

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#### **Discussion Topics**

At the meeting, the following topics were discussed.

#### 1. Update on WCIRB Study on Chronic Opioid Use

Staff provided a brief update on the recently released WCIRB *Study on Chronic Opioid Use and Weaning in California Workers' Compensation*, that included the revisions and added analytical pieces based on the discussion at the Working Group meeting in October 2017. The Working Group discussed several potential follow-up analyses related to the study. Several members suggested examining the trend in use of opioids early in the life of a claim including early indications for chronic opioid use (e.g., continued use of opioids for 7 days and 31 days) to identify the treatments that may be being used to help prevent claims from high and chronic opioid use. A Member also suggested an analysis of the use of short-term cognitive behavioral therapies or other treatments shortly after a claimant becomes a chronic opioid user. A Member also suggested investigating possibilities of identifying claims with high risks of overdose from opioids, and reviewing the co-prescribing of opioids and suboxone (a treatment for reducing opioid addiction). Staff agreed to provide a plan for a followup opioid study for the Working Group to review.

# 2. Impact of the ACA on California Workers' Compensation Costs

Staff presented the preliminary findings of its Affordable Care Act (ACA) impact analysis included in the meeting materials. The Working Group provided several suggestions. First, a Member suggested re-examining the time from accident date to first physician visit excluding cumulative injury claims since those are often reported well after their assigned injury date. Second, a Member suggested

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comparing claims with soft tissue injuries in the 4<sup>th</sup> quarter to those in the 1<sup>st</sup> quarter between AY2013 and AY2015 to assess whether there were some seasonality impacts related to group health deductible plans. Finally, a Member suggested comparing use of some drug classes likely impacted by the availability of group health coverage reimbursements in the 4<sup>th</sup> quarter and 1<sup>st</sup> quarter between AY2013 and AY2015. Staff agreed to consider the Group's input in the finalized report or subsequent analysis as appropriate.

# 3. Cost Impact of the MTUS Drug Formulary

Staff presented its preliminary analysis on the cost impact of the Medical Treatment Utilization Schedule (MTUS) drug formulary including the impact on frictional costs and pharmaceutical costs. For the impact analysis on frictional costs, the Working Group provided feedback on the share of the pharmaceutical utilization review (UR). The California Workers' Compensation Institute representative advised that their preliminary analysis suggested about 60% of the exempt drugs would be coprescribed with non-exempt drugs, leading to less cost savings than initially forecast resulting from the elimination of prospective UR on exempt drugs. The Working Group also discussed different types of UR being done on exempt drugs and noted that only the elimination of UR on exempt drugs that involved "elevated" UR involving a physician would result in significant cost savings. Finally, a Member noted that, at least temporarily, there could be an increase in UR due to the requirement related to 45-day reports on the continued use of non-exempt and non-listed drugs. Staff agreed to review the preliminary projection of the formulary's cost impact on frictional costs in light of the Working Group discussion.

The Working Group next discussed the potential impact of the new formulary on pharmaceutical costs. A Member suggested reviewing the share of prescriptions on opioids, compounds, physiciandispensed drugs, and generic vs. brand name drugs to better understand changes in the share of each drug components' payments to the total payments. Specifically, the Working Group suggested WCIRB staff provide more clarification on physician-dispensed drugs subject to UR and on the reduction in the share of total drug payments on generic drugs between 1<sup>st</sup> quarter and 2<sup>nd</sup> quarter of 2016. A Member suggested that the decrease in the share of payments for generics in 2016 was the result of changes in the pharmaceutical fee schedule for certain generic drugs (i.e., Upper Federal Limit prices that reduced the maximum amount paid for many generic drugs) in April 2016.

Staff summarized the assumptions used in the RAND study that estimated the economic impact of the drug formulary, and solicited feedback from the Working Group on the validity and reasonableness of the assumptions. In general, the Working Group did not believe that any prescriptions, either of physician-dispensed drugs subject to UR or of non-exempt and unlisted drugs that were assumed to be eliminated would in fact be eliminated under the formulary. Conversely, the Working Group suggested there could be a larger share (more than 60%) of drugs subject to UR transitioning to pharmacy dispensing and a larger share (more than 50%) of brand names for which generic equivalents are available for transitioning to generics. The Working Group was also generally comfortable with the RAND study's assumed reduction in compounds, and generally agreed with the assumed increase in exempt drug prescriptions. The Working Group was generally comfortable with the estimated reduction in opioid payments, although noting that it would be difficult to attribute the decline solely to the drug formulary given a variety of other factors that are contributing to the steady decline in opioid use.

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Staff agreed to share the Working Group's input with the Actuarial Committee for their consideration of the impact of the new formulary on the costs underlying the advisory pure premium rates.

# 4. Impact of Medical Fraud Enforcement on California Workers' Compensation Costs

Staff presented the impact of indicted/suspended medical providers on historical California workers' compensation costs using the latest published list of indicted/suspended providers by the Division of Workers' Compensation (DWC). The Working Group suggested identifying the date of notice and comparing the level of services provided by these fraudulent providers one year before and one year after the notice of indictment/suspension. Staff agreed to consider refining the analysis in future updates to the extent the notice dates were reasonably available.

# 5. Update on SB 863 Impacts

Staff presented to the Working Group the updates on the impacts of Senate Bill No. 863 (SB 863) using updated transaction data through the 2<sup>nd</sup> quarter of 2017 with different levels of maturity.

# 6. Potential Future WCIRB Medical Analytics Research

The Working Group discussed potential future WCIRB Medical Analytics research topics. In addition to the follow-up analysis on claims with opioid use, a Member suggested reviewing Physical Medicine patterns in greater detail, in particular with respect to the restrictions on utilization review in the first 30 days from the injury beginning with injuries occurring on or after January 1, 2017 that was enacted by Senate Bill No. 1160.

# Item AC17-04-04 New Drug Formulary

At the March 19, 2017 meeting, the Committee reviewed a preliminary analysis of the potential impact of the new drug formulary on system costs. An update to the analysis will be presented at the meeting.

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

At the March 19, 2018 meeting, the Committee reviewed a preliminary summary of accident year experience through December 31, 2017. Exhibits 1 through 8 provide an updated analysis of December 31, 2017 experience. In total, approximately 100% of the market is included. The loss projection methodologies are generally consistent with those reflected in the analysis presented at the March 19, 2018 meeting but also include the updated wage on-leveling methodology to blend the UCLA and California Department of Finance wage level forecasts adopted by the Committee at that meeting. The loss development projection also includes the adjustments to paid medical loss development for the impact of Senate Bill No. 1160 (SB 1160) and Assembly Bill No. 1244 (AB 1244) recommended by staff and accepted by the Committee at the March 19, 2018 meeting. Wage and loss levels are projected to April 1, 2019—the approximate midpoint of experience on policies incepting during the period from July 1, 2018 through December 31, 2018. For consistency, premiums have been on-leveled to the July 1, 2017 industry average filed pure premium rate level.<sup>1</sup> Other changes from the analysis presented at the March 19, 2018 meeting include revisions to insurer data submissions and updated on-level adjustments to reflect the portion of the impact of SB 1160 and AB 1244 that are not reflected in the adjustments to loss development discussed above.

As shown on Exhibit 8, based on December 31, 2017 accident year experience, the projected loss ratio for policies incepting during the period from July 1, 2018 through December 31, 2018 is 0.581. (This compares to 0.591 presented at the March 19, 2018 meeting and 0.641 reflected in the Amended January 1, 2018 Pure Premium Rate Filing.)

Exhibits 9 through 12 include supplemental information based on December 31, 2017 experience.

<sup>&</sup>lt;sup>1</sup> In a potential mid-year filing, premiums will be on-leveled to the January 1, 2018 industry average filed pure premium rate level.

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

|      | Earned         | Paid          | Indemnity   | Paid          | Medical       |               | Total          | Loss   |
|------|----------------|---------------|-------------|---------------|---------------|---------------|----------------|--------|
| Year | Premium        | Indemnity     | Reserves    | Medical**     | Reserves      | IBNR*         | Incurred**     | Ratio* |
| 1985 | 2,872,481,605  | 1,278,631,775 | 3,801,318   | 985,105,548   | 20,819,278    | 15,785,684    | 2,304,143,603  | 0.802  |
| 1986 | 3,506,609,097  | 1,382,498,583 | 4,921,029   | 1,136,208,586 | 30,611,739    | 18,656,714    | 2,572,896,651  | 0.734  |
| 1987 | 4,374,085,383  | 1,504,454,210 | 7,343,851   | 1,327,185,475 | 44,615,546    | 62,218,724    | 2,945,817,806  | 0.673  |
| 1988 | 5,173,049,472  | 1,701,585,119 | 7,264,460   | 1,531,873,403 | 42,714,474    | 39,723,244    | 3,323,160,700  | 0.642  |
| 1989 | 5,674,529,942  | 1,937,265,938 | 8,699,942   | 1,786,669,698 | 60,106,713    | 38,650,212    | 3,831,392,503  | 0.675  |
| 1990 | 5,698,665,461  | 2,254,587,062 | 8,772,390   | 2,032,192,596 | 59,311,213    | 63,414,179    | 4,418,277,440  | 0.775  |
| 1991 | 5,863,319,243  | 2,469,914,939 | 17,219,332  | 2,183,376,707 | 67,884,160    | 61,120,394    | 4,799,515,532  | 0.819  |
| 1992 | 5,681,466,382  | 1,971,255,132 | 13,865,986  | 1,747,340,284 | 68,636,833    | 62,404,035    | 3,863,502,270  | 0.680  |
| 1993 | 5,928,480,359  | 1,689,085,606 | 15,079,809  | 1,495,940,715 | 86,686,628    | 49,241,692    | 3,336,034,450  | 0.563  |
| 1994 | 5,022,749,028  | 1,621,495,191 | 21,086,862  | 1,453,280,447 | 92,554,341    | 53,579,574    | 3,241,996,415  | 0.645  |
| 1995 | 3,778,975,599  | 1,754,822,231 | 31,920,000  | 1,596,765,676 | 118,162,413   | 63,096,953    | 3,564,767,273  | 0.943  |
| 1996 | 3,736,857,547  | 1,939,382,391 | 38,810,192  | 1,686,732,199 | 131,003,164   | 76,263,256    | 3,872,191,202  | 1.036  |
| 1997 | 3,916,944,392  | 2,298,635,565 | 47,188,277  | 1,981,090,256 | 154,785,111   | 114,967,332   | 4,596,666,541  | 1.174  |
| 1998 | 4,322,051,270  | 2,750,762,041 | 61,269,775  | 2,593,745,499 | 247,950,610   | 206,463,755   | 5,860,191,680  | 1.356  |
| 1999 | 4,537,629,086  | 3,028,102,322 | 59,652,249  | 2,975,488,834 | 220,192,136   | 286,445,717   | 6,569,881,258  | 1.448  |
| 2000 | 5,905,419,052  | 3,392,132,457 | 84,312,884  | 3,498,395,467 | 270,510,971   | 410,174,792   | 7,655,526,571  | 1.296  |
| 2001 | 10,094,684,192 | 4,785,949,210 | 130,999,900 | 5,249,256,619 | 443,963,780   | 657,070,696   | 11,267,240,205 | 1.116  |
| 2002 | 13,405,893,679 | 4,713,736,453 | 121,850,957 | 5,367,039,779 | 412,537,196   | 906,799,196   | 11,521,963,581 | 0.859  |
| 2003 | 19,429,675,115 | 4,471,449,092 | 179,456,688 | 4,928,233,010 | 424,521,064   | 1,300,584,324 | 11,304,244,178 | 0.582  |
| 2004 | 23,043,963,090 | 3,147,857,461 | 151,935,456 | 3,942,843,073 | 377,384,793   | 1,407,923,498 | 9,027,944,281  | 0.392  |
| 2005 | 21,350,709,483 | 2,472,289,457 | 137,431,011 | 3,535,855,543 | 367,121,182   | 1,172,421,175 | 7,685,118,368  | 0.360  |
| 2006 | 17,205,061,787 | 2,550,987,645 | 150,917,654 | 3,633,158,625 | 380,718,457   | 831,837,952   | 7,547,620,333  | 0.439  |
| 2007 | 13,252,379,499 | 2,669,456,070 | 170,067,245 | 3,869,472,966 | 464,412,110   | 802,629,509   | 7,976,037,900  | 0.602  |
| 2008 | 10,744,360,124 | 2,705,586,885 | 196,231,383 | 3,862,354,229 | 460,978,782   | 639,134,624   | 7,864,285,903  | 0.732  |
| 2009 | 8,877,640,496  | 2,556,087,276 | 201,523,415 | 3,641,128,559 | 459,244,518   | 650,643,303   | 7,508,627,071  | 0.846  |
| 2010 | 9,398,228,398  | 2,556,139,899 | 207,238,245 | 3,697,701,474 | 446,921,241   | 763,312,194   | 7,671,313,053  | 0.816  |
| 2011 | 10,129,285,077 | 2,474,957,007 | 245,360,689 | 3,291,858,941 | 525,390,588   | 996,030,647   | 7,533,597,872  | 0.744  |
| 2012 | 11,692,134,220 | 2,455,962,956 | 302,191,596 | 3,113,269,120 | 581,852,175   | 1,244,425,871 | 7,697,701,718  | 0.658  |
| 2013 | 14,149,827,161 | 2,403,972,386 | 353,527,596 | 2,869,565,292 | 655,195,426   | 2,492,905,327 | 8,775,166,027  | 0.620  |
| 2014 | 15,997,914,039 | 2,303,771,294 | 515,516,365 | 2,585,101,891 | 804,044,607   | 3,256,521,854 | 9,464,956,011  | 0.592  |
| 2015 | 17,064,067,844 | 1,968,007,624 | 737,146,391 | 2,181,815,253 | 1,088,273,718 | 4,347,526,049 | 10,322,769,035 | 0.605  |
| 2016 | 17,954,631,227 | 1,268,323,266 | 917,151,474 | 1,582,428,381 | 1,347,318,728 | 5,386,731,864 | 10,501,953,713 | 0.585  |
| 2017 | 17,651,880,283 | 411,116,129   | 766,616,762 | 693,562,149   | 1,386,625,772 | 7,546,261,367 | 10,804,182,179 | 0.612  |
|      |                |               |             |               |               |               |                |        |

\* Shown for informational purposes only.

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

Source: WCIRB quarterly experience calls

| 204/192<br>0.999<br>0.999<br>1.000<br>1.000<br>1.002<br>1.002<br>1.002   | 1.001                      |   |
|--|----------------------------|---|
| 192/180<br>0.998<br>1.000<br>1.002<br>1.002<br>1.002<br>1.003<br>1.003   | 1.002<br>1.013             | actors.   |
| 180/168<br>0.997<br>1.002<br>1.002<br>1.002<br>1.002<br>1.002<br>1.002   | 1.002                      | e-to-age fa   |
| 168/156<br>1.000<br>1.000<br>1.003<br>1.003<br>1.003<br>1.003<br>1.003<br>1.003  | 1.002                      | equent ag   |
| 156/144<br>1.000<br>1.003<br>1.003<br>1.003<br>1.003<br>1.003<br>1.003<br>1.003  | 1.004                      | the subse   |
| 144/132<br>1.002<br>1.005<br>1.005<br>1.005<br>1.005<br>1.005<br>1.005<br>1.005  | 1.006<br>1.027             | /erage for  |
| (in months)<br>120/108 132/120<br>1.007 1.004<br>1.006 1.007<br>1.016 1.007<br>1.016 1.007<br>1.014 1.009<br>1.011 1.006<br>1.011 1.006<br>1.007<br>1.011 1.006<br>1.007<br>1.009  | 1.007<br>1.034             | six-year av   |
| Age-to-Age (in months)<br>108/96 120/108 1<br>1.007 1.004<br>1.016 1.016<br>1.015 1.016<br>1.015 1.015<br>1.015 1.013<br>1.015 1.009<br>1.012 1.011<br>1.012 1.009<br>1.012 1.009<br>1.012 1.009<br>1.012 1.009<br>1.014 | 1.012<br>1.046             | tors and s  |
| 9e-to-Age<br>108/96<br>1.010<br>1.015<br>1.016<br>1.015<br>1.015<br>1.012<br>1.012<br>1.012  | 1.014                      | month fac   |
| Ac<br>96/84<br>1.014<br>1.018<br>1.028<br>1.028<br>1.028<br>1.019<br>1.019<br>1.019  | 1.016<br>1.078             | )6-to-108   |
| 84/72<br>1.018<br>1.021<br>1.026<br>1.035<br>1.037<br>1.037<br>1.026<br>1.026  | 1.022                      | through §   |
| 72/60<br>1.033<br>1.041<br>1.053<br>1.045<br>1.045<br>1.045<br>1.045<br>1.045<br>1.045   | 1.041<br>1.146             | -24 month   |
| 60/48<br>1.042<br>1.068<br>1.076<br>1.076<br>1.076<br>1.076<br>1.063<br>1.063  | 1.054<br>1.208             | the 12-to-  |
| 48/36         1.098         1.111         1.112         1.133         1.112         1.115  | 1.115<br>1.347             | st year for   |
| 36/24<br>3.6/24<br>1.247<br>1.273<br>1.273<br>1.273<br>1.273<br>1.273<br>1.273<br>1.273<br>1.273<br>1.273<br>1.273   | 1.261<br>1.699             | s are lates   |
| 24/12<br>24/12<br>1.784<br>1.992<br>1.992<br>1.992<br>1.969<br>1.960   | 1.943<br>3.301             | (a) Selections are latest year for the 12-to-24 month through 96-to-108 month factors and six-year average for the subsequent age-to-age factors. |
| Accident Year<br>1992<br>1995<br>1996<br>1996<br>1996<br>1996<br>1999<br>2001<br>2002<br>2003<br>2005<br>2005<br>2005<br>2005<br>2005<br>2013<br>2013<br>2015<br>2013<br>2015<br>2015                                    | Selected (a)<br>Cumulative | (a)   |

Incurred Indemnity Loss Development Factors

III-B-2 WCIRB California®

|                        | <u> ULT/396Inc (b)</u>       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |              | 1.003                      | The ULT/396Inc tail factor was calculated based on an inverse power curve fit to a six-year average of the 108-to-120 through 348-to-360 factors, excluding the most recent evaluation, and extrapolated to 80 development years. |
|------------------------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|----------------------------|---|
|                        | 396/384                      | 1.000 | 1.000 | 1.000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |              | 1.003                      | most recer  |
|                        | 384/372                      | 1.001 | 0.999 | 1.000 | 1.000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |              | 1.003                      | cluding the   |
|                        | 372/360                      | 1.001 | 1.000 | 1.000 | 1.000 | 1.001 |       |       |       |       |       |       |       |       |       |       |       |       |       |              | 1.003                      | factors, ex   |
|                        | <u>360/348</u><br>1.001      | 1.001 | 1.001 | 1.001 | 0.999 | 1.001 | 1.000 |       |       |       |       |       |       |       |       |       |       |       |       | 100          | 1.004                      | 348-to-360  |
|                        | <u>348/336</u><br>1.001      | 1.001 | 1.001 | 1.001 | 1.000 | 1.001 | 1.000 | 1.000 |       |       |       |       |       |       |       |       |       |       |       | 100          | 1.004                      | 0 through 3   |
|                        | <u>336/324</u><br>1.000      | 1.001 | 1.000 | 1.001 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 |       |       |       |       |       |       |       |       |       |       | 100 1        | 1.005                      | 108-to-12   |
| (months                | <u>324/312</u><br>1.002      | 1.000 | 1.001 | 1.001 | 1.002 | 1.000 | 1.000 | 1.001 | 1.000 | 1.000 |       |       |       |       |       |       |       |       |       | 100 1        | 1.005                      | rage of the   |
| Age-to-Age (in months) | 312/300                      | 1.000 | 1.001 | 1.000 | 1.001 | 1.002 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |       |       |       |       |       |       |       |       |              | 1.006                      | x-year ave  |
| Age                    | 300/288                      |       | 1.000 | 1.001 | 1.000 | 1.001 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |       |       |       |       |       |       |       |              | 1.006                      | e fit to a si   |
|                        | 288/276                      |       |       | 1.000 | 1.001 | 1.000 | 1.002 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.999 |       |       |       |       |       |       |              | 1.006                      | oower curv  |
|                        | 276/264                      |       |       |       | 1.001 | 1.000 | 1.001 | 1.001 | 1.000 | 1.000 | 1.001 | 1.000 | 1.001 | 1.001 |       |       |       |       |       | 100 1        | 1.006                      | un inverse  |
|                        | 264/252                      |       |       |       |       | 0.999 | 1.000 | 1.000 | 1.001 | 1.000 | 1.001 | 1.001 | 1.001 | 1.000 | 1.001 |       |       |       |       | 100          | 1.007                      | oased on a  |
|                        | 252/240                      |       |       |       |       |       | 1.001 | 1.001 | 0.999 | 1.000 | 1.000 | 1.001 | 1.000 | 1.001 | 1.000 | 1.000 |       |       |       |              | 1.007                      | calculated I<br>nent years  |
|                        | 240/228                      |       |       |       |       |       |       | 1.000 | 1.000 | 1.001 | 1.001 | 1.001 | 1.002 | 0.998 | 1.000 | 1.000 | 1.001 |       |       |              | 1.008                      | actor was (<br>0 developr   |
|                        | 228/216                      |       |       |       |       |       |       |       | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.000 | 1.000 | 1.001 | 1.000 |       | 100          | 1.008                      | The ULT/396Inc tail factor was calculated I<br>and extrapolated to 80 development years.  |
|                        | 216/204                      |       |       |       |       |       |       |       |       | 1.000 | 0.998 | 0.999 | 1.001 | 1.003 | 1.003 | 1.000 | 1.003 | 1.000 | 1.002 |              | 1.010                      | The ULT/3<br>and extrap   |
|                        | <u>Accident Year</u><br>1982 | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | Coloctod (c) | Selected (a)<br>Cumulative | (q)   |

Incurred Indemnity Loss Development Factors (Continued)

| $\begin{array}{c} 204/192 \\ 1.011 \\ 1.007 \\ 1.005 \\ 1.005 \\ 1.007 \\ 1.012 \\ 0.999 \\ 0.994 \\ 0.994 \\ 0.994 \end{array}$   | 1.002<br>1.043   |
|--|--|
| 192/180<br>1.018<br>1.005<br>1.003<br>1.003<br>0.999<br>0.997<br>1.000   | 1.002<br>1.045<br>actors.  |
| 180/168<br>1.016<br>1.013<br>1.013<br>1.013<br>1.001<br>1.001<br>0.997<br>0.999  | 1.005<br>1.050<br>e-to-age f <sub>1</sub>  |
| 168/156<br>1.028<br>1.015<br>1.011<br>1.013<br>0.999<br>0.999<br>0.998   | 1.005<br>1.056<br>equent ag  |
| $\begin{array}{c} 156/144 \\ 1.024 \\ 1.012 \\ 1.013 \\ 1.013 \\ 1.010 \\ 1.003 \\ 0.999 \\ 0.999 \end{array}$   | 1.008<br>1.064<br>the subse<br>accident y  |
| 120/108       132/120       144/132         120/108       132/120       144/132         1030       1.023       1.030         1.035       1.023       1.020         1.017       1.022       1.014         1.017       1.022       1.014         1.026       1.018       1.014         1.026       1.018       1.011         1.026       1.018       1.011         1.026       1.018       1.011         1.026       1.018       1.011         1.028       1.028       1.006         1.028       1.028       1.016         1.020       1.018       1.011         1.021       1.006       1.006         1.028       1.008       1.001         1.004       1.008       1.001         1.005       1.008       1.001         1.005       1.008       1.001         1.006       1.008       1.001         1.005       1.008       1.001         1.006       1.008       1.001         1.006       1.008       1.001   | 1.009<br>1.073<br>/erage for<br>grams for  |
| (b)<br>132/120<br>1.023<br>1.019<br>1.018<br>1.018<br>1.018<br>1.016<br>1.008<br>1.008   | 1.011<br>1.085<br>six-year av  |
| Age-to-Age (in months) (b)<br>34 108/96 120/108 133<br>1030 11<br>1.030 11<br>1.030 11<br>1.035 11<br>1.035 11<br>1.032 1.025 11<br>1.032 1.026 11<br>1.032 1.026 11<br>1.032 1.026 11<br>1.012 1.012 11<br>1.012 1.012 1.012<br>1.012 1.005 11<br>1.005 12<br>1.005 12<br>1.007 12<br>1.005 12<br>1 | 1.016<br>1.103<br>tors and s<br>st contain   |
| -to-Age (i<br>108/96<br>1.028<br>1.037<br>1.032<br>1.032<br>1.032<br>1.018<br>1.010<br>1.010   | 1.007<br>1.110<br>month fac<br>nedical co  |
| Age<br>96/84<br>1.040<br>1.042<br>1.045<br>1.042<br>1.042<br>1.042<br>1.042<br>1.042<br>1.042<br>1.042<br>1.0126<br>1.0126   | 1.012<br>1.124<br>96-to-108<br>d cost of r   |
| 84/72<br>1.040<br>1.042<br>1.042<br>1.042<br>1.042<br>1.042<br>1.043<br>1.041<br>1.050<br>1.041<br>1.025<br>1.016  | 1.016<br>1.142<br>through §  |
| 72/60<br>1.060<br>1.060<br>1.061<br>1.061<br>1.061<br>1.061<br>1.061<br>1.061<br>1.061<br>1.061  | 1.031<br>1.177<br>-24 month<br>tors inclue   |
| 60/48<br>1.081<br>1.074<br>1.081<br>1.087<br>1.087<br>1.087<br>1.069<br>1.069<br>1.040   | 1.040<br>1.224<br>the 12-to-<br>pment fac  |
| 48/36<br>1.087<br>1.103<br>1.124<br>1.124<br>1.125<br>1.092<br>1.079   | 1.079<br>1.321<br>st year for<br>ss develo   |
| 36/24<br>1.196<br>1.227<br>1.245<br>1.245<br>1.188<br>1.150<br>1.147   | 1.147<br>1.515<br>s are lates<br>medical lo  |
| 24/12<br>24/12<br>1.518<br>1.518<br>1.518<br>1.559<br>1.559<br>1.553<br>1.553<br>1.553   | <ol> <li>1.499</li> <li>1.147</li> <li>1.079</li> <li>1.040</li> <li>1.016</li> <li>1.012</li> <li>1.007</li> <li>1.016</li> <li>1.011</li> <li>1.009</li> <li>1.005</li> <li>1.014</li> <li>1.142</li> <li>1.124</li> <li>1.110</li> <li>1.103</li> <li>1.085</li> <li>1.054</li> <li>1.056</li> <li>1.045</li> <li>1.04</li> <li>1.04</li> <li>1.055</li> <li>1.054</li> <li>1.056</li> <li>1.044</li> <li>1.045</li> <li>1.044</li> <li>1.045</li> <li>1.045</li> <li>1.055</li> <li>1.056</li> <li>1.056</li> <li>1.056</li> <li>1.056</li> <li>1.056</li> <li>1.056</li> <li>1.056</li> <li>1.047</li> <li>1.047</li> <li>1.056</li> <li>1.056</li> <li>1.056</li> <li>1.056</li> <li>1.047</li> <li>1.048</li> <li>1.056</li> <li>1.056</li> <li>1.056</li> <li>1.056</li> <li>1.047</li> <li>1.048</li> <li>1.056</li> <li>1.056</li> <li>1.048</li> <li>1.048</li> <li>1.</li></ol> |
| Accident Year<br>1992<br>1995<br>1995<br>1996<br>1996<br>1996<br>1998<br>1999<br>2001<br>2001<br>2005<br>2005<br>2005<br>2005<br>2005<br>2011<br>2013<br>2013<br>2013<br>2013<br>2015<br>2015  | Selected (a)<br>Cumulative<br>(a)  |

Incurred Medical Loss Development Factors

# Incurred Medical Loss Development Factors (Continued)

| 34 ULT/396Inc (c)                                   |       | 7     | 6     | 6     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | •            | 3 1.024    | The ULT/396Inc tail factor was calculated based on an inverse power curve fit to a six-year average of the 108-to-120 through 348-to-360 factors, excluding the most recent evaluation, |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|------------|---|
| 396/384   |       | 0.997 | 1.000 | 0.995 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 0.999        | 1.023      | e most r  |
| 384/372   |       | 1.003 | 0.997 | 0.999 | 1.001 |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.000        | 1.023      | cluding the   |
| 372/360   |       | 1.004 | 1.001 | 0.998 | 0.998 | 1.001 |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.000        | 1.023      | factors, ex   |
| 360/348   | 1.009 | 1.003 | 1.003 | 1.003 | 1.002 | 0.997 | 0.999 |       |       |       |       |       |       |       |       |       |       |       |       | 1.001        | 1.024      | 48-to-360   |
| 348/336   | 1.003 | 1.006 | 1.001 | 1.002 | 1.000 | 1.001 | 0.998 | 0.999 |       |       |       |       |       |       |       |       |       |       |       | 1.000        | 1.024      | ) through 3   |
| 336/324   | 1.004 | 1.002 | 1.003 | 1.005 | 1.005 | 1.005 | 1.002 | 0.999 | 1.000 |       |       |       |       |       |       |       |       |       |       | 1.003        | 1.027      | 108-to-120  |
| months)<br>324/312                                  | 1.006 | 1.004 | 1.002 | 1.003 | 1.004 | 1.004 | 1.003 | 0.999 | 1.000 | 0.999 |       |       |       |       |       |       |       |       |       | 1.002        | 1.029      | age of the  |
| Age-to-Age (in months)<br><u>88 312/300 324/312</u> |       | 1.006 | 1.003 | 1.003 | 1.006 | 1.003 | 1.003 | 1.003 | 1.002 | 1.000 | 1.002 |       |       |       |       |       |       |       |       | 1.002        | 1.031      | -year aver  |
| Age-<br><u>300/288</u>                              |       |       | 1.003 | 1.003 | 1.005 | 1.007 | 1.005 | 1.000 | 0.997 | 1.001 | 0.999 | 1.000 |       |       |       |       |       |       |       | 1.000        | 1.031      | e fit to a six  |
| 288/276   |       |       |       | 1.001 | 1.006 | 0.999 | 1.002 | 1.006 | 1.003 | 1.003 | 1.000 | 0.996 | 0.995 |       |       |       |       |       |       | 1.001        | 1.032      | ower curve  |
| 276/264   |       |       |       |       | 1.003 | 1.011 | 1.005 | 1.008 | 1.003 | 1.002 | 1.005 | 1.000 | 0.996 | 0.992 |       |       |       |       |       | 1.000        | 1.031      | n inverse p   |
| 264/252   |       |       |       |       |       | 1.003 | 1.005 | 1.005 | 1.003 | 1.003 | 1.003 | 0.999 | 1.001 | 1.006 | 0.999 |       |       |       |       | 1.002        | 1.033      | ased on a   |
| 252/240   |       |       |       |       |       |       | 1.006 | 1.005 | 1.005 | 1.002 | 1.005 | 1.004 | 1.006 | 0.999 | 0.998 | 0.997 |       |       |       | 1.002        | 1.035      | alculated b   |
| 240/228   |       |       |       |       |       |       |       | 1.006 | 1.007 | 1.006 | 1.002 | 1.014 | 1.007 | 1.006 | 1.001 | 0.998 | 0.994 |       |       | 1.003        | 1.038      | ictor was c   |
| 228/216   |       |       |       |       |       |       |       |       | 1.007 | 1.005 | 1.004 | 1.011 | 1.004 | 0.996 | 1.005 | 0.994 | 1.001 | 0.995 |       | 0.999        | 1.037      | Holoc tail fa   |
| 216/204   |       |       |       |       |       |       |       |       |       | 1.008 | 1.005 | 1.007 | 1.011 | 1.015 | 1.008 | 1.001 | 1.001 | 0.999 | 0.996 | 1.003        | 1.041      | The ULT/396Inc tail factor was calculated t   |
| Accident Year                                       |       | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | Selected (a) | Cumulative | (c) T   |

| 204/192<br>1.003<br>1.003<br>1.004<br>1.005<br>1.004<br>1.005  | 1.004        | 1.038   | ł   |   |
|--|--------------|---|---|---|
| 192/180<br>1.004<br>1.005<br>1.006<br>1.006<br>1.006<br>1.005<br>1.005   | 1.005        | 1.044   | I   | ctively,  |
| 180/168<br>1.006<br>1.005<br>1.007<br>1.007<br>1.007<br>1.007<br>1.008   | 1.007        | 1.051   | ł   | month through 96-to-108 month factors and three-year average for the subsequent age-to-age factors. 2014 and the 60-to-ultimate factor for accident year 2013 have been adjusted by 5.2% and 2.0% respectively, s development. <i>Development Patterns</i> , WCIRB, August 13, 2013.)                 |
| 168/156<br>1.007<br>1.006<br>1.008<br>1.008<br>1.008<br>1.008<br>1.008<br>1.009  | 1.009        | 1.060   | 1   | t age-to-ag<br>5.2% and 2   |
| 156/144<br>1.009<br>1.009<br>1.009<br>1.001<br>1.011<br>1.012<br>1.011<br>1.013  | 1.012        | 1.073   | ł   | month through 96-to-108 month factors and three-year average for the subsequent age-to-age factors. 2014 and the 60-to-ultimate factor for accident year 2013 have been adjusted by 5.2% and 2.0% respe is development.   |
| 144/132<br>1.012<br>1.012<br>1.012<br>1.015<br>1.015<br>1.015<br>1.015<br>1.015  | 1.015        | 1.089   | 1   | ge for the s<br>/e been ad  |
| s)<br>132/120<br>1.015<br>1.015<br>1.015<br>1.015<br>1.015<br>1.020<br>1.020<br>1.020<br>1.020<br>1.020  | 1.019        | 1.11  | I   | ∕ear averaç<br>r 2013 hav   |
| Age-to-Age (in months)<br><u>108/96</u> <u>120/108</u><br>1.025 <u>1.016</u><br>1.024 <u>1.017</u><br>1.026 <u>1.018</u><br>1.026 <u>1.023</u><br>1.026 <u>1.028</u><br>1.027 <u>1.028</u><br>1.035 <u>1.028</u><br>1.035 <u>1.028</u><br>1.035 <u>1.028</u><br>1.031 <u>1.027</u><br>1.027 <u>1.023</u> | 1.025        | 1.139   | ł   | Selections are latest year for the 12-to-24 month through 96-to-108 month factors and three-ye The 48-to-ultimate factor for accident year for the impacts of SB 863 on indemnity loss development. (See <i>Impact of Senate Bill No. 863 on Loss Development Patterns</i> , WCIRB, August 13, 2013.) |
| Age-to-Age<br>108/96<br>1.025<br>1.026<br>1.026<br>1.026<br>1.026<br>1.025<br>1.025<br>1.035<br>1.035<br>1.035<br>1.035<br>1.035   | 1.031        | 1.174   | ł   | th factors a<br>actor for ac<br>IRB, Augus  |
| 96/84<br>1.034<br>1.034<br>1.034<br>1.034<br>1.047<br>1.047<br>1.047<br>1.046<br>1.047<br>1.038  | 1.038        | 1.219   | I   | o-108 mon<br>-ultimate f <i>t</i><br><i>terns</i> , WCI   |
| 84/72<br>1.046<br>1.046<br>1.049<br>1.049<br>1.060<br>1.066<br>1.066<br>1.066<br>1.066<br>1.056  | 1.056        | 1.287   | I   | rough 96-tu<br>1 the 60-to<br>5ment.<br>5ment Pati  |
| 72/60<br>1.072<br>1.073<br>1.073<br>1.073<br>1.073<br>1.092<br>1.092<br>1.092<br>1.092<br>1.092<br>1.087   | 1.087        | 1.399   | 1.427   |   |
| 60/48<br>1.116<br>1.121<br>1.135<br>1.140<br>1.140<br>1.147<br>1.147<br>1.137  | 1.129        | 1.579   | 1.661   | ne 12-to-2 <sup>4</sup><br>scident yes<br>demnity lo<br>863 on Lo   |
| 48/36<br>1.235<br>1.229<br>1.246<br>1.271<br>1.280<br>1.280<br>1.281<br>1.265<br>1.265<br>1.257  | 1.257        | 1.985   | 2.088   | : year for th<br>actor for ac<br>3 863 on ir<br>ate Bill No.  |
| 36/24<br>1.539<br>1.547<br>1.547<br>1.539<br>1.539<br>1.616<br>1.618<br>1.618<br>1.618<br>1.618  | 1.618        | 3.212   | 3.379   | <ul> <li>(a) Selections are latest year for the 12-to-24</li> <li>(b) The 48-to-ultimate factor for accident year for the impacts of SB 863 on indemnity los (See <i>Impact of Senate Bill No. 863 on Los</i>)</li> </ul>   |
| 24/12<br>24/12<br>2.905<br>3.157<br>3.157<br>3.157<br>3.208<br>3.235<br>3.235<br>3.235   | 3.235        | d<br>10.390                                   | or<br>10.931                                    | Selection.<br>The 48-to<br>for the im<br>(See <i>Imp</i> .  |
| Accident Year<br>1992<br>1995<br>1996<br>1996<br>1998<br>1998<br>1998<br>2000<br>2001<br>2003<br>2005<br>2005<br>2005<br>2005<br>2013<br>2013<br>2013<br>2016<br>2016  | Selected (a) | Cumulative Unadjusted<br>for Impact of SB 863 | Cumulative Adjusted for<br>Impact of SB 863 (b) | (a)<br>(b)  |

Paid Indemnity Loss Development Factors

Exhibit 2.3.1

III-B-6 WCIRB California®

| ULT/396Inc (d)   | 1.003                      |   |
|--|----------------------------|---|
| <u>396inc/396Pd (c)</u><br>1.003<br>1.005<br>1.005<br>1.003<br>1.003   | 1.004                      | power curve fit to a six-year average of the 108-to-120 through 348-to-360 factors, excluding the most recent evaluation, and   |
| <u>396/384</u><br>1.001<br>1.001   | 1.001<br>1.008             | lost recent   |
| 384/372<br>1.001<br>1.000<br>1.001   | 1.001<br>1.008             | lding the $\pi$   |
| 372/360<br>1.001<br>1.001<br>1.001<br>1.001  | 1.001<br>1.009             | ctors, exclu  |
| 360/348<br>1.001<br>1.001<br>1.001<br>1.001<br>1.001   | 1.001<br>1.010             | 3-to-360 fa   |
| 348/336<br>1.001<br>1.001<br>1.001<br>1.001<br>1.001<br>1.001  | 1.001<br>1.011             | through 34  |
| months)<br>336/324<br>1.001<br>1.001<br>1.001<br>1.001<br>1.001<br>1.000   | 1.001                      | 08-to-120 1   |
| Age-to-Age (in months)<br>300 324/312 336/32<br>1.003 1.000<br>1.001 1.001 1.001<br>1.001 1.001 1.001<br>01 1.001 1.001<br>01 1.001 1.000<br>01 1.000 1.000<br>01 1.001 1.000<br>01 1.000 1.000<br>00 1.000 1.000<br>00 1.000 1.000<br>00 1.000 1.000<br>00 1.000 1.000 0.000<br>00 1.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.00000 0.0000 0.000000 | 1.001<br>1.013             | ge of the 1   |
| Age-<br>312/300<br>1.001<br>1.001<br>1.001<br>1.001<br>1.001   | 1.001<br>1.014             | year avera  |
| 300/288<br>1.001<br>1.001<br>1.001<br>1.001<br>1.001<br>1.001  | 1.001<br>1.015             | fit to a six-   |
| 288/276<br>1.001<br>1.001<br>1.001<br>1.001<br>1.001<br>1.001<br>1.001   | 1.001<br>1.016             | ower curve  |
| 276/264<br>1.001<br>1.001<br>1.001<br>1.001<br>1.001<br>1.001<br>1.002<br>1.002  | 1.002<br>1.018             |   |
| 264/252<br>1.001<br>1.001<br>1.001<br>1.002<br>1.002<br>1.002<br>1.002<br>1.002  | 1.002<br>1.020             | Three-year averages of the 396Inc/396Pd factors are selected.<br>The ULT/396Inc tail factor was calculated based on an inverse<br>extrapolated to 80 development years. |
| 252/240<br>1.001<br>1.001<br>1.002<br>1.003<br>1.003<br>1.003<br>1.003   | 1.003<br>1.023             | nc/396Pd<br>alculated b<br>years.   |
| 240/228<br>1.001<br>1.003<br>1.003<br>1.003<br>1.003<br>1.003  | 1.003<br>1.026             | Three-year averages of the 396Inc/396<br>The ULT/396Inc tail factor was calcula<br>extrapolated to 80 development years.  |
| 228/216<br>1.002<br>1.003<br>1.003<br>1.003<br>1.003<br>1.003<br>1.004<br>1.003  | 1.003<br>1.029             | r averages<br>96Inc tail fa<br>ed to 80 der   |
| 216/204<br>1.002<br>1.002<br>1.005<br>1.005<br>1.006<br>1.006<br>1.006   | 1.005<br>1.034             | Three-yea<br>The ULT/3<br>extrapolate   |
| Accident Year<br>1982<br>1983<br>1985<br>1986<br>1986<br>1988<br>1988<br>1990<br>1992<br>1995<br>1995<br>1995<br>1995<br>1995<br>1995<br>1996<br>1997  | Selected (a)<br>Cumulative | (c)<br>(d)  |

# Actuarial Committee Meeting Agenda for April 3, 2018

Paid Indemnity Loss Development Factors (Continued)

| 204/192   | 1.011<br>1.015<br>1.017<br>1.017<br>1.017<br>1.010<br>1.011   | 204/192                                  | 0101   | 1.013        | 1.179  | I  |   |
|---|---|--|--|--------------|--|--|---|
| 192/180   | 1.013<br>1.018<br>1.016<br>1.015<br>1.015<br>1.012<br>1.012   | 192/180                                  | 1.013<br>1.012<br>1.012  | 1.013        | 1.194  | I  | lanuary 1,<br>: years<br>ictions in   |
| 180/168   | 1.017<br>1.018<br>1.019<br>1.017<br>1.017<br>1.012  | 180/168                                  | 1.018<br>1.014<br>1.014  | 1.015        | 1.212  | I  | aid prior to .<br>6 to accident<br>18 1160 redu   |
| 168/156   | 1.019<br>1.019<br>1.019<br>1.016<br>1.016<br>1.016  | 168/156                                  | 1.018<br>1.016<br>1.016  | 1.017        | 1.233  | I  | -2.1% and p<br>%, and -0.1%<br>pact of the S  |
| 156/144   | 1.023<br>1.022<br>1.025<br>1.018<br>1.018<br>1.019<br>1.019   | 156/144                                  | 1.020<br>1.019<br>1.020  | 1.020        | 1.257  | I  | / 1, 2014 by<br>-2.4%, -0.9°<br>e factors.<br>y, for the im   |
| 144/132   | 1.026<br>1.030<br>1.033<br>1.023<br>1.023<br>1.023<br>1.024<br>1.024  | 144/132                                  | 1.026<br>1.023<br>1.022  | 1.024        | 1.287  | ł  | and prior.<br>or to January<br>3.8%, -3.4%,<br>nt age-to-agi<br>, respectivel   |
| 132/120   | 1.032<br>1.032<br>1.027<br>1.024<br>1.030<br>1.031<br>1.033   | 132/120                                  | 1.033<br>1.027<br>1.023  | 1.028        | 1.322  | I  | t years 2011<br>ises paid prid<br>by -3.6%, -3<br>ie subseque<br>6, and -0.6%   |
| (in months)<br>120/108  | 1.032<br>1.031<br>1.033<br>1.033<br>1.033<br>1.033<br>1.033<br>1.033  | (in months)<br><u>120/108</u>            | 1.037<br>1.033<br>1.029  | 1.033        | 1.366  | I  | Paid medical loss development factors include the paid cost of medical cost containment programs for accident years 2011 and prior.<br>These factors are adjusted for the following: (i) losses paid prior to January 1, 2013 by 4.2% for SB 863, (ii) losses paid prior to January 1, 2014 by -2.1% and paid prior to January 1, 2015 by -1.7% for the RBRVS-based physician fee schedule changes, and (iii) losses paid prior to July 1, 2017 by -3.6%, -3.8%, -3.4%, -0.9%, and -0.1% to accident years 2011 to 2016, respectively, for the SB 1160 lien reforms.<br>Selections are latest year for the 12-to-24 month through 96-to-108 month factors and three-year average for the subsequent age-to-age factors.<br>The cumulative factors for 12, 24, 60, and 72 months are adjusted by -3.7%, -3.4%, -2.7%, -1.1%, and -0.6%, respectively, for the impact of the SB 1160 reductions in future lien filings. |
| <u>Age-to-Age (in months)</u><br><u>108/96</u> <u>120/108</u> | 1.038<br>1.038<br>1.041<br>1.049<br>1.042<br>1.042<br>1.042<br>1.035  | Age-to-Age (in months)<br>108/96 120/108 | 1.045<br>1.038<br>1.034  | 1.034        | 1.413  | I  | ent program<br>-4.2% for SI<br>paid prior to<br>three-year a<br>3.4%, -2.7%,  |
| 96/84   | 1.045<br>1.048<br>1.048<br>1.054<br>1.055<br>1.057<br>1.057<br>1.046  | 96/84                                    | 1.055<br>1.049<br>1.045  | 1.045        | 1.476  | I  | st containm.<br>y 1, 2013 by<br>d (iii) losses<br>i factors and<br>by -3.7%, -3   |
| 84/72   | 1.054<br>1.057<br>1.057<br>1.073<br>1.075<br>1.075<br>1.075<br>1.066  | 84/72                                    | 1.072<br>1.070<br>1.062  | 1.062        | 1.568  | 1.558  | of medical cc<br>ior to Januar<br>changes, an<br>c-108 month<br>are adjusted  |
| 72/60   | 1.074<br>1.095<br>1.095<br>1.103<br>1.103<br>1.103<br>1.103<br>1.096  | 72/60                                    | 1.1002   | 1.091        | 1.710  | 1.691  | e paid cost c<br>sses paid pr<br>se schedule<br>eforms.<br>I 72 months  |
| 60/48   | 1.123<br>1.148<br>1.148<br>1.148<br>1.148<br>1.148<br>1.143   | 60/48                                    | 1.154<br>1.148<br>1.134  | 1.134        | 1.939  | 1.903  | t factors include the paid the following: (i) losses pebased physician fee sche based physician fee sche the SB 1160 lien reforms. the SB 1240-24 month through 24, 36, 48, 60, and 72 mo   |
| 48/36   | 1.209<br>1.200<br>1.241<br>1.241<br>1.248<br>1.248<br>1.248<br>1.248  | 48/36                                    | 1.258<br>1.243<br>1.229  | 1.229        | 2.384  | 2.319  | ppment facto<br>ed for the fol<br>SRVS-based<br>sly, for the SE<br>ir for the 12-1<br>or 12, 24, 36   |
| 36/24   | 1.399<br>1.413<br>1.447<br>1.468<br>1.468<br>1.468<br>1.468   | 36/24                                    | 1.476<br>1.465<br>1.440  | 1.440        | 3.432  | 3.316  | Paid medical loss developmen<br>These factors are adjusted for<br>2015 by -1.7% for the RBRVS-<br>2011 to 2016, respectively, for<br>Selections are latest year for th<br>The cumulative factors for 12.<br>future lien filings.  |
| 24/12   | 2.416<br>2.416<br>2.4408<br>2.561<br>2.561<br>2.563<br>2.563<br>2.563<br>2.563<br>2.563<br>2.563<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.553<br>2.555<br>2.553<br>2.555<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.5553<br>2.55553<br>2.55553<br>2.55553<br>2.55553<br>2.55553<br>2.55553<br>2.55553<br>2.555553<br>2.55555<br>2.555555<br>2.55555<br>2.55555<br>2.55555555 | 24/12                                    | 2.544<br>2.533<br>2.481  | 2.481        | 8.516  | 8.201  | Paid medical loss development<br>These factors are adjusted for 1<br>2015 by -1.7% for the RBRVS-1<br>2011 to 2016, respectively, for<br>Selections are latest year for th<br>The cumulative factors for 12, 2<br>future lien filings.  |
| Unadjusted (a)<br><u>Accident Year</u>                        | 1992<br>1995<br>1996<br>1996<br>1996<br>1998<br>2003<br>2003<br>2003<br>2003<br>2003<br>2003<br>2003<br>200   | Adjusted (b)<br><u>Accident Year</u>     | 2009<br>2001<br>2002<br>2003<br>2005<br>2005<br>2006<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2015 | Selected (c) | Cumulative Unadjusted<br>for Impact of SB 1160 | Cumulative Adjusted for Impact of SB 1160(d) | (a)<br>(c)<br>(b)   |

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| 1014         1013         1001         1006         1006         1006         1006         1006         1006         1006         1006         1006         1006         1006         1006         1006         1006         1006         1006         1006         1007         1007         1006         1007         1006 <th< td=""></th<>  |
| 101         1001         1006   |
| 1010         1010         1000         1000           1012         1000         1000         260268         2616264         289276         380348         37280         384372         386364         30438         36666664444           216204         280216         260288         312300         324312         380348         37280         384372         3863644         30438         3666664444           216204         28021         260288         312300         324312         380348         37280         384372         3867344         30438         1003  |
| 1012         1009         1009         1009         340336         340336         340336         340336         340336         340336         340336         340336         360344   |
| 1.008  |
| 216:204         228:216         220:240         226:240         246:10-Age (n months)         Age-to-Age ( |
| 216/204         228/216         240/28         252/240         264/252         276/264         288/216         300/366         34/312         366/346  |
| 1014         1012         1003 <th< td=""></th<>  |
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| 1.012         1.001         1.003 <td< td=""></td<>  |
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| 1.014         1.003         1.003         1.003         1.003         1.003         1.003           1.014         1.001         1.003         1.003         1.003         1.003         1.003           1.014         1.001         1.003         1.003         1.003         1.003         1.003           1.014         1.001         1.003         1.003         1.003         1.003         1.003           1.014         1.001         1.007         1.003         1.003         1.003         1.003           1.014         1.001         1.003         1.004         1.004         1.004         1.003           1.013         1.001         1.003         1.003         1.003         1.003         1.003           1.013         1.010         1.003         1.004         1.003         1.004         1.004  |
| 1.014         1.010         1.004         1.004         1.003         1.001         1.003         1.004         1.004         1.003         1.003         1.003         1.003         1.004         1.004         1.004         1.004         1.003  |
| 1.014         1.012         1.003         1.005         1.005         1.007         1.007           1.012         1.003         1.003         1.003         1.003         1.003         1.003           1.014         1.007         1.003         1.004         1.004         1.007         1.004           1.013         1.001         1.003         1.004         1.004         1.004         1.004           1.013         1.010         1.003         1.004         1.004         1.004         1.004           1.013         1.010         1.003         1.004         1.004         1.004         1.004  |
| 1.012       1.003       1.007       1.007       1.007         1.012       1.007       1.009       1.008       1.007         1.014       1.007       1.007       1.007         1.013       1.001       1.007       1.007         1.013       1.001       1.007         1.013       1.010       1.007         1.013       1.010       1.001         1.013       1.010       1.003         1.014       1.010       1.003         1.013       1.010       1.001         1.014       1.001       1.001         1.012       1.011       1.003       1.003       1.003  |
| 1.012       1.003       1.003       1.003       1.003       1.003         1.012       1.007       1.007       1.007       1.014         1.014       1.010       1.007       1.007         1.013       1.010       1.003       1.016         1.013       1.010       1.003       1.016         1.012       1.010       1.008       1.017       1.005         1.012       1.011       1.003       1.003       1.003       1.004       1.004  |
| 1.013       1.009       1.014       1.012       1.009       1.007         1.014       1.007       1.007       1.007       1.007         1.013       1.010       1.009       1.007       1.005         1.013       1.010       1.009       1.010       1.006         1.012       1.011       1.009       1.010       1.005       1.005       1.003       1.003       1.004       1.004       1.004  |
| 1.012       1.007       1.007       1.007         1.014       1.010       1.007       1.007         1.013       1.010       1.009         1.010       1.009       1.010       1.005         1.012       1.011       1.003       1.003       1.003       1.004       1.004       1.003  |
| 1.014       1.010       1.009         1.016       1.009         1.013       1.010         1.013       1.010         1.009       1.010       1.008       1.007       1.005       1.003       1.003       1.004       1.004       1.004  |
| 1.013 1.010  |
| 1.013 1.010<br>1.009<br>1.012 1.011 1.009 1.010 1.008 1.010 1.007 1.005 1.005 1.003 1.003 1.003 1.004 1.004 1.004 1.003  |
| 1.012 1.011 1.009 1.010 1.008 1.010 1.007 1.005 1.005 1.003 1.003 1.003 1.004 1.004 1.004 1.004  |
| 1.012 1.011 1.009 1.010 1.008 1.010 1.007 1.005 1.005 1.003 1.003 1.003 1.004 1.004 1.004 1.003  |
|  |
| 1.083  |

Paid Medical Loss Development Factors (Continued)

evaluation, and extrapolated to 80 development years.

III-B-9 WCIRB California®

| 240Inc/240Pd (c)<br>1.014<br>1.014<br>1.024<br>1.024<br>1.023<br>1.022<br>1.022   | 1.023   |   |   |  |
|---|---|---|---|--|
| 240/228 2401<br>1.001<br>1.003<br>1.003<br>1.003<br>1.003<br>1.003<br>1.003   | 1.003   | 1.034   | I   |  |
| 228/216 2<br>1.002<br>1.003<br>1.005<br>1.004<br>1.003<br>1.003<br>1.003  | 1.003   | 1.037   | I   | t<br>aate.<br>s of SB<br>ment  |
| 216/204 2<br>1.002<br>1.005<br>1.005<br>1.004<br>1.004<br>1.004   | 1.005   | 1.042   | I   | velopmen<br>I until ultim<br>ne impacts<br>an adjust   |
| 204/192 2<br>1.003 1.003 1.003 1.003 1.003 1.005 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.005 1. | 1.004   | 1.046   | I   | s. Paid de<br>e selected<br>vely, for th<br>ultiplied by   |
| 192/180 2<br>1.004<br>1.005<br>1.006<br>1.006<br>1.006<br>1.005<br>1.005<br>1.005   | 1.005   | 1.052   | I   | age factor<br>factors ar<br>% respecti<br>factor mu  |
| 180/168<br>1.006<br>1.005<br>1.007<br>1.007<br>1.007<br>1.008<br>1.008  | 1.007   | 1.059   | I   | <ul> <li>(a) Selections are latest year for the 12-to-24 month through 96-to-108 month factors and three-year average for the subsequent paid age-to-age factors. Paid development factors are selected to age 240, where an incurred-to-paid ratio is chosen, and subsequently, six-year average incurred loss development factors are selected until ultimate.</li> <li>(b) The 48-to-ultimate factor for accident year 2014 and the 60-to-ultimate factor for accident year 2013 have been adjusted by 5.2% and 2.0% respectively, for the impacts of SB 863 on indemnity loss development.</li> <li>(c) A three-year average of the 240Inc/240Pd factor is selected.</li> <li>(d) Based on calculations shown on Exhibits 2.5.3 to 2.5.8. Each of these selections is calculated as the latest year paid indemnity age-to-age factor multiplied by an adjustment for changes in claim settlement rates.</li> </ul>   |
| 168/156<br>1.007<br>1.006<br>1.008<br>1.008<br>1.008<br>1.008<br>1.009<br>1.009   | 1.009   | 1.068   | I   | equent pa<br>d loss dev<br>ad by 5.2%<br>ademnity <i>i</i>   |
|   | 1.012   | 1.081   | I   | r the subs<br>ge incurre<br>en adjustu<br>ear paid ii  |
| Age-to-Age (in months)<br>132/120 144/132 156/144<br>1.015 1.012 1.009<br>1.015 1.012 1.009<br>1.015 1.011 1.009<br>1.013 1.010 1.009<br>1.013 1.010 1.009<br>1.015 1.011 1.003<br>1.015 1.011 1.012<br>1.016 1.011<br>1.020 1.015 1.013<br>1.018 1.016   | 1.015   | 1.098   | 1   | average fo<br>ear avera<br>3 have be<br>he latest y  |
| Age-to-<br>1.015<br>1.015<br>1.015<br>1.015<br>1.015<br>1.021<br>1.020<br>1.020<br>1.020<br>1.020   | 1.019   | 1.119   | I   | iree-year antly, six-year antly, six-year 201 the year 201 and and antly and and antly and and the second s |
| 120/108<br>1.016<br>1.017<br>1.018<br>1.023<br>1.023<br>1.028<br>1.028<br>1.028<br>1.027  | 1.025   | 1.147   | I   | ors and th<br>subseque<br>or acciden<br>ns is calcu  |
| 108/96<br>1.025<br>1.026<br>1.026<br>1.025<br>1.035<br>1.035<br>1.035<br>1.031  | 1.031   | 1.183   | I   | month fact<br>osen, and<br>te factor fr<br>e selectio  |
| 96/84<br>1.033<br>1.031<br>1.046<br>1.046<br>1.046<br>1.043<br>1.048<br>1.038   | 1.038   | 1.228   | I   | 6-to-108 r<br>ratio is ch<br>-to-ultima<br>-to-ultima<br>d.<br>d.  |
| 84/72<br>1.046<br>1.043<br>1.068<br>1.066<br>1.066<br>1.066<br>1.066<br>1.066   | 1.048(d)  | 1.286   | 1   | through 9<br>ed-to-paid<br>and the 60<br>is selecte<br>2.5.8. Ea   |
| 72/60<br>1.072<br>1.073<br>1.092<br>1.092<br>1.092<br>1.092<br>1.092<br>1.091   | 3.223(d) 1.593(d) 1.240(d) 1.120(d) 1.075(d) 1.048(d) | 1.383   | 1.410   | Selections are latest year for the 12-to-24 month through factors are selected to age 240, where an incurred-to-pair The 48-to-ultimate factor for accident year 2014 and the (863 on indemnity loss development.<br>A three-year average of the 240Inc/240Pd factor is select Based on calculations shown on Exhibits 2.5.3 to 2.5.8. E for changes in claim settlement rates.  |
| 60/48<br>1.116<br>1.121<br>1.135<br>1.140<br>1.140<br>1.147<br>1.147<br>1.137   | 1.120(d)  | 1.548   | 1.629   | the 12-to-<br>40, where<br>accident y<br>pment.<br>240Inc/24(<br>on Exhib<br>int rates.  |
| 48/36<br>1.235<br>1.235<br>1.246<br>1.280<br>1.281<br>1.281<br>1.262<br>1.262<br>1.265  | 1.240(d)  | 1.920   | 2.020   | st year for<br>1 to age 2 <sup>2</sup><br>factor for <i>i</i><br>ss develo<br>ge of the 2<br>ons shown<br>n settleme   |
| 36/24<br>1.539<br>1.547<br>1.577<br>1.516<br>1.616<br>1.613<br>1.606<br>1.635<br>1.618  | 1.593(d)  | 3.059   | 3.218   | Selections are latest year for the 12-th<br>factors are selected to age 240, wher<br>The 48-to-ultimate factor for accident<br>863 on indemnity loss development.<br>A three-year average of the 240Inc/2-<br>Based on calculations shown on Exhi<br>for changes in claim settlement rates.  |
| 24/12<br>2.905<br>2.905<br>3.157<br>3.157<br>3.157<br>3.157<br>3.235<br>3.235   | 3.223(d)  | l for<br>9.858                                | r<br>10.371                                     | <ul> <li>(a) Selections are latest year for the 12-to-24 month through 96-factors are selected to age 240, where an incurred-to-paid ra (b) The 48-to-ultimate factor for accident year 2014 and the 60-1863 on indemnity loss development.</li> <li>(c) A three-year average of the 240Inc/240Pd factor is selected.</li> <li>(d) Based on calculations shown on Exhibits 2.5.3 to 2.5.8. Each for changes in claim settlement rates.</li> </ul>  |
| Accident Year<br>1991<br>1992<br>1995<br>1996<br>1996<br>1996<br>1998<br>1999<br>2001<br>2003<br>2004<br>2003<br>2004<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>2011<br>2011   | Selected (a)  | Cumulative Unadjusted for<br>Impact of SB 863 | Cumulative Adjusted for<br>Impact of SB 863 (b) | (a) (b) (a) (c) (c) (a)  |

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

|                            |                |                 |   |                |                |                                      | Age-to-        | Age-to-Age (In montus) | ontns)         |                |                |                |                |   |
|----------------------------|----------------|-----------------|---|----------------|----------------|--------------------------------------|----------------|------------------------|----------------|----------------|----------------|----------------|----------------|---|
| <u>Accident Year</u>       |                | 252/240 264/252 | 276/264                                   | 288/276        | 300/288        | 312/300                              | 324/312        | 336/324                | 348/336        | 360/348        | 372/360        | 384/372        | 396/384        | <u>ULT/396Inc (e)</u>   |
| 1980                       |                |                 |   |                |                |                                      |                |                        | 1.000          | 1.000          |                |                |                |   |
| 1981                       |                |                 |   |                |                |                                      |                | 1.002                  | 0.999          | 1.001          |                |                |                |   |
| 1982                       |                |                 |   |                |                |                                      | 1.002          | 1.000                  | 1.001          | 1.001          |                |                |                |   |
| 1983                       |                |                 |   |                |                | 1.000                                | 1.000          | 1.001                  | 1.001          | 1.001          | 1.001          | 1.001          | 1.000          |   |
| 1984                       |                |                 |   |                | 1.000          | 1.001                                | 1.001          | 1.000                  | 1.001          | 1.001          | 1.000          | 0.999          | 1.000          |   |
| 1985                       |                |                 |   | 1.000          | 1.001          | 1.000                                | 1.001          | 1.001                  | 1.001          | 1.001          | 1.000          | 1.000          | 1.000          |   |
| 1986                       |                |                 | 1.001                                     | 1.001          | 1.000          | 1.001                                | 1.002          | 1.001                  | 1.000          | 0.999          | 1.000          | 1.000          |                |   |
| 1987                       |                | 0.999           | 1.000                                     | 1.000          | 1.001          | 1.002                                | 1.000          | 1.001                  | 1.001          | 1.001          | 1.001          |                |                |   |
| 1988                       | 1.001          | 1.000           | 1.001                                     | 1.002          | 1.001          | 1.000                                | 1.000          | 1.000                  | 1.000          | 1.000          |                |                |                |   |
| 1989                       | 1.001          | 1.000           | 1.001                                     | 1.000          | 1.000          | 1.000                                | 1.001          | 1.000                  | 1.000          |                |                |                |                |   |
| 1990                       | 0.999          | 1.001           | 1.000                                     | 1.000          | 1.000          | 1.000                                | 1.000          | 1.000                  |                |                |                |                |                |   |
| 1991                       | 1.000          | 1.000           | 1.000                                     | 1.000          | 1.000          | 1.000                                | 1.000          |                        |                |                |                |                |                |   |
| 1992                       | 1.000          | 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                                     | 0.999          |                |                                      |                |                        |                |                |                |                |                |   |
| 1995                       | 1.001          | 1.000           | 1.001                                     |                |                |                                      |                |                        |                |                |                |                |                |   |
| 1996                       | 1.000          | 1.001           |   |                |                |                                      |                |                        |                |                |                |                |                |   |
| 1997                       | 1.000          |                 |   |                |                |                                      |                |                        |                |                |                |                |                |   |
|                            |                |                 |   |                |                |                                      |                |                        |                |                |                |                |                |   |
| Selected (a)<br>Cumulative | 1.000<br>1.007 | 1.001<br>1.007  | 1.001<br>1.006                            | 1.000<br>1.006 | 1.000<br>1.006 | 1.000<br>1.006                       | 1.001<br>1.005 | 1.001<br>1.005         | 1.001<br>1.004 | 1.001<br>1.004 | 1.000<br>1.003 | 1.000<br>1.003 | 1.000<br>1.003 | 1.003   |
|                            |                |                 |   |                |                |                                      |                |                        |                |                |                |                |                |   |
| (e)                        |                | 396Inc tail     | The ULT/396Inc tail factor was calculated | s calculate    |                | n an invers                          | te power c     | curve fit to           | a six-vear     | averade o      | f the 108-t    | :o-120 thro    | ugh 348-tc     | based on an inverse power curve fit to a six-year average of the 108-to-120 through 348-to-360 factors. |
|                            |                | the most I      | excluding the most recent evaluation, and | luation, an    |                | extrapolated to 80 development years | developm       | ent years.             | •              | )              |                |                | þ              |   |
|                            |                |                 |   |                |                |                                      |                |                        |                |                |                |                |                |   |

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

#### A. Total Reported Indemnity Claim Counts

| Accident | Evaluated as of (in months) |           |           |           |           |           |           |  |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | <u>84</u> |  |
| 2008     |                             |           |           |           |           |           | 122,532   |  |
| 2009     |                             |           |           |           |           | 113,152   | 113,376   |  |
| 2010     |                             |           |           |           | 116,605   | 117,000   | 117,262   |  |
| 2011     |                             |           |           | 116,716   | 117,486   | 117,812   | 118,034   |  |
| 2012     |                             |           | 121,957   | 123,499   | 124,282   | 124,718   |           |  |
| 2013     |                             | 126,442   | 130,329   | 131,881   | 132,635   |           |           |  |
| 2014     | 106,792                     | 132,482   | 136,722   | 138,337   |           |           |           |  |
| 2015     | 111,241                     | 138,614   | 142,847   |           |           |           |           |  |
| 2016     | 112,781                     | 141,505   |           |           |           |           |           |  |
| 2017     | 115,674                     |           |           |           |           |           |           |  |

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

| Accident          |              | A            | ge-to-Age De | evelopment ( | in months):  |                |            |
|-------------------|--------------|--------------|--------------|--------------|--------------|----------------|------------|
| Year              | <u>12-24</u> | <u>24-36</u> | <u>36-48</u> | <u>48-60</u> | <u>60-72</u> | <u>72-84</u> 8 | 4-Ultimate |
| 2009              |              |              |              |              |              | 1.002          |            |
| 2010              |              |              |              |              | 1.003        | 1.002          |            |
| 2011              |              |              |              | 1.007        | 1.003        | 1.002          |            |
| 2012              |              |              | 1.013        | 1.006        | 1.004        |                |            |
| 2013              |              | 1.031        | 1.012        | 1.006        |              |                |            |
| 2014              | 1.241        | 1.032        | 1.012        |              |              |                |            |
| 2015              | 1.246        | 1.031        |              |              |              |                |            |
| 2016              | 1.255        |              |              |              |              |                |            |
| Latest Year       | 1.255        | 1.031        | 1.012        | 1.006        | 1.004        | 1.002          |            |
| Cumulative        | 1.328        | 1.058        | 1.027        | 1.015        | 1.009        | 1.006          | 1.004      |
|                   |              |              |              |              |              |                |            |
| Acc. Year         | 2017         | 2016         | 2015         | 2014         | 2013         | 2012           | 2011       |
| Ult. Claim Counts | 153,616      | 149,774      | 146,714      | 140,423      | 133,870      | 125,439        | 118,493    |

#### C. Closed Indemnity Claim Counts

| Accident | Evaluated as of (in months) |           |           |           |           |           |           |  |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | <u>84</u> |  |
| 2008     |                             |           |           |           |           |           | 108,869   |  |
| 2009     |                             |           |           |           |           | 95,734    | 100,426   |  |
| 2010     |                             |           |           |           | 94,016    | 100,574   | 105,653   |  |
| 2011     |                             |           |           | 86,114    | 96,021    | 102,634   | 107,345   |  |
| 2012     |                             |           | 77,475    | 92,797    | 103,207   | 110,208   |           |  |
| 2013     |                             | 61,383    | 84,338    | 101,272   | 112,453   |           |           |  |
| 2014     | 28,714                      | 65,810    | 90,489    | 108,293   |           |           |           |  |
| 2015     | 30,440                      | 70,748    | 98,009    |           |           |           |           |  |
| 2016     | 32,472                      | 76,353    |           |           |           |           |           |  |
| 2017     | 35,912                      |           |           |           |           |           |           |  |

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

| Accident | Evaluated as of (in months) |           |           |           |           |           |       |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-------|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84    |
| 2008     |                             |           |           |           |           |           | 88.4% |
| 2009     |                             |           |           |           |           | 84.1%     | 88.2% |
| 2010     |                             |           |           |           | 79.9%     | 85.4%     | 89.8% |
| 2011     |                             |           |           | 72.7%     | 81.0%     | 86.6%     | 90.6% |
| 2012     |                             |           | 61.8%     | 74.0%     | 82.3%     | 87.9%     |       |
| 2013     |                             | 45.9%     | 63.0%     | 75.6%     | 84.0%     |           |       |
| 2014     | 20.4%                       | 46.9%     | 64.4%     | 77.1%     |           |           |       |
| 2015     | 20.7%                       | 48.2%     | 66.8%     |           |           |           |       |
| 2016     | 21.7%                       | 51.0%     |           |           |           |           |       |
| 2017     | 23.4%                       |           |           |           |           |           |       |

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

| Accident | Evaluated as of (in months) |        |           |         |         |         |         |
|----------|-----------------------------|--------|-----------|---------|---------|---------|---------|
| Year     | <u>12</u>                   | 24     | <u>36</u> | 48      | 60      | 72      | 84      |
| 2008     |                             |        |           |         |         |         | 111,533 |
| 2009     |                             |        |           |         |         | 100,016 | 103,129 |
| 2010     |                             |        |           |         | 98,885  | 103,425 | 106,643 |
| 2011     |                             |        |           | 91,381  | 99,536  | 104,105 | 107,345 |
| 2012     |                             |        | 83,797    | 96,737  | 105,371 | 110,208 |         |
| 2013     |                             | 68,245 | 89,429    | 103,239 | 112,453 |         |         |
| 2014     | 32,828                      | 71,586 | 93,807    | 108,293 |         |         |         |
| 2015     | 34,298                      | 74,793 | 98,009    |         |         |         |         |
| 2016     | 35,014                      | 76,353 |           |         |         |         |         |
| 2017     | 35,912                      |        |           |         |         |         |         |

#### F. Average Paid Indemnity per Closed Claim

| Accident | Evaluated as of (in months) |           |           |           |           |           |           |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | <u>84</u> |
| 2008     |                             |           |           |           |           |           | 17,004    |
| 2009     |                             |           |           |           |           | 16,396    | 18,117    |
| 2010     |                             |           |           |           | 14,670    | 16,719    | 18,416    |
| 2011     |                             |           |           | 12,212    | 14,937    | 16,897    | 18,402    |
| 2012     |                             |           | 9,114     | 12,585    | 15,148    | 17,034    |           |
| 2013     |                             | 5,330     | 9,560     | 12,982    | 15,428    |           |           |
| 2014     | 2,139                       | 5,637     | 10,179    | 13,782    |           |           |           |
| 2015     | 2,347                       | 6,180     | 10,886    |           |           |           |           |
| 2016     | 2,492                       | 6,556     |           |           |           |           |           |
| 2017     | 2,632                       |           |           |           |           |           |           |

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

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

| Accident | Evaluated as of (in months) |           |           |           |           |           |        |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|--------|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84     |
| 2008     |                             |           |           |           |           |           | 17,985 |
| 2009     |                             |           |           |           |           | 17,961    | 19,077 |
| 2010     |                             |           |           |           | 16,166    | 17,652    | 18,774 |
| 2011     |                             |           |           | 13,593    | 15,949    | 17,354    | 18,402 |
| 2012     |                             |           | 10,413    | 13,500    | 15,708    | 17,034    |        |
| 2013     |                             | 6,347     | 10,481    | 13,383    | 15,428    |           |        |
| 2014     | 2,382                       | 6,474     | 10,771    | 13,782    |           |           |        |
| 2015     | 2,575                       | 6,721     | 10,886    |           |           |           |        |
| 2016     | 2,636                       | 6,556     |           |           |           |           |        |
| 2017     | 2,632                       |           |           |           |           |           |        |

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

| Accident |           |           | Evaluate  | ed as of (in m | nonths)   |           |           |
|----------|-----------|-----------|-----------|----------------|-----------|-----------|-----------|
| Year     | <u>12</u> | <u>24</u> | <u>36</u> | <u>48</u>      | <u>60</u> | <u>72</u> | <u>84</u> |
| 2008     |           |           |           |                |           |           | 2,005,915 |
| 2009     |           |           |           |                |           | 1,796,353 | 1,967,400 |
| 2010     |           |           |           |                | 1,598,577 | 1,825,602 | 2,002,164 |
| 2011     |           |           |           | 1,242,099      | 1,587,506 | 1,806,625 | 1,975,371 |
| 2012     |           |           | 872,540   | 1,305,961      | 1,655,118 | 1,877,279 |           |
| 2013     |           | 433,165   | 937,332   | 1,381,601      | 1,734,908 |           |           |
| 2014     | 78,200    | 463,416   | 1,010,344 | 1,492,449      |           |           |           |
| 2015     | 88,328    | 502,717   | 1,066,953 |                |           |           |           |
| 2016     | 92,284    | 500,535   |           |                |           |           |           |
| 2017     | 94,533    |           |           |                |           |           |           |

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

| Accident | Evaluated as of (in months) |           |           |           |           |           |         |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|---------|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84      |
| 2008     |                             |           |           |           |           |           | 630,331 |
| 2009     |                             |           |           |           |           | 681,876   | 568,445 |
| 2010     |                             |           |           |           | 738,829   | 627,845   | 501,870 |
| 2011     |                             |           |           | 797,424   | 676,036   | 557,721   | 444,125 |
| 2012     |                             |           | 839,235   | 778,049   | 647,822   | 527,534   |         |
| 2013     |                             | 710,449   | 857,691   | 779,397   | 628,878   |           |         |
| 2014     | 282,376                     | 741,351   | 899,481   | 794,168   |           |           |         |
| 2015     | 299,459                     | 779,175   | 900,816   |           |           |           |         |
| 2016     | 311,082                     | 768,009   |           |           |           |           |         |
| 2017     | 316,583                     |           |           |           |           |           |         |

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

(d) Each amount is the product of the adjusted closed indemnity claim counts (Item E) and the adjusted average paid indemnity per closed claim (Item G), and divided by \$1,000.

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

| Accident | Evaluated as of (in months) |           |           |           |           |           |        |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|--------|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84     |
| 2008     |                             |           |           |           |           |           | 46,134 |
| 2009     |                             |           |           |           |           | 39,148    | 43,895 |
| 2010     |                             |           |           |           | 32,707    | 38,223    | 43,231 |
| 2011     |                             |           |           | 26,058    | 31,495    | 36,745    | 41,550 |
| 2012     |                             |           | 18,867    | 25,342    | 30,739    | 36,357    |        |
| 2013     |                             | 10,920    | 18,649    | 25,463    | 31,160    |           |        |
| 2014     | 3,617                       | 11,119    | 19,455    | 26,434    |           |           |        |
| 2015     | 3,706                       | 11,481    | 20,090    |           |           |           |        |
| 2016     | 3,874                       | 11,788    |           |           |           |           |        |
| 2017     | 3,969                       |           |           |           |           |           |        |

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

| Accident | Evaluated as of (in months) |           |           |           |           |           |           |  |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | <u>84</u> |  |
| 2008     |                             |           |           |           |           |           | -122,900  |  |
| 2009     |                             |           |           |           |           | -167,669  | -118,649  |  |
| 2010     |                             |           |           |           | -159,252  | -108,973  | -42,799   |  |
| 2011     |                             |           |           | -137,247  | -110,704  | -54,052   |           |  |
| 2012     |                             |           | -119,275  | -99,847   | -66,519   |           |           |  |
| 2013     |                             | -74,934   | -94,943   | -50,086   |           |           |           |  |
| 2014     | -14,879                     | -64,225   | -64,553   |           |           |           |           |  |
| 2015     | -14,298                     | -46,441   |           |           |           |           |           |  |
| 2016     | -9,847                      |           |           |           |           |           |           |  |

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

| Accident | Evaluated as of (in months) |           |           |           |           |           |           |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | <u>84</u> |
| 2008     |                             |           |           |           |           |           | 507,430   |
| 2009     |                             |           |           |           |           | 514,208   | 449,796   |
| 2010     |                             |           |           |           | 579,578   | 518,872   | 459,072   |
| 2011     |                             |           |           | 660,177   | 565,331   | 503,668   | 444,125   |
| 2012     |                             |           | 719,960   | 678,202   | 581,303   | 527,534   |           |
| 2013     |                             | 635,516   | 762,749   | 729,311   | 628,878   |           |           |
| 2014     | 267,497                     | 677,125   | 834,928   | 794,168   |           |           |           |
| 2015     | 285,161                     | 732,734   | 900,816   |           |           |           |           |
| 2016     | 301,236                     | 768,009   |           |           |           |           |           |
| 2017     | 316,583                     |           |           |           |           |           |           |

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

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

| Accident | Evaluated as of (in months) |           |           |           |           |           |           |  |  |  |  |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | <u>84</u> |  |  |  |  |
| 2008     |                             |           |           |           |           |           | 2,513,346 |  |  |  |  |
| 2009     |                             |           |           |           |           | 2,310,560 | 2,417,196 |  |  |  |  |
| 2010     |                             |           |           |           | 2,178,155 | 2,344,474 | 2,461,235 |  |  |  |  |
| 2011     |                             |           |           | 1,902,276 | 2,152,837 | 2,310,293 | 2,419,496 |  |  |  |  |
| 2012     |                             |           | 1,592,500 | 1,984,163 | 2,236,421 | 2,404,812 |           |  |  |  |  |
| 2013     |                             | 1,068,680 | 1,700,081 | 2,110,911 | 2,363,786 |           |           |  |  |  |  |
| 2014     | 345,697                     | 1,140,541 | 1,845,272 | 2,286,617 |           |           |           |  |  |  |  |
| 2015     | 373,489                     | 1,235,452 | 1,967,769 |           |           |           |           |  |  |  |  |
| 2016     | 393,519                     | 1,268,544 |           |           |           |           |           |  |  |  |  |
| 2017     | 411,116                     |           |           |           |           |           |           |  |  |  |  |

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

| Accident       |              | Evalu | ated as of (ir | months)      |              |       |
|----------------|--------------|-------|----------------|--------------|--------------|-------|
| Year           | <u>12-24</u> | 24-36 | <u>36-48</u>   | <u>48-60</u> | <u>60-72</u> | 72-84 |
| 2008           |              |       |                |              |              |       |
| 2009           |              |       |                |              |              | 1.046 |
| 2010           |              |       |                |              | 1.076        | 1.050 |
| 2011           |              |       |                | 1.132        | 1.073        | 1.047 |
| 2012           |              |       | 1.246          | 1.127        | 1.075        |       |
| 2013           |              | 1.591 | 1.242          | 1.120        |              |       |
| 2014           | 3.299        | 1.618 | 1.239          |              |              |       |
| 2015           | 3.308        | 1.593 |                |              |              |       |
| 2016           | 3.224        |       |                |              |              |       |
| Latest Year    | 3.224        | 1.593 | 1.239          | 1.120        | 1.075        | 1.047 |
| 3-Year Average | 3.277        | 1.600 | 1.242          | 1.126        | 1.075        | 1.048 |

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

| Accident |              | Evaluated as of (in months) |              |              |       |       |  |  |  |  |  |  |  |
|----------|--------------|-----------------------------|--------------|--------------|-------|-------|--|--|--|--|--|--|--|
| Year     | <u>12-24</u> | <u>24-36</u>                | <u>36-48</u> | <u>48-60</u> | 60-72 | 72-84 |  |  |  |  |  |  |  |
| 2009     |              |                             |              |              |       | 1.061 |  |  |  |  |  |  |  |
| 2010     |              |                             |              |              | 1.090 | 1.060 |  |  |  |  |  |  |  |
| 2011     |              |                             |              | 1.141        | 1.086 | 1.056 |  |  |  |  |  |  |  |
| 2012     |              |                             | 1.259        | 1.136        | 1.088 |       |  |  |  |  |  |  |  |
| 2013     |              | 1.604                       | 1.259        | 1.129        |       |       |  |  |  |  |  |  |  |
| 2014     | 3.235        | 1.637                       | 1.256        |              |       |       |  |  |  |  |  |  |  |
| 2015     | 3.279        | 1.618                       |              |              |       |       |  |  |  |  |  |  |  |
| 2016     | 3.236        |                             |              |              |       |       |  |  |  |  |  |  |  |

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

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

| Accident | Evaluated as of (in months) |        |              |              |        |        |  |  |  |  |  |  |
|----------|-----------------------------|--------|--------------|--------------|--------|--------|--|--|--|--|--|--|
| Year     | <u>12-24</u>                | 24-36  | <u>36-48</u> | <u>48-60</u> | 60-72  | 72-84  |  |  |  |  |  |  |
| 2009     |                             |        |              |              |        | -1.36% |  |  |  |  |  |  |
| 2010     |                             |        |              |              | -1.28% | -0.95% |  |  |  |  |  |  |
| 2011     |                             |        |              | -0.84%       | -1.19% | -0.79% |  |  |  |  |  |  |
| 2012     |                             |        | -1.05%       | -0.81%       | -1.13% |        |  |  |  |  |  |  |
| 2013     |                             | -0.80% | -1.34%       | -0.80%       |        |        |  |  |  |  |  |  |
| 2014     | 1.98%                       | -1.15% | -1.34%       |              |        |        |  |  |  |  |  |  |
| 2015     | 0.87%                       | -1.54% |              |              |        |        |  |  |  |  |  |  |
| 2016     | -0.39%                      |        |              |              |        |        |  |  |  |  |  |  |

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

| Accident       |       | Eva          | luated as of | (in months) |       |       |
|----------------|-------|--------------|--------------|-------------|-------|-------|
| Year           | 12-24 | <u>24-36</u> | <u>36-48</u> | 48-60       | 60-72 | 72-84 |
| 2009           |       |              |              |             |       | 1.047 |
| 2010           |       |              |              |             | 1.077 | 1.050 |
| 2011           |       |              |              | 1.134       | 1.074 | 1.048 |
| 2012           |       |              | 1.249        | 1.128       | 1.075 |       |
| 2013           |       | 1.593        | 1.243        | 1.120       |       |       |
| 2014           | 3.293 | 1.616        | 1.240        |             |       |       |
| 2015           | 3.306 | 1.593        |              |             |       |       |
| 2016           | 3.223 |              |              |             |       |       |
| Latest Year    | 3.223 | 1.593        | 1.240        | 1.120       | 1.075 | 1.048 |
| 3-Year Average | 3.274 | 1.601        | 1.244        | 1.127       | 1.075 | 1.048 |

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

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

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

| 1.055<br>1.663<br>1.671<br>1.014<br>1.018<br>1.088<br>1.093  | 240Inc/240Pd (c)<br>1.097                     | 1,088  | 1.093        |  |   | Paid medical loss development factors include the paid cost of medical cost containment programs for accident years 2011 and prior.<br>These factors are adjusted for the following: (i) losses paid prior to January 1, 2013 by -4.2% for SB 863, (ii) losses paid prior to January 1, 2014 by -2.1% and paid prior to January 1, 2015 by -1.7% for the RBRVS-based physician fee schedule changes, and (iii) losses paid prior to January 1, 2013 by -3.5%, -3.8%, -3.4%, -2.4%, and prior to January 1, 2014 by -2.1% and paid prior to January 1, 2015 by -1.7% for the RBRVS-based physician fee schedule changes, and (iii) losses paid prior to July 1, 2017 by -3.6%, -3.8%, -3.4%, -2.4%, and -0.1% to accident years 2011 to 2016, respectively, for the SB 1160 lien reforms.<br>Selections are latest year for the 12-to-24 month through 96-to-108 month factors and three-year average for the subsequent paid age-to-age factors. Paid development factors are selected to age 240, where an incurred-to-paid |
|--|---|--|--------------|--|---|--|
| 1,006<br>11,002<br>11,011<br>1,006<br>1,009  | 240/228<br>1.012                              | 1.007  | 1.009        | 1.141  | I   | for the RB   |
| 1,006<br>1,007<br>1,009<br>1,001<br>1,001<br>1,001<br>1,001<br>1,009   | 228/216                                       | 1.012  | 1.011        | 1.153  | I   | by -1.7% t<br>in reforms.<br>d to age 2 <sup>,</sup>   |
| 1.007<br>1.013<br>1.013<br>1.014<br>1.014<br>1.013<br>1.013<br>1.013<br>1.002  | 216/204                                       | 1.013  | 1.012        | 1.167  | I   | ary 1, 2015<br>SB 1160 lic<br>are selecte  |
| 1.017<br>1.012<br>1.015<br>1.015<br>1.015<br>1.017<br>1.017<br>1.011<br>1.011  | 204/192                                       | 1.016<br>1.012<br>1.012  | 1.013        | 1.183  | I   | ior to Janu<br>ely, for the<br>ent factors   |
| 1.013<br>1.013<br>1.018<br>1.015<br>1.015<br>1.013<br>1.012  | 192/180                                       | 1.012<br>1.012<br>1.012  | 1.013        | 1.198  | I   | and paid pr<br>; respective<br>  developme   |
| 1.017<br>1.018<br>1.016<br>1.016<br>1.019<br>1.017<br>1.017<br>1.013<br>1.013  | 180/168                                       | 1.013<br>1.013<br>1.014  | 1.015        | 1.216  | I   | 4 by -2.1%<br>111 to 2016<br>actors. Paid  |
| 1.019<br>1.019<br>1.019<br>1.019<br>1.019<br>1.019<br>1.016<br>1.016<br>1.016  | 168/156                                       | 1.018<br>1.016<br>1.016  | 1.017        | 1.237  | I   | lary 1, 201₄<br>int years 20<br>je-to-age fa   |
| 1.023<br>1.022<br>1.021<br>1.020<br>1.019<br>1.019<br>1.019<br>1.019   | iths)<br>156/144                              | 1.020  | 1.020        | 1.261  | I   | 1 and prior<br>rior to Janu<br>% to accide<br>ent paid aç  |
| 1022 1026 10<br>1027 1026 10<br>1022 1023 10<br>1022 1023 10<br>1024 1022 10<br>1034 1022 10<br>1034 1024 10<br>1035 1022 10<br>1036 10<br>1037 1022 10<br>1037 10<br>1025 10<br>1025 10<br>1026 10  | ge (in mon<br><u>144/132</u>                  | 1.026  | 1.024        | 1.291  | I   | t years 201<br>sses paid p<br>6, and -0.19<br>he subsequ   |
| 1.032<br>1.032<br>1.037<br>1.030<br>1.034<br>1.034<br>1.034<br>1.034<br>1.035  | Age-to-Age (in months)<br>132/120 144/132 156 | 1.033<br>1.023<br>1.023  | 1.028        | 1.327  | I   | for acciden<br>863, (ii) los<br>2.4%, -0.9%<br>erage for th  |
| 1.032<br>1.034<br>1.034<br>1.036<br>1.036<br>1.036<br>1.036<br>1.036   | 120/108                                       | 1.037  | 1.033        | 1.371  | I   | programs 1<br>.2% for SB<br>%, -3.4%, -2<br>ee-year av   |
| 1.038<br>1.038<br>1.040<br>1.040<br>1.041<br>1.041<br>1.041<br>1.042<br>1.035  | 108/96  | 1.045  | 1.034        | 1.417  | I   | ontainment<br>2013 by -4<br>3.6%, -3.8%<br>tors and thi  |
| 1.045<br>1.045<br>1.048<br>1.055<br>1.056<br>1.057<br>1.057<br>1.057<br>1.043  | 96/84   | 1.055<br>1.045<br>1.045  | 1.045        | 1.481  | I   | dical cost or<br>January 1,<br>, 2017 by -   |
| 1.054<br>1.057<br>1.070<br>1.075<br>1.075<br>1.075<br>1.075<br>1.075<br>1.066<br>1.066   | 84/72   | 1.072<br>1.070<br>1.062  | 1.055(e)     | 1.562  | 1.553   | cost of mec<br>aid prior to<br>or to July 1<br>h 96-to-108   |
| 1.074<br>1.092<br>1.095<br>1.1097<br>1.109<br>1.104<br>1.104<br>1.104<br>1.108<br>1.086  | 72/60   | 1.100  | 1.081(e)     | 1.689  | 1.671   | le the paid<br>(i) losses p<br>ses paid pri<br>onth throug   |
| 1.1.123<br>1.1.140<br>1.1.142<br>1.1.142<br>1.1.160<br>1.1.162<br>1.1.152<br>1.1.130   | 60/48   | 1.154<br>1.134<br>1.134  | 1.126(e)     | 1.902  | 1.866   | ctors incluc<br>following:<br>and (iii) los:<br>!2-to-24 mc  |
| 1.200<br>1.220<br>1.230<br>1.247<br>1.247<br>1.247<br>1.247<br>1.226   | 48/36   | 1.268<br>1.243<br>1.229  | 1.217(e)     | 2.314  | 2.252   | slopment fa<br>sted for the<br>changes, a<br>sar for the 1   |
| 1,389<br>1,447<br>1,447<br>1,447<br>1,447<br>1,448<br>1,448<br>1,448<br>1,448  | 36/24   | 1.476<br>1.485<br>1.440  | 1.428(e)     | 3.305  | 3.193   | Paid medical loss development factors include the paid cost of medical cost containment programs for accident years 2011 and prior.<br>These factors are adjusted for the following: (i) losses paid prior to January 1, 2013 by -4.2%, or SB 863, (ii) losses paid prior to January 1, 2014 by -2.1% and paid prior to January 1, 2015 by -1.7% for the RBRVS-based<br>physician fee schedule changes, and (iii) losses paid prior to July 1, 2017 by -3.2%, -3.8%, -3.4%, -2.4%, and -0.1% to accident years 2011 to 2016, respectively, for the SB 1160 lien reforms.<br>Selections are latest year for the 12-to-24 month through 96-to-108 month factors and three-year average for the subsequent paid age-to-age factors. Paid development factors are selected to age 240, where an incurred.  |
| 2.2416<br>2.3416<br>2.2479<br>2.2661<br>2.2661<br>2.2533<br>2.2533<br>2.2533   | 24/12   | 2.544<br>2.533<br>2.481  | 2.482(e)     | 8.202  | 7.898   | Paid medic<br>These facto<br>hysician fe<br>Selections a   |
| 1991<br>1992<br>1995<br>1995<br>1996<br>1996<br>1999<br>2001<br>2003<br>2004<br>2003<br>2004<br>2003<br>2004<br>2005<br>2003<br>2004<br>2003<br>2004<br>2003<br>2003<br>2004<br>2003<br>2004<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011 | Adjusted (b)<br><u>Accident Year</u><br>1996  | 1997<br>1999<br>1999<br>2000<br>2001<br>2003<br>2004<br>2003<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2015 | Selected (c) | Cumulative Unadjusted<br>for Impact of SB 1160 | Cumulative Adjusted<br>for Impact of SB 1160(f) | (a)<br>(b) T<br>(c) S<br>(c) S   |

(i) The cumulative factors for 12, 24, 36, 48, 60, and 72 months are adjusted by -3.7%, -3.4%, -2.9%, -1.9%, and -0.6%, respectively, for the impact of the SB 1160 reductions in future lien filings.

|                        | <u>ULT/396Inc (d)</u>   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |              | 1.024      | ) factors,  |
|------------------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|------------|---|
|                        | <u>396/384</u><br>0.997 | 1.000 | 0.999 |       |       |       |       |       |       |       |       |       |       |       |       | 0.999        | 1.023      | 348-to-360  |
|                        | 384/372                 | 0.997 | 0.999 | 1.001 |       |       |       |       |       |       |       |       |       |       |       | 1.000        | 1.023      | 20 through  |
|                        | <u>372/360</u>          |       | 0.998 | 0.998 | 1.001 |       |       |       |       |       |       |       |       |       |       | 1.000        | 1.023      | e 108-to-12   |
|                        | 360/348                 |       |       | 1.002 | 0.997 | 0.999 |       |       |       |       |       |       |       |       |       | 1.001        | 1.024      | srage of the  |
| ths)                   | 348/336                 |       |       |       | 1.001 | 0.998 | 0.999 |       |       |       |       |       |       |       |       | 1.000        | 1.024      | ix-year ave   |
| Age-to-Age (in months) | 336/324                 |       |       |       |       | 1.002 | 0.999 | 1.000 |       |       |       |       |       |       |       | 1.003        | 1.027      | re fit to a si<br>t years.  |
| Age-to-A               | 324/312                 |       |       |       |       |       | 0.999 | 1.000 | 0.999 |       |       |       |       |       |       | 1.002        | 1.029      | power curv<br>velopment   |
|                        | 312/300                 |       |       |       |       |       |       | 1.002 | 1.000 | 1.002 |       |       |       |       |       | 1.002        | 1.031      | un inverse  <br>ed to 80 de   |
|                        | 300/288                 |       |       |       |       |       |       |       | 1.001 | 0.999 | 1.000 |       |       |       |       | 1.000        | 1.031      | based on a<br>extrapolate   |
|                        | 288/276                 |       |       |       |       |       |       |       |       | 1.000 | 0.996 | 0.995 |       |       |       | 1.001        | 1.032      | calculated ation, and   |
|                        | 276/264                 |       |       |       |       |       |       |       |       |       | 1.000 | 0.996 | 0.992 |       |       | 1.000        | 1.031      | actor was c   |
|                        | 264/252                 |       |       |       |       |       |       |       |       |       |       | 1.001 | 1.006 | 0.999 |       | 1.002        | 1.033      | The ULT/396Inc tail factor was calculated based on an inverse power curve fit to a six-year average of the 108-to-120 through 348-to-360 factors, excluding the most recent evaluation, and extrapolated to 80 development years. |
|                        | <u>252/240</u>          |       |       |       |       |       |       |       |       |       |       |       | 0.999 | 0.998 | 0.997 | 1.002        | 1.035      | The ULT/3<br>excluding t  |
|                        | Accident Year<br>1983   | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | Selected (c) | Cumulative | (f)   |

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

#### A. Total Reported Indemnity Claim Counts

| Accident |           | Evaluated as of (in months) |           |           |           |           |           |  |  |  |  |  |
|----------|-----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|--|
| Year     | <u>12</u> | <u>24</u>                   | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | <u>84</u> |  |  |  |  |  |
| 2008     |           |                             |           |           |           |           | 122,532   |  |  |  |  |  |
| 2009     |           |                             |           |           |           | 113,152   | 113,376   |  |  |  |  |  |
| 2010     |           |                             |           |           | 116,605   | 117,000   | 117,262   |  |  |  |  |  |
| 2011     |           |                             |           | 116,716   | 117,486   | 117,812   | 118,034   |  |  |  |  |  |
| 2012     |           |                             | 121,957   | 123,499   | 124,282   | 124,718   |           |  |  |  |  |  |
| 2013     |           | 126,442                     | 130,329   | 131,881   | 132,635   |           |           |  |  |  |  |  |
| 2014     | 106,792   | 132,482                     | 136,722   | 138,337   |           |           |           |  |  |  |  |  |
| 2015     | 111,241   | 138,614                     | 142,847   |           |           |           |           |  |  |  |  |  |
| 2016     | 112,781   | 141,505                     |           |           |           |           |           |  |  |  |  |  |
| 2017     | 115,674   |                             |           |           |           |           |           |  |  |  |  |  |

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

| Accident          | Age-to-Age Development (in months): |         |              |              |              |                |            |  |  |  |  |
|-------------------|-------------------------------------|---------|--------------|--------------|--------------|----------------|------------|--|--|--|--|
| Year              | 12-24                               | 24-36   | <u>36-48</u> | <u>48-60</u> | <u>60-72</u> | <u>72-84</u> 8 | 4-Ultimate |  |  |  |  |
| 2009              |                                     |         |              |              |              | 1.002          |            |  |  |  |  |
| 2010              |                                     |         |              |              | 1.003        | 1.002          |            |  |  |  |  |
| 2011              |                                     |         |              | 1.007        | 1.003        | 1.002          |            |  |  |  |  |
| 2012              |                                     |         | 1.013        | 1.006        | 1.004        |                |            |  |  |  |  |
| 2013              |                                     | 1.031   | 1.012        | 1.006        |              |                |            |  |  |  |  |
| 2014              | 1.241                               | 1.032   | 1.012        |              |              |                |            |  |  |  |  |
| 2015              | 1.246                               | 1.031   |              |              |              |                |            |  |  |  |  |
| 2016              | 1.255                               |         |              |              |              |                |            |  |  |  |  |
| Latest Year       | 1.255                               | 1.031   | 1.012        | 1.006        | 1.004        | 1.002          |            |  |  |  |  |
| Cumulative        | 1.328                               | 1.058   | 1.027        | 1.015        | 1.009        | 1.006          | 1.004      |  |  |  |  |
|                   |                                     |         |              |              |              |                |            |  |  |  |  |
| Acc. Year         | 2017                                | 2016    | 2015         | 2014         | 2013         | 2012           | 2011       |  |  |  |  |
| Ult. Claim Counts | 153,616                             | 149,774 | 146,714      | 140,423      | 133,870      | 125,439        | 118,493    |  |  |  |  |

#### C. Closed Indemnity Claim Counts

| Accident | Evaluated as of (in months) |           |           |           |           |           |         |  |  |  |  |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|---------|--|--|--|--|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84      |  |  |  |  |
| 2008     |                             |           |           |           |           |           | 108,869 |  |  |  |  |
| 2009     |                             |           |           |           |           | 95,734    | 100,426 |  |  |  |  |
| 2010     |                             |           |           |           | 94,016    | 100,574   | 105,653 |  |  |  |  |
| 2011     |                             |           |           | 86,114    | 96,021    | 102,634   | 107,345 |  |  |  |  |
| 2012     |                             |           | 77,475    | 92,797    | 103,207   | 110,208   |         |  |  |  |  |
| 2013     |                             | 61,383    | 84,338    | 101,272   | 112,453   |           |         |  |  |  |  |
| 2014     | 28,714                      | 65,810    | 90,489    | 108,293   |           |           |         |  |  |  |  |
| 2015     | 30,440                      | 70,748    | 98,009    |           |           |           |         |  |  |  |  |
| 2016     | 32,472                      | 76,353    |           |           |           |           |         |  |  |  |  |
| 2017     | 35,912                      |           |           |           |           |           |         |  |  |  |  |

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

| Accident | Evaluated as of (in months) |           |           |           |           |           |           |  |  |  |  |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | <u>84</u> |  |  |  |  |
| 2008     |                             |           |           |           |           |           | 88.4%     |  |  |  |  |
| 2009     |                             |           |           |           |           | 84.1%     | 88.2%     |  |  |  |  |
| 2010     |                             |           |           |           | 79.9%     | 85.4%     | 89.8%     |  |  |  |  |
| 2011     |                             |           |           | 72.7%     | 81.0%     | 86.6%     | 90.6%     |  |  |  |  |
| 2012     |                             |           | 61.8%     | 74.0%     | 82.3%     | 87.9%     |           |  |  |  |  |
| 2013     |                             | 45.9%     | 63.0%     | 75.6%     | 84.0%     |           |           |  |  |  |  |
| 2014     | 20.4%                       | 46.9%     | 64.4%     | 77.1%     |           |           |           |  |  |  |  |
| 2015     | 20.7%                       | 48.2%     | 66.8%     |           |           |           |           |  |  |  |  |
| 2016     | 21.7%                       | 51.0%     |           |           |           |           |           |  |  |  |  |
| 2017     | 23.4%                       |           |           |           |           |           |           |  |  |  |  |

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

| Accident | Evaluated as of (in months) |           |           |           |           |           |         |  |  |  |  |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|---------|--|--|--|--|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84      |  |  |  |  |
| 2008     |                             |           |           |           |           |           | 111,533 |  |  |  |  |
| 2009     |                             |           |           |           |           | 100,016   | 103,129 |  |  |  |  |
| 2010     |                             |           |           |           | 98,885    | 103,425   | 106,643 |  |  |  |  |
| 2011     |                             |           |           | 91,381    | 99,536    | 104,105   | 107,345 |  |  |  |  |
| 2012     |                             |           | 83,797    | 96,737    | 105,371   | 110,208   |         |  |  |  |  |
| 2013     |                             | 68,245    | 89,429    | 103,239   | 112,453   |           |         |  |  |  |  |
| 2014     | 32,828                      | 71,586    | 93,807    | 108,293   |           |           |         |  |  |  |  |
| 2015     | 34,298                      | 74,793    | 98,009    |           |           |           |         |  |  |  |  |
| 2016     | 35,014                      | 76,353    |           |           |           |           |         |  |  |  |  |
| 2017     | 35,912                      |           |           |           |           |           |         |  |  |  |  |

#### F. Average Paid Medical per Closed Indemnity Claim

| Accident | Evaluated as of (in months) |           |           |           |           |           |           |  |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | <u>84</u> |  |
| 2008     |                             |           |           |           |           |           | 20,668    |  |
| 2009     |                             |           |           |           |           | 20,134    | 22,644    |  |
| 2010     |                             |           |           |           | 17,961    | 20,829    | 23,448    |  |
| 2011     |                             |           |           | 13,878    | 17,298    | 20,267    | 22,454    |  |
| 2012     |                             |           | 10,033    | 13,818    | 17,077    | 19,421    |           |  |
| 2013     |                             | 5,753     | 10,044    | 13,644    | 16,529    |           |           |  |
| 2014     | 2,393                       | 5,836     | 10,080    | 13,689    |           |           |           |  |
| 2015     | 2,529                       | 6,272     | 10,459    |           |           |           |           |  |
| 2016     | 2,737                       | 6,512     |           |           |           |           |           |  |
| 2017     | 2,921                       |           |           |           |           |           |           |  |

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

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

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

| Accident | Evaluated as of (in months) |           |           |           |           |           |           |  |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | <u>84</u> |  |
| 2008     |                             |           |           |           |           |           | 22,181    |  |
| 2009     |                             |           |           |           |           | 22,413    | 24,111    |  |
| 2010     |                             |           |           |           | 20,050    | 22,261    | 23,992    |  |
| 2011     |                             |           |           | 15,603    | 18,818    | 20,926    | 22,454    |  |
| 2012     |                             |           | 11,450    | 14,972    | 17,770    | 19,421    |           |  |
| 2013     |                             | 6,796     | 11,013    | 14,112    | 16,529    |           |           |  |
| 2014     | 2,642                       | 6,632     | 10,671    | 13,689    |           |           |           |  |
| 2015     | 2,759                       | 6,766     | 10,459    |           |           |           |           |  |
| 2016     | 2,878                       | 6,512     |           |           |           |           |           |  |
| 2017     | 2,921                       |           |           |           |           |           |           |  |

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

| Accident | Evaluated as of (in months) |           |           |           |           |           |           |  |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84        |  |
| 2008     |                             |           |           |           |           |           | 2,473,871 |  |
| 2009     |                             |           |           |           |           | 2,241,710 | 2,486,583 |  |
| 2010     |                             |           |           |           | 1,982,604 | 2,302,339 | 2,558,574 |  |
| 2011     |                             |           |           | 1,425,806 | 1,873,073 | 2,178,541 | 2,410,302 |  |
| 2012     |                             |           | 959,457   | 1,448,333 | 1,872,425 | 2,140,333 |           |  |
| 2013     |                             | 463,805   | 984,881   | 1,456,941 | 1,858,692 |           |           |  |
| 2014     | 86,730                      | 474,768   | 1,001,031 | 1,482,378 |           |           |           |  |
| 2015     | 94,619                      | 506,066   | 1,025,062 |           |           |           |           |  |
| 2016     | 100,754                     | 497,244   |           |           |           |           |           |  |
| 2017     | 104,899                     |           |           |           |           |           |           |  |

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

| Accident | Evaluated as of (in months) |           |           |           |           |           |         |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|---------|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84      |
| 2008     |                             |           |           |           |           |           | 968,523 |
| 2009     |                             |           |           |           |           | 1,021,229 | 885,474 |
| 2010     |                             |           |           |           | 1,063,283 | 938,127   | 768,797 |
| 2011     |                             |           |           | 1,043,365 | 932,771   | 782,754   | 631,080 |
| 2012     |                             |           | 994,992   | 965,034   | 826,717   | 686,986   |         |
| 2013     |                             | 827,672   | 962,054   | 893,649   | 731,717   |           |         |
| 2014     | 348,906                     | 822,933   | 944,311   | 836,170   |           |           |         |
| 2015     | 364,097                     | 834,392   | 907,267   |           |           |           |         |
| 2016     | 380,243                     | 831,340   |           |           |           |           |         |
| 2017     | 402,015                     |           |           |           |           |           |         |

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

(d) Each amount is equal to the product of [adjusted closed indemnity claim counts (Item E)] and [adjusted average paid medical per closed indemnity claim (Item G)], and divided by \$1,000.

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

| Accident | Evaluated as of (in months) |           |           |           |           |           |        |  |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|--------|--|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84     |  |
| 2008     |                             |           |           |           |           |           | 70,886 |  |
| 2009     |                             |           |           |           |           | 58,630    | 68,376 |  |
| 2010     |                             |           |           |           | 47,071    | 57,112    | 66,224 |  |
| 2011     |                             |           |           | 34,095    | 43,455    | 51,572    | 59,040 |  |
| 2012     |                             |           | 22,368    | 31,432    | 39,227    | 47,346    |        |  |
| 2013     |                             | 12,722    | 20,918    | 29,196    | 36,256    |           |        |  |
| 2014     | 4,469                       | 12,343    | 20,425    | 27,832    |           |           |        |  |
| 2015     | 4,506                       | 12,295    | 20,234    |           |           |           |        |  |
| 2016     | 4,735                       | 12,760    |           |           |           |           |        |  |
| 2017     | 5,040                       |           |           |           |           |           |        |  |

#### 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     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | <u>84</u> |  |
| 2008     |                             |           |           |           |           |           | -188,840  |  |
| 2009     |                             |           |           |           |           | -251,113  | -184,821  |  |
| 2010     |                             |           |           |           | -229,187  | -162,827  | -65,562   |  |
| 2011     |                             |           |           | -179,576  | -152,746  | -75,862   |           |  |
| 2012     |                             |           | -141,412  | -123,843  | -84,888   |           |           |  |
| 2013     |                             | -87,297   | -106,495  | -57,428   |           |           |           |  |
| 2014     | -18,384                     | -71,293   | -67,770   |           |           |           |           |  |
| 2015     | -17,385                     | -49,732   |           |           |           |           |           |  |
| 2016     | -12,036                     |           |           |           |           |           |           |  |

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

| Accident | Evaluated as of (in months) |           |           |           |           |           |         |  |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|---------|--|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84      |  |
| 2008     |                             |           |           |           |           |           | 779,683 |  |
| 2009     |                             |           |           |           |           | 770,116   | 700,652 |  |
| 2010     |                             |           |           |           | 834,096   | 775,300   | 703,235 |  |
| 2011     |                             |           |           | 863,789   | 780,025   | 706,892   | 631,080 |  |
| 2012     |                             |           | 853,579   | 841,191   | 741,829   | 686,986   |         |  |
| 2013     |                             | 740,375   | 855,559   | 836,221   | 731,717   |           |         |  |
| 2014     | 330,522                     | 751,640   | 876,540   | 836,170   |           |           |         |  |
| 2015     | 346,712                     | 784,660   | 907,267   |           |           |           |         |  |
| 2016     | 368,207                     | 831,340   |           |           |           |           |         |  |
| 2017     | 402,015                     |           |           |           |           |           |         |  |

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

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

| Accident |           | Evaluated as of (in months) |           |           |           |           |           |  |  |
|----------|-----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|--|--|
| Year     | <u>12</u> | <u>24</u>                   | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | <u>84</u> |  |  |
| 2008     |           |                             |           |           |           |           | 251,028   |  |  |
| 2009     |           |                             |           |           |           | 225,380   | 227,790   |  |  |
| 2010     |           |                             |           |           | 221,335   | 223,663   | 226,736   |  |  |
| 2011     |           |                             |           | 207,660   | 211,276   | 214,797   | 218,367   |  |  |
| 2012     |           |                             | 208,935   | 214,270   | 219,641   | 224,211   |           |  |  |
| 2013     |           | 202,240                     | 212,550   | 220,321   | 226,737   |           |           |  |  |
| 2014     | 150,884   | 225,283                     | 237,008   | 244,580   |           |           |           |  |  |
| 2015     | 157,654   | 238,446                     | 249,181   |           |           |           |           |  |  |
| 2016     | 168,931   | 254,110                     |           |           |           |           |           |  |  |
| 2017     | 186,648   |                             |           |           |           |           |           |  |  |

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

| Accident | Evaluated as of (in months) |           |           |           |           |           |           |  |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84        |  |
| 2008     |                             |           |           |           |           |           | 3,504,581 |  |
| 2009     |                             |           |           |           |           | 3,237,206 | 3,415,025 |  |
| 2010     |                             |           |           |           | 3,078,076 | 3,344,823 | 3,533,825 |  |
| 2011     |                             |           |           | 2,715,385 | 3,105,484 | 3,354,485 | 3,524,053 |  |
| 2012     |                             |           | 2,021,971 | 2,503,793 | 2,833,896 | 3,051,530 |           |  |
| 2013     |                             | 1,406,420 | 2,052,989 | 2,513,484 | 2,817,147 |           |           |  |
| 2014     | 568,136                     | 1,451,691 | 2,114,579 | 2,563,128 |           |           |           |  |
| 2015     | 598,985                     | 1,529,172 | 2,181,510 |           |           |           |           |  |
| 2016     | 637,893                     | 1,582,694 |           |           |           |           |           |  |
| 2017     | 693,562                     |           |           |           |           |           |           |  |

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

| Accident    |       | Eva          | luated as o  | f (in month  | s)           |       |
|-------------|-------|--------------|--------------|--------------|--------------|-------|
| Year        | 12-24 | <u>24-36</u> | <u>36-48</u> | <u>48-60</u> | <u>60-72</u> | 72-84 |
| 2009        |       |              |              |              |              | 1.055 |
| 2010        |       |              |              |              | 1.087        | 1.057 |
| 2011        |       |              |              | 1.144        | 1.080        | 1.051 |
| 2012        |       |              | 1.238        | 1.132        | 1.077        |       |
| 2013        |       | 1.460        | 1.224        | 1.121        |              |       |
| 2014        | 2.555 | 1.457        | 1.212        |              |              |       |
| 2015        | 2.553 | 1.427        |              |              |              |       |
| 2016        | 2.481 |              |              |              |              |       |
| Latest Year | 2.481 | 1.427        | 1.212        | 1.121        | 1.077        | 1.051 |

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

#### P. Paid Medical Loss Development Factors (i)

| Accident | Evaluated as of (in months) |              |              |              |              |       |  |  |  |
|----------|-----------------------------|--------------|--------------|--------------|--------------|-------|--|--|--|
| Year     | 12-24                       | <u>24-36</u> | <u>36-48</u> | <u>48-60</u> | <u>60-72</u> | 72-84 |  |  |  |
| 2009     |                             |              |              |              |              | 1.067 |  |  |  |
| 2010     |                             |              |              |              | 1.095        | 1.066 |  |  |  |
| 2011     |                             |              |              | 1.143        | 1.094        | 1.058 |  |  |  |
| 2012     |                             |              | 1.242        | 1.141        | 1.086        |       |  |  |  |
| 2013     |                             | 1.462        | 1.234        | 1.129        |              |       |  |  |  |
| 2014     | 2.519                       | 1.462        | 1.224        |              |              |       |  |  |  |
| 2015     | 2.533                       | 1.438        |              |              |              |       |  |  |  |
| 2016     | 2.481                       |              |              |              |              |       |  |  |  |

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

| Accident |       | Evaluated as of (in months) |              |              |              |        |  |  |  |  |
|----------|-------|-----------------------------|--------------|--------------|--------------|--------|--|--|--|--|
| Year     | 12-24 | <u>24-36</u>                | <u>36-48</u> | <u>48-60</u> | <u>60-72</u> | 72-84  |  |  |  |  |
| 2009     |       |                             |              |              |              | -1.15% |  |  |  |  |
| 2010     |       |                             |              |              | -0.78%       | -0.90% |  |  |  |  |
| 2011     |       |                             |              | 0.03%        | -1.24%       | -0.68% |  |  |  |  |
| 2012     |       |                             | -0.34%       | -0.81%       | -0.88%       |        |  |  |  |  |
| 2013     |       | -0.14%                      | -0.82%       | -0.71%       |              |        |  |  |  |  |
| 2014     | 1.42% | -0.34%                      | -1.00%       |              |              |        |  |  |  |  |
| 2015     | 0.79% | -0.83%                      |              |              |              |        |  |  |  |  |
| 2016     | 0.02% |                             |              |              |              |        |  |  |  |  |

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

| Accident                      | Evaluated as of (in months) |                |                |                |                |                |  |
|-------------------------------|-----------------------------|----------------|----------------|----------------|----------------|----------------|--|
| Year                          | 12-24                       | 24-36          | 36-48          | 48-60          | 60-72          | 72-84          |  |
| 2009                          |                             |                |                |                |                | 1.060          |  |
| 2010                          |                             |                |                |                | 1.093          | 1.060          |  |
| 2011                          |                             |                |                | 1.154          | 1.086          | 1.055          |  |
| 2012                          |                             |                | 1.254          | 1.139          | 1.081          |                |  |
| 2013                          |                             | 1.474          | 1.233          | 1.126          |                |                |  |
| 2014                          | 2.580                       | 1.460          | 1.217          |                |                |                |  |
| 2015                          | 2.553                       | 1.428          |                |                |                |                |  |
| 2016                          | 2.482                       |                |                |                |                |                |  |
| Latest Year<br>3-Year Average | 2.482<br>2.538              | 1.428<br>1.454 | 1.217<br>1.234 | 1.126<br>1.140 | 1.081<br>1.087 | 1.055<br>1.058 |  |
| 5-i cai Avelage               | 2.000                       | 1.404          | 1.204          | 1.140          | 1.007          | 1.000          |  |

(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].

| Adjusted for Changes in Claim Settlement Rates |                 |                  |                  |                  |                        |  |  |  |
|--|-----------------|------------------|------------------|------------------|------------------------|--|--|--|
| Based on Experience as of December 31, 2017    |                 |                  |                  |                  |                        |  |  |  |
|  | _               | De               | evelopment Fac   | tors             | _                      |  |  |  |
|  |                 |                  | Cum              | ulative          | _                      |  |  |  |
|  | (1)             | (2)              | (3)              | (4)              | (5)                    |  |  |  |
|  | Paid or         |                  | Unadjusted       | Adjusted         | Projected              |  |  |  |
|  | Incurred Loss   |                  | for Impact of    | for Impact of    | Ultimate Loss          |  |  |  |
| Accident Year                                  | <u>Ratio(a)</u> | <u>Annual(b)</u> | <u>SB 863(b)</u> | <u>SB 863(b)</u> | <u>Ratio</u>           |  |  |  |
|  |                 |                  |                  |                  | $(5) = (1) \times (4)$ |  |  |  |
| 1985   | 0.446           | 1.001            | 1.003            | 1.003            | 0.448                  |  |  |  |
| 1986   | 0.396           | 1.000            | 1.003            | 1.003            | 0.397                  |  |  |  |
| 1987   | 0.346           | 1.000            | 1.003            | 1.003            | 0.347                  |  |  |  |
| 1988   | 0.330           | 1.000            | 1.003            | 1.003            | 0.331                  |  |  |  |
| 1989   | 0.343           | 1.001            | 1.004            | 1.004            | 0.344                  |  |  |  |
| 1990   | 0.397           | 1.001            | 1.004            | 1.004            | 0.399                  |  |  |  |
| 1991   | 0.424           | 1.001            | 1.005            | 1.005            | 0.426                  |  |  |  |
| 1992   | 0.349           | 1.001            | 1.005            | 1.005            | 0.351                  |  |  |  |
| 1993   | 0.287           | 1.000            | 1.006            | 1.006            | 0.289                  |  |  |  |
| 1994   | 0.327           | 1.000            | 1.006            | 1.006            | 0.329                  |  |  |  |
| 1995   | 0.473           | 1.000            | 1.006            | 1.006            | 0.476                  |  |  |  |
| 1996   | 0.529           | 1.001            | 1.006            | 1.006            | 0.533                  |  |  |  |
| 1997   | 0.599           | 1.001            | 1.007            | 1.007            | 0.603                  |  |  |  |
| 1998   | 0.651           | 1.000            | 1.007            | 1.007            | 0.655                  |  |  |  |
| 1999   | 0.667           | 1.003            | 1.034            | 1.034            | 0.690                  |  |  |  |
| 2000   | 0.574           | 1.003            | 1.037            | 1.037            | 0.596                  |  |  |  |
| 2001   | 0.474           | 1.005            | 1.042            | 1.042            | 0.494                  |  |  |  |
| 2002   | 0.352           | 1.004            | 1.046            | 1.046            | 0.368                  |  |  |  |
| 2003   | 0.230           | 1.005            | 1.052            | 1.052            | 0.242                  |  |  |  |
| 2004   | 0.137           | 1.007            | 1.059            | 1.059            | 0.145                  |  |  |  |
| 2005   | 0.116           | 1.009            | 1.068            | 1.068            | 0.124                  |  |  |  |
| 2006   | 0.148           | 1.012            | 1.081            | 1.081            | 0.160                  |  |  |  |
| 2007   | 0.201           | 1.015            | 1.098            | 1.098            | 0.221                  |  |  |  |
| 2008   | 0.252           | 1.019            | 1.119            | 1.119            | 0.282                  |  |  |  |
| 2009   | 0.288           | 1.025            | 1.147            | 1.147            | 0.330                  |  |  |  |
| 2010   | 0.272           | 1.031            | 1.183            | 1.183            | 0.322                  |  |  |  |
| 2011   | 0.244           | 1.038            | 1.228            | 1.228            | 0.300                  |  |  |  |
| 2012   | 0.210           | 1.048            | 1.286            | 1.286            | 0.270                  |  |  |  |
| 2013   | 0.170           | 1.075            | 1.383            | 1.410            | 0.240                  |  |  |  |
| 2014   | 0.144           | 1.120            | 1.548            | 1.629            | 0.235                  |  |  |  |
| 2015   | 0.115           | 1.240            | 1.920            | 2.020            | 0.233                  |  |  |  |
| 2016   | 0.071           | 1.593            | 3.059            | 3.218            | 0.227                  |  |  |  |
| 2017   | 0.023           | 3.223            | 9.858            | 10.371           | 0.242                  |  |  |  |

# Developed Indemnity Loss Ratios Using Selected Loss Development Factors Adjusted for Changes in Claim Settlement Rates Based on Experience as of December 31, 2017

 Based on Exhibit 1. To reflect the selected loss development methodology, reported loss ratios displayed prior to 1999 are on an incurred basis.
 Subsequent reported loss ratios are on a paid basis.

(b) See Exhibits 2.5.1 and 2.5.2.

#### Developed Medical Loss Ratios Using Selected Loss Development Factors Adjusted for Changes in Claim Settlement Rates Based on Experience as of December 31, 2017

|          | (1)              | (2)              | (3)                 | (4)<br>Reform Ad            | (5)<br>djusted | (6)           | (7)               |  |
|----------|------------------|------------------|---------------------|-----------------------------|----------------|---------------|-------------------|--|
|          |                  |                  | Development Factors |                             |                |               |                   |  |
|          | Unadjusted       | Adjusted         |                     | Cumu                        | lative         | Adjusted      | Projected         |  |
| Accident | Paid or Incurred | Paid or Incurred |                     | Unadjusted for Adjusted for |                |               | Ultimate          |  |
| Year     | Loss Ratio(a)    | Loss Ratio(b)    | Annual(c)           | Reforms(c)                  | Reforms(c)     | Loss Ratio(d) | Loss Ratio        |  |
|          |                  |                  |                     |                             |                | (2) x (5)     | (1) + ((6) - (2)) |  |
| 1985     | 0.350            | 0.350            | 1.000               | 1.024                       | 1.024          | 0.359         | 0.359             |  |
| 1986     | 0.333            | 0.333            | 0.999               | 1.023                       | 1.023          | 0.340         | 0.340             |  |
| 1987     | 0.314            | 0.314            | 1.000               | 1.023                       | 1.023          | 0.321         | 0.321             |  |
| 1988     | 0.304            | 0.304            | 1.000               | 1.023                       | 1.023          | 0.311         | 0.311             |  |
| 1989     | 0.325            | 0.325            | 1.001               | 1.024                       | 1.024          | 0.333         | 0.333             |  |
| 1990     | 0.367            | 0.367            | 1.000               | 1.024                       | 1.024          | 0.376         | 0.376             |  |
| 1991     | 0.384            | 0.384            | 1.003               | 1.027                       | 1.027          | 0.394         | 0.394             |  |
| 1992     | 0.320            | 0.320            | 1.002               | 1.029                       | 1.029          | 0.329         | 0.329             |  |
| 1993     | 0.267            | 0.267            | 1.002               | 1.031                       | 1.031          | 0.275         | 0.275             |  |
| 1994     | 0.308            | 0.308            | 1.000               | 1.031                       | 1.031          | 0.317         | 0.317             |  |
| 1995     | 0.454            | 0.454            | 1.001               | 1.032                       | 1.032          | 0.468         | 0.468             |  |
| 1996     | 0.486            | 0.486            | 1.000               | 1.031                       | 1.031          | 0.502         | 0.502             |  |
| 1997     | 0.545            | 0.545            | 1.002               | 1.033                       | 1.033          | 0.563         | 0.563             |  |
| 1998     | 0.657            | 0.657            | 1.002               | 1.035                       | 1.035          | 0.680         | 0.680             |  |
| 1999     | 0.656            | 0.608            | 1.009               | 1.141                       | 1.141          | 0.693         | 0.742             |  |
| 2000     | 0.592            | 0.549            | 1.011               | 1.153                       | 1.153          | 0.633         | 0.677             |  |
| 2001     | 0.520            | 0.482            | 1.012               | 1.167                       | 1.167          | 0.563         | 0.601             |  |
| 2002     | 0.400            | 0.371            | 1.013               | 1.183                       | 1.183          | 0.439         | 0.468             |  |
| 2003     | 0.254            | 0.235            | 1.013               | 1.198                       | 1.198          | 0.282         | 0.300             |  |
| 2004     | 0.171            | 0.159            | 1.015               | 1.216                       | 1.216          | 0.193         | 0.205             |  |
| 2005     | 0.166            | 0.154            | 1.017               | 1.237                       | 1.237          | 0.191         | 0.202             |  |
| 2006     | 0.211            | 0.197            | 1.020               | 1.261                       | 1.261          | 0.248         | 0.263             |  |
| 2007     | 0.292            | 0.273            | 1.024               | 1.291                       | 1.291          | 0.352         | 0.371             |  |
| 2008     | 0.359            | 0.337            | 1.028               | 1.327                       | 1.327          | 0.447         | 0.470             |  |
| 2009     | 0.410            | 0.386            | 1.033               | 1.371                       | 1.371          | 0.529         | 0.553             |  |
| 2010     | 0.393            | 0.373            | 1.034               | 1.417                       | 1.417          | 0.529         | 0.549             |  |
| 2011     | 0.325            | 0.312            | 1.045               | 1.481                       | 1.481          | 0.462         | 0.475             |  |
| 2012     | 0.266            | 0.259            | 1.055               | 1.562                       | 1.553          | 0.402         | 0.409             |  |
| 2013     | 0.203            | 0.200            | 1.081               | 1.689                       | 1.671          | 0.335         | 0.337             |  |
| 2014     | 0.162            | 0.161            | 1.126               | 1.902                       | 1.866          | 0.300         | 0.301             |  |
| 2015     | 0.128            | 0.128            | 1.217               | 2.314                       | 2.252          | 0.288         | 0.288             |  |
| 2016     | 0.088            | 0.088            | 1.428               | 3.305                       | 3.193          | 0.281         | 0.281             |  |
| 2017     | 0.039            | 0.039            | 2.482               | 8.202                       | 7.898          | 0.310         | 0.310             |  |
|          |                  |                  |                     |                             |                |               |                   |  |

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

(b) Based on experience evaluated as of December 31, 2017. Reflects an adjustment for SB 863 of -4.2% applied to payments made before January 1, 2013, and adjustments for RBRVS of -2.1% applied to payments made before January 1, 2014, and -1.7% applied to payments made before January 1, 2015. No adjustments are applied to the incurred loss ratios.

(c) See Exhibits 2.6.1 and 2.6.2.

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

# Indemnity Benefit Level Factors

| Accident<br><u>Year</u> | (1)<br>Annual Benefit<br>Change Prior to<br>Frequency<br><u>Adjustments (a)</u> | (2)<br>Frequency<br><u>Adjustments (a)</u> | (3)<br>Annual Impact<br>on Indemnity Ben<br>Due to Wage<br>Inflation (b) | (4a)<br>Annual<br>efits Cost<br>Impact on<br><u>Indemnity (c)</u> | (5a)<br>Composite<br>Indemnity<br>Adjustment<br><u>Factor (d)</u> |
|-------------------------|---|--|--|---|---|
| 1985                    | 0.0   | 0.0  | 2.0  | 2.0   | 1.528   |
| 1986                    | 0.0   | 0.0  | 1.6  | 1.6   | 1.504   |
| 1987                    | 0.0   | 0.0  | 1.9  | 1.9   | 1.476   |
| 1988                    | 0.0   | 0.0  | 1.5  | 1.5   | 1.454   |
| 1989                    | 0.0   | 0.0  | 1.5  | 1.5   | 1.433   |
| 1990                    | 2.3   | 19.9                                       | 1.7  | 24.7  | 1.149   |
| 1991                    | 4.9   | 14.8                                       | 0.8  | 21.4  | 0.946   |
| 1992                    | 1.8   | -8.3                                       | 1.6  | -5.2  | 0.998   |
| 1993                    | 0.2   | -18.1                                      | 0.4  | -17.6   | 1.211   |
| 1994                    | -5.1  | 0.2  | 0.6  | -4.3  | 1.266   |
| 1995                    | 6.3   | 0.6  | 1.0  | 8.0   | 1.172   |
| 1996                    | 5.3   | 0.4  | 1.2  | 7.0   | 1.095   |
| 1997                    | 9.7   | 0.2  | 1.6  | 11.7  | 0.981   |
| 1998                    | 6.5   | 0.0  | 1.8  | 8.4   | 0.905   |
| 1999                    | 5.7   | 0.0  | 2.1  | 7.9   | 0.838   |
| 2000                    | 3.9   | 0.0  | 3.1  | 7.1   | 0.783   |
| 2001                    | -0.3  | 0.0  | 0.2  | -0.1  | 0.783   |
| 2002                    | -0.7  | 0.0  | 0.2  | -0.5  | 0.804 (e)   |
| 2003                    | 7.3   | 0.0  | 1.1  | 8.5   | 0.804 (e)   |
| 2004                    | -6.0  | -13.7                                      | 1.6  | -17.6   | 1.107 (e)   |
| 2005                    | -31.6   | -15.3                                      | 1.1  | -41.5   | 1.503   |
| 2006                    | 5.6   | -5.7                                       | 1.6  | 1.2   | 1.486   |
| 2007                    | 1.6   | 0.0  | 1.6  | 3.2   | 1.439   |
| 2008                    | 4.8   | 0.6  | 0.7  | 6.2   | 1.356   |
| 2009                    | 0.4   | 1.4  | 0.2  | 2.0   | 1.329   |
| 2010                    | 0.4   | 0.0  | 1.0  | 1.4   | 1.311   |
| 2011                    | 0.0   | 0.0  | 1.6  | 1.6   | 1.290   |
| 2012                    | 0.3   | 0.0  | 2.1  | 2.4   | 1.260   |
| 2013                    | 2.6   | 0.2  | 0.4  | 3.2   | 1.220   |
| 2014                    | 7.0   | 1.5  | 1.7  | 10.4  | 1.105   |
| 2015                    | 0.3   | 0.0  | 2.3  | 2.6   | 1.077   |
| 2016                    | 0.3   | 0.0  | 1.0  | 1.3   | 1.064   |
| 2017                    | 0.5   | 0.0  | 1.5  | 2.0   | 1.043   |
| 2018                    | 0.4   | 0.0  | 2.1  | 2.5   |   |
| 4/1/2019                | 0.3 (Anı  | nual 0.4) 0.0                              | 1.4 (A   | nnual 1.9) 1.7  |   |

(a) Based on WCIRB evaluations of the average impact of legislative changes on the cost of indemnity benefits. These annual changes in benefits reflect the WCIRB's retrospective estimates of the cost impact of recent legislation as reflected in emerging post-reform costs. The annual cost impacts have been segregated between claim severity and claim frequency impacts.

(b) These impacts are based on the weekly wages (See Exhibit 5.1) of injured workers and the legislatively scheduled benefits for that year.

(c) { [Column (1) /100 + 1.0] x [Column (2) /100 + 1.0] x [Column (3) /100 + 1.0] - 1.0 } x 100.

(d) These factors represent the combined impact of the annual benefit changes on claim severity shown in Column (1), claim frequencies shown in Column (2) and wage inflation impact on benefits shown in Column (3), adjusted to the 4/1/2019 level.

(e) On-level factors for accident years 2002, 2003 and 2004 adjust the portion of permanent disability claims that are estimated to not be subject to the January 1, 2005 PDRS (95% for accident year 2002, 75% for accident year 2003 and 40% for accident year 2004) to the January 1, 2005 PDRS level, and adjust for the corresponding utilization impacts on all 2002, 2003 and 2004 indemnity claims.

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

|          | (1)                      | (2)                          | (3)                       |               | (4)     |               | (5)                   |          | (6)                       |
|----------|--------------------------|------------------------------|---------------------------|---------------|---------|---------------|-----------------------|----------|---------------------------|
|          | Proportion of<br>Medical | Proportion of<br>Medical Not | Impact of<br>Fee Schedule | C             | hange   | in C          | Impact of<br>PI Chang |          | Annual<br>Non-Legislative |
| Accident | Subject to               | Subject to                   | Change on                 |               | Medica  |               | on Total              | e        | Cost Impact on            |
| Year     | Fee Schedule (a)         | Fee Schedule (a)             | Total Medical (b          |               | CPI (c) |               | Medical (d            | )        | Total Medical (e)         |
| 1985     | 0.665                    | 0.335                        | 2.3%                      |               | 6.5%    | -             | 2.2%                  | -        | 4.5%                      |
| 1986     | 0.604                    | 0.396                        | 0.0%                      |               | 9.1%    |               | 3.0%                  |          | 3.0%                      |
| 1987     | 0.610                    | 0.390                        | 0.9%                      |               | 7.4%    |               | 2.9%                  |          | 3.8%                      |
| 1988     | 0.649                    | 0.351                        | 0.8%                      |               | 7.7%    |               | 3.0%                  |          | 3.8%                      |
| 1989     | 0.647                    | 0.353                        | 0.0%                      |               | 8.6%    |               | 3.0%                  |          | 3.0%                      |
| 1990     | 0.661                    | 0.339                        | 0.0%                      |               | 10.4%   |               | 3.7%                  |          | 3.7%                      |
| 1991     | 0.631                    | 0.369                        | 0.0%                      |               | 10.6%   |               | 3.6%                  |          | 3.6%                      |
| 1992     | 0.628                    | 0.372                        | 0.0%                      |               | 8.1%    |               | 3.0%                  |          | 3.0%                      |
| 1993     | 0.565                    | 0.435                        | 0.0%                      |               | 7.3%    |               | 2.7%                  |          | 2.7%                      |
| 1994     | 0.691                    | 0.309                        | -3.6%                     |               | 4.3%    |               | 1.3%                  | (i)      | -2.3%                     |
| 1995     | 0.681                    | 0.319                        | 0.0%                      |               | 3.0%    |               | 0.9%                  |          | 0.9%                      |
| 1996     | 0.663                    | 0.337                        | 0.0%                      |               | 3.0%    |               | 1.0%                  |          | 1.0%                      |
| 1997     | 0.643                    | 0.357                        | 0.0%                      |               | 2.2%    |               | 0.7%                  |          | 0.7%                      |
| 1998     | 0.658                    | 0.342                        | 0.0%                      |               | 2.2%    |               | 0.8%                  |          | 0.8%                      |
| 1999     | 0.728                    | 0.272                        | 1.6%                      |               | 3.3%    |               | 0.9%                  | (ii)     | 2.5%                      |
| 2000     | 0.715                    | 0.285                        | 0.5%                      |               | 4.3%    |               | 1.2%                  |          | 1.7%                      |
| 2001     | 0.722                    | 0.278                        | 1.5%                      |               | 4.8%    |               | 1.4%                  |          | 2.9%                      |
| 2002     | 0.635                    | 0.365                        | 0.6%                      |               | 5.1%    |               | 1.4%                  |          | 2.0%                      |
| 2003     | 0.786                    | 0.214                        | 0.0%                      |               | 4.8%    |               | 1.4%                  | (iii)    | 1.4%                      |
| 2004     | 0.952                    | 0.048                        | 0.0%                      |               | 5.0%    |               | 0.0%                  | (iv),(v) | 0.0%                      |
| 2005     | 0.936                    | 0.064                        | 0.0%                      |               | 4.8%    |               | 0.0%                  | (v)      | 0.0%                      |
| 2006     | 0.926                    | 0.074                        | 0.0%                      |               | 4.1%    |               | 0.3%                  |          | 0.3%                      |
| 2007     | 0.923                    | 0.077                        | 1.4%                      |               | 5.3%    |               | 0.4%                  |          | 1.8%                      |
| 2008     | 0.896                    | 0.104                        | -0.1%                     |               | 4.2%    |               | 0.3%                  |          | 0.2%                      |
| 2009     | 0.894                    | 0.106                        | 0.0%                      |               | 3.6%    |               | 0.4%                  |          | 0.4%                      |
| 2010     | 0.895                    | 0.105                        | 0.0%                      |               | 2.8%    |               | 0.3%                  |          | 0.3%                      |
| 2011     | 0.969                    | 0.031                        | 0.0%                      |               | 3.2%    |               | 0.3%                  |          | 0.3%                      |
| 2012     | 0.969                    | 0.031                        | 0.0%                      |               | 2.7%    |               | 0.1%                  |          | 0.1%                      |
| 2013     | 0.938                    | 0.062                        | 0.0%                      |               | 2.6%    |               | 0.1%                  |          | 0.1%                      |
| 2014     | 0.928                    | 0.072                        | 0.4%                      |               | 4.2%    |               | 0.3%                  |          | 0.7%                      |
| 2015     | 0.934                    | 0.066                        | 0.1%                      |               | 3.1%    |               | 0.2%                  |          | 0.3%                      |
| 2016     | 0.919                    | 0.081                        | 0.1%                      |               | 5.4%    |               | 0.4%                  |          | 0.5%                      |
| 2017     | 0.919                    | 0.081                        | 0.1%                      |               | 2.3%    |               | 0.2%                  |          | 0.3%                      |
| 2018     | 0.919                    | 0.081                        | 0.0%                      |               | 3.3%    |               | 0.3%                  |          | 0.3%                      |
| 4/1/2019 | 0.919                    | 0.081                        | 0.0%                      | (Annual 0.0%) | 2.5%    | (Annual 3.3%) | 0.2%                  |          | 0.2%                      |

(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).

# Annual Medical Cost Level Change - Legislative

|          | (1)                 | (2)                            | (3)                  |
|----------|---------------------|--------------------------------|----------------------|
|          | Annual Legislative  | Annual Legislative Cost Impact | Annual Total         |
| Accident | Cost Impact on      | on Medical Due to              | Legislative Cost     |
| Year     | Medical Severity(a) | Frequency Changes(b)           | Impact on Medical(c) |
|          |                     |                                |                      |
| 1985     | 0.0%                | 0.0%                           | 0.0%                 |
| 1986     | 0.0%                | 0.0%                           | 0.0%                 |
| 1987     | 0.0%                | 0.0%                           | 0.0%                 |
| 1988     | 0.0%                | 0.0%                           | 0.0%                 |
| 1989     | 0.0%                | 0.0%                           | 0.0%                 |
| 1990     | -0.7%               | 19.9%                          | 19.1%                |
| 1991     | -1.6%               | 14.7%                          | 12.9%                |
| 1992     | 0.5%                | -8.4%                          | -7.9%                |
| 1993     | -0.7%               | -18.1%                         | -18.7%               |
| 1994     | -2.6%               | 0.3%                           | -2.3%                |
| 1995     | 0.0%                | 0.5%                           | 0.5%                 |
| 1996     | 0.0%                | 0.4%                           | 0.4%                 |
| 1997     | 0.0%                | 0.2%                           | 0.2%                 |
| 1998     | 12.6%               | 0.0%                           | 12.6%                |
| 1999     | 12.6%               | 0.0%                           | 12.6%                |
| 2000     | 7.0%                | 0.0%                           | 7.0%                 |
| 2001     | 6.6%                | 0.0%                           | 6.6%                 |
| 2002     | -5.6%               | 0.0%                           | -5.6%                |
| 2003     | -6.0%               | 0.0%                           | -6.0%                |
| 2004     | -24.4%              | -12.5%                         | -33.9%               |
| 2005     | 0.0%                | -13.9%                         | -13.9%               |
| 2006     | 0.1%                | -5.2%                          | -5.1%                |
| 2007     | 0.1%                | 0.0%                           | 0.1%                 |
| 2008     | 0.2%                | 0.3%                           | 0.5%                 |
| 2009     | 0.0%                | 1.0%                           | 1.0%                 |
| 2010     | 0.0%                | 0.0%                           | 0.0%                 |
| 2011     | -2.0%               | 0.0%                           | -2.0%                |
| 2012     | -4.0%               | 0.0%                           | -4.0%                |
| 2013     | -3.2%               | 0.2%                           | -3.0%                |
| 2014     | -2.2%               | 1.3%                           | -0.9%                |
| 2015     | -0.3%               | 0.0%                           | -0.3%                |
| 2016     | -0.4%               | 0.0%                           | -0.4%                |
| 2017     | -0.3%               | 0.0%                           | -0.3%                |
| 2018     | 0.0%                | 0.0%                           | 0.0%                 |
| 4/1/2019 | 0.0%                | 0.0%                           | 0.0%                 |

- (a) Reflects the WCIRB's most recent estimates of the cost impact of legislation. Does not include the estimated -4.2% impact of 1/1/2013 medical provisions in SB 863 and the impact of the SB 1160 lien provisions on future medical costs, which are reflected in the medical loss development projections.
- (b) This reflects the annual percentage impact on medical costs due to changes in the frequency of indemnity claims as a result of benefit changes.
- (c) [Column (1) + 1.0] x [Column (2) + 1.0] 1.0

# **Total Medical Cost Level Factors**

|          | (1)             | (2)            | (3)         | (4)       |
|----------|-----------------|----------------|-------------|-----------|
|          | Annual          | Annual         | Total       | Composite |
|          | Non-Legislative | Legislative    | Annual Cost | Medical   |
| Accident | Cost Impact on  | Cost Impact on | Impact on   | On-level  |
| Year     | Medical (a)     | Medical(b)     | Medical(c)  | Factor(d) |
|          |                 |                | · · · ·     |           |
| 1985     | 4.5%            | 0.0%           | 4.5%        | 0.967     |
| 1986     | 3.0%            | 0.0%           | 3.0%        | 0.939     |
| 1987     | 3.8%            | 0.0%           | 3.8%        | 0.905     |
| 1988     | 3.8%            | 0.0%           | 3.8%        | 0.872     |
| 1989     | 3.0%            | 0.0%           | 3.0%        | 0.846     |
| 1990     | 3.7%            | 19.1%          | 23.5%       | 0.685     |
| 1991     | 3.6%            | 12.9%          | 16.9%       | 0.586     |
| 1992     | 3.0%            | -7.9%          | -5.2%       | 0.618     |
| 1993     | 2.7%            | -18.7%         | -16.5%      | 0.740     |
| 1994     | -2.3%           | -2.3%          | -4.6%       | 0.775     |
| 1995     | 0.9%            | 0.5%           | 1.4%        | 0.765     |
| 1996     | 1.0%            | 0.4%           | 1.4%        | 0.754     |
| 1997     | 0.7%            | 0.2%           | 0.9%        | 0.747     |
| 1998     | 0.8%            | 12.6%          | 13.5%       | 0.658     |
| 1999     | 2.5%            | 12.6%          | 15.4%       | 0.570     |
| 2000     | 1.7%            | 7.0%           | 8.8%        | 0.524     |
| 2001     | 2.9%            | 6.6%           | 9.7%        | 0.478     |
| 2002     | 2.0%            | -5.6%          | -3.7%       | 0.496     |
| 2003     | 1.4%            | -6.0%          | -4.7%       | 0.521     |
| 2004     | 0.0%            | -33.9%         | -33.9%      | 0.787     |
| 2005     | 0.0%            | -13.9%         | -13.9%      | 0.914     |
| 2006     | 0.3%            | -5.1%          | -4.8%       | 0.961     |
| 2007     | 1.8%            | 0.1%           | 1.9%        | 0.943     |
| 2008     | 0.2%            | 0.5%           | 0.7%        | 0.936     |
| 2009     | 0.4%            | 1.0%           | 1.4%        | 0.923     |
| 2010     | 0.3%            | 0.0%           | 0.3%        | 0.920     |
| 2011     | 0.3%            | -2.0%          | -1.7%       | 0.936     |
| 2012     | 0.1%            | -4.0%          | -3.9%       | 0.974     |
| 2013     | 0.1%            | -3.0%          | -2.9%       | 1.004     |
| 2014     | 0.7%            | -0.9%          | -0.2%       | 1.010 (e) |
| 2015     | 0.3%            | -0.3%          | 0.0%        | 1.011 (e) |
| 2016     | 0.5%            | -0.4%          | 0.1%        | 1.011 (e) |
| 2017     | 0.3%            | -0.3%          | 0.0%        | 1.012 (e) |
| 2018     | 0.3%            | 0.0%           | 0.3%        |           |
| 4/1/2019 | 0.2%            | 0.0%           | 0.2%        |           |
|          |                 |                |             |           |

(a) See Exhibit 4.2, Column (6).

- (b) See Exhibit 4.3, Column (3).
- (c) Column (3) =  $[1.0 + Column (1)] \times [1.0 + Column (2)] 1.0.$
- (d) These factors adjust the annual impact shown in Column (3) to the 4/1/2019 level.
- (e) The on-level factors for accident years 2014, 2015, 2016, and 2017 include the estimated impact of the January 1, 2014 physician fee schedule for the service year 2017.

# **Annual Wage Level Changes**

|            | Annual Wage        | Factor to a                |
|------------|--------------------|----------------------------|
| Year       | Level Change(a)    | <u>4/1/2019 Wage Level</u> |
| 1985       | 5.7                | 3.220                      |
| 1986       | 4.7                | 3.075                      |
| 1987       | 5.6                | 2.912                      |
| 1988       | 4.4                | 2.789                      |
| 1989       | 4.3                | 2.674                      |
| 1990       | 5.0                | 2.547                      |
| 1991       | 2.3                | 2.490                      |
| 1992       | 4.7                | 2.378                      |
| 1993       | 1.2                | 2.350                      |
| 1994       | 1.8                | 2.308                      |
| 1995       | 2.9                | 2.243                      |
| 1996       | 3.4                | 2.170                      |
| 1997       | 4.7                | 2.072                      |
| 1998       | 5.2                | 1.970                      |
| 1999       | 6.2                | 1.855                      |
| 2000       | 9.0                | 1.702                      |
| 2001       | 0.6                | 1.691                      |
| 2002       | 0.5                | 1.683                      |
| 2003       | 3.3                | 1.629                      |
| 2004       | 4.7                | 1.556                      |
| 2005       | 3.1                | 1.509                      |
| 2006       | 4.6                | 1.443                      |
| 2007       | 4.5                | 1.381                      |
| 2008       | 2.1                | 1.352                      |
| 2009       | 0.5                | 1.346                      |
| 2010       | 3.0                | 1.306                      |
| 2011       | 3.1                | 1.267                      |
| 2012       | 4.1                | 1.217                      |
| 2013       | 0.7                | 1.209                      |
| 2014       | 3.3                | 1.170                      |
| 2015       | 4.4                | 1.121                      |
| 2016       | 1.9                | 1.100                      |
| 2017       | 2.9                | 1.069                      |
| Projected: |                    |                            |
| 2018       | 4.1                |                            |
| 4/1/2019   | 2.7 (Annual = 3.6) |                            |
|            |                    |                            |

(a)

Historical wage changes through 2016 are based on Bureau of Labor Statistics data. Forecasts for 2017 to 2019 are based on the average of wage level projections made by the UCLA Anderson School of Business as of December 2017 and those made by the California Department of Finance as of November 2017.

# Actuarial Committee Meeting Agenda for April 3, 2018

# Exhibit 5.2

#### Premium Adjustment Factors

|          | (1)            | (2a)             | (2b)                        | (2c)                              | (3)         | (4)              | (5)           | (6)               | (7)        |
|----------|----------------|------------------|-----------------------------|-----------------------------------|-------------|------------------|---------------|-------------------|------------|
|          |                | Ratio of         | Fastaria                    | Factor to Adjust                  |             |                  | Off-Balance   |                   |            |
|          |                | Industry Average | Factor to<br>Industry       | Insurer Premium<br>to an Industry |             |                  | Correction in | Factor to Adjust  |            |
|          |                | Charged Rates    | Average Filed               | Average Filed                     | Adjustment  |                  | Advisory      | for Impact        | Composite  |
|          | Factor to a    | to Advisory      | Pure Premium                | Pure Premium                      | to Remove   | Average          | July 1, 2017  | of Premium        | Premium    |
| Calendar | 4/1/2019       | Pure Premium     | Rate Level as of            | Rate Level as of                  | Surcharge   | Experience       | Pure Premium  | Resulting from    | Adjustment |
| Year     | Wage Level (a) | Rates (b)        | July 1, 2017 (c)            | July 1, 2017 (d)                  | Premium (e) | Modification (f) | Rates         | Audits (q)        | Factor (h) |
| 1985     | 3.220          | <u></u>          | <u>5019 1, 2017 (C)</u><br> | 0.974                             | 0.991       | 0.984            | 1.026         | <u>Addits (g)</u> | 3.078      |
| 1986     | 3.075          |                  |                             | 0.890                             | 0.991       | 0.983            | 1.026         |                   | 2.688      |
| 1987     | 2.912          |                  |                             | 0.782                             | 0.992       | 0.983            | 1.026         |                   | 2.240      |
| 1988     | 2.789          |                  |                             | 0.700                             | 0.993       | 0.963            | 1.026         |                   | 1.961      |
| 1989     | 2.674          |                  |                             | 0.689                             | 0.993       | 0.945            | 1.026         |                   | 1.886      |
| 1990     | 2.547          |                  |                             | 0.672                             | 0.991       | 0.942            | 1.026         |                   | 1.754      |
| 1991     | 2.490          |                  |                             | 0.622                             | 0.987       | 0.939            | 1.026         |                   | 1.586      |
| 1992     | 2.378          |                  |                             | 0.597                             | 0.982       | 0.940            | 1.026         |                   | 1.445      |
| 1993     | 2.350          |                  |                             | 0.589                             | 0.981       | 0.949            | 1.026         |                   | 1.394      |
| 1994     | 2.308          |                  |                             | 0.675                             | 0.986       | 0.948            | 1.026         |                   | 1.579      |
| 1995     | 2.243          |                  |                             | 0.913                             | 0.995       | 0.958            | 1.026         |                   | 2.073      |
| 1996     | 2.170          | 1.023            | 0.970                       | 0.948                             | 1.000       | 0.935            | 1.026         |                   | 2.144      |
| 1997     | 2.072          | 0.989            | 0.968                       | 0.979                             | 1.000       | 0.949            | 1.026         |                   | 2.083      |
| 1998     | 1.970          | 0.965            | 1.008                       | 1.045                             | 1.000       | 0.959            | 1.026         |                   | 2.091      |
| 1999     | 1.855          | 0.972            | 1.019                       | 1.048                             | 1.000       | 0.954            | 1.026         |                   | 1.986      |
| 2000     | 1.702          | 1.005            | 0.924                       | 0.919                             | 1.000       | 0.970            | 1.026         |                   | 1.572      |
| 2001     | 1.691          | 1.029            | 0.814                       | 0.791                             | 1.000       | 0.969            | 1.026         |                   | 1.346      |
| 2002     | 1.683          | 1.157            | 0.728                       | 0.629                             | 1.000       | 0.991            | 1.026         |                   | 1.042      |
| 2003     | 1.629          | 1.267            | 0.596                       | 0.470                             | 1.000       | 1.005            | 1.026         |                   | 0.743      |
| 2004     | 1.556          | 1.397            | 0.606                       | 0.434                             | 1.000       | 0.981            | 1.026         |                   | 0.671      |
| 2005     | 1.509          | 1.470            | 0.729                       | 0.496                             | 1.000       | 0.982            | 1.026         |                   | 0.743      |
| 2006     | 1.443          | 1.447            | 0.940                       | 0.650                             | 1.000       | 0.956            | 1.026         |                   | 0.956      |
| 2007     | 1.381          | 1.493            | 1.281                       | 0.858                             | 1.000       | 0.931            | 1.026         | 0.985             | 1.222      |
| 2008     | 1.352          | 1.426            | 1.524                       | 1.069                             | 1.000       | 0.946            | 1.026         | 0.991             | 1.476      |
| 2009     | 1.346          | 1.366            | 1.502                       | 1.100                             | 1.000       | 0.937            | 1.026         | 1.034             | 1.591      |
| 2010     | 1.306          | 1.384            | 1.472                       | 1.064                             | 1.000       | 0.941            | 1.026         | 1.005             | 1.446      |
| 2011     | 1.267          | 1.401            | 1.471                       | 1.050                             | 1.000       | 0.982            | 1.026         |                   | 1.321      |
| 2012     | 1.217          | 1.223            | 1.213                       | 0.992                             | 1.000       | 1.000            | 1.026         |                   | 1.177      |
| 2013     | 1.209          | 1.138            | 0.976                       | 0.858                             | 1.000       | 0.983            | 1.026         |                   | 1.028      |
| 2014     | 1.170          | 1.126            | 0.899                       | 0.798                             | 1.000       | 0.961            | 1.026         |                   | 0.948      |
| 2015     | 1.121          | 1.109            | 0.874                       | 0.788                             | 1.000       | 0.951            | 1.026         |                   | 0.905      |
| 2016     | 1.100          | 1.147            | 0.941                       | 0.820                             | 1.000       | 0.950            | 1.026         |                   | 0.926      |
| 2017     | 1.069          | 1.155            | 1.039                       | 0.900                             | 1.000       | 0.959            | 1.026         |                   | 0.977      |

(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) (2b) ÷ (2a). This column adjusts premiums at the industry average charged rate level to the industry average filed pure premium rate level as of July 1, 2017.

(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).

(9) Based on a comparison of premium reported on a calendar year basis to premium reported on an estimated ultimate policy year basis over the course of two accident years. The factor is applied only for calendar years 2007 to 2010, during which reported premiums were impacted by recessionary economic forces.

(h)  $(1)x(2c)x(3)x(6) \div [(4)x(5)]$  for calendar years 2007 to 2010.  $(1)x(2c)x(3) \div [(4)x(5)]$  for all other calendar years.

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

|              | Annual %                |                    |                                   |                | Annual Log Differences     | 5                          |                                |                   |
|--------------|-------------------------|--------------------|-----------------------------------|----------------|----------------------------|----------------------------|--------------------------------|-------------------|
|              | Changes Intra-          |                    | Class Indemnity Freque            | ency           | AY+1                       |                            | Economic                       | CalOSHA           |
| AY           | Class Ind Freq<br>Total | per \$M<br>Total   | Exposure at PY 2016<br>Cumulative | Non-cum.       | Indemnity<br>Benefit Level | Cumulative<br>Injury Index | Variables<br>(1st Prin. Comp.) | Dummy<br>Variable |
| 1962         |                         |                    |                                   |                |                            |                            |                                |                   |
| 1963         | 2.0%                    | 0.020              |                                   |                | 0.000                      |                            | -0.029                         | 0.000             |
| 1964         | 0.3%                    | 0.003              |                                   |                | 0.000                      |                            | 0.004                          | 0.000             |
| 1965         | -0.3%                   | -0.003             |                                   |                | 0.000                      |                            | 0.020                          | 0.000             |
| 1966         | 1.7%                    | 0.017              |                                   |                | 0.000                      |                            | 0.191                          | 0.000             |
| 1967         | 1.8%                    | 0.017              |                                   |                | 0.000                      |                            | -0.146                         | 0.000             |
| 1968         | 1.4%                    | 0.014              |                                   |                | 0.049                      |                            | 0.059                          | 0.000             |
| 1969         | 2.7%                    | 0.026              |                                   |                | 0.000                      |                            | 0.044                          | 0.000             |
| 1970         | 1.8%                    | 0.018              |                                   |                | 0.000                      |                            | -0.337                         | 0.000             |
| 1971         | 1.5%                    | 0.015              |                                   |                | 0.162                      |                            | -0.190                         | 0.000             |
| 1972         | -4.3%                   | -0.044             |                                   |                | 0.040                      |                            | 0.161                          | 0.000             |
| 1973<br>1974 | 7.0%<br>19.2%           | 0.067<br>0.176     |                                   |                | 0.049<br>0.058             |                            | 0.090<br>-0.035                | 0.000             |
| 1974         | 12.5%                   |                    |                                   |                | 0.058                      |                            | -0.035<br>-0.298               | 0.000             |
| 1975         | 0.8%                    | 0.118<br>0.008     |                                   |                | 0.063                      |                            | -0.298                         | 0.000             |
| 1970         | 4.3%                    | 0.008              |                                   |                | 0.003                      |                            | 0.085                          | 0.000             |
| 1978         | -8.7%                   | -0.091             |                                   |                | 0.000                      |                            | 0.172                          | 0.000             |
| 1979         | 0.5%                    | 0.005              | -0.053                            | 0.007          | 0.000                      | -0.060                     | 0.134                          | 0.000             |
| 1980         | -6.5%                   | -0.068             | -0.132                            | -0.066         | 0.033                      | -0.066                     | -0.080                         | 0.000             |
| 1981         | -3.5%                   | -0.036             | -0.028                            | -0.036         | 0.000                      | 0.008                      | -0.078                         | 0.000             |
| 1982         | -1.6%                   | -0.016             | 0.153                             | -0.022         | 0.352                      | 0.175                      | -0.292                         | 0.000             |
| 1983         | 6.2%                    | 0.060              | 0.214                             | 0.054          | 0.081                      | 0.160                      | 0.029                          | 0.000             |
| 1984         | 9.5%                    | 0.091              | 0.235                             | 0.084          | 0.000                      | 0.151                      | 0.221                          | 0.000             |
| 1985         | 2.0%                    | 0.020              | 0.138                             | 0.014          | 0.000                      | 0.124                      | 0.080                          | 0.000             |
| 1986         | -2.4%                   | -0.024             | 0.039                             | -0.028         | 0.000                      | 0.067                      | 0.077                          | 0.000             |
| 1987         | 1.5%                    | 0.015              | 0.053                             | 0.013          | 0.000                      | 0.041                      | 0.150                          | 0.000             |
| 1988         | 0.7%                    | 0.007              | 0.104                             | 0.000          | 0.000                      | 0.104                      | 0.088                          | 0.000             |
| 1989         | 2.5%                    | 0.024              | 0.212                             | 0.009          | 0.046                      | 0.203                      | 0.045                          | 0.000             |
| 1990         | 9.0%                    | 0.087              | 0.337                             | 0.061          | 0.071                      | 0.276                      | -0.120                         | 0.000             |
| 1991         | 0.3%                    | 0.003              | 0.166                             | -0.018         | 0.023                      | 0.184                      | -0.291                         | 0.000             |
| 1992         | -11.1%                  | -0.118             | -0.272                            | -0.098         | 0.013                      | -0.174                     | -0.185                         | 0.068             |
| 1993         | -14.9%                  | -0.162             | -0.240                            | -0.153         | -0.057                     | -0.088                     | -0.022                         | 0.464             |
| 1994         | -12.8%                  | -0.136             | -0.462                            | -0.107         | 0.061                      | -0.355                     | 0.106                          | 0.173             |
| 1995         | -4.6%                   | -0.048             | -0.016                            | -0.050         | 0.053                      | 0.034                      | 0.092                          | 0.295             |
| 1996         | -6.8%                   | -0.070             | -0.136                            | -0.065         | 0.096                      | -0.071                     | 0.074                          | 0.000             |
| 1997         | -3.3%                   | -0.033             | -0.023                            | -0.034         | 0.066                      | 0.011                      | 0.137                          | 0.000             |
| 1998         | -3.8%                   | -0.038             | -0.040                            | -0.038         | 0.058                      | -0.002                     | 0.078                          | 0.000             |
| 1999<br>2000 | 1.5%<br>4.0%            | 0.014<br>0.039     | 0.100<br>0.071                    | 0.008<br>0.037 | 0.040<br>-0.003            | 0.092<br>0.034             | 0.127<br>0.066                 | 0.000 0.000       |
| 2000         | -6.9%                   | -0.072             | -0.018                            | -0.076         | -0.003                     | 0.059                      | -0.100                         | 0.000             |
| 2001         | -2.8%                   | -0.029             | 0.001                             | -0.031         | 0.060                      | 0.033                      | -0.197                         | 0.000             |
| 2002         | -3.2%                   | -0.029             | -0.009                            | -0.031         | -0.065                     | 0.033                      | -0.197                         | 0.000             |
| 2003         | -16.9%                  | -0.185             | -0.212                            | -0.182         | -0.398                     | -0.030                     | 0.022                          | 0.000             |
| 2004         | -13.6%                  | -0.147             | -0.299                            | -0.132         | 0.051                      | -0.165                     | 0.143                          | 0.000             |
| 2006         | -5.7%                   | -0.059             | -0.050                            | -0.059         | 0.016                      | 0.009                      | 0.090                          | 0.000             |
| 2007         | -1.6%                   | -0.017             | 0.021                             | -0.020         | 0.049                      | 0.040                      | -0.095                         | 0.000             |
| 2008         | -2.7%                   | -0.027             | 0.038                             | -0.033         | 0.006                      | 0.071                      | -0.320                         | 0.000             |
| 2009         | -0.2%                   | -0.002             | 0.168                             | -0.018         | 0.066                      | 0.186                      | -0.414                         | 0.000             |
| 2010         | 8.9%                    | 0.085              | 0.139                             | 0.079          | 0.012                      | 0.060                      | -0.077                         | 0.000             |
| 2011         | 1.3%                    | 0.013              | 0.033                             | 0.010          | 0.003                      | 0.022                      | 0.048                          | 0.000             |
| 2012         | 4.7%                    | 0.046              | 0.130                             | 0.036          | 0.022                      | 0.094                      | 0.120                          | 0.000             |
| 2013         | 0.6%                    | 0.006              | 0.155                             | -0.015         | 0.071                      | 0.170                      | 0.154                          | 0.000             |
| 2014         | 0.5%                    | 0.005              | 0.095                             | -0.009         | 0.003                      | 0.104                      | 0.172                          | 0.000             |
| 2015         | -0.6%                   | -0.006             | 0.075                             | -0.020         | 0.002                      | 0.094                      | 0.192                          | 0.000             |
| 2016*        | -3.2%                   | -0.033             | 0.000                             | -0.039         | 0.004                      | 0.040                      | 0.128                          | 0.000             |
| 2017         | -0.9%                   | -0.009             | -0.009                            | -0.009         | 0.004                      | 0.000                      | 0.109                          | 0.000             |
| 2018         | -1.3%                   | -0.013             | -0.013                            | -0.013         | 0.004                      | 0.000                      | 0.066                          | 0.000             |
| 2019         | -2.0%                   | -0.020             | -0.020                            | -0.020         | 0.004                      | 0.000                      | -0.005                         | 0.000             |
| 2020         | -2.1%                   | -0.021             | -0.021                            | -0.021         | 0.004                      | 0.000                      | -0.016                         | 0.000             |
|              |                         | = Hazardousness-Ad | ljusted Noncumulativ              |                | requency                   |                            |                                |                   |
|              |                         | onstant            |                                   | -0.020         |                            |                            |                                |                   |
|              |                         | td Err of Y Est    |                                   | 0.040          |                            |                            |                                |                   |
|              | R                       | Squared            |                                   | 0.583          |                            |                            |                                |                   |

| 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; December 2017 UCLA Anderson Forecasts for 2017 on.

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

No. of Observations

Degrees of Freedom

X Coefficient(s)

Std Err of Coef.

The constant term, -0.020, consists of measured offsets that recognize annual changes in real benefit levels relative to nominal

benefit levels and long-term economic growth. Without these offsets, the indemnity benefit level and economic variables would project

frequency to increase without bound. \*AY 2016 is preliminary and change is based on a comparison of 2016 accidents on 2015 policies to 2015 accidents on 2014 policies.

38

33

0.178

0.073

0.284

0.062

0.094

0.044

-0.131

0.077

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

|                                    | (1)                | (2)               | (3)                | (4)             | (5)             |  |  |
|------------------------------------|--------------------|-------------------|--------------------|-----------------|-----------------|--|--|
|                                    | Estimated          |                   | Indemnity          | Ultimate        |                 |  |  |
| Accident                           | Ultimate           | Annual            | Adjustment         | On-level        | Annual          |  |  |
| Year                               | <u>Severity</u>    | <u>% Change</u>   | Factor (a)         | <u>Severity</u> | <u>% Change</u> |  |  |
|                                    |                    |                   |                    | (1) x (3)       |                 |  |  |
| 1990                               | 9,968              |                   | 1.837              | 18,314          |                 |  |  |
| 1991                               | 10,903             | 9.4%              | 1.738              | 18,944          | 3.4%            |  |  |
| 1992                               | 11,003             | 0.9%              | 1.680              | 18,484          | -2.4%           |  |  |
| 1993                               | 11,991             | 9.0%              | 1.670              | 20,024          | 8.3%            |  |  |
| 1994                               | 12,949             | 8.0%              | 1.749              | 22,649          | 13.1%           |  |  |
| 1995                               | 14,532             | 12.2%             | 1.629              | 23,676          | 4.5%            |  |  |
| 1996                               | 16,271             | 12.0%             | 1.529              | 24,876          | 5.1%            |  |  |
| 1997                               | 19,320             | 18.7%             | 1.372              | 26,501          | 6.5%            |  |  |
| 1998                               | 21,169             | 9.6%              | 1.265              | 26,784          | 1.1%            |  |  |
| 1999                               | 23,214             | 9.7%              | 1.172              | 27,216          | 1.6%            |  |  |
| 2000                               | 24,626             | 6.1%              | 1.094              | 26,951          | -1.0%           |  |  |
| 2001                               | 27,121             | 10.1%             | 1.096              | 29,712          | 10.2%           |  |  |
| 2002                               | 26,193             | -3.4%             | 1.125              | 29,461          | -0.8%           |  |  |
| 2003                               | 25,783             | -1.6%             | 1.124              | 28,975          | -1.6%           |  |  |
| 2004                               | 21,031             | -18.4%            | 1.336              | 28,107          | -3.0%           |  |  |
| 2005                               | 18,988             | -9.7%             | 1.537              | 29,177          | 3.8%            |  |  |
| 2006                               | 20,706             | 9.1%              | 1.432              | 29,656          | 1.6%            |  |  |
| 2007                               | 22,514             | 8.7%              | 1.387              | 31,238          | 5.3%            |  |  |
| 2008                               | 24,667             | 9.6%              | 1.315              | 32,430          | 3.8%            |  |  |
| 2009                               | 25,884             | 4.9%              | 1.307              | 33,827          | 4.3%            |  |  |
| 2010                               | 25,537             | -1.3%             | 1.289              | 32,912          | -2.7%           |  |  |
| 2011                               | 25,159             | -1.5%             | 1.268              | 31,914          | -3.0%           |  |  |
| 2012                               | 24,691             | -1.9%             | 1.239              | 30,584          | -4.2%           |  |  |
| 2013                               | 24,914             | 0.9%              | 1.202              | 29,958          | -2.0%           |  |  |
| 2014                               | 26,508             | 6.4%              | 1.105              | 29,296          | -2.2%           |  |  |
| 2015                               | 27,090             | 2.2%              | 1.077              | 29,181          | -0.4%           |  |  |
| 2016                               | 27,257             | 0.6%              | 1.064              | 28,992          | -0.6%           |  |  |
| 2017                               | 27,759             | 1.8%              | 1.043              | 28,954          | -0.1%           |  |  |
| (6) Es                             | stimated Annual Ex | ponential Trend B | ased on 2005 to 20 | )17:            | -0.6%           |  |  |
| (7) Es                             | stimated Annual Ex | ponential Trend B | ased on 2012 to 20 | )17:            | -1.1%           |  |  |
| Selected Indemnity Severity Trend: |                    |                   |                    |                 |                 |  |  |

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

Source: WCIRB experience calls.

|             | (1)                 | (2)             | (3)        | (4)             | (5)             |
|-------------|---------------------|-----------------|------------|-----------------|-----------------|
|             | Estimated           |                 | Medical    | Ultimate        |                 |
| Accident    | Ultimate            | Annual          | Adjustment | On-level        | Annual          |
| <u>Year</u> | <u>Severity (a)</u> | <u>% Change</u> | Factor (b) | <u>Severity</u> | <u>% Change</u> |
|             |                     |                 |            | (1) x (3)       |                 |
| 1990        | 8,755               |                 | 1.017      | 8,905           |                 |
| 1991        | 9,419               | 7.6%            | 0.998      | 9,403           | 5.6%            |
| 1992        | 9,528               | 1.2%            | 0.966      | 9,200           | -2.2%           |
| 1993        | 10,570              | 10.9%           | 0.949      | 10,033          | 9.1%            |
| 1994        | 11,620              | 9.9%            | 1.034      | 12,018          | 19.8%           |
| 1995        | 13,359              | 15.0%           | 1.027      | 13,716          | 14.1%           |
| 1996        | 14,335              | 7.3%            | 1.016      | 14,569          | 6.2%            |
| 1997        | 17,039              | 18.9%           | 1.009      | 17,196          | 18.0%           |
| 1998        | 20,869              | 22.5%           | 0.891      | 18,589          | 8.1%            |
| 1999        | 23,743              | 13.8%           | 0.772      | 18,334          | -1.4%           |
| 2000        | 26,682              | 12.4%           | 0.710      | 18,941          | 3.3%            |
| 2001        | 31,724              | 18.9%           | 0.648      | 20,569          | 8.6%            |
| 2002        | 32,067              | 1.1%            | 0.674      | 21,605          | 5.0%            |
| 2003        | 30,614              | -4.5%           | 0.708      | 21,683          | 0.4%            |
| 2004        | 28,341              | -7.4%           | 0.860      | 24,380          | 12.4%           |
| 2005        | 29,244              | 3.2%            | 0.861      | 25,170          | 3.2%            |
| 2006        | 31,992              | 9.4%            | 0.856      | 27,393          | 8.8%            |
| 2007        | 35,748              | 11.7%           | 0.865      | 30,906          | 12.8%           |
| 2008        | 38,971              | 9.0%            | 0.869      | 33,881          | 9.6%            |
| 2009        | 41,254              | 5.9%            | 0.870      | 35,908          | 6.0%            |
| 2010        | 41,565              | 0.8%            | 0.874      | 36,311          | 1.1%            |
| 2011        | 37,893 (c)          |                 | 0.897      | 33,982 (c)      |                 |
| 2012        | 35,510              | -6.3%           | 0.933      | 33,117          | -2.5%           |
| 2013        | 33,212              | -6.5%           | 0.972      | 32,267          | -2.6%           |
| 2014        | 32,061              | -3.5%           | 0.995      | 31,916          | -1.1%           |
| 2015        | 31,508              | -1.7%           | 0.997      | 31,409          | -1.6%           |
| 2016        | 31,683              | 0.6%            | 0.994      | 31,485          | 0.2%            |
| 2017        | 33,452              | 5.6%            | 0.991      | 33,150          | 5.3%            |
|             |                     |                 |            |                 |                 |

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

Selected Medical Severity Trend:

3.0%

- (a) Estimated ultimate severities for all accident years are derived by dividing ultimate medical losses on indemnity claims by ultimate indemnity claim counts. The estimated ultimate medical severities were derived from the projected ultimate loss ratios shown in Exhibit 3.2, column (7).
- (b) These adjustment factors are based on Exhibit 4.4, excluding the impact of frequency, and including the impact of SB 863 and SB 1160 provisions applicable to outstanding medical losses.
- (c) Severities for accident years 2011 and subsequent do not reflect the cost of medical cost containment programs (MCCP). Severities for accident years 2010 and prior do reflect MCCP costs.

Source: WCIRB experience calls.

Projection of Medical Severity Trends by Accident Year Adjusted to Remove the Cost of Medical Cost Containment Programs (MCCP) Based on Experience as of December 31, 2017

|  | (6)              | Annual   | % Change            | ł      | 7.7%   | 12.3%  | 7.2%   | 6.4%   | 1.0%   | 2.5%   | -2.5%  | -2.6%  | -1.1%  | -1.6%  | 0.2%   | 5.3%   |                                    | 1.9%                        | -0.2%                       | 3.0%                             |   |
|--|------------------|----------|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------------------------|-----------------------------|-----------------------------|----------------------------------|---|
| ed Based on<br>ggregate<br>Data Calls (b)                                | (8)<br>Ultimate  | On-Level | <u>Severity (c)</u> | 23,786 | 25,614 | 28,777 | 30,839 | 32,827 | 33,162 | 33,982 | 33,117 | 32,267 | 31,916 | 31,409 | 31,485 | 33,150 |                                    |                             |                             |                                  |   |
| MCCP Removed Based on<br>WCIRB Aggregate<br>Calendar Year Data Calls (b) | (2)              | Annual   | % Change            | 1      | 8.2%   | 11.3%  | 6.6%   | 6.3%   | 0.7%   | -0.2%  | -6.3%  | -6.5%  | -3.5%  | -1.7%  | 0.6%   | 5.6%   |                                    |                             |                             | eritv Trend:                     | s on indomnity  |
|  | (6)<br>Estimated | Ultimate | <u>Severity (a)</u> | 27,637 | 29,915 | 33,285 | 35,472 | 37,714 | 37,961 | 37,893 | 35,510 | 33,212 | 32,061 | 31,508 | 31,683 | 33,452 |                                    |                             |                             | Selected Medical Severity Trend: | (a) Estimated ultimate conscrition for all accident veans were derived by dividing ultimate modical lenges on indomnity |
|  | (5)              | Annual   | % Change            |        | 8.8%   | 12.8%  | 9.6%   | 6.0%   | 1.1%   | 2.8%   | -2.7%  | -2.3%  | -1.1%  | -1.7%  | 0.3%   | 5.0%   |                                    | 2.1%                        | -0.3%                       | Sel                              | the dividina ultivities   |
| icluded  | (4)<br>Ultimate  | On-Level | Severity (c)        | 25,170 | 27,393 | 30,906 | 33,881 | 35,908 | 36,311 | 37,334 | 36,308 | 35,460 | 35,076 | 34,468 | 34,555 | 36,267 |                                    |                             |                             |                                  | ot voore wore deri  |
| MCCP Included  | (3)              | Annual   | % Change            |        | 9.4%   | 11.7%  | 9.0%   | 5.9%   | 0.8%   | 0.2%   | -6.5%  | -6.3%  | -3.5%  | -1.9%  | 0.6%   | 5.2%   | al Trend                           | 7:                          | 7:                          |                                  | orition for all accide  |
|  | (2)<br>Estimated | Ultimate | Severity (a)        | 29,244 | 31,992 | 35,748 | 38,971 | 41,254 | 41,565 | 41,631 | 38,933 | 36,498 | 35,235 | 34,577 | 34,772 | 36,597 | Estimated Annual Exponential Trend | Trend Based on 2005 to 2017 | Trend Based on 2012 to 2017 |                                  | otod ultimato cov   |
|  | (1)              | Accident | <u>Year</u>         | 2005   | 2006   | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | Estimated <i>∤</i>                 | Trend Base                  | Trend Base                  |                                  | (a) Ectim   |

ennuy מ  $\hat{\mathbf{z}}$ claims by ultimate indemnity claim counts. (a) Ev

(b) Adjustments to accident years 2005 through 2010 based on WCIRB's Annual Calls for Direct California Workers' Compensation Aggregate Indemnity and Medical Costs.

(c) Ultimate severities are on-leveled based on adjustment factors shown on Exhibit 6.3.

Source: WCIRB experience calls.

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

|          | (1)                 | (2)                  | (3)                  | (4)                    |
|----------|---------------------|----------------------|----------------------|------------------------|
|          |                     |                      |                      | On-Level Indemnity to  |
| Accident | Developed Indemnity | Composite Indemnity  | Composite Premium    | Industry Average Filed |
| Year     | Loss Ratio(a)       | Adjustment Factor(b) | Adjustment Factor(c) | Pure Premium Ratio     |
|          |                     |                      |                      | (1)×(2)÷(3)            |
| 1985     | 0.448               | 1.528                | 3.078                | 0.222                  |
| 1986     | 0.397               | 1.504                | 2.688                | 0.222                  |
| 1987     | 0.347               | 1.476                | 2.240                | 0.228                  |
| 1988     | 0.331               | 1.454                | 1.961                | 0.246                  |
| 1989     | 0.344               | 1.433                | 1.886                | 0.262                  |
| 1990     | 0.399               | 1.149                | 1.754                | 0.261                  |
| 1991     | 0.426               | 0.946                | 1.586                | 0.254                  |
| 1992     | 0.351               | 0.998                | 1.445                | 0.243                  |
| 1993     | 0.289               | 1.211                | 1.394                | 0.251                  |
| 1994     | 0.329               | 1.266                | 1.579                | 0.264                  |
| 1995     | 0.476               | 1.172                | 2.073                | 0.269                  |
| 1996     | 0.533               | 1.095                | 2.144                | 0.272                  |
| 1997     | 0.603               | 0.981                | 2.083                | 0.284                  |
| 1998     | 0.655               | 0.905                | 2.091                | 0.284                  |
| 1999     | 0.690               | 0.838                | 1.986                | 0.291                  |
| 2000     | 0.596               | 0.783                | 1.572                | 0.297                  |
| 2001     | 0.494               | 0.783                | 1.346                | 0.288                  |
| 2002     | 0.368               | 0.804                | 1.042                | 0.284                  |
| 2003     | 0.242               | 0.804                | 0.743                | 0.262                  |
| 2004     | 0.145               | 1.107                | 0.671                | 0.239                  |
| 2005     | 0.124               | 1.503                | 0.743                | 0.250                  |
| 2006     | 0.160               | 1.486                | 0.956                | 0.249                  |
| 2007     | 0.221               | 1.439                | 1.222                | 0.261                  |
| 2008     | 0.282               | 1.356                | 1.476                | 0.259                  |
| 2009     | 0.330               | 1.329                | 1.591                | 0.276                  |
| 2010     | 0.322               | 1.311                | 1.446                | 0.292                  |
| 2011     | 0.300               | 1.290                | 1.321                | 0.293                  |
| 2012     | 0.270               | 1.260                | 1.177                | 0.289                  |
| 2013     | 0.240               | 1.220                | 1.028                | 0.284                  |
| 2014     | 0.235               | 1.105                | 0.948                | 0.274                  |
| 2015     | 0.233               | 1.077                | 0.905                | 0.277                  |
| 2016     | 0.227               | 1.064                | 0.926                | 0.261                  |
| 2017     | 0.242               | 1.043                | 0.977                | 0.258                  |
|          |                     |                      |                      |                        |

Projections (d) 0.257 0.253

(a) See Exhibit 3.1.

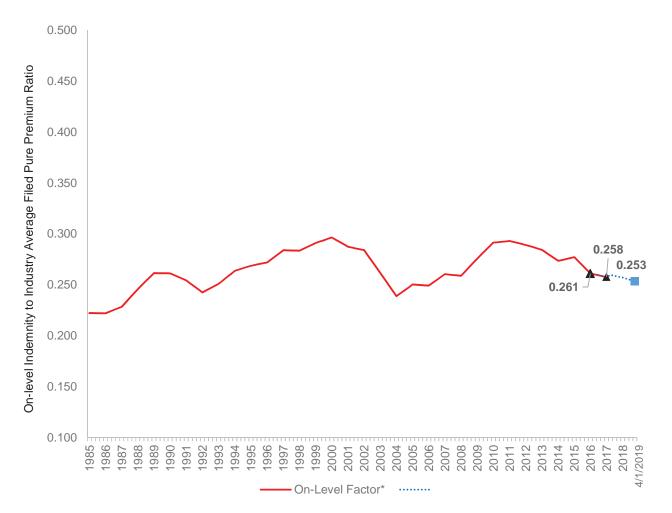
2018

4/1/2019

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



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

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

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

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

|          | (1)               | (2)                | (3)                  | (4)   |
|----------|-------------------|--------------------|----------------------|---|
| Accident | Developed Medical | Composite Medical  | Composite Premium    | On-Level Medical to<br>Industry Average Filed |
| Year     | Loss Ratio(a)     | On-Level Factor(b) | Adjustment Factor(c) | Pure Premium Ratio(e)                         |
| 1641     | LOSS IValid(a)    |                    | Adjustment racion(c) | (1)×(2)÷(3)                                   |
| 1985     | 0.359             | 0.967              | 3.078                | 0.113   |
| 1986     | 0.340             | 0.939              | 2.688                | 0.119   |
| 1987     | 0.321             | 0.905              | 2.240                | 0.129   |
| 1988     | 0.311             | 0.872              | 1.961                | 0.138   |
| 1989     | 0.333             | 0.846              | 1.886                | 0.150   |
| 1990     | 0.376             | 0.685              | 1.754                | 0.147   |
| 1991     | 0.394             | 0.586              | 1.586                | 0.146   |
| 1992     | 0.329             | 0.618              | 1.445                | 0.141   |
| 1993     | 0.275             | 0.740              | 1.394                | 0.146   |
| 1994     | 0.317             | 0.775              | 1.579                | 0.156   |
| 1995     | 0.468             | 0.765              | 2.073                | 0.173   |
| 1996     | 0.502             | 0.754              | 2.144                | 0.176   |
| 1997     | 0.563             | 0.747              | 2.083                | 0.202   |
| 1998     | 0.680             | 0.658              | 2.091                | 0.214   |
| 1999     | 0.693             | 0.570              | 1.986                | 0.199   |
| 2000     | 0.633             | 0.524              | 1.572                | 0.211   |
| 2001     | 0.563             | 0.478              | 1.346                | 0.200   |
| 2002     | 0.439             | 0.496              | 1.042                | 0.209   |
| 2003     | 0.282             | 0.521              | 0.743                | 0.198   |
| 2004     | 0.193             | 0.787              | 0.671                | 0.227   |
| 2005     | 0.191             | 0.914              | 0.743                | 0.235   |
| 2006     | 0.248             | 0.961              | 0.956                | 0.250   |
| 2007     | 0.352             | 0.943              | 1.222                | 0.272   |
| 2008     | 0.447             | 0.936              | 1.476                | 0.284   |
| 2009     | 0.529             | 0.923              | 1.591                | 0.307   |
| 2010     | 0.529             | 0.920              | 1.446                | 0.337   |
| 2011     | 0.462             | 0.936              | 1.321                | 0.327   |
| 2012     | 0.402             | 0.974              | 1.177                | 0.333   |
| 2013     | 0.335             | 1.004              | 1.028                | 0.327   |
| 2014     | 0.300             | 1.010              | 0.948                | 0.320   |
| 2015     | 0.288             | 1.011              | 0.905                | 0.322   |
| 2016     | 0.281             | 1.011              | 0.926                | 0.307   |
| 2017     | 0.310             | 1.012              | 0.977                | 0.321   |
|          |                   |                    |                      | Projections (d)                               |
| 2018     |                   |                    |                      | 0.326   |
| 4/1/2019 |                   |                    |                      | 0.328   |

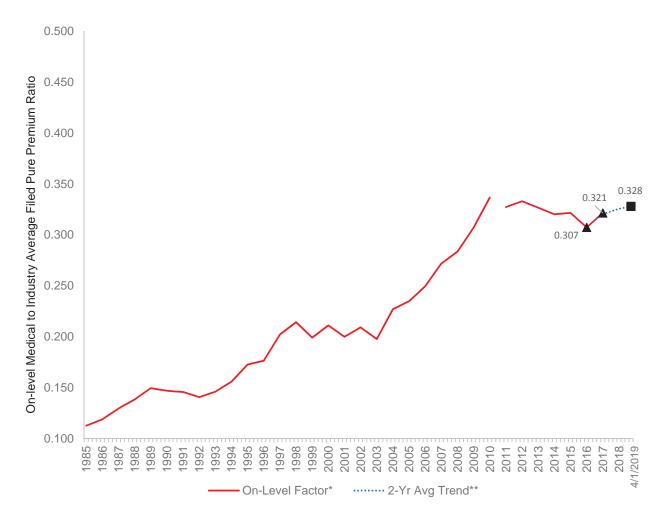
(a) See Exhibit 3.2. Medical loss ratios for accident years 2011 and subsequent do not reflect the cost of medical cost containment programs (MCCP). Ratios for accident years 2010 and prior do reflect MCCP costs.

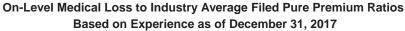
(b) See Exhibit 4.4.

(c) See Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual medical severity trend from Exhibit 6.4, the actual frequency trend for accident year 2017 from Exhibit 12, and projected frequency trends for accident years 2018 and 2019 from Exhibit 6.1; these trends were then separately applied to the 2016 and 2017 on-level ratios.

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





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

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

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

|  | Indemnity | Medical | <u>Total</u> |
|--|-----------|---------|--------------|
| <ol> <li>Projected Loss to Industry Average Filed Pure Premium Ratio<br/>(See Exhibits 7.1 and 7.3)</li> </ol> | 0.253     | 0.328   | 0.581        |

# Quarterly Incurred Indemnity Loss Development Factors

# Through December 31, 2017

| Age in |             |             |             |             |             |       |             |             |             | Accide      | nt Yea | r           |             |             |             |             |             |             |             |             |
|--------|-------------|-------------|-------------|-------------|-------------|-------|-------------|-------------|-------------|-------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Months | <u>1998</u> | <u>1999</u> | <u>2000</u> | <u>2001</u> | <u>2002</u> | 2003  | <u>2004</u> | <u>2005</u> | <u>2006</u> | <u>2007</u> | 2008   | <u>2009</u> | <u>2010</u> | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> |
| 6/3    |             |             |             |             |             |       |             |             | 2.417       | 2.724       | 2.785  | 3.031       | 3.116       | 3.052       | 3.238       | 3.344       | 3.303       | 3.209       | 3.201       | 3.356       |
| 9/6    |             |             |             |             |             |       |             |             | 1.656       | 1.776       | 1.820  | 1.848       | 1.904       | 2.001       | 1.966       | 1.940       | 1.960       | 1.948       | 1.945       | 1.873       |
| 12/9   |             |             |             |             |             |       |             |             | 1.448       | 1.511       | 1.510  | 1.530       | 1.564       | 1.632       | 1.587       | 1.585       | 1.570       | 1.578       | 1.578       | 1.578       |
| 15/12  | 1.229       | 1.260       | 1.268       | 1.250       | 1.257       | 1.238 | 1.180       | 1.149       | 1.189       | 1.234       | 1.248  | 1.293       | 1.306       | 1.306       | 1.303       | 1.301       | 1.301       | 1.313       | 1.309       |             |
| 18/15  | 1.172       | 1.202       | 1.188       | 1.184       | 1.206       | 1.167 | 1.101       | 1.103       | 1.140       | 1.158       | 1.182  | 1.194       | 1.197       | 1.195       | 1.206       | 1.178       | 1.190       | 1.187       | 1.189       |             |
| 21/18  | 1.145       | 1.140       | 1.150       | 1.148       | 1.153       | 1.127 | 1.066       | 1.096       | 1.117       | 1.128       | 1.139  | 1.153       | 1.140       | 1.146       | 1.141       | 1.141       | 1.132       | 1.137       | 1.135       |             |
| 24/21  | 1.126       | 1.112       | 1.121       | 1.111       | 1.117       | 1.094 | 1.045       | 1.082       | 1.098       | 1.106       | 1.106  | 1.114       | 1.119       | 1.117       | 1.111       | 1.104       | 1.114       | 1.111       | 1.104       |             |
| 27/24  | 1.074       | 1.096       | 1.093       | 1.100       | 1.094       | 1.073 | 1.045       | 1.070       | 1.082       | 1.081       | 1.088  | 1.089       | 1.091       | 1.085       | 1.087       | 1.081       | 1.082       | 1.087       |             |             |
| 30/27  | 1.078       | 1.069       | 1.074       | 1.082       | 1.064       | 1.051 | 1.040       | 1.054       | 1.057       | 1.072       | 1.075  | 1.075       | 1.080       | 1.071       | 1.068       | 1.067       | 1.074       | 1.066       |             |             |
| 33/30  | 1.045       | 1.058       | 1.048       | 1.062       | 1.047       | 1.032 | 1.036       | 1.042       | 1.049       | 1.053       | 1.059  | 1.052       | 1.064       | 1.053       | 1.060       | 1.047       | 1.055       | 1.050       |             |             |
| 36/33  | 1.043       | 1.046       | 1.039       | 1.046       | 1.035       | 1.020 | 1.029       | 1.033       | 1.039       | 1.043       | 1.051  | 1.049       | 1.049       | 1.043       | 1.041       | 1.043       | 1.042       | 1.036       |             |             |
| 39/36  | 1.038       | 1.041       | 1.035       | 1.038       | 1.028       | 1.017 | 1.027       | 1.029       | 1.031       | 1.033       | 1.040  | 1.039       | 1.039       | 1.041       | 1.035       | 1.031       | 1.036       |             |             |             |
| 42/39  | 1.027       | 1.028       | 1.034       | 1.030       | 1.023       | 1.018 | 1.020       | 1.020       | 1.031       | 1.033       | 1.036  | 1.038       | 1.035       | 1.032       | 1.028       | 1.031       | 1.030       |             |             |             |
| 45/42  | 1.024       | 1.026       | 1.026       | 1.020       | 1.009       | 1.019 | 1.018       | 1.024       | 1.026       | 1.028       | 1.030  | 1.035       | 1.027       | 1.033       | 1.022       | 1.024       | 1.024       |             |             |             |
| 48/45  | 1.025       | 1.020       | 1.022       | 1.013       | 1.008       | 1.013 | 1.013       | 1.021       | 1.019       | 1.021       | 1.024  | 1.024       | 1.026       | 1.023       | 1.024       | 1.020       | 1.020       |             |             |             |
| 51/48  | 1.022       | 1.017       | 1.018       | 1.015       | 1.010       | 1.016 | 1.010       | 1.018       | 1.021       | 1.018       | 1.022  | 1.023       | 1.021       | 1.018       | 1.017       | 1.015       |             |             |             |             |
| 54/51  | 1.019       | 1.018       | 1.013       | 1.009       | 1.007       | 1.017 | 1.009       | 1.017       | 1.021       | 1.020       | 1.021  | 1.020       | 1.020       | 1.016       | 1.019       | 1.015       |             |             |             |             |
| 57/54  | 1.014       | 1.017       | 1.012       | 1.006       | 1.008       | 1.011 | 1.011       | 1.018       | 1.017       | 1.014       | 1.018  | 1.017       | 1.015       | 1.014       | 1.013       | 1.011       |             |             |             |             |
| 60/57  | 1.013       | 1.014       | 1.007       | 1.005       | 1.008       | 1.009 | 1.011       | 1.013       | 1.019       | 1.016       | 1.013  | 1.015       | 1.012       | 1.014       | 1.012       | 1.012       |             |             |             |             |
| 63/60  | 1.012       | 1.012       | 1.007       | 1.007       | 1.008       | 1.008 | 1.010       | 1.014       | 1.013       | 1.015       | 1.011  | 1.014       | 1.014       | 1.009       | 1.012       |             |             |             |             |             |
| 66/63  | 1.014       | 1.009       | 1.005       | 1.006       | 1.011       | 1.008 | 1.010       | 1.013       | 1.016       | 1.014       | 1.015  | 1.013       | 1.013       | 1.009       | 1.010       |             |             |             |             |             |
| 69/66  | 1.010       | 1.007       | 1.003       | 1.005       | 1.008       | 1.007 | 1.011       | 1.012       | 1.011       | 1.010       | 1.009  | 1.012       | 1.007       | 1.010       | 1.010       |             |             |             |             |             |
| 72/69  | 1.009       | 1.006       | 1.005       | 1.005       | 1.005       | 1.009 | 1.009       | 1.013       | 1.011       | 1.009       | 1.009  | 1.009       | 1.010       | 1.008       | 1.007       |             |             |             |             |             |
| 75/72  | 1.006       | 1.004       | 1.004       | 1.005       | 1.003       | 1.005 | 1.007       | 1.010       | 1.011       | 1.010       | 1.010  | 1.008       | 1.007       | 1.004       |             |             |             |             |             |             |
| 78/75  | 1.007       | 1.004       | 1.003       | 1.007       | 1.005       | 1.006 | 1.006       | 1.012       | 1.009       | 1.010       | 1.006  | 1.006       | 1.006       | 1.006       |             |             |             |             |             |             |
| 81/78  | 1.005       | 1.002       | 1.003       | 1.004       | 1.004       | 1.005 | 1.006       | 1.010       | 1.009       | 1.007       | 1.007  | 1.006       | 1.006       | 1.007       |             |             |             |             |             |             |
| 84/81  | 1.003       | 1.003       | 1.005       | 1.003       | 1.006       | 1.006 | 1.007       | 1.008       | 1.005       | 1.009       | 1.006  | 1.004       | 1.007       | 1.005       |             |             |             |             |             |             |
| 87/84  | 1.003       | 1.003       | 1.002       | 1.003       | 1.004       | 1.002 | 1.007       | 1.010       | 1.007       | 1.004       | 1.005  | 1.006       | 1.004       |             |             |             |             |             |             |             |
| 90/87  | 1.001       | 1.003       | 1.003       | 1.003       | 1.003       | 1.004 | 1.008       | 1.008       | 1.008       | 1.008       | 1.004  | 1.005       | 1.005       |             |             |             |             |             |             |             |
| 93/90  | 1.001       | 1.002       | 1.004       | 1.003       | 1.002       | 1.005 | 1.006       | 1.008       | 1.006       | 1.007       | 1.006  | 1.003       | 1.004       |             |             |             |             |             |             |             |
| 96/93  | 1.002       | 1.003       | 1.001       | 1.004       | 1.002       | 1.006 | 1.006       | 1.003       | 1.002       | 1.003       | 1.004  | 1.004       | 1.003       |             |             |             |             |             |             |             |

Source: WCIRB accident year experience calls

#### **Quarterly Incurred Medical Loss Development Factors \***

# Through December 31, 2017

| Age in |             |             |             |             |       |       |             |             |             | Accide      | nt Yea      | r           |             |             |             |             |             |             |             |             |
|--------|-------------|-------------|-------------|-------------|-------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Months | <u>1998</u> | <u>1999</u> | <u>2000</u> | <u>2001</u> | 2002  | 2003  | <u>2004</u> | <u>2005</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> | <u>2009</u> | <u>2010</u> | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> |
| 6/3    |             |             |             |             |       |       |             |             | 2.584       | 2.662       | 2.782       | 2.892       | 2.992       | 2.757       | 2.853       | 2.843       | 2.921       | 2.863       | 3.019       | 3.199       |
| 9/6    |             |             |             |             |       |       |             |             | 1.650       | 1.744       | 1.717       | 1.807       | 1.800       | 1.827       | 1.833       | 1.819       | 1.840       | 1.884       | 1.755       | 1.739       |
| 12/9   |             |             |             |             |       |       |             |             | 1.453       | 1.443       | 1.466       | 1.454       | 1.488       | 1.521       | 1.484       | 1.500       | 1.482       | 1.451       | 1.487       | 1.447       |
| 15/12  | 1.144       | 1.168       | 1.201       | 1.207       | 1.203 | 1.197 | 1.132       | 1.145       | 1.138       | 1.182       | 1.167       | 1.199       | 1.206       | 1.228       | 1.211       | 1.207       | 1.199       | 1.206       | 1.215       |             |
| 18/15  | 1.093       | 1.116       | 1.123       | 1.144       | 1.151 | 1.126 | 1.086       | 1.087       | 1.103       | 1.106       | 1.126       | 1.135       | 1.129       | 1.141       | 1.136       | 1.117       | 1.114       | 1.094       | 1.095       |             |
| 21/18  | 1.078       | 1.086       | 1.101       | 1.122       | 1.116 | 1.093 | 1.055       | 1.061       | 1.073       | 1.081       | 1.090       | 1.097       | 1.101       | 1.103       | 1.085       | 1.088       | 1.077       | 1.082       | 1.069       |             |
| 24/21  | 1.074       | 1.072       | 1.080       | 1.083       | 1.082 | 1.060 | 1.040       | 1.052       | 1.070       | 1.074       | 1.067       | 1.074       | 1.080       | 1.080       | 1.067       | 1.064       | 1.055       | 1.059       | 1.058       |             |
| 27/24  | 1.044       | 1.061       | 1.070       | 1.080       | 1.075 | 1.042 | 1.034       | 1.048       | 1.055       | 1.058       | 1.053       | 1.071       | 1.066       | 1.072       | 1.058       | 1.048       | 1.046       | 1.048       |             |             |
| 30/27  | 1.044       | 1.052       | 1.058       | 1.070       | 1.051 | 1.038 | 1.039       | 1.049       | 1.046       | 1.054       | 1.057       | 1.048       | 1.063       | 1.052       | 1.046       | 1.037       | 1.044       | 1.037       |             |             |
| 33/30  | 1.035       | 1.047       | 1.051       | 1.059       | 1.035 | 1.018 | 1.032       | 1.030       | 1.041       | 1.045       | 1.045       | 1.051       | 1.055       | 1.045       | 1.046       | 1.031       | 1.033       | 1.033       |             |             |
| 36/33  | 1.037       | 1.042       | 1.035       | 1.040       | 1.029 | 1.016 | 1.024       | 1.034       | 1.042       | 1.033       | 1.042       | 1.040       | 1.041       | 1.037       | 1.028       | 1.026       | 1.027       | 1.021       |             |             |
| 39/36  | 1.029       | 1.032       | 1.034       | 1.037       | 1.018 | 1.012 | 1.028       | 1.025       | 1.027       | 1.029       | 1.033       | 1.031       | 1.040       | 1.039       | 1.027       | 1.021       | 1.023       |             |             |             |
| 42/39  | 1.025       | 1.031       | 1.036       | 1.026       | 1.019 | 1.013 | 1.017       | 1.020       | 1.025       | 1.035       | 1.036       | 1.037       | 1.037       | 1.031       | 1.022       | 1.026       | 1.022       |             |             |             |
| 45/42  | 1.025       | 1.033       | 1.032       | 1.023       | 1.012 | 1.019 | 1.033       | 1.021       | 1.025       | 1.029       | 1.026       | 1.030       | 1.028       | 1.027       | 1.021       | 1.018       | 1.017       |             |             |             |
| 48/45  | 1.028       | 1.023       | 1.026       | 1.017       | 1.008 | 1.013 | 1.025       | 1.018       | 1.022       | 1.025       | 1.029       | 1.034       | 1.022       | 1.023       | 1.020       | 1.018       | 1.014       |             |             |             |
| 51/48  | 1.019       | 1.020       | 1.024       | 1.014       | 1.009 | 1.013 | 1.018       | 1.015       | 1.020       | 1.021       | 1.021       | 1.026       | 1.024       | 1.019       | 1.014       | 1.013       |             |             |             |             |
| 54/51  | 1.025       | 1.027       | 1.017       | 1.016       | 1.010 | 1.012 | 1.021       | 1.019       | 1.022       | 1.022       | 1.027       | 1.023       | 1.019       | 1.018       | 1.015       | 1.011       |             |             |             |             |
| 57/54  | 1.027       | 1.024       | 1.014       | 1.007       | 1.011 | 1.017 | 1.020       | 1.018       | 1.019       | 1.019       | 1.023       | 1.020       | 1.017       | 1.018       | 1.013       | 1.007       |             |             |             |             |
| 60/57  | 1.021       | 1.021       | 1.015       | 1.009       | 1.008 | 1.014 | 1.020       | 1.019       | 1.018       | 1.017       | 1.019       | 1.016       | 1.015       | 1.014       | 1.012       | 1.008       |             |             |             |             |
| 63/60  | 1.014       | 1.020       | 1.013       | 1.012       | 1.008 | 1.016 | 1.015       | 1.021       | 1.015       | 1.018       | 1.016       | 1.020       | 1.015       | 1.009       | 1.009       |             |             |             |             |             |
| 66/63  | 1.023       | 1.016       | 1.010       | 1.012       | 1.015 | 1.013 | 1.015       | 1.022       | 1.019       | 1.018       | 1.017       | 1.015       | 1.010       | 1.008       | 1.008       |             |             |             |             |             |
| 69/66  | 1.025       | 1.013       | 1.006       | 1.008       | 1.016 | 1.018 | 1.015       | 1.023       | 1.017       | 1.017       | 1.015       | 1.014       | 1.010       | 1.008       | 1.008       |             |             |             |             |             |
| 72/69  | 1.020       | 1.009       | 1.007       | 1.009       | 1.015 | 1.010 | 1.014       | 1.015       | 1.013       | 1.014       | 1.012       | 1.011       | 1.010       | 1.007       | 1.005       |             |             |             |             |             |
| 75/72  | 1.015       | 1.008       | 1.006       | 1.008       | 1.010 | 1.009 | 1.012       | 1.012       | 1.011       | 1.018       | 1.013       | 1.008       | 1.006       | 1.001       |             |             |             |             |             |             |
| 78/75  | 1.012       | 1.012       | 1.008       | 1.012       | 1.010 | 1.011 | 1.018       | 1.013       | 1.012       | 1.012       | 1.010       | 1.008       | 1.008       | 1.006       |             |             |             |             |             |             |
| 81/78  | 1.006       | 1.006       | 1.006       | 1.009       | 1.010 | 1.014 | 1.018       | 1.017       | 1.016       | 1.009       | 1.009       | 1.005       | 1.006       | 1.006       |             |             |             |             |             |             |
| 84/81  | 1.008       | 1.006       | 1.009       | 1.014       | 1.009 | 1.007 | 1.012       | 1.011       | 1.008       | 1.010       | 1.008       | 1.007       | 1.005       | 1.001       |             |             |             |             |             |             |
| 87/84  | 1.005       | 1.008       | 1.008       | 1.010       | 1.009 | 1.010 | 1.012       | 1.014       | 1.012       | 1.008       | 1.007       | 1.004       | 1.003       |             |             |             |             |             |             |             |
| 90/87  | 1.002       | 1.005       | 1.008       | 1.008       | 1.009 | 1.012 | 1.009       | 1.009       | 1.013       | 1.008       | 1.006       | 1.006       | 1.003       |             |             |             |             |             |             |             |
| 93/90  | 1.006       | 1.007       | 1.015       | 1.009       | 1.011 | 1.010 | 1.011       | 1.012       | 1.009       | 1.009       | 1.007       | 1.002       | 1.003       |             |             |             |             |             |             |             |
| 96/93  | 1.007       | 1.007       | 1.010       | 1.012       | 1.008 | 1.010 | 1.011       | 1.009       | 1.005       | 1.006       | 1.005       | 1.003       | 1.002       |             |             |             |             |             |             |             |

Source: WCIRB acident year experience calls

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

# Quarterly Paid Indemnity Loss Development Factors

# Through December 31, 2017

| Age in |             |             |             |             |       |       |             |             |             | Accide      | ent Yea     | r           |             |             |             |             |             |             |             |             |
|--------|-------------|-------------|-------------|-------------|-------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Months | <u>1998</u> | <u>1999</u> | <u>2000</u> | <u>2001</u> | 2002  | 2003  | <u>2004</u> | <u>2005</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> | <u>2009</u> | <u>2010</u> | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> |
| 6/3    |             |             |             |             |       |       |             |             | 4.376       | 4.495       | 4.553       | 4.807       | 4.911       | 4.722       | 4.854       | 5.099       | 5.076       | 5.056       | 5.087       | 5.060       |
| 9/6    |             |             |             |             |       |       |             |             | 2.259       | 2.375       | 2.377       | 2.398       | 2.452       | 2.432       | 2.484       | 2.462       | 2.462       | 2.484       | 2.456       | 2.431       |
| 12/9   |             |             |             |             |       |       |             |             | 1.812       | 1.834       | 1.810       | 1.825       | 1.861       | 1.869       | 1.877       | 1.866       | 1.879       | 1.910       | 1.882       | 1.890       |
| 15/12  | 1.499       | 1.536       | 1.538       | 1.552       | 1.550 | 1.516 | 1.491       | 1.456       | 1.482       | 1.488       | 1.481       | 1.507       | 1.532       | 1.539       | 1.506       | 1.539       | 1.540       | 1.559       | 1.571       |             |
| 18/15  | 1.380       | 1.399       | 1.395       | 1.401       | 1.403 | 1.379 | 1.331       | 1.306       | 1.306       | 1.327       | 1.332       | 1.343       | 1.355       | 1.361       | 1.361       | 1.353       | 1.364       | 1.372       | 1.366       |             |
| 21/18  | 1.323       | 1.298       | 1.303       | 1.303       | 1.311 | 1.297 | 1.241       | 1.217       | 1.233       | 1.235       | 1.243       | 1.259       | 1.257       | 1.261       | 1.261       | 1.263       | 1.267       | 1.264       | 1.256       |             |
| 24/21  | 1.259       | 1.257       | 1.256       | 1.258       | 1.260 | 1.244 | 1.183       | 1.181       | 1.195       | 1.191       | 1.194       | 1.206       | 1.209       | 1.215       | 1.213       | 1.204       | 1.216       | 1.211       | 1.206       |             |
| 27/24  | 1.186       | 1.199       | 1.203       | 1.200       | 1.205 | 1.186 | 1.140       | 1.142       | 1.151       | 1.149       | 1.153       | 1.162       | 1.165       | 1.168       | 1.164       | 1.159       | 1.170       | 1.176       |             |             |
| 30/27  | 1.157       | 1.161       | 1.165       | 1.175       | 1.172 | 1.161 | 1.122       | 1.117       | 1.126       | 1.129       | 1.130       | 1.141       | 1.141       | 1.137       | 1.134       | 1.141       | 1.147       | 1.142       |             |             |
| 33/30  | 1.118       | 1.125       | 1.130       | 1.142       | 1.136 | 1.123 | 1.097       | 1.096       | 1.100       | 1.101       | 1.108       | 1.114       | 1.116       | 1.112       | 1.111       | 1.111       | 1.115       | 1.107       |             |             |
| 36/33  | 1.102       | 1.103       | 1.103       | 1.115       | 1.111 | 1.097 | 1.085       | 1.081       | 1.080       | 1.084       | 1.092       | 1.094       | 1.098       | 1.091       | 1.091       | 1.096       | 1.092       | 1.089       |             |             |
| 39/36  | 1.074       | 1.081       | 1.081       | 1.092       | 1.087 | 1.072 | 1.070       | 1.066       | 1.064       | 1.067       | 1.074       | 1.078       | 1.077       | 1.073       | 1.075       | 1.074       | 1.075       |             |             |             |
| 42/39  | 1.067       | 1.071       | 1.077       | 1.080       | 1.073 | 1.063 | 1.059       | 1.058       | 1.058       | 1.062       | 1.067       | 1.067       | 1.071       | 1.070       | 1.065       | 1.064       | 1.066       |             |             |             |
| 45/42  | 1.057       | 1.054       | 1.063       | 1.064       | 1.056 | 1.049 | 1.047       | 1.049       | 1.047       | 1.051       | 1.058       | 1.059       | 1.057       | 1.055       | 1.054       | 1.052       | 1.050       |             |             |             |
| 48/45  | 1.049       | 1.050       | 1.055       | 1.053       | 1.046 | 1.044 | 1.041       | 1.044       | 1.043       | 1.047       | 1.049       | 1.051       | 1.050       | 1.048       | 1.048       | 1.048       | 1.045       |             |             |             |
| 51/48  | 1.039       | 1.038       | 1.043       | 1.044       | 1.036 | 1.035 | 1.033       | 1.036       | 1.036       | 1.037       | 1.042       | 1.042       | 1.043       | 1.039       | 1.038       | 1.038       |             |             |             |             |
| 54/51  | 1.035       | 1.038       | 1.036       | 1.037       | 1.034 | 1.035 | 1.030       | 1.028       | 1.035       | 1.036       | 1.038       | 1.041       | 1.038       | 1.036       | 1.036       | 1.033       |             |             |             |             |
| 57/54  | 1.029       | 1.033       | 1.037       | 1.030       | 1.028 | 1.026 | 1.025       | 1.028       | 1.030       | 1.032       | 1.033       | 1.033       | 1.032       | 1.033       | 1.028       | 1.027       |             |             |             |             |
| 60/57  | 1.025       | 1.030       | 1.027       | 1.026       | 1.024 | 1.024 | 1.024       | 1.024       | 1.028       | 1.029       | 1.029       | 1.032       | 1.027       | 1.030       | 1.028       | 1.025       |             |             |             |             |
| 63/60  | 1.023       |             |             |             |       |       |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| 66/63  | 1.023       | 1.023       | 1.023       | 1.021       | 1.019 | 1.019 | 1.019       | 1.020       | 1.025       | 1.025       | 1.025       | 1.025       | 1.023       | 1.022       | 1.022       |             |             |             |             |             |
| 69/66  | 1.019       | 1.021       | 1.020       | 1.017       | 1.016 | 1.017 | 1.016       | 1.021       | 1.020       | 1.020       | 1.020       | 1.022       | 1.020       | 1.019       | 1.022       |             |             |             |             |             |
| 72/69  | 1.018       | 1.016       | 1.018       | 1.016       | 1.016 | 1.015 | 1.017       | 1.015       | 1.020       | 1.019       | 1.019       | 1.019       | 1.019       | 1.019       | 1.016       |             |             |             |             |             |
| 75/72  | 1.015       |             |             |             |       |       |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| 78/75  | 1.014       | 1.014       | 1.012       | 1.013       | 1.012 | 1.011 | 1.012       | 1.015       | 1.017       | 1.016       | 1.015       | 1.016       | 1.016       | 1.015       |             |             |             |             |             |             |
| 81/78  | 1.013       | 1.013       | 1.011       | 1.012       | 1.011 | 1.010 | 1.012       | 1.015       | 1.015       | 1.016       | 1.015       | 1.015       | 1.013       | 1.012       |             |             |             |             |             |             |
| 84/81  | 1.011       | 1.011       | 1.013       | 1.010       | 1.010 | 1.009 | 1.011       | 1.013       | 1.015       | 1.014       | 1.013       | 1.012       | 1.013       | 1.013       |             |             |             |             |             |             |
| 87/84  | 1.012       |             |             |             |       |       |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| 90/87  | 1.008       | 1.009       | 1.010       | 1.009       | 1.008 | 1.008 | 1.011       | 1.012       | 1.013       | 1.012       | 1.011       | 1.010       | 1.010       |             |             |             |             |             |             |             |
| 93/90  | 1.009       | 1.009       | 1.008       | 1.008       | 1.007 | 1.008 | 1.012       | 1.011       | 1.011       | 1.012       | 1.010       | 1.010       | 1.009       |             |             |             |             |             |             |             |
| 96/93  | 1.008       | 1.009       | 1.006       | 1.007       | 1.007 | 1.007 | 1.008       | 1.011       | 1.011       | 1.008       | 1.010       | 1.010       | 1.009       |             |             |             |             |             |             |             |

Source: WCIRB acident year experience calls

### **Quarterly Paid Medical Loss Development Factors \***

# Through December 31, 2017

| Age in        |             |             |             |             |             |             |             |             |             | Accide      | nt Yea      | r           |             |             |             |             |             |             |             |             |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>Months</u> | <u>1998</u> | <u>1999</u> | <u>2000</u> | <u>2001</u> | <u>2002</u> | <u>2003</u> | <u>2004</u> | <u>2005</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> | <u>2009</u> | <u>2010</u> | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> |
| 6/3           |             |             |             |             |             |             |             |             | 5.308       | 5.615       | 6.579       | 6.101       | 6.048       | 5.854       | 5.989       | 6.284       | 5.604       | 5.720       | 5.897       | 5.238       |
| 9/6           |             |             |             |             |             |             |             |             | 2.348       | 2.381       | 2.348       | 2.375       | 2.361       | 2.327       | 2.398       | 2.498       | 2.428       | 2.287       | 2.326       | 2.238       |
| 12/9          |             |             |             |             |             |             |             |             | 1.716       | 1.765       | 1.731       | 1.723       | 1.756       | 1.746       | 1.763       | 1.736       | 1.750       | 1.705       | 1.752       | 1.735       |
| 15/12         | 1.453       | 1.490       | 1.514       | 1.547       | 1.554       | 1.510       | 1.437       | 1.423       | 1.429       | 1.444       | 1.413       | 1.429       | 1.445       | 1.472       | 1.446       | 1.443       | 1.460       | 1.454       | 1.479       |             |
| 18/15         | 1.241       | 1.267       | 1.286       | 1.310       | 1.330       | 1.295       | 1.243       | 1.230       | 1.227       | 1.259       | 1.243       | 1.259       | 1.268       | 1.282       | 1.284       | 1.263       | 1.265       | 1.278       | 1.262       |             |
| 21/18         | 1.164       | 1.168       | 1.192       | 1.219       | 1.211       | 1.179       | 1.153       | 1.151       | 1.163       | 1.173       | 1.170       | 1.178       | 1.182       | 1.187       | 1.192       | 1.193       | 1.192       | 1.189       | 1.173       |             |
| 24/21         | 1.132       | 1.124       | 1.149       | 1.159       | 1.154       | 1.125       | 1.115       | 1.118       | 1.127       | 1.133       | 1.132       | 1.137       | 1.144       | 1.153       | 1.154       | 1.148       | 1.146       | 1.146       | 1.141       |             |
| 27/24         | 1.096       | 1.108       | 1.121       | 1.128       | 1.123       | 1.093       | 1.090       | 1.093       | 1.106       | 1.107       | 1.110       | 1.112       | 1.119       | 1.120       | 1.123       | 1.122       | 1.122       | 1.124       |             |             |
| 30/27         | 1.077       | 1.088       | 1.101       | 1.108       | 1.103       | 1.077       | 1.084       | 1.087       | 1.097       | 1.100       | 1.100       | 1.106       | 1.107       | 1.111       | 1.109       | 1.111       | 1.111       | 1.105       |             |             |
| 33/30         | 1.065       | 1.072       | 1.086       | 1.089       | 1.077       | 1.063       | 1.071       | 1.065       | 1.081       | 1.083       | 1.086       | 1.092       | 1.094       | 1.093       | 1.094       | 1.090       | 1.089       | 1.082       |             |             |
| 36/33         | 1.055       | 1.066       | 1.069       | 1.076       | 1.061       | 1.055       | 1.062       | 1.062       | 1.071       | 1.072       | 1.072       | 1.077       | 1.083       | 1.082       | 1.078       | 1.080       | 1.076       | 1.071       |             |             |
| 39/36         | 1.051       | 1.059       | 1.060       | 1.061       | 1.049       | 1.044       | 1.053       | 1.056       | 1.057       | 1.059       | 1.061       | 1.066       | 1.071       | 1.066       | 1.069       | 1.065       | 1.064       |             |             |             |
| 42/39         | 1.044       | 1.049       | 1.055       | 1.054       | 1.041       | 1.044       | 1.049       | 1.054       | 1.055       | 1.058       | 1.059       | 1.061       | 1.068       | 1.063       | 1.062       | 1.057       | 1.059       |             |             |             |
| 45/42         | 1.039       | 1.045       | 1.047       | 1.044       | 1.036       | 1.037       | 1.040       | 1.047       | 1.048       | 1.049       | 1.054       | 1.053       | 1.056       | 1.056       | 1.053       | 1.051       | 1.045       |             |             |             |
| 48/45         | 1.035       | 1.039       | 1.044       | 1.037       | 1.032       | 1.035       | 1.037       | 1.043       | 1.043       | 1.046       | 1.047       | 1.050       | 1.051       | 1.046       | 1.045       | 1.046       | 1.041       |             |             |             |
| 51/48         | 1.030       | 1.035       | 1.037       | 1.034       | 1.031       | 1.030       | 1.033       | 1.037       | 1.036       | 1.036       | 1.039       | 1.041       | 1.043       | 1.040       | 1.039       | 1.038       |             |             |             |             |
| 54/51         | 1.031       | 1.036       | 1.032       | 1.027       | 1.030       | 1.029       | 1.034       | 1.034       | 1.035       | 1.035       | 1.036       | 1.042       | 1.038       | 1.035       | 1.035       | 1.034       |             |             |             |             |
| 57/54         | 1.026       | 1.030       | 1.027       | 1.024       | 1.024       | 1.024       | 1.029       | 1.031       | 1.034       | 1.031       | 1.033       | 1.038       | 1.034       | 1.034       | 1.031       | 1.028       |             |             |             |             |
| 60/57         | 1.026       | 1.028       | 1.026       | 1.021       | 1.023       | 1.026       | 1.028       | 1.029       | 1.028       | 1.032       | 1.032       | 1.035       | 1.030       | 1.030       | 1.030       | 1.023       |             |             |             |             |
| 63/60         | 1.023       | 1.025       | 1.022       | 1.019       | 1.019       | 1.020       | 1.024       | 1.024       | 1.024       | 1.024       | 1.027       | 1.027       | 1.026       | 1.027       | 1.025       |             |             |             |             |             |
| 66/63         | 1.026       | 1.021       | 1.020       | 1.020       | 1.018       | 1.021       | 1.023       | 1.024       | 1.026       | 1.026       | 1.029       | 1.029       | 1.024       | 1.028       | 1.023       |             |             |             |             |             |
| 69/66         | 1.021       | 1.022       | 1.019       | 1.018       | 1.016       | 1.019       | 1.021       | 1.023       | 1.023       | 1.021       | 1.024       | 1.024       | 1.022       | 1.020       | 1.020       |             |             |             |             |             |
| 72/69         | 1.022       | 1.018       | 1.016       | 1.017       | 1.018       | 1.016       | 1.021       | 1.021       | 1.022       | 1.022       | 1.023       | 1.021       | 1.020       | 1.019       | 1.016       |             |             |             |             |             |
| 75/72         | 1.017       | 1.016       | 1.014       | 1.015       | 1.015       | 1.014       | 1.018       | 1.020       | 1.019       | 1.019       | 1.018       | 1.018       | 1.018       | 1.015       |             |             |             |             |             |             |
| 78/75         | 1.018       | 1.015       | 1.014       | 1.015       | 1.016       | 1.015       | 1.016       | 1.018       | 1.017       | 1.022       | 1.019       | 1.018       | 1.017       | 1.016       |             |             |             |             |             |             |
| 81/78         | 1.015       | 1.014       | 1.013       | 1.014       | 1.013       | 1.014       | 1.018       | 1.018       | 1.015       | 1.019       | 1.018       | 1.015       | 1.015       | 1.013       |             |             |             |             |             |             |
| 84/81         | 1.013       | 1.012       | 1.013       | 1.012       | 1.012       | 1.013       | 1.016       | 1.016       | 1.015       | 1.018       | 1.015       | 1.015       | 1.015       | 1.013       |             |             |             |             |             |             |
| 87/84         | 1.013       | 1.011       | 1.010       | 1.012       | 1.012       | 1.012       | 1.014       | 1.013       | 1.015       | 1.017       | 1.013       | 1.013       | 1.011       |             |             |             |             |             |             |             |
| 90/87         | 1.013       | 1.012       | 1.011       | 1.013       | 1.012       | 1.013       | 1.015       | 1.013       | 1.015       | 1.013       | 1.013       | 1.012       | 1.011       |             |             |             |             |             |             |             |
| 93/90         | 1.011       | 1.010       | 1.011       | 1.012       | 1.011       | 1.013       | 1.013       | 1.012       | 1.014       | 1.014       | 1.013       | 1.011       | 1.010       |             |             |             |             |             |             |             |
| 96/93         | 1.010       | 1.010       | 1.008       | 1.010       | 1.010       | 1.009       | 1.013       | 1.015       | 1.016       | 1.011       | 1.012       | 1.010       | 1.009       |             |             |             |             |             |             |             |

Source: WCIRB acident year experience calls

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

#### Reported Indemnity Claim Count Development

| Accident |               |       |              |              |              |       |       | Develop       | ment    |                |         |         |                |                |                |         |
|----------|---------------|-------|--------------|--------------|--------------|-------|-------|---------------|---------|----------------|---------|---------|----------------|----------------|----------------|---------|
| Year     | 12-24         | 24-36 | <u>36-48</u> | <u>48-60</u> | <u>60-72</u> | 72-84 | 84-96 | <u>96-108</u> | 108-120 | <u>120-132</u> | 132-144 | 144-156 | <u>156-168</u> | <u>168-180</u> | <u>180-192</u> | 192-204 |
| 1992     |               |       |              |              |              |       |       |               |         |                |         |         |                |                |                | 1.000   |
|          |               |       |              |              |              |       |       |               |         |                |         |         |                |                | 4 000          |         |
| 1993     |               |       |              |              |              |       |       |               |         |                |         |         |                | 4 000          | 1.000          | 1.000   |
| 1994     |               |       |              |              |              |       |       |               |         |                |         |         |                | 1.000          | 1.000          | 1.000   |
| 1995     |               |       |              |              |              |       |       |               |         |                |         |         | 1.001          | 1.000          | 1.001          | 1.000   |
| 1996     |               |       |              |              |              |       |       |               |         |                | 4 000   | 1.001   | 1.000          | 1.000          | 1.000          | 1.000   |
| 1997     |               |       |              |              |              |       |       |               |         |                | 1.000   | 1.000   | 1.000          | 1.000          | 1.000          | 1.000   |
| 1998     |               |       |              |              |              |       |       |               |         | 1.000          | 1.000   | 1.001   | 1.000          | 1.000          | 1.000          | 1.000   |
| 1999     |               |       |              |              |              |       |       |               | 1.000   | 1.000          | 1.001   | 1.000   | 1.000          | 1.000          | 1.000          | 1.000   |
| 2000     |               |       |              |              |              |       |       | 1.000         | 1.000   | 1.000          | 1.000   | 1.001   | 1.000          | 1.000          | 1.000          | 1.000   |
| 2001     |               |       |              |              |              |       | 0.999 | 1.000         | 1.000   | 1.000          | 1.000   | 1.000   | 1.000          | 1.000          | 1.000          | 1.000   |
| 2002     |               |       |              |              |              | 1.000 | 1.000 | 1.000         | 1.000   | 1.000          | 1.000   | 1.000   | 1.000          | 1.000          | 1.000          |         |
| 2003     |               |       |              |              | 0.999        | 0.998 | 0.999 | 0.999         | 1.000   | 0.999          | 1.000   | 1.000   | 1.000          | 1.000          |                |         |
| 2004     |               |       |              | 1.001        | 0.999        | 1.000 | 0.999 | 0.999         | 0.999   | 1.000          | 1.000   | 1.000   | 1.000          |                |                |         |
| 2005     |               |       | 1.003        | 1.000        | 1.001        | 1.001 | 1.000 | 1.000         | 1.000   | 1.000          | 1.000   | 1.000   |                |                |                |         |
| 2006     |               | 1.011 | 1.004        | 1.002        | 1.001        | 1.000 | 1.001 | 1.001         | 1.001   | 1.000          | 1.000   |         |                |                |                |         |
| 2007     | 1.122         | 1.013 | 1.006        | 1.004        | 1.002        | 1.000 | 1.001 | 1.001         | 1.000   | 1.000          |         |         |                |                |                |         |
| 2008     | 1.145         | 1.022 | 1.011        | 1.005        | 1.003        | 1.001 | 1.001 | 1.001         | 1.000   |                |         |         |                |                |                |         |
| 2009     | 1.189         | 1.028 | 1.011        | 1.006        | 1.004        | 1.002 | 1.001 | 1.001         |         |                |         |         |                |                |                |         |
| 2010     | 1.215         | 1.029 | 1.011        | 1.006        | 1.003        | 1.002 | 1.001 |               |         |                |         |         |                |                |                |         |
| 2011     | 1.229         | 1.032 | 1.013        | 1.007        | 1.003        | 1.002 |       |               |         |                |         |         |                |                |                |         |
| 2012     | 1.244         | 1.034 | 1.013        | 1.006        | 1.004        |       |       |               |         |                |         |         |                |                |                |         |
| 2013     | 1.248         | 1.031 | 1.012        | 1.006        |              |       |       |               |         |                |         |         |                |                |                |         |
| 2014     | 1.241         | 1.032 | 1.012        |              |              |       |       |               |         |                |         |         |                |                |                |         |
| 2015     | 1.246         | 1.031 |              |              |              |       |       |               |         |                |         |         |                |                |                |         |
| 2016     | 1.255         |       |              |              |              |       |       |               |         |                |         |         |                |                |                |         |
|          |               |       |              |              |              |       |       |               |         |                |         |         |                |                |                |         |
|          |               |       |              |              |              |       |       | Latest        | Year    |                |         |         |                |                |                |         |
|          | Age-to-Age    |       |              |              |              |       |       |               |         |                |         |         |                |                |                |         |
|          | 1.255         | 1.031 | 1.012        | 1.006        | 1.004        | 1.002 | 1.001 | 1.001         | 1.000   | 1.000          | 1.000   | 1.000   | 1.000          | 1.000          | 1.000          | 1.000   |
|          | Age-to-Ultima |       |              |              |              |       |       |               |         |                |         |         |                |                |                |         |
|          | 1.328         | 1.058 | 1.027        | 1.015        | 1.009        | 1.006 | 1.004 | 1.003         | 1.002   | 1.002          | 1.001   | 1.001   | 1.002          | 1.002          | 1.002          | 1.002   |

#### Quarterly Reported Indemnity Claim Count Development Factors

| Accident |       |       |       |       |       |       | De    | velopment |       |        |       |       |       |       |       |
|----------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|--------|-------|-------|-------|-------|-------|
| 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 |
| 2009     | 2 520 | 1.654 | 1 226 | 1 002 | 1.025 | 1.015 | 1.010 | 1 000     | 1.000 | 1 00 1 | 1 002 | 1 002 | 1 002 | 1 002 | 1 000 |
| 2008     | 2.539 | 1.651 | 1.336 | 1.093 | 1.025 | 1.015 | 1.010 | 1.009     | 1.006 | 1.004  | 1.003 | 1.003 | 1.002 | 1.003 | 1.002 |
| 2009     | 2.693 | 1.686 | 1.384 | 1.111 | 1.036 | 1.021 | 1.012 | 1.009     | 1.007 | 1.007  | 1.005 | 1.004 | 1.003 | 1.002 | 1.002 |
| 2010     | 2.708 | 1.710 | 1.409 | 1.126 | 1.038 | 1.022 | 1.016 | 1.011     | 1.008 | 1.005  | 1.005 | 1.003 | 1.004 | 1.003 | 1.001 |
| 2011     | 2.713 | 1.743 | 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     | 2.771 | 1.731 | 1.422 | 1.124 | 1.050 | 1.028 | 1.018 | 1.013     | 1.009 | 1.007  | 1.004 | 1.004 | 1.003 | 1.003 | 1.002 |
| 2013     | 2.831 | 1.743 | 1.422 | 1.139 | 1.045 | 1.027 | 1.016 | 1.010     | 1.009 | 1.006  | 1.004 | 1.004 | 1.004 | 1.002 | 1.002 |
| 2014     | 2.793 | 1.727 | 1.425 | 1.132 | 1.046 | 1.025 | 1.017 | 1.012     | 1.010 | 1.005  | 1.004 | 1.004 | 1.004 | 1.002 | 1.002 |
| 2015     | 2.818 | 1.746 | 1.417 | 1.138 | 1.048 | 1.024 | 1.016 | 1.013     | 1.008 | 1.005  | 1.003 |       |       |       |       |
| 2016     | 2.732 | 1.721 | 1.413 | 1.140 | 1.046 | 1.027 | 1.017 |           |       |        |       |       |       |       |       |
| 2017     | 2.823 | 1.690 | 1.413 |       |       |       |       |           |       |        |       |       |       |       |       |

#### **Reported Indemnity Claim Settlement Ratios**

| Accident |           |       |           |           |           |       | E         | Evaluated | as of (in  | months): |       |            |            |            |            |            |       |
|----------|-----------|-------|-----------|-----------|-----------|-------|-----------|-----------|------------|----------|-------|------------|------------|------------|------------|------------|-------|
| Year     | <u>12</u> | 24    | <u>36</u> | <u>48</u> | <u>60</u> | 72    | <u>84</u> | <u>96</u> | <u>108</u> | 120      | 132   | <u>144</u> | <u>156</u> | <u>168</u> | <u>180</u> | <u>192</u> | 204   |
| 1992     |           |       |           |           |           |       |           |           |            |          |       |            |            |            |            |            | 99.2% |
| 1993     |           |       |           |           |           |       |           |           |            |          |       |            |            |            |            | 98.9%      | 99.0% |
| 1994     |           |       |           |           |           |       |           |           |            |          |       |            |            |            | 98.6%      | 98.8%      | 98.9% |
| 1995     |           |       |           |           |           |       |           |           |            |          |       |            |            | 98.1%      | 98.4%      | 98.5%      | 98.7% |
| 1996     |           |       |           |           |           |       |           |           |            |          |       |            | 97.7%      | 98.0%      | 98.2%      | 98.4%      | 98.6% |
| 1997     |           |       |           |           |           |       |           |           |            |          |       | 97.1%      | 97.5%      | 97.7%      | 98.0%      | 98.2%      | 98.4% |
| 1998     |           |       |           |           |           |       |           |           |            |          | 96.2% | 96.8%      | 97.1%      | 97.5%      | 97.8%      | 98.0%      | 98.2% |
| 1999     |           |       |           |           |           |       |           |           |            | 95.3%    | 96.1% | 96.6%      | 97.0%      | 97.3%      | 97.7%      | 98.0%      | 98.1% |
| 2000     |           |       |           |           |           |       |           |           | 93.5%      | 94.7%    | 95.5% | 96.2%      | 96.6%      | 97.2%      | 97.5%      | 97.8%      | 98.0% |
| 2001     |           |       |           |           |           |       |           | 90.4%     | 92.3%      | 93.6%    | 94.5% | 95.3%      | 96.1%      | 96.6%      | 97.0%      | 97.4%      | 97.7% |
| 2002     |           |       |           |           |           |       | 88.2%     | 90.8%     | 92.4%      | 93.7%    | 94.7% | 95.8%      | 96.4%      | 96.9%      | 97.4%      | 97.7%      |       |
| 2003     |           |       |           |           |           | 84.8% | 88.4%     | 90.6%     | 92.4%      | 93.7%    | 95.2% | 95.9%      | 96.4%      | 97.0%      | 97.5%      |            |       |
| 2004     |           |       |           |           | 80.8%     | 85.3% | 88.3%     | 90.6%     | 92.4%      | 94.3%    | 95.4% | 96.1%      | 96.8%      | 97.3%      |            |            |       |
| 2005     |           |       |           | 74.8%     | 81.3%     | 85.5% | 88.5%     | 90.8%     | 93.1%      | 94.5%    | 95.5% | 96.4%      | 97.0%      |            |            |            |       |
| 2006     |           |       | 64.3%     | 74.3%     | 81.0%     | 85.2% | 88.3%     | 91.2%     | 93.0%      | 94.3%    | 95.5% | 96.4%      |            |            |            |            |       |
| 2007     |           | 49.9% | 63.6%     | 73.6%     | 80.3%     | 84.7% | 88.8%     | 91.4%     | 93.2%      | 94.8%    | 95.9% |            |            |            |            |            |       |
| 2008     | 27.6%     | 48.2% | 61.8%     | 72.1%     | 79.2%     | 85.0% | 88.8%     | 91.5%     | 93.6%      | 95.0%    |       |            |            |            |            |            |       |
| 2009     | 26.7%     | 46.3% | 60.0%     | 70.7%     | 79.1%     | 84.6% | 88.6%     | 91.7%     | 93.7%      |          |       |            |            |            |            |            |       |
| 2010     | 26.9%     | 46.8% | 60.7%     | 72.6%     | 80.6%     | 86.0% | 90.1%     | 92.8%     |            |          |       |            |            |            |            |            |       |
| 2011     | 27.6%     | 47.2% | 62.2%     | 73.8%     | 81.7%     | 87.1% | 90.9%     |           |            |          |       |            |            |            |            |            |       |
| 2012     | 27.6%     | 48.1% | 63.5%     | 75.1%     | 83.0%     | 88.4% |           |           |            |          |       |            |            |            |            |            |       |
| 2013     | 27.1%     | 48.5% | 64.7%     | 76.8%     | 84.8%     |       |           |           |            |          |       |            |            |            |            |            |       |
| 2014     | 26.9%     | 49.7% | 66.2%     | 78.3%     |           |       |           |           |            |          |       |            |            |            |            |            |       |
| 2015     | 27.4%     | 51.0% | 68.6%     |           |           |       |           |           |            |          |       |            |            |            |            |            |       |
| 2016     | 28.8%     | 54.0% |           |           |           |       |           |           |            |          |       |            |            |            |            |            |       |
| 2017     | 31.0%     |       |           |           |           |       |           |           |            |          |       |            |            |            |            |            |       |
|          |           |       |           |           |           |       |           |           |            |          |       |            |            |            |            |            |       |

#### Estimated Ultimate Indemnity Claim Settlement Ratios

| Accident |           |       |           |           |           |       | E         | Evaluated | as of (in  | months): |       |            |       |            |            |            |       |
|----------|-----------|-------|-----------|-----------|-----------|-------|-----------|-----------|------------|----------|-------|------------|-------|------------|------------|------------|-------|
| Year     | <u>12</u> | 24    | <u>36</u> | <u>48</u> | <u>60</u> | 72    | <u>84</u> | <u>96</u> | <u>108</u> | 120      | 132   | <u>144</u> | 156   | <u>168</u> | <u>180</u> | <u>192</u> | 204   |
| 1992     |           |       |           |           |           |       |           |           |            |          |       |            |       |            |            |            | 99.1% |
| 1993     |           |       |           |           |           |       |           |           |            |          |       |            |       |            |            | 98.8%      | 98.9% |
| 1994     |           |       |           |           |           |       |           |           |            |          |       |            |       |            | 98.3%      | 98.5%      | 98.7% |
| 1995     |           |       |           |           |           |       |           |           |            |          |       |            |       | 97.8%      | 98.0%      | 98.3%      | 98.5% |
| 1996     |           |       |           |           |           |       |           |           |            |          |       |            | 97.4% | 97.8%      | 98.0%      | 98.2%      | 98.4% |
| 1997     |           |       |           |           |           |       |           |           |            |          |       | 96.8%      | 97.2% | 97.5%      | 97.7%      | 98.0%      | 98.2% |
| 1998     |           |       |           |           |           |       |           |           |            |          | 95.9% | 96.5%      | 96.9% | 97.3%      | 97.5%      | 97.8%      | 98.0% |
| 1999     |           |       |           |           |           |       |           |           |            | 95.0%    | 95.8% | 96.3%      | 96.7% | 97.1%      | 97.5%      | 97.8%      | 98.0% |
| 2000     |           |       |           |           |           |       |           |           | 93.2%      | 94.4%    | 95.2% | 95.9%      | 96.4% | 97.0%      | 97.4%      | 97.6%      | 97.9% |
| 2001     |           |       |           |           |           |       |           | 90.2%     | 92.1%      | 93.3%    | 94.3% | 95.1%      | 95.9% | 96.4%      | 96.8%      | 97.2%      | 97.5% |
| 2002     |           |       |           |           |           |       | 88.2%     | 90.7%     | 92.3%      | 93.6%    | 94.6% | 95.6%      | 96.3% | 96.7%      | 97.2%      | 97.6%      |       |
| 2003     |           |       |           |           |           | 85.0% | 88.5%     | 90.6%     | 92.3%      | 93.6%    | 95.0% | 95.7%      | 96.3% | 96.9%      | 97.3%      |            |       |
| 2004     |           |       |           |           | 81.0%     | 85.4% | 88.4%     | 90.6%     | 92.4%      | 94.2%    | 95.2% | 95.9%      | 96.6% | 97.2%      |            |            |       |
| 2005     |           |       |           | 74.6%     | 81.1%     | 85.3% | 88.4%     | 90.7%     | 93.0%      | 94.4%    | 95.4% | 96.3%      | 96.9% |            |            |            |       |
| 2006     |           |       | 63.5%     | 73.8%     | 80.6%     | 84.9% | 88.0%     | 90.9%     | 92.8%      | 94.2%    | 95.4% | 96.3%      |       |            |            |            |       |
| 2007     |           | 48.4% | 62.6%     | 72.9%     | 79.8%     | 84.3% | 88.5%     | 91.2%     | 93.0%      | 94.6%    | 95.8% |            |       |            |            |            |       |
| 2008     | 23.0%     | 46.0% | 60.4%     | 71.1%     | 78.5%     | 84.5% | 88.4%     | 91.2%     | 93.4%      | 94.9%    |       |            |       |            |            |            |       |
| 2009     | 21.3%     | 43.9% | 58.5%     | 69.7%     | 78.4%     | 84.1% | 88.2%     | 91.5%     | 93.5%      |          |       |            |       |            |            |            |       |
| 2010     | 21.0%     | 44.3% | 59.1%     | 71.4%     | 79.9%     | 85.4% | 89.8%     | 92.5%     |            |          |       |            |       |            |            |            |       |
| 2011     | 21.2%     | 44.5% | 60.5%     | 72.7%     | 81.0%     | 86.6% | 90.6%     |           |            |          |       |            |       |            |            |            |       |
| 2012     | 20.9%     | 45.2% | 61.8%     | 74.0%     | 82.3%     | 87.9% |           |           |            |          |       |            |       |            |            |            |       |
| 2013     | 20.5%     | 45.9% | 63.0%     | 75.6%     | 84.0%     |       |           |           |            |          |       |            |       |            |            |            |       |
| 2014     | 20.4%     | 46.9% | 64.4%     | 77.1%     |           |       |           |           |            |          |       |            |       |            |            |            |       |
| 2015     | 20.7%     | 48.2% | 66.8%     |           |           |       |           |           |            |          |       |            |       |            |            |            |       |
| 2016     | 21.7%     | 51.0% |           |           |           |       |           |           |            |          |       |            |       |            |            |            |       |
| 2017     | 23.4%     |       |           |           |           |       |           |           |            |          |       |            |       |            |            |            |       |
|          |           |       |           |           |           |       |           |           |            |          |       |            |       |            |            |            |       |

#### Quarterly Ultimate Settlement Ratios

| Accident |              |            |              |              |              |              | Eval         | uated as of  | (in months   | s):          |              |              |              |              |              |       |
|----------|--------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------|
| Year     | <u>3</u>     | <u>6</u>   | <u>9</u>     | <u>12</u>    | <u>15</u>    | <u>18</u>    | <u>21</u>    | 24           | 27           | <u>30</u>    | <u>33</u>    | <u>36</u>    | <u>39</u>    | <u>42</u>    | <u>45</u>    | 48    |
| 2008     | 0.8%         | 5.5%       | 13.3%        | 23.0%        | 31.6%        | 37.8%        | 42.2%        | 46.1%        | 49.7%        | 53.4%        | 56.8%        | 60.3%        | 63.2%        | 65.9%        | 68.6%        | 70.9% |
| 2009     | 0.7%         | 4.7%       | 12.2%        | 21.2%        | 29.5%        | 35.6%        | 40.0%        | 43.9%        | 47.6%        | 51.2%        | 55.0%        | 58.5%        | 61.5%        | 64.5%        | 67.0%        | 69.6% |
| 2010     | 0.6%         | 4.7%       | 11.8%        | 21.0%        | 29.8%        | 35.8%        | 40.1%        | 44.4%        | 48.2%        | 52.2%        | 55.7%        | 59.2%        | 62.4%        | 65.8%        | 68.8%        | 71.7% |
| 2011     | 0.8%         | 5.1%       | 11.9%        | 21.2%        | 29.7%        | 35.8%        | 40.4%        | 44.7%        | 48.6%        | 53.0%        | 56.9%        | 60.8%        | 64.1%        | 67.2%        | 70.2%        | 73.0% |
| 2012     | 0.8%         | 5.0%       | 12.1%        | 21.2%        | 29.5%        | 35.9%        | 40.8%        | 45.6%        | 49.8%        | 54.1%        | 58.3%        | 62.2%        | 65.6%        | 68.9%        | 71.7%        | 74.4% |
| 2013     | 0.9%         | 5.0%       | 11.8%        | 20.9%        | 29.2%        | 35.9%        | 41.3%        | 46.3%        | 50.9%        | 55.4%        | 59.5%        | 63.4%        | 67.0%        | 70.4%        | 73.3%        | 76.0% |
| 2014     | 0.7%         | 4.7%       | 11.6%        | 20.7%        | 29.4%        | 36.2%        | 41.9%        | 47.1%        | 51.8%        | 56.3%        | 60.6%        | 64.6%        | 68.0%        | 71.5%        | 74.4%        | 77.2% |
| 2015     | 0.8%         | 4.7%       | 12.0%        | 20.9%        | 30.1%        | 37.4%        | 43.0%        | 48.3%        | 53.4%        | 58.5%        | 62.8%        | 66.8%        |              |              |              |       |
| 2016     | 0.8%         | 5.1%       | 12.3%        | 21.9%        | 31.6%        | 39.4%        | 45.4%        | 51.2%        |              |              |              |              |              |              |              |       |
| 2017     | 0.9%         | 5.6%       | 13.4%        | 24.0%        |              |              |              |              |              |              |              |              |              |              |              |       |
|          |              |            |              |              |              |              |              |              |              |              |              |              |              |              |              |       |
|          |              |            |              |              |              |              |              |              | -            |              |              |              |              |              |              |       |
| Accident |              |            |              |              |              |              | Quarterly Ir |              | Ū.           |              |              |              |              |              |              |       |
| Year     | <u>3-6</u>   | <u>6-9</u> | <u>9-12</u>  | <u>12-15</u> | <u>15-18</u> | <u>18-21</u> | <u>21-24</u> | <u>24-27</u> | 27-30        | <u>30-33</u> | <u>33-36</u> | <u>36-39</u> | <u>39-42</u> | <u>42-45</u> | <u>45-48</u> |       |
| 2008     | 4.7%         | 7.8%       | 9.7%         | 8.6%         | 6.3%         | 4.4%         | 3.8%         | 3.6%         | 3.7%         | 3.5%         | 3.5%         | 2.9%         | 2.7%         | 2.6%         | 2.4%         |       |
| 2009     | 4.0%         | 7.5%       | 9.0%         | 8.3%         | 6.0%         | 4.4%         | 4.0%         | 3.7%         | 3.7%         | 3.7%         | 3.5%         | 3.0%         | 3.0%         | 2.5%         | 2.5%         |       |
| 2000     | 4.1%         | 7.1%       | 9.2%         | 8.8%         | 6.0%         | 4.4%         | 4.3%         | 3.8%         | 3.9%         | 3.5%         | 3.5%         | 3.2%         | 3.4%         | 3.0%         | 2.9%         |       |
| 2010     | 4.3%         | 6.9%       | 9.3%         | 8.4%         | 6.2%         | 4.5%         | 4.4%         | 3.9%         | 4.3%         | 3.9%         | 4.0%         | 3.3%         | 3.0%         | 3.0%         | 2.8%         |       |
| 2011     | 4.2%         | 7.0%       | 9.1%         | 8.3%         | 6.4%         | 4.8%         | 4.9%         | 4.2%         | 4.3%         | 4.2%         | 3.9%         | 3.4%         | 3.2%         | 2.9%         | 2.0%         |       |
| 2012     | 4.1%         | 6.7%       | 9.1%         | 8.4%         | 6.6%         | 5.4%         | 5.0%         | 4.6%         | 4.5%         | 4.1%         | 3.9%         | 3.6%         | 3.3%         | 2.9%         | 2.8%         |       |
| 2013     | 4.1%         | 6.9%       | 9.0%         | 8.8%         | 6.8%         | 5.7%         | 5.1%         | 4.0%         | 4.5%         | 4.1%         | 4.0%         | 3.4%         | 3.5%         | 2.9%         | 2.8%         |       |
| 2014     | 4.0%<br>3.9% | 7.3%       | 9.0%<br>8.9% | 0.0%<br>9.2% | 7.3%         | 5.6%         | 5.3%         | 4.0%<br>5.1% | 4.5%<br>5.1% | 4.3%         | 4.0%         | 3.4%         | 5.5%         | 2.9%         | 2.070        |       |
| 2015     | 3.9%<br>4.2% | 7.2%       | 8.9%<br>9.6% | 9.2%<br>9.7% | 7.8%         | 5.0%<br>6.0% | 5.8%         | J.170        | J.170        | 4.3%         | 4.0%         |              |              |              |              |       |
| 2010     | 4.270        | 1.270      | 9.0%         | 3.170        | 1.070        | 0.0%         | 3.0%         |              |              |              |              |              |              |              |              |       |

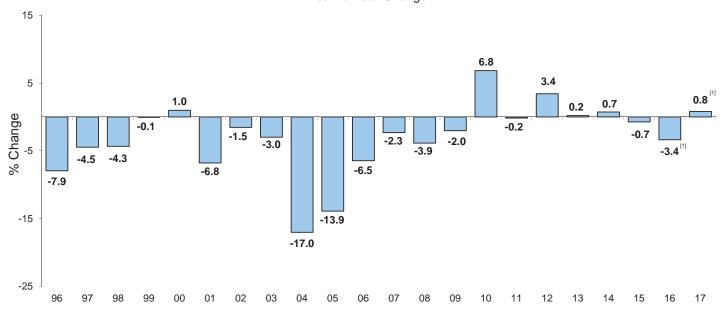
Notes All figures in each accident year contain information from the same combination of insurers, all of whom submitted complete data for all evaluations for that accident year. Therefore, each accident year may contain a different mix of insurers (ranging from 85% to 97% of the total California workers' compensation insured market measured using 2017 earned premium levels).

Source: WCIRB quarterly calls for experience

4.8% 7.8% 10.6%

2017

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



Year-to-Year Change

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

# Item AC18-04-01 12/31/2017 Loss Adjustment Expense Experience Review

The WCIRB's Amended January 1, 2018 Pure Premium Rate Filing included a provision for loss adjustment expenses (LAE) prior to the impact of Senate Bill No. 1160 (SB 1160) and Assembly Bill No. 1244 (AB 1244) of 33.1%. This amount reflected 10.5% for unallocated loss adjustment expenses (ULAE)<sup>1</sup> and 22.6% for allocated loss adjustment expenses (ALAE), including the cost of medical cost containment programs (MCCP), and was based on calendar year 2016 ULAE data and accident year ALAE and MCCP data evaluated as of March 31, 2017. The updated ULAE and ALAE projections, including MCCP costs, for the July 1, 2018 to December 31, 2018 policy period are summarized separately below.

# ULAE Projection

As of this time, the WCIRB does not have available calendar year 2017 ULAE information. However, staff has computed a preliminary updated ULAE projection based on updated frequency and loss projections as of December 31, 2017 using the same methodologies as those reflected in the January 1, 2018 Pure Premium Rate Filing. The projection of ULAE as a percentage of loss based on this approach, before reflecting the impact of SB 1160 and AB 1244 is 11.5%.

SB 1160 and AB 1244, effective in 2017, included several provisions related to lien filings. As discussed at prior meetings and in prior pure premium rate filings, liens incur significant LAE costs in addition to the settlement costs paid to the lien claimant. In the Amended January 1, 2017 Pure Premium Rate Filing, the WCIRB prospectively estimated that SB 1160 and AB 1244 would reduce lien filings by 10%, resulting in a 0.6% decrease in total losses and LAE. This estimate was based on an estimate that lien costs in LAE were 3.4% of total losses and LAE. Using the LAE (excluding MCCP, which does not include lien costs) to loss ratio reflected in the Amended January 1, 2018 Pure Premium Rate Filing of 28.8%, this results in an estimated decrease of 1.6% in total LAE based on the WCIRB's prospective estimate of SB 1160 and AB 1244.<sup>2</sup>

As discussed at the March 19, 2018 meeting, lien filings in 2017 and early 2018 are approximately 40% lower than the pre-SB 1160 and AB 1244 level. As a result, staff recommends a decrease of 2.4% in total costs be reflected for the impact of these reforms as compared to the 0.6% decrease reflected in the latest two annual pure premium rate filings, which translates to a 6.4% decrease in total LAE.<sup>3</sup> Given that the ULAE projection is only based on data through calendar year 2016, which was prior to the January 1, 2017 effective date of the legislation, the impact of SB 1160 and AB 1244 is reflected as a separate adjustment to the projected ULAE ratio. Based on this approach, the December 31, 2017 loss projections included in Item AC18-03-02, and the projection methodologies reflected in the January 1, 2018 Pure Premium Rate Filing, the preliminary ULAE projection is 10.7%.

Table 1 shows the updated preliminary projections of ULAE as a percentage of loss before and after reflecting the estimated impact of SB 1160 and AB 1244.

<sup>&</sup>lt;sup>1</sup> In the Decision on the January 1, 2018 Pure Premium Rate Filing, the California Department of Insurance reflected a slightly higher ULAE provision due to additional information being collected by the WCIRB in 2018 for use in the January 1, 2019 Pure Premium Rate Filing that will likely generate a somewhat higher ULAE provision.

<sup>&</sup>lt;sup>2</sup> This adjustment was applied to overall projected loss and loss adjustment expenses and not reflected in the 33.1% LAE provision shown in the Amended January 1, 2018 Pure Premium Rate Filing.

<sup>&</sup>lt;sup>3</sup> The impact of these reforms on medical costs is reflected in the loss development and on-leveling adjustments reflected in Item AC18-03-02 of this Agenda.

| ULAE Projection Method   | ULAE Ratio Before<br>Impact of<br>SB 1160 & AB 1244 | ULAE Ratio After<br>Impact of<br>SB 1160 & AB 1244 |
|--|---|--|
| Paid ULAE per Open Indemnity Claim                                       | 12.3%   | 11.5%  |
| Paid ULAE to Paid Losses   | 10.6%   | 9.9%   |
| Average of Open Indemnity Claim-Based and Paid<br>Loss-Based Projections | 11.5%   | 10.7%  |

# Table 1: ULAE to Loss Ratio Projections for Policies Incepting July 1, 2018 through December 31, 2018

# ALAE Projection – Excluding MCCP

The ALAE provision reflected in the WCIRB's Amended January 1, 2018 Pure Premium Rate Filing was based on a methodology that projects future ALAE as a function of the anticipated future number of indemnity claims and private insurer average ALAE per indemnity claim. The WCIRB has updated the ALAE projection based on ALAE data evaluated as of December 31, 2017 as well as updated frequency and loss projections. (These ALAE projections exclude MCCP costs, which are discussed separately below.)

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

Exhibits 4.1 through 4.4 show the ALAE projection excluding MCCP costs, which is based on statewide claim and loss projections and private insurer average ALAE per indemnity claim. The projection shown in Exhibit 4.4 was computed using a 4.0% ALAE severity trend selected based on the approximate average of the private insurer longer-term (post-2005) and shorter-term (five-year) growth rates of (a) estimated ultimate accident year ALAE per indemnity claim (Exhibit 2.2) and (b) incremental paid calendar year ALAE per open indemnity claim (Exhibit 3), which is consistent with the methodology used to select the ALAE severity trend in the last several pure premium rate filings. (The projected ALAE severity trend reflected in the Amended January 1, 2018 Premium Rate Filing was also 4.0%.)

As shown in line (f) of Exhibit 4.4, the preliminary updated projection of ALAE as a percentage of loss, excluding the cost of MCCP and before the impact of SB 1160 and AB 1244, is 19.8% based on December 31, 2017 ALAE experience and the projection methodology reflected in the January 1, 2018 Pure Premium Rate Filing. (This compares to a projected ALAE excluding MCCP costs to loss of 18.3% in the Amended January 1, 2018 Pure Premium Rate Filing.<sup>4</sup>)

As discussed above, SB 1160 and AB 1244 is estimated to impact LAE costs. Although ALAE data for accident year 2017 is available, it is currently valued at 12 months and liens are typically not filed on claims until much later. As a result, the impact of SB 1160 and AB 1244 is substantially not yet reflected in the ALAE reported for 2017 and, in addition, it is not clear as to how these lien reforms will impact future ALAE development of older accident years. To reflect the impact of these reforms, as with ULAE, staff recommends including a separate adjustment to the projected ALAE ratio. This adjustment is shown in lines (g) and (h) of Exhibit 4.4. Based on this approach with staff's recommended 40% reduction in lien costs, the preliminary ALAE projection is 18.5%.

<sup>&</sup>lt;sup>4</sup> The 18.3% ALAE provision was prior to the estimated impact of SB 1160 and AB 1244.

# ALAE Projection – MCCP

The ALAE provision reflected in the WCIRB's Amended January 1, 2018 Pure Premium Rate Filing also included a provision for MCCP costs. The projection of MCCP costs was based on a methodology analogous to that used for ALAE excluding MCCP costs and using statewide claim and MCCP cost data. The WCIRB has updated the MCCP cost projection based on MCCP data evaluated as of December 31, 2017 as well as updated frequency and loss projections.

Exhibit 5 shows statewide and private insurer annual MCCP severity growth percentages based on ratios of calendar year paid MCCP costs per indemnity claims inventory. Exhibit 6 shows statewide annual MCCP severity growth percentages based on estimated accident year ultimate MCCP costs per indemnity claim. Exhibits 7.1 and 7.2 show the projection of MCCP costs in ALAE based on statewide data. A 0% MCCP severity trend was selected based on the approximate average rates of growth in (a) statewide calendar year MCCP per indemnity claims inventory from 2009 through 2016 (Exhibit 5) and (b) estimated ultimate accident year MCCP costs per indemnity claim from 2012 through 2017 (Exhibit 6), which is consistent with the methodology used to select the MCCP severity trend in the last several pure premium rate filings.<sup>5</sup> The projected ratio of MCCP to loss based on this methodology is 4.0%. (This compares to a MCCP to loss projection of 4.3% in the Amended January 1, 2018 Pure Premium Rate Filing.)

Table 2 also shows the preliminary projections of ALAE, including the cost of MCCP, as a percentage of loss before and after reflecting the estimated impact of SB 1160 and AB 1244. The preliminary projected ratio of total ALAE to loss is 22.5%.

| ALAE Projection Method   | ALAE Ratio Before<br>Impact of<br>SB 1160 & AB 1244 | ALAE Ratio After<br>Impact of<br>SB 1160 & AB 1244 |
|--|---|--|
| Separate Projections of Indemnity Claims and<br>Private Insurer Average ALAE per Indemnity<br>Claim – Excluding MCCP Costs | 19.8%   | 18.5%  |
| Separate Projections of Indemnity Claims and<br>Average MCCP Costs per Indemnity Claim                                     | 4.0%  | 4.0%   |
| Total Projections of ALAE Including MCCP Costs   | 23.8%   | 22.5%  |

# Table 2: Projections of ALAE to Lossfor Policies Incepting July 1, 2018 through December 31, 2018

The total projected LAE to loss ratio for policies incepting between July 1, 2018 and December 31, 2018, after reflecting the estimated impact of SB 1160 and AB 1244, is 33.2%.

<sup>&</sup>lt;sup>5</sup> The MCCP severity trend reflected in the Amended January 1, 2018 Pure Premium Rate Filing was also 0%.

| Accident       |                 |                |                | Evalu          | ated as o      | f (in mont     | ths):          |                    |                |                |
|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|----------------|----------------|
| Year           | <u>12</u>       | <u>24</u>      | <u>36</u>      | <u>48</u>      | <u>60</u>      | 72             | 84             | <u>96</u>          | <u>108</u>     | 120            |
| 1993           |                 |                |                |                |                |                |                |                    |                | 2,038          |
| 1994           |                 |                |                |                |                |                |                | o . <del>-</del> . | 2,011          | 2,042          |
| 1995<br>1996   |                 |                |                |                |                |                | 2,424          | 2,154              | 2,209          | 2,255          |
| 1990           |                 |                |                |                |                | 2,821          | 2,424<br>2,979 | 2,522<br>3,117     | 2,596<br>3,241 | 2,678<br>3,353 |
| 1998           |                 |                |                |                | 2,948          | 3,221          | 3,445          | 3,672              | 3,833          | 3,950          |
| 1999           |                 |                |                | 2,754          | 3,143          | 3,475          | 3,760          | 3,997              | 4,165          | 4,207          |
| 2000           |                 |                | 2,486          | 3,174          | 3,714          | 4,163          | 4,519          | 4,765              | 4,873          | 5,020          |
| 2001           | 600             | 1,716          | 2,892          | 3,841          | 4,531          | 5,071          | 5,498          | 5,725              | 5,943          | 6,111          |
| 2002<br>2003   | 683<br>629      | 1,886<br>2,075 | 3,270<br>3,524 | 4,297<br>4,628 | 5,061<br>5,403 | 5,615<br>5,943 | 5,970<br>6,315 | 6,241<br>6,603     | 6,442<br>6,823 | 6,606<br>7,017 |
| 2003           | 539             | 1,913          | 3,283          | 4,376          | 5,055          | 5,567          | 5,946          | 6,224              | 6,438          | 6,635          |
| 2005           | 502             | 1,744          | 3,008          | 3,974          | 4,679          | 5,200          | 5,589          | 5,893              | 6,157          | 6,371          |
| 2006           | 524             | 1,842          | 3,119          | 4,111          | 4,857          | 5,422          | 5,851          | 6,174              | 6,455          | 6,673          |
| 2007           | 565             | 1,964          | 3,309          | 4,402          | 5,224          | 5,857          | 6,374          | 6,747              | 7,041          | 7,255          |
| 2008           | 609             | 2,110          | 3,612          | 4,867          | 5,797          | 6,513          | 7,049          | 7,458              | 7,741          | 7,956          |
| 2009<br>2010   | 668<br>732      | 2,382<br>2,526 | 4,084<br>4,239 | 5,457<br>5,614 | 6,502<br>6,631 | 7,283<br>7,393 | 7,870<br>7,927 | 8,279<br>8,300     | 8,574          |                |
| 2010           | 747             | 2,520          | 4,204          | 5,589          | 6,631          | 7,325          | 7,830          | 0,000              |                |                |
| 2012           | 752             | 2,592          | 4,403          | 5,830          | 6,790          | 7,471          | ,              |                    |                |                |
| 2013           | 802             | 2,846          | 4,684          | 5,985          | 6,895          |                |                |                    |                |                |
| 2014           | 903             | 3,072          | 4,833          | 6,116          |                |                |                |                    |                |                |
| 2015           | 994             | 3,137          | 4,929          |                |                |                |                |                    |                |                |
| 2016<br>2017   | 982<br>1,059    | 3,249          |                |                |                |                |                |                    |                |                |
| 2011           | 1,000           |                |                |                |                |                |                |                    |                |                |
| Accident       | 10              | 0.1            |                | 10             | Annual C       | Ŭ              | 0.4            |                    | 400            | 100            |
| Year           | <u>12</u>       | <u>24</u>      | <u>36</u>      | <u>48</u>      | <u>60</u>      | <u>72</u>      | <u>84</u>      | <u>96</u>          | <u>108</u>     | <u>120</u>     |
| 1994           |                 |                |                |                |                |                |                |                    | 0.00/          | 0.2%           |
| 1995<br>1996   |                 |                |                |                |                |                |                | 17.1%              | 9.8%<br>17.5%  | 10.5%<br>18.8% |
| 1990           |                 |                |                |                |                |                | 22.9%          | 23.6%              | 24.8%          | 25.2%          |
| 1998           |                 |                |                |                |                | 14.2%          | 15.6%          | 17.8%              | 18.3%          | 17.8%          |
| 1999           |                 |                |                |                | 6.6%           | 7.9%           | 9.1%           | 8.8%               | 8.6%           | 6.5%           |
| 2000           |                 |                |                | 15.2%          | 18.2%          | 19.8%          | 20.2%          | 19.2%              | 17.0%          | 19.3%          |
| 2001           |                 | 0.00/          | 16.3%          | 21.0%          | 22.0%          | 21.8%          | 21.7%          | 20.2%              | 22.0%          | 21.7%          |
| 2002           | 7 00/           | 9.9%           | 13.1%          | 11.9%          | 11.7%          | 10.7%          | 8.6%           | 9.0%               | 8.4%           | 8.1%           |
| 2003<br>2004   | -7.9%<br>-14.3% | 10.0%<br>-7.8% | 7.8%<br>-6.8%  | 7.7%<br>-5.5%  | 6.8%<br>-6.4%  | 5.8%<br>-6.3%  | 5.8%<br>-5.8%  | 5.8%<br>-5.8%      | 5.9%<br>-5.6%  | 6.2%<br>-5.5%  |
| 2005           | -6.9%           | -8.8%          | -8.4%          | -9.2%          | -7.4%          | -6.6%          | -6.0%          | -5.3%              | -4.4%          | -4.0%          |
| 2006           | 4.4%            | 5.6%           | 3.7%           | 3.5%           | 3.8%           | 4.3%           | 4.7%           | 4.8%               | 4.9%           | 4.7%           |
| 2007           | 8.0%            | 6.6%           | 6.1%           | 7.1%           | 7.6%           | 8.0%           | 8.9%           | 9.3%               | 9.1%           | 8.7%           |
| 2008           | 7.7%            | 7.4%           | 9.1%           | 10.6%          | 11.0%          | 11.2%          | 10.6%          | 10.5%              | 9.9%           | 9.7%           |
| 2009           | 9.8%            | 12.9%          | 13.1%          | 12.1%          | 12.2%          | 11.8%          | 11.6%          | 11.0%              | 10.8%          |                |
| 2010<br>2011   | 9.5%<br>2.1%    | 6.0%<br>-0.1%  | 3.8%<br>-0.8%  | 2.9%<br>-0.4%  | 2.0%<br>0.0%   | 1.5%<br>-0.9%  | 0.7%<br>-1.2%  | 0.3%               |                |                |
| 2012           | 0.7%            | 2.7%           | 4.7%           | 4.3%           | 2.4%           | 2.0%           | 1.270          |                    |                |                |
| 2013           | 6.6%            | 9.8%           | 6.4%           | 2.7%           | 1.5%           |                |                |                    |                |                |
| 2014           | 12.6%           | 8.0%           | 3.2%           | 2.2%           |                |                |                |                    |                |                |
| 2015           | 10.0%           | 2.1%           | 2.0%           |                |                |                |                |                    |                |                |
| 2016<br>2017   | -1.2%<br>7.8%   | 3.6%           |                |                |                |                |                |                    |                |                |
|                |                 |                |                |                |                |                |                |                    |                |                |
| Annual Ti      |                 |                |                |                |                |                |                |                    |                |                |
| All-Year       | 4.4%            | 4.4%           | 4.1%           | 4.6%           | 5.3%           | 6.1%           | 7.2%           | 8.5%               | 9.5%           | 10.2%          |
| R <sup>2</sup> | 0.760           | 0.895          | 0.882          | 0.852          | 0.849          | 0.856          | 0.860          | 0.872              | 0.888          | 0.902          |
| 13-Year        | 6.5%            | 5.5%           | 4.1%           | 3.6%           | 3.6%           | 4.2%           | 5.2%           | 6.0%               | 7.0%           | 8.3%           |
| $R^2$          | 0.984           | 0.957          | 0.848          | 0.795          | 0.804          | 0.814          | 0.814          | 0.842              | 0.851          | 0.841          |
|                |                 |                |                |                |                |                |                |                    |                |                |
| 5-Year         | 6.6%            | 5.6%           | 4.2%           | 2.4%           | 1.4%           | 2.8%           | 5.4%           | 8.3%               | 8.8%           | 5.1%           |
| R <sup>2</sup> | 0.890           | 0.927          | 0.964          | 0.929          | 0.948          | 0.626          | 0.770          | 0.949              | 0.985          | 0.772          |
|                |                 |                |                |                |                |                |                |                    |                |                |

# Average Paid ALAE<sup>11</sup> per Reported Indemnity Claim - Private Insurers As of December 31, 2017

<sup>[1]</sup> All paid ALAE exclude the paid cost of medical cost containment programs.
 <sup>[2]</sup> Trend is based on exponential distribution.
 Source: WCIRB accident year experience calls.

# Estimated Ultimate ALAE Per Indemnity Claim - Statewide

| Acc.<br>Year<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005 | Paid ALAE <sup>[1]</sup><br>@12/31/17<br>(in \$000)<br>(1)<br>449,025<br>348,747<br>254,237<br>238,632<br>265,866<br>311,292<br>396,598<br>574,058<br>627,130<br>776,621<br>977,756<br>1,037,522<br>1,044,289<br>878,970<br>778,810 | Paid ALAE<br>Cumulative<br>Development<br><u>Factors<sup>[2]</sup></u><br>(2)<br>1.046<br>1.049<br>1.051<br>1.056<br>1.060<br>1.067<br>1.073<br>1.080<br>1.089<br>1.097<br>1.107<br>1.107<br>1.117<br>1.128<br>1.139<br>1.152 | Estimated<br>Ult. ALAE<br>(in \$000)<br>(3)=(1)x(2)<br>469,662<br>365,744<br>267,299<br>251,946<br>281,905<br>332,086<br>425,441<br>620,053<br>682,934<br>852,294<br>1,082,387<br>1,158,926<br>1,177,513<br>1,000,872<br>897,540 | Indemnity<br>Claim Counts<br>@12/31/17<br>(4)<br>249,750<br>198,433<br>156,142<br>143,729<br>135,172<br>133,140<br>137,296<br>147,467<br>148,649<br>161,971<br>185,669<br>194,693<br>184,197<br>158,914<br>139,523 | Cumulative<br>Count<br>Development<br><u>Factors<sup>[3]</sup></u> (5)<br>1.000<br>1.000<br>1.000<br>1.000<br>1.001<br>1.001<br>1.001<br>1.001<br>1.002<br>1.002<br>1.002<br>1.002<br>1.002<br>1.002 | Estimated<br>Ultimate<br>Ind. Counts<br>(6)=(4)x(5)<br>249,784<br>198,470<br>156,168<br>143,767<br>135,254<br>133,250<br>137,442<br>147,664<br>148,882<br>162,220<br>185,955<br>195,039<br>184,525<br>159,181<br>139,736 | Estimated<br>Ult. ALAE<br>Per Indemnity<br><u>Claim</u><br>(7)=(3)/(6)×1000<br>1,880<br>1,843<br>1,712<br>1,752<br>2,084<br>2,492<br>3,095<br>4,199<br>4,587<br>5,254<br>5,821<br>5,942<br>6,381<br>6,288<br>6,423 | Annual<br><u>Change</u><br><br>-2.0%<br>-7.1%<br>2.4%<br>18.9%<br>19.6%<br>24.2%<br>35.7%<br>9.2%<br>14.5%<br>10.8%<br>2.1%<br>7.4%<br>-1.5%<br>2.2% |                      |
|--|---|---|--|--|--|--|--|--|----------------------|
| 2007<br>2008   | 864,456<br>898,722  | 1.194<br>1.222  | 1,032,074<br>1,097,790   | 130,207<br>122,921   | 1.001<br>1.002   | 130,389<br>123,118   | 7,915<br>8,917   | 10.9%<br>12.6%   |                      |
| 2009<br>2010<br>2011   | 917,246<br>941,663<br>914,372   | 1.257<br>1.303<br>1.367   | 1,152,805<br>1,227,125<br>1,249,852  | 113,611<br>118,241<br>120,311  | 1.002<br>1.003<br>1.004  | 113,842<br>118,550<br>120,779  | 10,126<br>10,351<br>10,248   | 13.6%<br>2.2%<br>0.0%  |                      |
| 2011<br>2012<br>2013   | 925,831<br>901,149  | 1.465<br>1.619  | 1,356,441<br>1,458,790   | 127,215<br>134,824   | 1.004<br>1.006<br>1.009  | 120,779<br>127,951<br>136,079  | 10,348<br>10,601<br>10,720   | 0.0%<br>2.4%<br>1.1%   |                      |
| 2014<br>2015<br>2016<br>2017   | 822,380<br>679,104<br>445,600   | 1.878<br>2.412<br>3.924   | 1,544,412<br>1,637,964<br>1,748,593  | 139,489<br>142,902<br>141,505<br>115,674   | 1.015<br>1.027<br>1.058<br>1.228   | 141,593<br>146,771<br>149,774  | 10,907<br>11,160<br>11,675   | 1.7%<br>2.3%<br>4.6%   |                      |
| 2017   | 118,024   | 16.478  | 1,944,861  | 115,674<br>E   | 1.328<br>Estimated Annua   | 153,616<br>I Exponential   | 12,661<br>Trend Based on:  | 8.4%   | <u>R<sup>2</sup></u> |
|  |   |   |  |  |  |  | 2005 to 2017   | 4.9%   | 0.858                |

2012 to 2017 3.4% 0.876

Notes:

 $\ensuremath{^{[1]}}$  All paid ALAE exclude the paid cost of medical cost containment programs.

<sup>[2]</sup> Based on private insurers latest year paid ALAE age-to-age development from Exhibit 4.2.

<sup>[3]</sup> See Exhibit 4.1.

# Estimated Ultimate ALAE Per Indemnity Claim - Private Insurers

|      |                          |                        | Estimated         |                  | Cumulative             |                  | Estimated        |               |
|------|--------------------------|------------------------|-------------------|------------------|------------------------|------------------|------------------|---------------|
|      | Paid ALAE <sup>[1]</sup> | Cumulative             | Ultimate          | Indemnity        | Count                  | Estimated        | Ultimate ALAE    |               |
| Acc. | @12/31/17                | Development            | ALAE              | Claim Counts     | Development            | Ultimate         | Per Indemnity    | Annual        |
| Year | <u>(in \$000)</u>        | Factors <sup>[2]</sup> | <u>(in \$000)</u> | <u>@12/31/17</u> | Factors <sup>[3]</sup> | Ind. Counts      | <u>Claim</u>     | <u>Change</u> |
|      | (1)                      | (2)                    | (3)=(1)x(2)       | (4)              | (5)                    | (6)=(4)x(5)      | (7)=(3)/(6)x1000 |               |
| 1991 | 414,465                  | 1.046                  | 433,514           | 175,290          | 1.000                  | 175,319          | 2,473            |               |
| 1992 | 318,559                  | 1.049                  | 334,085           | 141,916          | 1.000                  | 141,950          | 2,354            | -4.8%         |
| 1993 | 235,980                  | 1.051                  | 248,104           | 113,531          | 1.000                  | 113,553          | 2,185            | -7.2%         |
| 1994 | 218,964                  | 1.056                  | 231,180           | 105,415          | 1.000                  | 105,455          | 2,192            | 0.3%          |
| 1995 | 240,354                  | 1.060                  | 254,854           | 101,326          | 1.001                  | 101,418          | 2,513            | 14.6%         |
| 1996 | 286,461                  | 1.067                  | 305,597           | 103,179          | 1.001                  | 103,304          | 2,958            | 17.7%         |
| 1997 | 363,110                  | 1.073                  | 389,518           | 104,739          | 1.001                  | 104,893          | 3,713            | 25.5%         |
| 1998 | 500,735                  | 1.080                  | 540,855           | 112,441          | 1.002                  | 112,639          | 4,802            | 29.3%         |
| 1999 | 550,819                  | 1.089                  | 599,832           | 116,353          | 1.002                  | 116,591          | 5,145            | 7.1%          |
| 2000 | 654,033                  | 1.097                  | 717,762           | 118,405          | 1.002                  | 118,658          | 6,049            | 17.6%         |
| 2001 | 775,794                  | 1.107                  | 858,813           | 113,935          | 1.002                  | 114,185          | 7,521            | 24.3%         |
| 2002 | 815,231                  | 1.117                  | 910,624           | 112,956          | 1.003                  | 113,249          | 8,041            | 6.9%          |
| 2003 | 824,542                  | 1.128                  | 929,732           | 108,299          | 1.003                  | 108,595          | 8,561            | 6.5%          |
| 2004 | 707,176                  | 1.139                  | 805,253           | 99,380           | 1.003                  | 99,685           | 8,078            | -5.6%         |
| 2005 | 660,931                  | 1.152                  | 761,691           | 97,230           | 1.003                  | 97,561           | 7,807            | -3.4%         |
| 2006 | 725,731                  | 1.171                  | 850,141           | 104,213          | 1.004                  | 104,613          | 8,126            | 4.1%          |
| 2007 | 795,730                  | 1.194                  | 950,022           | 107,276          | 1.004                  | 107,733          | 8,818            | 8.5%          |
| 2008 | 839,242                  | 1.222                  | 1,025,134         | 105,493          | 1.005                  | 106,010          | 9,670            | 9.7%          |
| 2009 | 863,658                  | 1.257                  | 1,085,455         | 100,727          | 1.006                  | 101,339          | 10,711           | 10.8%         |
| 2010 | 898,554                  | 1.303                  | 1,170,948         | 108,471          | 1.007                  | 109,262          | 10,717           | 0.1%          |
| 2011 | 880,183                  | 1.367                  | 1,203,118         | 112,573          | 1.009                  | 113,590          | 10,592           | -1.2%         |
| 2012 | 896,663                  | 1.465                  | 1,313,706         | 120,714          | 1.012                  | 122,118          | 10,758           | 1.6%          |
| 2013 | 868,983                  | 1.619                  | 1,406,720         | 126,851          | 1.016                  | 128,873          | 10,916           | 1.5%          |
| 2014 | 785,941                  | 1.878                  | 1,475,980         | 128,916          | 1.023                  | 131,901          | 11,190           | 2.5%          |
| 2015 | 651,920                  | 2.412                  | 1,572,396         | 132,288          | 1.038                  | 137,316          | 11,451           | 2.3%          |
| 2016 | 431,104                  | 3.924                  | 1,691,709         | 132,691          | 1.075                  | 142,610          | 11,862           | 3.6%          |
| 2017 | 114,679                  | 16.478                 | 1,889,736         | 108,307          | 1.364                  | 147,742          | 12,791           | 7.8%          |
|      |                          |                        |                   | -                |                        | . Europeantiel ' | Trand Basad any  |               |

| Estimated Annual Exponential Trend Based on: |      | <u>R</u> <sup>2</sup> |
|--|------|-----------------------|
| 2005 to 2017                                 | 3.6% | 0.876                 |
| 2012 to 2017                                 | 3.3% | 0.917                 |
| Average:                                     | 3.4% |                       |

Notes:

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

 $\ensuremath{^{[2]}}$  Based on the latest year paid ALAE age-to-age development from Exhibit 4.2

<sup>[3]</sup> Based on analogous Exhibit 4.1, applicable to private insurers only.

| Exhibit 3 |
|-----------|
|-----------|

| Acc.     |       |       |       |         |             |             |             |             |             |                |             |             |       |
|----------|-------|-------|-------|---------|-------------|-------------|-------------|-------------|-------------|----------------|-------------|-------------|-------|
| Year     | 2005  | 2006  | 2007  | 2008    | 2009        | <u>2010</u> | <u>2011</u> | <u>2012</u> | <u>2013</u> | 2014           | <u>2015</u> | <u>2016</u> | 2017  |
| 1989     | 917   | 1,055 | 923   | 1,167   | 1,027       | 1,221       | 1,236       | 1,525       | 1,530       | 1,368          | 1,669       | 1,811       | 1,518 |
| 1990     | 1,449 | 1,198 | 1,086 | 1,406   | 1,138       | 1,341       | 1,386       | 1,584       | 1,777       | 1,496          | 1,551       | 1,939       | 1,696 |
| 1991     | 1,323 | 1,120 | 1,203 | 1,481   | 1,384       | 1,577       | 1,308       | 1,678       | 1,541       | 1,714          | 1,443       | 2,158       | 2,071 |
| 1992     | 1,740 | 1,485 | 1,507 | 1,647   | 1,477       | 1,718       | 1,434       | 1,579       | 1,633       | 1,501          | 1,927       | 1,643       | 1,836 |
| 1993     | 1,532 | 1,630 | 1,677 | 1,945   | 1,450       | 1,732       | 1,788       | 1,932       | 1,934       | 1,802          | 2,097       | 2,287       | 2,095 |
| 1994     | 1,750 | 1,784 | 1,748 | 1,864   | 1,389       | 1,514       | 1,774       | 1,830       | 1,812       | 1,804          | 1,775       | 1,909       | 1,646 |
| 1995     | 1,638 | 1,649 | 1,771 | 1,866   | 1,682       | 2,022       | 1,602       | 1,996       | 2,144       | 1,998          | 2,184       | 2,363       | 2,018 |
| 1996     | 2,010 | 2,006 | 2,003 | 2,040   | 1,938       | 1,755       | 1,868       | 2,035       | 2,244       | 2,008          | 2,177       | 2,199       | 1,977 |
| 1997     | 2,276 | 2,503 | 2,463 | 2,343   | 2,268       | 2,196       | 2,281       | 2,489       | 2,350       | 1,951          | 2,311       | 2,198       | 2,417 |
| 1998     | 2,835 | 2,604 | 2,405 | 2,426   | 2,374       | 2,398       | 2,338       | 2,401       | 2,362       | 2,306          | 2,327       | 2,535       | 2,561 |
| 1999     | 2,415 | 2,752 | 2,526 | 2,468   | 2,806       | 2,659       | 2,600       | 2,662       | 2,452       | 2,130          | 2,323       | 2,504       | 2,260 |
| 2000     | 2,479 | 2,861 | 2,658 | 2,699   | 2,806       | 2,773       | 2,781       | 2,841       | 2,670       | 2,530          | 2,807       | 2,759       | 2,549 |
| 2001     | 2,332 | 2,618 | 2,918 | 2,644   | 2,756       | 2,707       | 2,730       | 2,841       | 3,113       | 3,290          | 3,051       | 2,880       | 2,658 |
| 2002     | 2,522 | 2,746 | 3,081 | 2,881   | 2,976       | 2,949       | 3,029       | 2,959       | 3,285       | 3,428          | 3,238       | 3,267       | 3,163 |
| 2003     | 2,548 | 2,818 | 3,077 | 3,014   | 3,007       | 3,226       | 3,208       | 3,518       | 3,604       | 3,687          | 3,679       | 3,360       | 3,069 |
| 2004     | 1,816 | 2,562 | 2,919 | 3,062   | 3,170       | 3,256       | 3,156       | 3,084       | 3,462       | 3,556          | 3,519       | 3,235       | 3,079 |
| 2005     | 498   | 1,692 | 2,493 | 2,877   | 3,084       | 3,227       | 3,286       | 3,267       | 3,580       | 3,568          | 3,686       | 3,802       | 3,509 |
| 2006     |       | 529   | 1,815 | 2,675   | 2,969       | 3,220       | 3,478       | 3,468       | 3,489       | 3,511          | 3,563       | 3,250       | 3,213 |
| 2007     |       |       | 572   | 1,987   | 2,752       | 3,155       | 3,398       | 3,572       | 3,756       | 3,671          | 3,786       | 3,511       | 3,482 |
| 2008     |       |       |       | 620     | 2,095       | 2,976       | 3,480       | 3,559       | 3,716       | 3,840          | 3,959       | 3,715       | 3,730 |
| 2009     |       |       |       |         | 674         | 2,380       | 3,307       | 3,620       | 3,797       | 3,964          | 4,052       | 3,892       | 3,860 |
| 2010     |       |       |       |         |             | 746         | 2,542       | 3,411       | 3,684       | 3,888          | 4,139       | 4,066       | 4,033 |
| 2011     |       |       |       |         |             |             | 766         | 2,569       | 3,342       | 3,825          | 4,121       | 3,988       | 4,128 |
| 2012     |       |       |       |         |             |             |             | 773         | 2,593       | 3,610          | 4,033       | 4,009       | 4,178 |
| 2013     |       |       |       |         |             |             |             |             | 791         | 2,844          | 3,690       | 3,836       | 4,098 |
| 2014     |       |       |       |         |             |             |             |             |             | 909            | 3,031       | 3,650       | 3,999 |
| 2015     |       |       |       |         |             |             |             |             |             |                | 995         | 3,035       | 3,832 |
| 2016     |       |       |       |         |             |             |             |             |             |                |             | 982         | 3,228 |
| 2017     |       |       |       |         |             |             |             |             |             |                |             |             | 1,059 |
| ALAE per |       |       |       |         |             |             |             |             |             |                |             |             |       |
| Claim    | 1,852 | 1,915 | 1,979 | 2,047   | 2,160       | 2,318       | 2,480       | 2,563       | 2,639       | 2,797          | 2,974       | 2,911       | 3,006 |
| Annual   |       |       |       |         |             |             |             |             |             |                |             |             |       |
| Change   | -6.1% | 3.4%  | 3.4%  | 3.4%    | 5.5%        | 7.3%        | 7.0%        | 3.4%        | 3.0%        | 6.0%           | 6.3%        | -2.1%       | 3.3%  |
|          |       |       |       | Estimat | ed Annual E | Exponential | Trend Base  | ed on Payme | ent Year:   | R <sup>2</sup> |             |             |       |
|          |       |       |       |         |             |             | 2           | 006-2017    | 4.6%        | 0.992          |             |             |       |
|          |       |       |       |         |             |             | 2           | 012-2017    | 3.3%        | 0.886          |             |             |       |
|          |       |       |       |         |             |             | 2           | 012-2017    | 0.070       | 0.000          |             |             |       |

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

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

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

Average:

4.0%

Source: WCIRB quarterly calls for experience

#### Reported Indemnity Claim Count Development - Statewide

| ccident   |  |  |  |   | Ade-1  | to-Age De   | velopmen   | it (in mon   | (ns):   |   |  |   |                                    |                                  |
|---|--|--|--|---|--|---|--|--|---|---|--|---|------------------------------------|----------------------------------|
| Year  | 12-24  | 24-36  | 36-48  | 48-60   | <u>60-72</u>   | <u>72-84</u>  | <u>84-96</u>   |  | <u>108-120</u>  | <u>120-132</u>  | <u>132-144</u>                                     | 144-156                                   | <u>156-168</u>                     | <u>168-180</u>                   |
| 1989  |  |  |  |   |  |   |  |  |   |   |  |   |                                    | 1.001                            |
| 1990  |  |  |  |   |  |   |  |  |   |   |  |   | 1.001                              | 1.001                            |
| 1991  |  |  |  |   |  |   |  |  |   |   |  | 1.001                                     | 1.001                              | 1.000                            |
| 1992  |  |  |  |   |  |   |  |  |   |   | 1.001  | 1.001                                     | 1.001                              | 1.001                            |
| 1993  |  |  |  |   |  |   |  |  |   | 1.001   | 1.001  | 1.001                                     | 1.001                              | 1.000                            |
| 1994  |  |  |  |   |  |   |  |  | 1.001   | 1.001   | 1.001  | 1.001                                     | 1.000                              | 1.000                            |
| 1995  |  |  |  |   |  |   |  | 1.002  | 1.001   | 1.001   | 1.001  | 1.000                                     | 1.001                              | 1.000                            |
| 1996  |  |  |  |   |  |   | 1.002  | 1.002  | 1.001   | 1.001   | 1.001  | 1.001                                     | 1.000                              | 1.000                            |
| 1997  |  |  |  |   |  | 1.002   | 1.002  | 1.002  | 1.001   | 1.001   | 1.000  | 1.000                                     | 1.000                              | 1.000                            |
| 1998  |  |  |  |   | 1.004  | 1.002   | 1.002  | 1.002  | 1.001   | 1.000   | 1.000  | 1.000                                     | 1.000                              | 1.000                            |
| 1999  |  |  |  | 1.003   | 1.005  | 1.003   | 1.002  | 1.000  | 1.000   |   | 1.000  | 1.000                                     | 1.000                              | 1.000                            |
| 2000  |  |  | 0.997  | 1.003   | 1.005  | 1.002   | 1.002  | 1.000  |   | 1.000<br>1.000  | 1.001  | 1.000                                     |                                    | 1.000                            |
|   |  | 1 024  |  |   |  |   |  |  | 1.000   |   |  |   | 1.000                              |                                  |
| 2001  | 1 050  | 1.024  | 1.019  | 1.007   | 1.004  | 1.000   | 0.999  | 1.000  | 1.000   | 1.000   | 1.000  | 1.000                                     | 1.000                              | 1.000                            |
| 2002  | 1.252  | 1.031  | 1.010  | 1.006   | 1.001  | 1.000   | 1.000  | 1.000  | 1.000   | 1.000   | 1.000  | 1.000                                     | 1.000                              | 1.000                            |
| 2003  | 1.202  | 1.018  | 1.010  | 1.001   | 0.999  | 0.998   | 0.999  | 0.999  | 1.000   | 0.999   | 1.000  | 1.000                                     | 1.000                              | 1.000                            |
| 2004  | 1.149  | 1.021  | 1.003  | 1.001   | 0.999  | 1.000   | 0.999  | 0.999  | 0.999   | 1.000   | 1.000  | 1.000                                     | 1.000                              |                                  |
| 2005  | 1.162  | 1.010  | 1.003  | 1.000   | 1.001  | 1.001   | 1.000  | 1.000  | 1.000   | 1.000   | 1.000  | 1.000                                     |                                    |                                  |
| 2006  | 1.126  | 1.011  | 1.005  | 1.002   | 1.001  | 1.000   | 1.001  | 1.001  | 1.001   | 1.000   | 1.000  |   |                                    |                                  |
| 2007  | 1.122  | 1.014  | 1.006  | 1.004   | 1.002  | 1.000   | 1.001  | 1.001  | 1.000   | 1.000   |  |   |                                    |                                  |
| 2008  | 1.146  | 1.022  | 1.011  | 1.005   | 1.003  | 1.001   | 1.001  | 1.001  | 1.000   |   |  |   |                                    |                                  |
| 2009  | 1.192  | 1.029  | 1.011  | 1.006   | 1.003  | 1.002   | 1.001  | 1.001  |   |   |  |   |                                    |                                  |
| 2010  | 1.216  | 1.030  | 1.011  | 1.006   | 1.004  | 1.002   | 1.001  |  |   |   |  |   |                                    |                                  |
| 2011  | 1.233  | 1.032  | 1.013  | 1.007   | 1.003  | 1.002   |  |  |   |   |  |   |                                    |                                  |
| 2012  | 1.243  | 1.035  | 1.013  | 1.006   | 1.004  |   |  |  |   |   |  |   |                                    |                                  |
| 2013  | 1.248  | 1.031  | 1.012  | 1.006   |  |   |  |  |   |   |  |   |                                    |                                  |
| 2014  | 1.240  | 1.032  | 1.012  |   |  |   |  |  |   |   |  |   |                                    |                                  |
| 2015<br>2016  | 1.246<br>1.255   | 1.031  |  |   |  |   |  |  |   |   |  |   |                                    |                                  |
|   |  |  |  |   |  |   |  |  |   |   |  |   |                                    |                                  |
|   | I. <u>Age-to-Ag</u><br>1.255<br>II. <u>Age-to-UI</u><br>1.328  | 1.031<br>timate  | 1.012  | 1.006   | 1.004  | 1.002   | 1.001  | 1.001  | 1.000   | 1.000   | 1.000  | 1.000                                     | 1.000                              | 1.000                            |
|   | 1.255  | 1.031  |  | 1.006<br>1.015  | 1.004<br>1.009   | 1.002<br>1.006  | 1.001<br>1.004   | 1.001<br>1.003   | 1.000<br>1.002  | 1.000<br>1.002  | 1.000<br>1.001                                     | 1.000<br>1.001                            | 1.000<br>1.002                     | 1.000<br>1.002                   |
|   | 1.255<br>II. <u>Age-to-UI</u><br>1.328   | 1.031<br>timate  | 1.012  |   | 1.009  | 1.006   |  | 1.003  | 1.002   |   |  |   |                                    |                                  |
| ccident<br>Year   | 1.255<br>II. <u>Age-to-UI</u><br>1.328   | 1.031<br><u>timate</u><br>1.058  | 1.012  | 1.015   | 1.009  | 1.006<br>Age-to-Ag<br>240-252   | 1.004  | 1.003<br>oment (in   | 1.002<br>months):   |   | 1.001  | 1.001                                     | 1.002                              |                                  |
| cident  | 1.255<br>II. <u>Age-to-UI</u><br>1.328   | 1.031<br><u>timate</u><br>1.058  | 1.012  | 1.015   | 1.009  | 1.006<br>Age-to-Ag  | 1.004<br>ge Develoj  | 1.003<br>oment (in   | 1.002<br>months):   | 1.002   | 1.001  | 1.001                                     | 1.002                              | 1.002                            |
| cident<br>Year  | 1.255<br>II. <u>Age-to-UI</u><br>1.328<br><u>180-192</u>   | 1.031<br>timate<br>1.058   | 1.012<br>1.027<br><u>204-216</u>   | 1.015<br>216-228  | 1.009<br>  | 1.006<br>Age-to-Ag<br>240-252   | 1.004<br>ge Develoj<br><u>252-264</u>  | 1.003<br>oment (in<br><u>264-276</u>   | 1.002<br>months):<br>276-288  | 1.002<br><u>288-300</u>                                     | 1.001<br><u>300-312</u>                            | 1.001<br><u>312-324</u>                   | 1.002<br><u>324-336</u>            | 1.002<br><u>336-348</u>          |
| cident<br>Year<br>1989  | 1.255<br>II. <u>Age-to-UI</u><br>1.328<br><u>180-192</u><br>1.001  | 1.031<br><u>timate</u><br>1.058<br><u>192-204</u><br>1.001   | 1.012<br>1.027<br><u>204-216</u><br>1.002  | 1.015<br>216-228<br>0.997   | 1.009<br><u>228-240</u><br>1.000   | 1.006<br>Age-to-Ag<br>240-252<br>1.000  | 1.004<br>ge Develoj<br><u>252-264</u><br>1.000   | 1.003<br>oment (in<br><u>264-276</u><br>1.000  | 1.002<br>months):<br><u>276-288</u><br>1.000  | 1.002<br><u>288-300</u><br>1.000                            | 1.001<br><u>300-312</u><br>1.000                   | 1.001<br><u>312-324</u><br>1.000          | 1.002<br><u>324-336</u><br>1.000   | 1.002<br><u>336-348</u>          |
| ccident<br>Year<br>1989<br>1990   | 1.255<br>II. <u>Age-to-UI</u><br>1.328<br><u>180-192</u><br>1.001<br>1.000   | 1.031<br>timate<br>1.058<br><u>192-204</u><br>1.001<br>1.002   | 1.012<br>1.027<br>204-216<br>1.002<br>1.000  | 1.015<br>216-228<br>0.997<br>1.000  | 1.009<br>228-240<br>1.000<br>1.000   | 1.006<br>Age-to-Ag<br>240-252<br>1.000<br>1.000   | 1.004<br>ge Develop<br><u>252-264</u><br>1.000<br>1.000  | 1.003<br>oment (in<br><u>264-276</u><br>1.000<br>1.000                                     | 1.002<br>months):<br><u>276-288</u><br>1.000<br>1.000                                   | 1.002<br><u>288-300</u><br>1.000<br>1.000                   | 1.001<br><u>300-312</u><br>1.000<br>1.000          | 1.001<br><u>312-324</u><br>1.000<br>1.000 | 1.002<br><u>324-336</u><br>1.000   | 1.002<br><u>336-348</u>          |
| ccident<br>Year<br>1989<br>1990<br>1991   | 1.255           II. Age-to-UI           1.328           180-192           1.001           1.000           1.004  | 1.031<br>timate<br>1.058<br>1.058<br>1.001<br>1.001<br>1.002<br>1.000  | 1.012<br>1.027<br>204-216<br>1.002<br>1.000<br>1.000   | 1.015<br><u>216-228</u><br>0.997<br>1.000<br>1.000  | 1.009<br>228-240<br>1.000<br>1.000<br>1.000  | 1.006<br>Age-to-Ag<br>240-252<br>1.000<br>1.000<br>1.000  | 1.004<br>ge Develog<br><u>252-264</u><br>1.000<br>1.000<br>1.000   | 1.003<br><u>oment (in</u><br><u>264-276</u><br>1.000<br>1.000<br>1.000                     | 1.002<br>months):<br><u>276-288</u><br>1.000<br>1.000<br>1.000                          | 1.002<br><u>288-300</u><br>1.000<br>1.000<br>1.000          | 1.001<br><u>300-312</u><br>1.000<br>1.000<br>1.000 | 1.001<br><u>312-324</u><br>1.000<br>1.000 | 1.002<br><u>324-336</u><br>1.000   | 1.002<br><u>336-348</u>          |
| ccident<br>Year<br>1989<br>1990<br>1991<br>1992   | 1.255           II. <u>Age-to-UI</u> 1.328 <u>180-192</u> 1.001           1.000           1.004           1.000  | 1.031<br>timate<br>1.058<br>1.058<br>1.004<br>1.001<br>1.002<br>1.000<br>1.000   | 1.012<br>1.027<br>204-216<br>1.002<br>1.000<br>1.000<br>1.000  | 1.015<br><u>216-228</u><br>0.997<br>1.000<br>1.000<br>1.000   | 1.009<br><u>228-240</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000                                       | 1.006<br>Age-to-Ag<br>240-252<br>1.000<br>1.000<br>1.000<br>1.000                                     | 1.004<br>ge Develog<br>252-264<br>1.000<br>1.000<br>1.000<br>1.000   | 1.003<br><u>pment (in</u><br><u>264-276</u><br>1.000<br>1.000<br>1.000<br>1.000            | 1.002<br>months):<br>276-288<br>1.000<br>1.000<br>1.000<br>1.000                        | 1.002<br><u>288-300</u><br>1.000<br>1.000<br>1.000<br>1.000 | 1.001<br><u>300-312</u><br>1.000<br>1.000<br>1.000 | 1.001<br><u>312-324</u><br>1.000<br>1.000 | 1.002<br><u>324-336</u><br>1.000   | 1.002<br><u>336-348</u>          |
| ccident<br>Year<br>1989<br>1990<br>1991<br>1992<br>1993   | 1.255           II. <u>Age-to-UI</u> 1.328           1.328           1.001           1.001           1.004           1.000           1.000   | 1.031<br>timate<br>1.058<br>1.058<br>1.001<br>1.002<br>1.000<br>1.000<br>1.000   | 1.012<br>1.027<br>204-216<br>1.002<br>1.000<br>1.000<br>1.000<br>1.000   | 1.015<br><u>216-228</u><br>0.997<br>1.000<br>1.000<br>1.000<br>1.000  | 1.009<br><u>228-240</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000                                       | 1.006<br>Age-to-Ag<br>240-252<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000                            | 1.004<br><u>ge Develop</u><br><u>252-264</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000                  | 1.003<br><u>264-276</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000              | 1.002<br><u>months):</u><br><u>276-288</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>288-300</u><br>1.000<br>1.000<br>1.000<br>1.000 | 1.001<br><u>300-312</u><br>1.000<br>1.000<br>1.000 | 1.001<br><u>312-324</u><br>1.000<br>1.000 | 1.002<br><u>324-336</u><br>1.000   | 1.002<br><u>336-348</u>          |
| ccident<br>Year<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994   | 1.255           II. <u>Age-to-UI</u> 1.328           1.328           1.001           1.001           1.004           1.000           1.000           1.000   | 1.031<br>timate<br>1.058<br>1.058<br>1.001<br>1.002<br>1.000<br>1.000<br>1.000<br>1.000  | 1.012<br>1.027<br>204-216<br>1.002<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000  | 1.015<br>216-228<br>0.997<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000  | 1.009<br><u>228-240</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000                              | 1.006<br>Age-to-Ag<br>240-252<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000                   | 1.004<br><u>1.000</u><br><u>1.000</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000                | 1.003<br>pment (in<br><u>264-276</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>months):</u><br><u>276-288</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>288-300</u><br>1.000<br>1.000<br>1.000<br>1.000 | 1.001<br><u>300-312</u><br>1.000<br>1.000<br>1.000 | 1.001<br><u>312-324</u><br>1.000<br>1.000 | 1.002<br><u>324-336</u><br>1.000   | 1.002<br><u>336-348</u>          |
| ccident<br>Year<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996   | 1.255           II.         Age-to-UI           1.328         1.328           1.001         1.001           1.000         1.000           1.000         1.000           1.000         1.000           1.001         1.000           1.000         1.000           1.001         1.000           1.000         1.000           1.001         1.000  | 1.031<br><u>timate</u><br>1.058<br>1.058<br>1.001<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000  | 1.012<br>1.027<br>204-216<br>1.002<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000   | 1.015<br>216-228<br>0.997<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000                                     | 1.009<br><u>228-240</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000            | 1.006<br>Age-to-Ag<br>240-252<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000          | 1.004<br><u>e Develoj</u><br><u>252-264</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.003<br>pment (in<br><u>264-276</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>months):</u><br><u>276-288</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>288-300</u><br>1.000<br>1.000<br>1.000<br>1.000 | 1.001<br><u>300-312</u><br>1.000<br>1.000<br>1.000 | 1.001<br><u>312-324</u><br>1.000<br>1.000 | 1.002<br><u>324-336</u><br>1.000   | 1.002<br><u>336-348</u>          |
| ccident<br>Year<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997   | 1.255           II.         Age-to-UI           1.328         1.328           1.001         1.001           1.000         1.000           1.000         1.000           1.000         1.000           1.001         1.000           1.000         1.000           1.001         1.000           1.000         1.000           1.001         1.000           1.000         1.000  | 1.031<br>timate<br>1.058<br>1.058<br>1.001<br>1.002<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000   | 1.012<br>1.027<br>1.027<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000   | 1.015<br>216-228<br>0.997<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000                            | 1.009<br><u>228-240</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000   | 1.006<br>Age-to-Ag<br>240-252<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.004<br><u>e Develoj</u><br><u>252-264</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.003<br>pment (in<br><u>264-276</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>months):</u><br><u>276-288</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>288-300</u><br>1.000<br>1.000<br>1.000<br>1.000 | 1.001<br><u>300-312</u><br>1.000<br>1.000<br>1.000 | 1.001<br><u>312-324</u><br>1.000<br>1.000 | 1.002<br><u>324-336</u><br>1.000   | 1.002<br><u>336-348</u>          |
| ccident<br>Year<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998                                 | 1.255           II.         Age-to-UI           1.328         1.328           1.001         1.001           1.000         1.000           1.000         1.000           1.000         1.000           1.001         1.000           1.000         1.000           1.001         1.000           1.000         1.000           1.000         1.000           1.000         1.000  | 1.031<br><u>timate</u><br>1.058<br>1.058<br>1.001<br>1.002<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000   | 1.012<br>1.027<br>1.027<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000  | 1.015<br>216-228<br>0.997<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.009<br><u>228-240</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000            | 1.006<br>Age-to-Ag<br>240-252<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.004<br><u>e Develoj</u><br><u>252-264</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.003<br>pment (in<br><u>264-276</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>months):</u><br><u>276-288</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>288-300</u><br>1.000<br>1.000<br>1.000<br>1.000 | 1.001<br><u>300-312</u><br>1.000<br>1.000<br>1.000 | 1.001<br><u>312-324</u><br>1.000<br>1.000 | 1.002<br><u>324-336</u><br>1.000   | 1.002<br><u>336-348</u>          |
| ccident<br>Year<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999                         | 1.255           II.         Age-to-UI           1.328         1.328           1.001         1.000           1.000         1.000           1.000         1.000           1.001         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000  | 1.031<br><u>timate</u><br>1.058<br>1.058<br>1.001<br>1.001<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000  | 1.012<br>1.027<br>1.027<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000   | 1.015<br>216-228<br>0.997<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000                            | 1.009<br><u>228-240</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000   | 1.006<br>Age-to-Ag<br>240-252<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.004<br><u>e Develoj</u><br><u>252-264</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.003<br>pment (in<br><u>264-276</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>months):</u><br><u>276-288</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>288-300</u><br>1.000<br>1.000<br>1.000<br>1.000 | 1.001<br><u>300-312</u><br>1.000<br>1.000<br>1.000 | 1.001<br><u>312-324</u><br>1.000<br>1.000 | 1.002<br><u>324-336</u><br>1.000   | 1.002<br><u>336-348</u>          |
| ccident<br>Year<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000                 | 1.255           II.         Age-to-UI           1.328         1.328           1.001         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000  | 1.031<br><u>timate</u><br>1.058<br>1.058<br>1.001<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000  | 1.012<br>1.027<br>1.027<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000  | 1.015<br>216-228<br>0.997<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.009<br><u>228-240</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000   | 1.006<br>Age-to-Ag<br>240-252<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.004<br><u>e Develoj</u><br><u>252-264</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.003<br>pment (in<br><u>264-276</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>months):</u><br><u>276-288</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>288-300</u><br>1.000<br>1.000<br>1.000<br>1.000 | 1.001<br><u>300-312</u><br>1.000<br>1.000<br>1.000 | 1.001<br><u>312-324</u><br>1.000<br>1.000 | 1.002<br><u>324-336</u><br>1.000   | 1.002<br><u>336-348</u>          |
| ccident<br>Year<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999                         | 1.255           II.         Age-to-UI           1.328         1.328           1.001         1.000           1.000         1.000           1.000         1.000           1.001         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000  | 1.031<br><u>timate</u><br>1.058<br>1.058<br>1.001<br>1.001<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000  | 1.012<br>1.027<br>1.027<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000   | 1.015<br>216-228<br>0.997<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.009<br><u>228-240</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000   | 1.006<br>Age-to-Ag<br>240-252<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.004<br><u>e Develoj</u><br><u>252-264</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.003<br>pment (in<br><u>264-276</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>months):</u><br><u>276-288</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>288-300</u><br>1.000<br>1.000<br>1.000<br>1.000 | 1.001<br><u>300-312</u><br>1.000<br>1.000<br>1.000 | 1.001<br><u>312-324</u><br>1.000<br>1.000 | 1.002<br><u>324-336</u><br>1.000   | 1.002<br><u>336-348</u>          |
| ccident<br>Year<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001         | 1.255           II. <u>Age-to-UI</u> 1.328         1.328           1.001         1.001           1.000         1.004           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000 | 1.031<br><u>timate</u><br>1.058<br>1.058<br><u>1.058</u><br>1.001<br>1.002<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.0000<br>1.0000<br>1. | 1.012<br>1.027<br>1.027<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000   | 1.015<br>216-228<br>0.997<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.009<br><u>228-240</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000   | 1.006<br>Age-to-Ag<br>240-252<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.004<br><u>e Develoj</u><br><u>252-264</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.003<br>pment (in<br><u>264-276</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>months):</u><br><u>276-288</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>288-300</u><br>1.000<br>1.000<br>1.000<br>1.000 | 1.001<br><u>300-312</u><br>1.000<br>1.000<br>1.000 | 1.001<br><u>312-324</u><br>1.000<br>1.000 | 1.002<br><u>324-336</u><br>1.000   | 1.002<br><u>336-348</u>          |
| ccident<br>Year<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002 | 1.255           II. <u>Age-to-UI</u> 1.328         1.328           1.001         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000   | 1.031<br><u>timate</u><br>1.058<br>1.058<br><u>1.000</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000  | 1.012<br>1.027<br>1.027<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000   | 1.015<br>216-228<br>0.997<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.009<br><u>228-240</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000   | 1.006<br>Age-to-Ag<br>240-252<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.004<br><u>e Develoj</u><br><u>252-264</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.003<br>pment (in<br><u>264-276</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>months):</u><br><u>276-288</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br><u>288-300</u><br>1.000<br>1.000<br>1.000<br>1.000 | 1.001<br><u>300-312</u><br>1.000<br>1.000<br>1.000 | 1.001<br><u>312-324</u><br>1.000<br>1.000 | 1.002<br><u>324-336</u><br>1.000   | 1.002<br><u>336-348</u>          |
| ccident<br>Year<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002 | 1.255           II. <u>Age-to-UI</u> 1.328         1.328           1.001         1.001           1.000         1.004           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000           1.000         1.000 | 1.031<br><u>timate</u><br>1.058<br>1.058<br><u>1.000</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000  | 1.012<br>1.027<br>1.027<br>204-216<br>1.002<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.015<br>216-228<br>0.997<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000                   | 1.009<br>228-240<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.006<br>Age-to-Ag<br>240-252<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.004<br><u>e Develoj</u><br><u>252-264</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.003  | 1.002<br><u>months):</u><br><u>276-288</u><br>1.000<br>1.000<br>1.000<br>1.000<br>1.000 | 1.002<br>288-300<br>1.000<br>1.000<br>1.000<br>1.000        | 1.001<br><u>300-312</u><br>1.000<br>1.000<br>1.000 | 1.001<br>312-324<br>1.000<br>1.000        | 1.002<br>324-336<br>1.000<br>1.000 | 1.002<br><u>336-348</u><br>1.000 |

Source: WCIRB quarterly calls for experience

#### Paid Allocated Loss Adjustment Expense Development - Private Insurers As of December 31, 2017

| Assidant                               |                |   |                |                         |                         |                         |                         |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
|--|----------------|---|----------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Accident<br>Year                       | 12-24          | 24-36                                       | 36-48          | 48-60                   | 60-72                   | Age-to-A<br>72-84       | Age Develo<br>84-96     | opment (in<br>96-108    | 108-120                           | 120-132                 | 132-144                 | 144-156                 | 156-168                 | 168-180                 | 180-192                 | 192-204                 |
| 1985                                   | <u></u>        |   | <u></u>        | <u></u>                 | <u></u>                 | <u></u>                 | 1.067                   | 1.003                   | 1.014                             | 1.013                   | 1.010                   | 1.009                   | 1.008                   | 1.004                   | 1.011                   | 1.003                   |
| 1986                                   |                |   |                |                         |                         | 1.068                   | 1.038                   | 1.001                   | 1.018                             | 1.014                   | 1.010                   | 1.008                   | 1.009                   | 1.010                   | 1.005                   | 1.006                   |
| 1987                                   |                |   |                |                         | 1.100                   | 1.056                   | 1.035                   | 1.024                   | 1.016                             | 1.013                   | 1.009                   | 1.012                   | 1.009                   | 1.006                   | 1.006                   | 1.005                   |
| 1988                                   |                |   |                | 1.173                   | 1.096                   | 1.055                   | 1.035                   | 1.023                   | 1.016                             | 1.011                   | 1.010                   | 1.014                   | 1.005                   | 1.004                   | 1.004                   | 1.005                   |
| 1989                                   |                |   | 1.354          | 1.179                   | 1.110                   | 1.063                   | 1.062                   | 1.029                   | 1.017                             | 1.012                   | 1.008                   | 1.004                   | 1.006                   | 1.005                   | 1.006                   | 1.005                   |
| 1990                                   |                | 1.821                                       | 1.337          | 1.169                   | 1.085                   | 1.068                   | 1.034                   | 1.020                   | 1.015                             | 1.010                   | 1.007                   | 1.006                   | 1.006                   | 1.006                   | 1.005                   | 1.006                   |
| 1991                                   | 4.164          | 1.713                                       | 1.300          | 1.130                   | 1.081                   | 1.052                   | 1.026                   | 1.018                   | 1.012                             | 1.017                   | 1.008                   | 1.005                   | 1.005                   | 1.005                   | 1.007                   | 1.004                   |
| 1992<br>1993                           | 3.520          | 1.633                                       | 1.249          | 1.132                   | 1.079<br>1.081          | 1.048<br>1.052          | 1.028<br>1.034          | 1.020                   | 1.023<br>1.021                    | 1.010<br>1.015          | 1.008                   | 1.006                   | 1.007                   | 1.005                   | 1.006<br>0.998          | 0.998                   |
| 1993                                   | 3.175<br>3.203 | 1.633<br>1.645                              | 1.276<br>1.284 | 1.147<br>1.125          | 1.081                   | 1.052                   | 1.034                   | 1.034<br>1.027          | 1.021                             | 1.015                   | 1.013<br>1.015          | 1.010<br>1.017          | 1.011<br>1.014          | 1.010<br>0.999          | 1.008                   | 1.006<br>1.007          |
| 1995                                   | 3.403          | 1.700                                       | 1.264          | 1.123                   | 1.088                   | 1.065                   | 1.040                   | 1.027                   | 1.020                             | 1.021                   | 1.013                   | 1.017                   | 1.003                   | 1.012                   | 1.000                   | 1.007                   |
| 1996                                   | 3.178          | 1.610                                       | 1.331          | 1.144                   | 1.094                   | 1.073                   | 1.064                   | 1.048                   | 1.033                             | 1.028                   | 1.022                   | 1.002                   | 1.014                   | 1.012                   | 1.009                   | 1.010                   |
| 1997                                   | 3.071          | 1.678                                       | 1.256          | 1.151                   | 1.111                   | 1.088                   | 1.071                   | 1.042                   | 1.035                             | 1.027                   | 1.002                   | 1.017                   | 1.013                   | 1.012                   | 1.012                   | 1.010                   |
| 1998                                   | 3.629          | 1.644                                       | 1.273          | 1.176                   | 1.126                   | 1.093                   | 1.071                   | 1.045                   | 1.032                             | 1.007                   | 1.021                   | 1.017                   | 1.014                   | 1.014                   | 1.012                   | 1.012                   |
| 1999                                   | 3.413          | 1.743                                       | 1.335          | 1.189                   | 1.134                   | 1.086                   | 1.066                   | 1.045                   | 1.017                             | 1.029                   | 1.021                   | 1.018                   | 1.016                   | 1.013                   | 1.013                   | 1.010                   |
| 2000                                   | 4.244          | 1.779                                       | 1.357          | 1.208                   | 1.121                   | 1.091                   | 1.057                   | 1.030                   | 1.033                             | 1.025                   | 1.021                   | 1.019                   | 1.015                   | 1.014                   | 1.012                   | 1.011                   |
| 2001                                   | 4.001          | 1.797                                       | 1.384          | 1.182                   | 1.121                   | 1.084                   | 1.044                   | 1.039                   | 1.028                             | 1.024                   | 1.020                   | 1.017                   | 1.017                   | 1.014                   | 1.011                   | 1.009                   |
| 2002                                   | 3.822          | 1.805                                       | 1.318          | 1.177                   | 1.109                   | 1.064                   | 1.047                   | 1.032                   | 1.026                             | 1.021                   | 1.018                   | 1.017                   | 1.014                   | 1.012                   | 1.009                   |                         |
| 2003                                   | 3.950          | 1.705                                       | 1.329          | 1.171                   | 1.101                   | 1.063                   | 1.045                   | 1.034                   | 1.029                             | 1.023                   | 1.020                   | 1.017                   | 1.013                   | 1.010                   |                         |                         |
| 2004                                   | 4.073          | 1.734                                       | 1.339          | 1.161                   | 1.101                   | 1.069                   | 1.048                   | 1.036                   | 1.030                             | 1.025                   | 1.020                   | 1.015                   | 1.012                   |                         |                         |                         |
| 2005                                   | 3.932          | 1.740                                       | 1.330          | 1.181                   | 1.113                   | 1.079                   | 1.056                   | 1.044                   | 1.035                             | 1.028                   | 1.022                   | 1.016                   |                         |                         |                         |                         |
| 2006                                   | 3.976          | 1.727                                       | 1.330          | 1.186                   | 1.120                   | 1.081                   | 1.060                   | 1.046                   | 1.035                             | 1.025                   | 1.019                   |                         |                         |                         |                         |                         |
| 2007                                   | 3.956          | 1.716                                       | 1.340          | 1.194                   | 1.126                   | 1.088                   | 1.060                   | 1.045                   | 1.031                             | 1.023                   |                         |                         |                         |                         |                         |                         |
| 2008<br>2009                           | 4.015<br>4.322 | 1.758<br>1.775                              | 1.367<br>1.354 | 1.199<br>1.199          | 1.126<br>1.126          | 1.085<br>1.083          | 1.060<br>1.054          | 1.040<br>1.037          | 1.029                             |                         |                         |                         |                         |                         |                         |                         |
| 2009                                   | 4.322          | 1.737                                       | 1.342          | 1.199                   | 1.120                   | 1.083                   | 1.034                   | 1.037                   |                                   |                         |                         |                         |                         |                         |                         |                         |
| 2010                                   | 4.233          | 1.728                                       | 1.350          | 1.195                   | 1.109                   | 1.073                   | 1.045                   |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
| 2012                                   | 4.323          | 1.765                                       | 1.343          | 1.173                   | 1.105                   | 1.072                   |                         |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
| 2013                                   | 4.504          | 1.704                                       | 1.296          | 1.160                   |                         |                         |                         |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
| 2014                                   | 4.281          | 1.629                                       | 1.284          |                         |                         |                         |                         |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
| 2015                                   | 3.990          | 1.627                                       |                |                         |                         |                         |                         |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
| 2016                                   | 4.199          |   |                |                         |                         |                         |                         |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
| Age-to-Age<br>Cumulative<br>Age-to-Age | 4.157          | 1.627<br>3.924<br><u>ithmetics</u><br>1.653 | 1.308          | 1.160<br>1.878<br>1.176 | 1.105<br>1.619<br>1.111 | 1.072<br>1.465<br>1.077 | 1.049<br>1.367<br>1.054 | 1.037<br>1.303<br>1.041 | 1.029<br>1.257<br>1.032           | 1.023<br>1.222<br>1.025 | 1.019<br>1.194<br>1.021 | 1.016<br>1.171<br>1.016 | 1.012<br>1.152<br>1.013 | 1.010<br>1.139<br>1.012 | 1.009<br>1.128<br>1.011 | 1.009<br>1.117<br>1.010 |
| Cumulative                             | 17.660         | 4.248                                       | 2.569          | 1.965                   | 1.671                   | 1.503                   | 1.396                   | 1.324                   | 1.272                             | 1.233                   | 1.203                   | 1.179                   | 1.160                   | 1.145                   | 1.131                   | 1.119                   |
|  |                |   | High & Low     |                         |                         |                         |                         |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
| Age-to-Age                             | 3.888          | 1.713                                       | 1.320          | 1.172<br>1.839          | 1.106<br>1.569          | 1.071                   | 1.050<br>1.323          | 1.033                   | 1.025<br>1.220                    | 1.019                   | 1.015                   | 1.013                   | 1.011                   | 1.009                   | 1.008                   | 1.007                   |
| Cumulative                             | 16.175         | 4.161                                       | 2.429          | 1.039                   | 1.569                   | 1.418                   | 1.323                   | 1.260                   | 1.220                             | 1.190                   | 1.168                   | 1.151                   | 1.136                   | 1.124                   | 1.114                   | 1.105                   |
| A = = : = ! = = = 4                    |                |   |                |                         |                         | A = = + = A             | Develo                  |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
| Accident<br>Year                       | 204-216        | 216-228                                     | 228-240        | 240-252                 | 252-264                 | Age-to-A<br>264-276     | 276-288                 | opment (in<br>288-300   | <u>months):</u><br><u>300-312</u> | 312-324                 | 324-336                 | 336-348                 | 348-360                 | 360-372                 | 372-384                 | 384-396                 |
| 1985                                   | 1.004          | 1.006                                       | 1.005          | 1.003                   | 1.005                   | 1.005                   | 0.999                   | 1.036                   | 1.004                             | 1.004                   | 1.004                   | 1.004                   | 1.006                   | 1.004                   | 1.003                   | 1.003                   |
| 1986                                   | 1.005          | 1.005                                       | 1.005          | 1.006                   | 1.005                   | 0.999                   | 1.039                   | 1.005                   | 1.005                             | 1.006                   | 1.006                   | 1.007                   | 1.006                   | 1.005                   | 1.004                   |                         |
| 1987                                   | 1.005          | 1.005                                       | 1.006          | 1.007                   | 0.998                   | 1.024                   | 1.006                   | 1.005                   | 1.004                             | 1.005                   | 1.006                   | 1.005                   | 1.004                   | 1.004                   |                         |                         |
| 1988                                   | 1.004          | 1.005                                       | 1.005          | 1.009                   | 1.008                   | 1.004                   | 1.004                   | 1.004                   | 1.004                             | 1.004                   | 1.004                   | 1.004                   | 1.003                   |                         |                         |                         |
| 1989                                   | 1.005          | 1.004                                       | 1.002          | 1.003                   | 1.004                   | 1.004                   | 1.004                   | 1.004                   | 1.004                             | 1.004                   | 1.004                   | 1.003                   |                         |                         |                         |                         |
| 1990                                   | 1.005          | 1.001                                       | 1.002          | 1.003                   | 1.003                   | 1.003                   | 1.003                   | 1.003                   | 1.002                             | 1.003                   | 1.002                   |                         |                         |                         |                         |                         |
| 1991                                   | 1.000          | 1.002                                       | 1.003          | 1.003                   | 1.003                   | 1.003                   | 1.003                   | 1.002                   | 1.003                             | 1.003                   |                         |                         |                         |                         |                         |                         |
| 1992                                   | 1.003          | 1.005                                       | 1.004          | 1.003                   | 1.003                   | 1.003                   | 1.003                   | 1.003                   | 1.003                             |                         |                         |                         |                         |                         |                         |                         |
| 1993                                   | 1.007          | 1.006                                       | 1.006          | 1.006                   | 1.005                   | 1.005                   | 1.005                   | 1.004                   |                                   |                         |                         |                         |                         |                         |                         |                         |
| 1994                                   | 1.008          | 1.007                                       | 1.006          | 1.006                   | 1.006                   | 1.005                   | 1.004                   |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
| 1995                                   | 1.009          | 1.009                                       | 1.008          | 1.008                   | 1.008                   | 1.006                   |                         |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
| 1996<br>1997                           | 1.009          | 1.008                                       | 1.007          | 1.007                   | 1.006                   |                         |                         |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
| 1997<br>1998                           | 1.008<br>1.010 | 1.008<br>1.010                              | 1.007<br>1.008 | 1.007                   |                         |                         |                         |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
| 1998                                   | 1.010          | 1.008                                       | 1.000          |                         |                         |                         |                         |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
| 2000                                   | 1.009          |   |                |                         |                         |                         |                         |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
|  |                |   |                |                         |                         |                         |                         |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
|  | Latest Ye      | ar  |                |                         |                         |                         |                         |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
| Age-to-Age                             | 1.009          | 1.008                                       | 1.008          | 1.007                   | 1.006                   | 1.006                   | 1.004                   | 1.004                   | 1.003                             | 1.003                   | 1.002                   | 1.003                   | 1.003                   | 1.004                   | 1.004                   | 1.003                   |
| Cumulative                             | 1.107          | 1.097                                       | 1.089          | 1.080                   | 1.073                   | 1.067                   | 1.060                   | 1.056                   | 1.051                             | 1.049                   | 1.046                   | 1.043                   | 1.040                   | 1.037                   | 1.035                   | 1.032                   |
|  | 3-Year Ar      | ithmetic A                                  | verage         |                         |                         |                         |                         |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
| Age-to-Age                             | 1.010          | 1.009                                       | 1.008          | 1.007                   | 1.006                   | 1.006                   | 1.004                   | 1.003                   | 1.003                             | 1.003                   | 1.003                   | 1.004                   | 1.004                   | 1.004                   | 1.004                   | 1.003                   |
| Cumulative                             | 1.108          | 1.097                                       | 1.088          | 1.080                   | 1.072                   | 1.066                   | 1.060                   | 1.055                   | 1.052                             | 1.049                   | 1.046                   | 1.043                   | 1.040                   | 1.037                   | 1.035                   | 1.032                   |
|  | Average I      | Excluding                                   | High & Low     |                         |                         |                         |                         |                         |                                   |                         |                         |                         |                         |                         |                         |                         |
| Age-to-Age                             | 1.006          | 1.006                                       | 1.005          | 1.005                   | 1.005                   | 1.004                   | 1.004                   | 1.004                   | 1.004                             | 1.004                   | 1.004                   | 1.004                   | 1.005                   | 1.004                   |                         |                         |
| Cumulative                             | 1.097          | 1.090                                       | 1.084          | 1.078                   | 1.072                   | 1.067                   | 1.063                   | 1.058                   | 1.054                             | 1.050                   | 1.046                   | 1.043                   | 1.040                   | 1.037                   | 1.035                   | 1.032                   |
|  |                |   |                |                         |                         |                         |                         |                         |                                   |                         |                         |                         |                         |                         |                         |                         |

Note: Factors in italics are based on an inverse power curve fit to the "3-Year Arithmetic Average" factors using the 108-to-120 through 312-to-324 valuations. Source: WCIRB accident year experience calls. Excludes MCCP costs.

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

| Momins         2002         2003         2004         2005         2006         2007         2008         2009         2011         2012         2013         2014         2013         2014         2015         2014         2017         2013         2014         2013         2014         2015         2016         2077           3         -6         -         -         -         2.427         3016         2.765         2.803         3.076         3.213         3.088         3.168         3.044         1.055         1.131   | Age in    |       |             |             |       |             |       |             | Accide      | nt Year     |             |             |             |             |             |             |             |
|--|-----------|-------|-------------|-------------|-------|-------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 6       -       9       -       2.427       3.016       2.769       2.630       3.023       3.176       3.213       3.058       3.168       3.187       3.048       3.044         9       12       -       -       15       -       2.022       2.078       2.021       2.034       2.077       2.165       2.114       2.132       2.160       2.134       2.085       2.127         12       -       15       -       1.415       1.486       1.494       1.509       1.242       1.734       1.735       1.740       1.704       1.739       1.740       1.740       1.734       1.735       1.740       1.030       1.030       1.305       1.311       1.335       1.337       1.235       1.245       1.249       1.241       1.239       1.222       1.225       1.241       1.239       1.242       1.241       1.301       1.301       1.301       1.301       1.301       1.301       1.301       1.301       1.311       1.103       1.101       1.101       1.305       1.331       1.131       1.131       1.101       1.101       1.101       1.003       1.011       1.003       1.011       1.003       1.011       1.003       1.011  | Months    | 2002  | <u>2003</u> | <u>2004</u> | 2005  | <u>2006</u> | 2007  | <u>2008</u> | <u>2009</u> | <u>2010</u> | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> |
| 9         12         2022         2078         2021         2034         2077         2.165         2.114         2.132         2.160         2.134         2.085         2.127           12         -         15         -         165         1.663         1.627         1.687         1.724         1.737         1.701         1.713         1.785         1.740         1.703         1.771           15         -         18         -         1.415         1.486         1.499         1.486         1.414         1.509         1.424         1.248         1.249         1.241         1.239         1.222         1.225           24         -         27         -         1.152         1.167         1.172         1.170         1.185         1.145         1.141         1.145 <t< td=""><td>3 - 6</td><td></td><td></td><td></td><td></td><td></td><td>7.976</td><td>7.570</td><td>5.434</td><td>9.136</td><td>8.769</td><td>8.694</td><td>8.580</td><td>6.325</td><td>9.954</td><td>6.672</td><td>8.927</td></t<> | 3 - 6     |       |             |             |       |             | 7.976 | 7.570       | 5.434       | 9.136       | 8.769       | 8.694       | 8.580       | 6.325       | 9.954       | 6.672       | 8.927       |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 6 - 9     |       |             |             |       | 2.427       | 3.016 | 2.765       | 2.630       | 3.023       | 3.176       | 3.213       | 3.058       | 3.168       | 3.187       | 3.048       | 3.044       |
| 15       18       1.415       1.486       1.494       1.509       1.482       1.486       1.510       1.495       1.489       1.469       1.484         18       21       1.318       1.357       1.328       1.289       1.326       1.334       1.338       1.361       1.309       1.304       1.305         21       24       1.249       1.255       1.234       1.237       1.255       1.248       1.241       1.299       1.222       1.225         24       27       30       1.165       1.167       1.170       1.188       1.181       1.180       1.186       1.145       1.145       1.141       1.145       1.141       1.145       1.141       1.145       1.141       1.141       1.141       1.141       1.141       1.141       1.141       1.141       1.145       1.141   | 9 12      |       |             |             |       | 2.022       | 2.078 | 2.021       | 2.034       | 2.077       | 2.165       | 2.114       | 2.132       | 2.160       | 2.134       | 2.085       | 2.127       |
| 18       -       21       1.318       1.357       1.328       1.289       1.326       1.334       1.338       1.361       1.300       1.304       1.305         21       24       1.249       1.255       1.234       1.237       1.255       1.253       1.248       1.249       1.211       1.239       1.222       1.225         24       -       27       -       1.192       1.187       1.191       1.100       1.172       1.188       1.186       1.163       1.164       1.158       1.140       1.152       1.145       1.140       1.153       1.161       1.165       1.167       1.172       1.170       1.138       1.131       1.168       1.163       1.161       1.164       1.158       1.141       1.113       1.101       1.101       1.003       1.003       1.016       1.016       1.0101       1.003       1.003       1.016       1.0161       1.003       1.008       1.008       1.008       1.008       1.008       1.004       1.003       1.004       1.009       1.008       1.005       1.005       1.056       1.055       1.056       1.056       1.056       1.056       1.056       1.056       1.056       1.056       1.056  | 12 - 15   |       |             |             |       | 1.653       | 1.627 | 1.687       | 1.724       | 1.737       | 1.701       | 1.713       | 1.785       | 1.740       | 1.703       | 1.771       |             |
| 21       24       1.24       1.255       1.234       1.237       1.255       1.233       1.248       1.249       1.241       1.239       1.222       1.225         24       27       30       1.157       1.165       1.167       1.172       1.170       1.188       1.186       1.205       1.190       1.170       1.182         27       30       1.127       1.145       1.145       1.128       1.119       1.135       1.138       1.133       1.131       1.138       1.131       1.138       1.131       1.131       1.101       1.003       1.003         33       36       1.017       1.013       1.111       1.114       1.113       1.008  | 15 - 18   |       |             |             |       | 1.415       | 1.486 | 1.494       | 1.509       | 1.482       | 1.486       | 1.510       | 1.495       | 1.489       | 1.469       | 1.484       |             |
| 24       27       1.192       1.187       1.191       1.190       1.197       1.189       1.186       1.205       1.190       1.170       1.182         27       30       1.151       1.165       1.167       1.172       1.170       1.183       1.163       1.164       1.158       1.145       1.140         30       33       1.127       1.145       1.128       1.110       1.107       1.103       1.131       1.133       1.131       1.138       1.123       1.111       1.109         33       36       1.113       1.107       1.003       1.090       1.097       1.094       1.095       1.093       1.093       1.090       1.097       1.083       1.077       1.058       1.057       1.059       1.051       1.051       1.051       1.051       1.051       1.051       1.051       1.051       1.051       1.051       1.053       1.052       1.054       1.051       1.052       1.051       1.051 <td>18 - 21</td> <td></td> <td></td> <td></td> <td>1.318</td> <td>1.357</td> <td>1.328</td> <td>1.289</td> <td>1.326</td> <td>1.334</td> <td>1.343</td> <td>1.338</td> <td>1.361</td> <td>1.330</td> <td>1.304</td> <td>1.305</td> <td></td>   | 18 - 21   |       |             |             | 1.318 | 1.357       | 1.328 | 1.289       | 1.326       | 1.334       | 1.343       | 1.338       | 1.361       | 1.330       | 1.304       | 1.305       |             |
| 27       -       30       -       1.151       1.165       1.167       1.172       1.170       1.158       1.163       1.164       1.158       1.145       1.140         30       -       33       -       1.112       1.145       1.128       1.119       1.135       1.138       1.133       1.131       1.138       1.123       1.113       1.109         33       36       -       1.093       1.087       1.093       1.091       1.094       1.091       1.095       1.093       1.082       1.083         39       -       42       -       1.076       1.083       1.087       1.099       1.097       1.081       1.083       1.083       1.081       1.083       1.083       1.084       1.083       1.083       1.084       1.083       1.083       1.084       1.083       1.083       1.085       1.083       1.085       1.083       1.085       1.083       1.085       1.083       1.083       1.084       1.084       1.083       1.083       1.084       1.074       1.070       1.058       1.050       1.056       1.056       1.056       1.056       1.056       1.056       1.056       1.056       1.056       1.056  | 21 24     |       |             |             | 1.249 | 1.255       | 1.234 | 1.237       | 1.255       | 1.253       | 1.248       | 1.249       | 1.241       | 1.239       | 1.222       | 1.225       | -           |
| 30       -       33  | 24 - 27   |       |             |             | 1.192 | 1.187       | 1.191 | 1.190       | 1.197       | 1.189       | 1.186       | 1.205       | 1.190       | 1.170       | 1.182       |             |             |
| 33         36         1.113         1.110         1.107         1.103         1.111         1.114         1.113         1.106         1.101         1.093         1.088           36         -         39         -         1.093         1.087         1.093         1.090         1.097         1.094         1.091         1.095         1.093         1.082         1.083           39         -         42         -         1.063         1.087         1.093         1.080         1.091         1.095         1.093         1.082         1.083           42         -         45         1.063         1.077         1.068         1.063         1.069         1.074         1.069         1.073         1.072         1.059         1.056           45         48         1.059         1.057         1.058         1.057         1.059         1.051         1.051         1.052         1.053         1.052         1.051  | 27 - 30   |       |             |             | 1.151 | 1.165       | 1.167 | 1.172       | 1.170       | 1.158       | 1.163       | 1.164       | 1.158       | 1.145       | 1.140       |             |             |
| 36       -       39       1.093       1.097       1.094       1.091       1.095       1.093       1.082       1.083         39       -       42       1.076       1.083       1.083       1.086       1.096       1.082       1.083       1.083       1.074       1.070         42       -       45       1.063       1.077       1.068       1.063       1.069       1.064       1.062       1.061       1.058       1.053       1.050         45       48       1.059       1.057       1.058       1.057       1.059       1.050       1.064       1.062       1.061       1.058       1.053       1.050         48       -       51       1.049       1.039       1.050       1.050       1.050       1.050       1.044       1.048       1.044         54       1.037       1.037       1.038       1.043       1.045       1.043       1.044       1.043       1.044       1.038       1.039       1.039       1.034       1.044       1.034       1.044       1.037       1.034       1.034       1.044       1.037       1.034       1.030         57       60       1.037       1.025       1.030       1.0   | 30 - 33   |       |             | 1.127       | 1.145 | 1.128       | 1.119 | 1.135       | 1.138       | 1.133       | 1.131       | 1.138       | 1.123       | 1.113       | 1.109       |             |             |
| 39       -       42       1.076       1.083       1.083       1.086       1.082       1.083       1.083       1.074       1.070         42       -       45       1.063       1.077       1.068       1.063       1.069       1.074       1.069       1.073       1.072       1.059       1.056         45       48       1.059       1.057       1.058       1.057       1.059       1.052       1.063       1.061       1.062       1.061       1.058       1.053       1.050         48       -       51       1.049       1.039       1.050       1.050       1.052       1.053       1.053       1.054       1.044       1.046         51       -       54       1.043       1.044       1.049       1.037       1.038       1.045       1.043       1.044       1.044       1.044       1.044         57       1.038       1.037       1.037       1.038       1.037       1.038       1.039       1.032       1.037       1.034       1.037       1.034       1.037       1.034       1.037       1.034       1.037       1.034       1.030       1.034       1.037       1.034       1.030       1.031       1.034   | 33 36     |       |             | 1.113       | 1.110 | 1.107       | 1.103 | 1.111       | 1.114       | 1.113       | 1.108       | 1.106       | 1.101       | 1.093       | 1.088       | -           |             |
| 42       -       45       1.063       1.077       1.068       1.063       1.069       1.074       1.069       1.073       1.072       1.059       1.056         45       48       1.059       1.057       1.058       1.057       1.059       1.053       1.064       1.062       1.061       1.058       1.053       1.050         48       -       51       1.049       1.039       1.050       1.050       1.052       1.053       1.052       1.048       1.044       1.046         51       -       54       1.043       1.044       1.048       1.049       1.050       1.045       1.040       1.044       1.044       1.045         57       1.038       1.037       1.038       1.034       1.044       1.037       1.038       1.039       1.036       1.034       1.034       1.034         57       60       1.037       1.025       1.032       1.037       1.038       1.039       1.032       1.030       1.034       1.034       1.034       1.034       1.034       1.030       1.034       1.030       1.034       1.034       1.030       1.034       1.030       1.034       1.030       1.034       1.034   | 36 - 39   |       |             | 1.093       | 1.087 | 1.093       | 1.090 | 1.097       | 1.094       | 1.091       | 1.095       | 1.093       | 1.082       | 1.083       |             |             |             |
| 45       48       1.059       1.057       1.058       1.057       1.059       1.063       1.064       1.062       1.061       1.058       1.053       1.050         48       -       51       1.049       1.039       1.050       1.050       1.050       1.052       1.053       1.053       1.052       1.048       1.044       1.049       1.050       1.052       1.053       1.050       1.051       1.044       1.041         54       1.033       1.045       1.037       1.037       1.037       1.038       1.043       1.045       1.043       1.040       1.044       1.044       1.044       1.044       1.044       1.044       1.045       1.045       1.043       1.040       1.044       1.037       1.034         57       60       1.037       1.032       1.037       1.033       1.031       1.034       1.037       1.034       1.034       1.034       1.034       1.031       1.034 <td>39 - 42</td> <td></td> <td></td> <td>1.076</td> <td>1.083</td> <td>1.083</td> <td>1.086</td> <td>1.096</td> <td>1.082</td> <td>1.083</td> <td>1.083</td> <td>1.083</td> <td>1.074</td> <td>1.070</td> <td></td> <td></td> <td></td>   | 39 - 42   |       |             | 1.076       | 1.083 | 1.083       | 1.086 | 1.096       | 1.082       | 1.083       | 1.083       | 1.083       | 1.074       | 1.070       |             |             |             |
| 48       -       51       1.049       1.039       1.050       1.050       1.052       1.053       1.053       1.052       1.048       1.046         51       -       54       1.043       1.044       1.048       1.049       1.050       1.049       1.050       1.048       1.050       1.044       1.041         54       -       57       1.038       1.045       1.037       1.037       1.038       1.043       1.040       1.044       1.037       1.034         57       60       1.037       1.025       1.032       1.034       1.037       1.038       1.039       1.036       1.037       1.034       1.037         60       -       63       1.031       1.025       1.022       1.030       1.032       1.033       1.031       1.032       1.030       1.031         63       -       66       1.029       1.025       1.026       1.027       1.029       1.028       1.028       1.028       1.028       1.028         66       -       69       1.027       1.022       1.025       1.028       1.026       1.023       1.022       1.021         72       1.018       1.017 <t< td=""><td>42 - 45</td><td></td><td>1.063</td><td>1.077</td><td>1.068</td><td>1.063</td><td>1.069</td><td>1.069</td><td>1.074</td><td>1.069</td><td>1.073</td><td>1.072</td><td>1.059</td><td>1.056</td><td></td><td></td><td></td></t<>   | 42 - 45   |       | 1.063       | 1.077       | 1.068 | 1.063       | 1.069 | 1.069       | 1.074       | 1.069       | 1.073       | 1.072       | 1.059       | 1.056       |             |             |             |
| 51       -       54       1.043       1.044       1.048       1.049       1.050       1.049       1.048       1.048       1.044       1.041         54       -       57       1.038       1.045       1.037       1.037       1.038       1.043       1.045       1.040       1.044       1.037       1.034         57       60       1.037       1.025       1.032       1.034       1.037       1.038       1.039       1.036       1.037       1.034       1.037         60       1.037       1.025       1.032       1.034       1.037       1.038       1.039       1.036       1.037       1.034       1.030         60       -       63       1.031       1.027       1.028       1.030       1.031       1.034       1.031       1.034       1.030         63       -       66       1.029       1.025       1.026       1.027       1.028       1.028       1.028       1.028       1.028         66       -       69       1.027       1.023       1.025       1.028       1.028       1.022       1.021         72       1.018       1.017       1.018       1.020       1.023       1.022  | 45 48     |       | 1.059       | 1.057       | 1.058 | 1.057       | 1.059 | 1.063       | 1.064       | 1.062       | 1.061       | 1.058       | 1.053       | 1.050       |             |             |             |
| 54       -       57       1.038       1.045       1.037       1.037       1.038       1.043       1.043       1.040       1.044       1.037       1.034         57       60       1.037       1.025       1.032       1.034       1.037       1.038       1.039       1.039       1.036       1.037       1.034       1.030         60       -       63       1.031       1.027       1.028       1.030       1.032       1.031       1.032       1.030       1.032       1.034       1.034       1.032       1.030       1.030         63       -       66       1.029       1.025       1.025       1.030       1.031       1.033       1.031       1.032       1.034       1.031       1.032       1.030       1.030         64       -       69       1.027       1.028       1.026       1.027       1.028       1.028       1.024       1.023         69       72       1.018       1.017       1.018       1.021       1.022       1.023       1.022       1.023       1.022       1.021       1.022       1.023       1.022       1.021       1.024       1.021       1.026       1.021       1.021       1.023 <t< td=""><td>48 - 51</td><td></td><td>1.049</td><td>1.039</td><td>1.050</td><td>1.050</td><td>1.050</td><td>1.052</td><td>1.053</td><td>1.053</td><td>1.052</td><td>1.048</td><td>1.046</td><td></td><td></td><td></td><td></td></t<>   | 48 - 51   |       | 1.049       | 1.039       | 1.050 | 1.050       | 1.050 | 1.052       | 1.053       | 1.053       | 1.052       | 1.048       | 1.046       |             |             |             |             |
| 57       60       1.037       1.025       1.032       1.034       1.037       1.038       1.039       1.036       1.037       1.034       1.030         60       -       63       1.031       1.027       1.028       1.030       1.032       1.034       1.034       1.030         63       -       66       1.029       1.025       1.025       1.030       1.031       1.031       1.031       1.028       1.028         66       -       69       1.027       1.023       1.026       1.027       1.029       1.028       1.028       1.028       1.028         69       72       1.018       1.021       1.022       1.023       1.025       1.023       1.022       1.023         72       75       1.014       1.017       1.018       1.021       1.022       1.023       1.023       1.022       1.023       1.024       1.020         75       1.014       1.017       1.018       1.019       1.020       1.021       1.022       1.023       1.021       1.021         75       78       1.018       1.019       1.019       1.020       1.020       1.020       1.020       1.017 <tr< td=""><td>51 - 54</td><td></td><td>1.043</td><td>1.044</td><td>1.048</td><td>1.049</td><td>1.050</td><td>1.049</td><td>1.050</td><td>1.048</td><td>1.050</td><td>1.044</td><td>1.041</td><td></td><td></td><td></td><td></td></tr<>  | 51 - 54   |       | 1.043       | 1.044       | 1.048 | 1.049       | 1.050 | 1.049       | 1.050       | 1.048       | 1.050       | 1.044       | 1.041       |             |             |             |             |
| 60       -       63       1.031       1.027       1.028       1.030       1.032       1.034       1.034       1.032       1.030       1.030         63       -       66       1.029       1.025       1.025       1.030       1.031       1.033       1.031       1.031       1.028       1.028         66       -       69       1.027       1.023       1.022       1.026       1.027       1.029       1.028       1.028       1.024       1.023         69       72       1.018       1.021       1.022       1.023       1.025       1.023       1.022       1.023         72       75       1.014       1.017       1.018       1.021       1.022       1.023       1.022       1.023       1.022       1.023         75       75       1.014       1.017       1.018       1.021       1.022       1.023       1.022       1.021       1.023         75       78       1.018       1.019       1.020       1.020       1.020       1.020       1.020       1.020       1.021       1.017         84       1.015       1.013       1.015       1.016       1.016       1.015       1.014 <tr< td=""><td>54 - 57</td><td>1.038</td><td>1.045</td><td>1.037</td><td>1.037</td><td>1.038</td><td>1.043</td><td>1.045</td><td>1.043</td><td>1.040</td><td>1.044</td><td>1.037</td><td>1.034</td><td></td><td></td><td></td><td></td></tr<>   | 54 - 57   | 1.038 | 1.045       | 1.037       | 1.037 | 1.038       | 1.043 | 1.045       | 1.043       | 1.040       | 1.044       | 1.037       | 1.034       |             |             |             |             |
| 63       -       66       1.029       1.025       1.025       1.030       1.031       1.033       1.031       1.031       1.028       1.028         66       -       69       1.027       1.023       1.022       1.026       1.027       1.029       1.028       1.028       1.024       1.023         69       72       1.018       1.021       1.022       1.023       1.025       1.028       1.026       1.023       1.022       1.020         72       75       1.014       1.017       1.018       1.021       1.022       1.023       1.022       1.023       1.022       1.023         75       -       78       1.018       1.017       1.018       1.020       1.020       1.021       1.022       1.023       1.022       1.021       1.021         75       -       78       1.018       1.019       1.020       1.020       1.020       1.020       1.020       1.021 <t< td=""><td>57 60</td><td>1.037</td><td>1.025</td><td>1.032</td><td>1.034</td><td>1.037</td><td>1.038</td><td>1.039</td><td>1.039</td><td>1.036</td><td>1.037</td><td>1.034</td><td>1.030</td><td>-</td><td></td><td></td><td></td></t<>   | 57 60     | 1.037 | 1.025       | 1.032       | 1.034 | 1.037       | 1.038 | 1.039       | 1.039       | 1.036       | 1.037       | 1.034       | 1.030       | -           |             |             |             |
| 66       -       69       1.027       1.023       1.022       1.026       1.027       1.029       1.028       1.028       1.023       1.022       1.023         69       72       1.018       1.021       1.022       1.023       1.025       1.028       1.026       1.023       1.022       1.020         72       -       75       1.014       1.017       1.018       1.021       1.022       1.023       1.023       1.022       1.020         75       -       78       1.018       1.019       1.020       1.020       1.023       1.022       1.021       1.021         78       -       78       1.018       1.019       1.020       1.020       1.020       1.020       1.021       1.021         78       -       81       1.017       1.013       1.015       1.019       1.010       1.020       1.020       1.020       1.021       1.017         81       84       1.015       1.013       1.015       1.016       1.016       1.015       1.014       1.014         84       -       87       1.014       1.011       1.015       1.016       1.016       1.015       1.014  | 60 - 63   | 1.031 | 1.027       | 1.028       | 1.030 | 1.032       | 1.032 | 1.034       | 1.034       | 1.032       | 1.030       | 1.030       |             |             |             |             |             |
| 69       72       1.018       1.021       1.022       1.023       1.025       1.028       1.026       1.023       1.022       1.020         72       -       75       1.014       1.017       1.018       1.021       1.022       1.023       1.023       1.021       1.021       1.020         75       -       78       1.018       1.019       1.020       1.020       1.022       1.020       1.021       1.020         78       -       81       1.017       1.013       1.015       1.019       1.020       1.020       1.020       1.021       1.017         81       84       1.015       1.013       1.015       1.017       1.018       1.019       1.019       1.019         84       -       87       1.014       1.011       1.013       1.015       1.016       1.016       1.015       1.014  | 63 - 66   | 1.029 | 1.025       | 1.025       | 1.030 | 1.030       | 1.031 | 1.033       | 1.031       | 1.031       | 1.028       | 1.028       |             |             |             |             |             |
| 72       -       75       1.014       1.017       1.018       1.021       1.022       1.023       1.023       1.022       1.021       1.020         75       -       78       1.018       1.019       1.020       1.020       1.023       1.022       1.020       1.019         78       -       81       1.017       1.013       1.015       1.019       1.020       1.020       1.020       1.020         78       -       81       1.017       1.013       1.015       1.019       1.020       1.020       1.020       1.020       1.017         81       84       1.015       1.013       1.015       1.017       1.018       1.019       1.018       1.017       1.016       1.014         84       -       87       1.014       1.011       1.013       1.015       1.016       1.016       1.015       1.014  | 66 - 69   | 1.027 | 1.023       | 1.022       | 1.026 | 1.027       | 1.029 | 1.028       | 1.028       | 1.028       | 1.024       | 1.023       |             |             |             |             |             |
| 75       -       78       1.018       1.019       1.020       1.020       1.023       1.022       1.022       1.020       1.019         78       -       81       1.017       1.013       1.015       1.019       1.019       1.020       1.020       1.020       1.017       1.017         81       84       1.015       1.013       1.015       1.017       1.018       1.017       1.016       1.014         84       -       87       1.014       1.011       1.013       1.015       1.016       1.016       1.015       1.014  | 69 72     | 1.018 | 1.021       | 1.022       | 1.023 | 1.025       | 1.028 | 1.026       | 1.026       | 1.023       | 1.022       | 1.020       | -           |             |             |             |             |
| 78       -       81       1.017       1.013       1.015       1.019       1.020       1.020       1.017       1.017         81       84       1.015       1.013       1.017       1.018       1.019       1.018       1.017       1.016       1.014         84       -       87       1.014       1.011       1.015       1.016       1.016       1.015       1.014  | 72 - 75   | 1.014 | 1.017       | 1.018       | 1.021 | 1.022       | 1.023 | 1.023       | 1.022       | 1.021       | 1.020       |             |             |             |             |             |             |
| 81 84 1.015 1.013 1.015 1.017 1.018 1.019 1.018 1.017 1.016 1.014<br>84 - 87 1.014 1.011 1.013 1.015 1.016 1.016 1.016 1.015 1.014   | 75 - 78   | 1.018 | 1.018       | 1.019       | 1.020 | 1.020       | 1.023 | 1.022       | 1.022       | 1.020       | 1.019       |             |             |             |             |             |             |
| 84 - 87 1.014 1.011 1.013 1.015 1.016 1.016 1.016 1.015 1.014  | 78 - 81   | 1.017 | 1.013       | 1.015       | 1.019 | 1.019       | 1.020 | 1.020       | 1.020       | 1.017       | 1.017       |             |             |             |             |             |             |
|  | 81 84     | 1.015 | 1.013       | 1.015       | 1.017 | 1.018       | 1.019 | 1.018       | 1.017       | 1.016       | 1.014       |             |             |             |             |             |             |
| 87 - 90 1.013 1.012 1.012 1.014 1.015 1.015 1.016 1.014 1.012  | 84 - 87   | 1.014 | 1.011       | 1.013       | 1.015 | 1.016       | 1.016 | 1.016       | 1.015       | 1.014       |             |             |             |             |             |             |             |
|  | 87 - 90   | 1.013 | 1.012       | 1.012       | 1.014 | 1.015       | 1.015 | 1.016       | 1.014       | 1.012       |             |             |             |             |             |             |             |
| 90 - 93 1.010 1.011 1.011 1.013 1.014 1.014 1.014 1.012 1.012  | 90 - 93   | 1.010 | 1.011       | 1.011       | 1.013 | 1.014       | 1.014 | 1.014       | 1.012       | 1.012       |             |             |             |             |             |             |             |
| 93 96 1.010 1.011 1.011 1.013 1.013 1.013 1.013 1.012 1.010  | 93 96     | 1.010 | 1.011       | 1.011       | 1.013 | 1.013       | 1.013 | 1.013       | 1.012       | 1.010       |             |             |             |             |             |             |             |
| 96 - 99 1.007 1.009 1.010 1.012 1.012 1.012 1.011 1.010  | 96 - 99   | 1.007 | 1.009       | 1.010       | 1.012 | 1.012       | 1.012 | 1.011       | 1.010       |             |             |             |             |             |             |             |             |
| 99 - 102 1.008 1.009 1.009 1.012 1.012 1.012 1.011 1.009   | 99 - 102  | 1.008 | 1.009       | 1.009       | 1.012 | 1.012       | 1.012 | 1.011       | 1.009       |             |             |             |             |             |             |             |             |
| 102 - 105 1.007 1.008 1.008 1.010 1.012 1.011 1.009 1.009  | 102 - 105 | 1.007 | 1.008       | 1.008       | 1.010 | 1.012       | 1.011 | 1.009       | 1.009       |             |             |             |             |             |             |             |             |
| 105 108 1.008 1.008 1.010 1.010 1.010 1.008 1.008  | 105 108   | 1.008 | 1.008       | 1.008       | 1.010 | 1.010       | 1.010 | 1.008       | 1.008       | -           |             |             |             |             |             |             |             |
| 108 - 111 1.007 1.007 1.008 1.009 1.009 1.009 1.008  | 108 - 111 | 1.007 | 1.007       | 1.008       | 1.009 | 1.009       | 1.009 | 1.008       |             |             |             |             |             |             |             |             |             |
| 111 - 114 1.007 1.008 1.008 1.009 1.009 1.008 1.007  | 111 - 114 | 1.007 | 1.008       | 1.008       | 1.009 | 1.009       | 1.008 | 1.007       |             |             |             |             |             |             |             |             |             |
| 114 - 117 1.006 1.007 1.007 1.009 1.008 1.007 1.007  | 114 - 117 | 1.006 | 1.007       | 1.007       | 1.009 | 1.008       | 1.007 | 1.007       |             |             |             |             |             |             |             |             |             |
| 117 120 1.006 1.007 1.007 1.008 1.008 1.007 1.006  | 117 120   | 1.006 | 1.007       | 1.007       | 1.008 | 1.008       | 1.007 | 1.006       | -           |             |             |             |             |             |             |             |             |
| 120 - 123 1.006 1.006 1.007 1.007 1.007 1.006  | 120 - 123 | 1.006 | 1.006       | 1.007       | 1.007 | 1.007       | 1.006 |             |             |             |             |             |             |             |             |             |             |

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

Source: WCIRB quarterly calls for experience.

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

Based on Estimated Accident Year Indemnity Claim Frequency and Private Insurers ALAE Severity For Policies with Effective Dates between July 1, 2018 and December 31, 2018

|      |              | Cumulative             |             | Estimated            |             |
|------|--------------|------------------------|-------------|----------------------|-------------|
|      | Indemnity    | Count                  | Estimated   | Ult. ALAE            | Estimated   |
| Acc. | Claim Counts | Development            | Ultimate    | Per Indemnity        | Ult. ALAE   |
| Year | @12/31/17    | Factors <sup>[2]</sup> | Ind. Counts | Claim <sup>[3]</sup> | (in \$000)  |
|      | (1)          | (2)                    | (3)=(1)x(2) | (4)                  | (5)=(3)x(4) |
| 1991 | 249,750      | 1.000                  | 249,784     | 2,473                | 617,646     |
| 1992 | 198,433      | 1.000                  | 198,470     | 2,354                | 467,108     |
| 1993 | 156,142      | 1.000                  | 156,168     | 2,185                | 341,215     |
| 1994 | 143,729      | 1.000                  | 143,767     | 2,192                | 315,168     |
| 1995 | 135,172      | 1.001                  | 135,254     | 2,513                | 339,881     |
| 1996 | 133,140      | 1.001                  | 133,250     | 2,958                | 394,185     |
| 1997 | 137,296      | 1.001                  | 137,442     | 3,713                | 510,387     |
| 1998 | 147,467      | 1.001                  | 147,664     | 4,802                | 709,031     |
| 1999 | 148,649      | 1.002                  | 148,882     | 5,145                | 765,959     |
| 2000 | 161,971      | 1.002                  | 162,220     | 6,049                | 981,269     |
| 2001 | 185,669      | 1.002                  | 185,955     | 7,521                | 1,398,609   |
| 2002 | 194,693      | 1.002                  | 195,039     | 8,041                | 1,568,292   |
| 2003 | 184,197      | 1.002                  | 184,525     | 8,561                | 1,579,804   |
| 2004 | 158,914      | 1.002                  | 159,181     | 8,078                | 1,285,860   |
| 2005 | 139,523      | 1.002                  | 139,736     | 7,807                | 1,090,958   |
| 2006 | 133,245      | 1.001                  | 133,436     | 8,126                | 1,084,366   |
| 2007 | 130,207      | 1.001                  | 130,389     | 8,818                | 1,149,810   |
| 2008 | 122,921      | 1.002                  | 123,118     | 9,670                | 1,190,568   |
| 2009 | 113,611      | 1.002                  | 113,842     | 10,711               | 1,219,377   |
| 2010 | 118,241      | 1.003                  | 118,550     | 10,717               | 1,270,486   |
| 2011 | 120,311      | 1.004                  | 120,779     | 10,592               | 1,279,268   |
| 2012 | 127,215      | 1.006                  | 127,951     | 10,758               | 1,376,457   |
| 2013 | 134,824      | 1.009                  | 136,079     | 10,916               | 1,485,380   |
| 2014 | 139,489      | 1.015                  | 141,593     | 11,190               | 1,584,431   |
| 2015 | 142,902      | 1.027                  | 146,771     | 11,451               | 1,680,664   |
| 2016 | 141,505      | 1.058                  | 149,774     | 11,862               | 1,776,695   |
| 2017 | 115,674      | 1.328                  | 153,616     | 12,791               | 1,964,875   |

#### Projected Based on 2-Year Average of 2016 and 2017:

|          |                                 | Ult. ALAE per              |                              |
|----------|---------------------------------|----------------------------|------------------------------|
|          | Ult. Ind. Counts <sup>[4]</sup> | Ind. Counts <sup>[5]</sup> | Ultimate ALAE <sup>[6]</sup> |
| 2018     | 149,949                         | 13,066                     | 1,959,301                    |
| 4/1/2019 | 147,558                         | 13,457                     | 1,985,623                    |

| (a) Projected ALAE Incurred (\$000):   | 1,985,623  |
|--|------------|
| (b) Calendar Year 2017 Earned Premium <sup>[7]</sup> (\$000):                    | 17,651,880 |
| (c) Projected Loss to Industry Average Filed Pure Premium Ratio <sup>[8]</sup> : | 0.581      |
| (d) Premium Adjustment Factor for Calendar Year 2017 <sup>[9]</sup> :            | 0.977      |
| (e) Projected Losses (\$000): (b) x (c) x (d)                                    | 10,023,173 |
| (f) Ratio of ALAE to Losses Prior to Impact of SB 1160 and AB 1244: (a) / (e)    | 19.8%      |
| (g) Impact of SB 1160 and AB 1244 <sup>[10]</sup>                                | -6.4%      |
| (h) Projected Ratio of ALAE to Losses after Impact of SB 1160 and AB 1244:       |            |
| $(f) \times [1.0 + (g)]$   | 18.5%      |

#### Notes:

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

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

<sup>[3]</sup> Based on estimated ultimate ALAE per indemnity for private insures from Exhibit 2.2.

- <sup>[4]</sup> Estimated based on projected frequency trends for accident years 2018 and 2019. The estimated frequency changes are based on the projected growth in overall indemnity claim frequency. These frequency trends were then applied to the ultimate indemnity claim counts estimated from averaging 2016 and 2017.
- <sup>[5]</sup> Severity is projected by applying an annual growth rate of 4.0%, which is based on the approximate average of the private insurers selected rate of growth in (i) estimated ultimate accident year ALAE severities from Exhibit 2.2 and (ii) paid ALAE per open indemnity claim from Exhibit 3, to the ultimate ALAE severity estimated from averaging 2016 and 2017.

<sup>[6]</sup> Column(6) x Column(7) / 1,000.

<sup>[7]</sup> Based on the reported earned premium for calendar year 2017 from the same group of insurers that reported the paid ALAE in column (1) and the indemnity claim counts in column (4) by accident year as of December 31, 2017.

<sup>[8]</sup> See Exhibit 8 of Agenda Item AC18-03-02.

<sup>[9]</sup> See Exhibit 8 of Agenda Item AC18-03-02.

<sup>[10]</sup> Based on Attachment C of the WCIRB's Amended January 1, 2017 Pure Premium Rate Filing and an updated 40% reduction in lien filings.

|  | Private Insurer                 |               | Statewide                                    |  |  |  |  |  |  |  |  |
|--|---------------------------------|---------------|--|--|--|--|--|--|--|--|--|
|  | Paid MCCP                       |               | Paid MCCP                                    |  |  |  |  |  |  |  |  |
| Calendar                                     | per Indemnity Claim Adjusted to | Year-to-Year  | per Indemnity Claim Adjusted to Year-to-Year |  |  |  |  |  |  |  |  |
| <u>Year</u>                                  | Remove IMR/IBR Fees             | <u>Change</u> | Remove IMR/IBR Fees Change                   |  |  |  |  |  |  |  |  |
| 2005   | \$469                           |               |  |  |  |  |  |  |  |  |  |
| 2006   | \$559                           | 19.3%         |  |  |  |  |  |  |  |  |  |
| 2007   | \$631                           | 12.8%         | \$433  |  |  |  |  |  |  |  |  |
| 2008   | \$953                           | 51.0%         | \$673 55.4%                                  |  |  |  |  |  |  |  |  |
| 2009   | \$830                           | -13.0%        | \$665 -1.2%                                  |  |  |  |  |  |  |  |  |
| 2010   | \$888                           | 7.0%          | \$733 10.2%                                  |  |  |  |  |  |  |  |  |
| 2011   | \$931                           | 4.8%          | \$786 7.1%                                   |  |  |  |  |  |  |  |  |
| 2012   | \$982                           | 5.5%          | \$841 7.0%                                   |  |  |  |  |  |  |  |  |
| 2013   | \$1,011                         | 2.9%          | \$891 5.9%                                   |  |  |  |  |  |  |  |  |
| 2014   | \$908                           | -10.2%        | \$815 -8.6%                                  |  |  |  |  |  |  |  |  |
| 2015   | \$999                           | 10.0%         | \$902 10.8%                                  |  |  |  |  |  |  |  |  |
| 2016   | \$1,008                         | 0.9%          | \$915 1.4%                                   |  |  |  |  |  |  |  |  |
| Estimated Annual Exponential Trend Based on: |                                 |               |  |  |  |  |  |  |  |  |  |
| 2005-2016                                    |                                 | 6.1%          |  |  |  |  |  |  |  |  |  |
| R <sup>2</sup>                               |                                 | 0.685         |  |  |  |  |  |  |  |  |  |
| 2009-2016                                    |                                 | 2.3%          | 4.2%   |  |  |  |  |  |  |  |  |
| R <sup>2</sup>                               |                                 | 0.605         | 0.813  |  |  |  |  |  |  |  |  |

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

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

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

# Estimated Ultimate MCCP Per Indemnity Claim - Statewide

|          |   |                        |             |           |                        |             | Estimated          |               |
|----------|---|------------------------|-------------|-----------|------------------------|-------------|--------------------|---------------|
|          | Paid  |                        |             | Indemnity | Cumulative             |             | Ultimate           |               |
|          | MCCP  | Cumulative             | Estimated   | Claim     | Count                  | Estimated   | MCCP Per           |               |
| Accident | @12/31/17                                       | Development            | Ultimate    | Counts    | Development            | Ultimate    | Indemnity          | Annual        |
| Year     | <u>(in \$000)</u>                               | Factors <sup>[1]</sup> | MCCP        | @12/31/17 | Factors <sup>[2]</sup> | Ind. Counts | <u>Claim</u>       | <u>change</u> |
|          | (1)   | (2)                    | (3)=(1)x(2) | (4)       | (5)                    | (6)=(4)x(5) | (7)=(3)/(6) x 1000 |               |
| 2011     | 304,977   | 1.481                  | 451,664     | 120,311   | 1.004                  | 120,779     | 3,740              |               |
| 2012     | 280,001   | 1.553                  | 434,788     | 127,215   | 1.006                  | 127,951     | 3,398              | -9.1%         |
| 2013     | 261,926   | 1.639                  | 429,426     | 134,824   | 1.009                  | 136,079     | 3,156              | -7.1%         |
| 2014     | 242,755   | 1.777                  | 431,347     | 139,489   | 1.015                  | 141,593     | 3,046              | -3.5%         |
| 2015     | 209,895   | 2.035                  | 427,222     | 142,902   | 1.027                  | 146,771     | 2,911              | -4.5%         |
| 2016     | 154,314   | 2.648                  | 408,575     | 141,505   | 1.058                  | 149,774     | 2,728              | -6.3%         |
| 2017     | 65,206  | 6.377                  | 415,828     | 115,674   | 1.328                  | 153,616     | 2,707              | -0.8%         |
|          |   |                        |             |           |                        |             |                    |               |
|          | Estimated Annual Exponential Trend 2012 - 2017: |                        |             |           |                        |             |                    | -4.5%         |
|          |   |                        |             |           |                        |             |                    |               |

Notes:

- [1] Based on MCCP development through 72 months from Exhibit 7.1. 84-to-ultimate development factor is based on selected paid medical development factors from Exhibit 3.2 of Agenda Item AC18-03-02.
- [2] Based on the latest year indemnity claim count age-to-age development from Exhibit 4.1.

#### Paid MCCP Development Factors - Statewide

|    |      |    |       | Quarterl    | y Development | t           |             |       |
|----|------|----|-------|-------------|---------------|-------------|-------------|-------|
| Aa | e in |    |       |             | Accident      | Year        |             |       |
|    | nths |    | 2012  | <u>2013</u> | <u>2014</u>   | <u>2015</u> | <u>2016</u> | 2017  |
| 3  | -    | 6  | 5.634 | 5.808       | 6.037         | 5.591       | 6.063       | 5.484 |
| 6  | -    | 9  | 2.377 | 2.422       | 2.361         | 2.447       | 2.387       | 2.387 |
| 9  | -    | 12 | 1.762 | 1.770       | 1.738         | 1.740       | 1.713       | 1.780 |
| 12 | -    | 15 | 1.474 | 1.411       | 1.444         | 1.467       | 1.477       |       |
| 15 | -    | 18 | 1.279 | 1.252       | 1.278         | 1.279       | 1.241       |       |
| 18 | -    | 21 | 1.170 | 1.155       | 1.179         | 1.174       | 1.169       |       |
| 21 | -    | 24 | 1.128 | 1.119       | 1.117         | 1.117       | 1.124       |       |
| 24 | -    | 27 | 1.083 | 1.098       | 1.117         | 1.095       |             |       |
| 27 | -    | 30 | 1.077 | 1.081       | 1.089         | 1.072       |             |       |
| 30 | -    | 33 | 1.050 | 1.067       | 1.068         | 1.061       |             |       |
| 33 | -    | 36 | 1.045 | 1.054       | 1.052         | 1.045       |             |       |
| 36 | -    | 39 | 1.047 | 1.054       | 1.043         |             |             |       |
| 39 | -    | 42 | 1.035 | 1.044       | 1.036         |             |             |       |
| 42 | -    | 45 | 1.035 | 1.035       | 1.033         |             |             |       |
| 45 | -    | 48 | 1.031 | 1.027       | 1.026         |             |             |       |
| 48 | -    | 51 | 1.031 | 1.023       |               |             |             |       |
| 51 | -    | 54 | 1.025 | 1.023       |               |             |             |       |
| 54 | -    | 57 | 1.022 | 1.019       |               |             |             |       |
| 57 | -    | 60 | 1.017 | 1.016       |               |             |             |       |
| 60 | -    | 63 | 1.015 |             |               |             |             |       |
| 63 | -    | 66 | 1.016 |             |               |             |             |       |
| 66 | -    | 69 | 1.013 |             |               |             |             |       |
| 69 | -    | 72 | 1.011 |             |               |             |             |       |

|  |                                | Annual                         | Development                    |                                |                                |                         |
|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------|
| Age in   |                                |                                | Accident                       | Year                           |                                |                         |
| Months   | <u>2012</u>                    | <u>2013</u>                    | <u>2014</u>                    | <u>2015</u>                    | <u>2016</u>                    |                         |
| 12 - 24  | 2.489                          | 2.282                          | 2.430                          | 2.461                          | 2.409                          |                         |
| 24 - 36  | 1.279                          | 1.334                          | 1.367                          | 1.301                          |                                |                         |
| 36 - 48  | 1.157                          | 1.169                          | 1.145                          |                                |                                |                         |
| 48 - 60  | 1.097                          | 1.084                          |                                |                                |                                |                         |
| 60 - 72  | 1.056                          |                                |                                |                                |                                |                         |
| Age-to-Age <sup>[1]</sup><br>Age -to-Ult. <sup>[2]</sup> | <u>12-24</u><br>2.409<br>6.377 | <u>24-36</u><br>1.301<br>2.648 | <u>36-48</u><br>1.145<br>2.035 | <u>48-60</u><br>1.084<br>1.777 | <u>60-72</u><br>1.056<br>1.639 | <u>72-Ult.</u><br>1.553 |

Notes:

[1] Based on Latest Year.

[2] 72-to-Ult. is based on selected paid medical 72-to-ultimate development factor on Exhibit 3.2 of Agenda Item AC18-03-02.

Source: WCIRB quarterly calls for experience.

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

Based on Estimated Accident Year Indemnity Claim Frequency and MCCP Severity For Policies with Effective Dates between July 1, 2018 and December 31, 2018

|          | Paid              |                        |             | Indemnity        | Cumulative             |             | Estimated<br>Ultimate |               |
|----------|-------------------|------------------------|-------------|------------------|------------------------|-------------|-----------------------|---------------|
|          | MCCP              | Cumulative             | Estimated   | Claim            | Count                  | Estimated   | MCCP Per              |               |
| Accident | @12/31/17         | Development            | Ultimate    | Counts           | Development            | Ultimate    | Indemnity             | Annual        |
| Year     | <u>(in \$000)</u> | Factors <sup>[1]</sup> | MCCP        | <u>@12/31/17</u> | Factors <sup>[2]</sup> | Ind. Counts | <u>Claim</u>          | <u>change</u> |
|          | (1)               | (2)                    | (3)=(1)x(2) | (4)              | (5)                    | (6)=(4)x(5) | (7)=(3)/(6) x 1000    |               |
| 2011     | 304,977           | 1.481                  | 451,664     | 120,311          | 1.004                  | 120,779     | 3,740                 |               |
| 2012     | 280,001           | 1.553                  | 434,788     | 127,215          | 1.006                  | 127,951     | 3,398                 | -9.1%         |
| 2013     | 261,926           | 1.639                  | 429,426     | 134,824          | 1.009                  | 136,079     | 3,156                 | -7.1%         |
| 2014     | 242,755           | 1.777                  | 431,347     | 139,489          | 1.015                  | 141,593     | 3,046                 | -3.5%         |
| 2015     | 209,895           | 2.035                  | 427,222     | 142,902          | 1.027                  | 146,771     | 2,911                 | -4.5%         |
| 2016     | 154,314           | 2.648                  | 408,575     | 141,505          | 1.058                  | 149,774     | 2,728                 | -6.3%         |
| 2017     | 65,206            | 6.377                  | 415,828     | 115,674          | 1.328                  | 153,616     | 2,707                 | -0.8%         |

Projected Based on 2-Year Average of 2016 and 2017:

|          |                              |                                 | Ult.MCCP per               |
|----------|------------------------------|---------------------------------|----------------------------|
|          | Ultimate MCCP <sup>[5]</sup> | Ult. Ind. Counts <sup>[3]</sup> | Ind. Counts <sup>[4]</sup> |
| 2018     | 407,477                      | 149,949                         | 2,717                      |
| 4/1/2019 | 400,981                      | 147,558                         | 2,717                      |

| (a) Projected MCCP (\$000):  | 400,981    |
|--|------------|
| (b) Calendar Year 2017 Earned Premium <sup>[6]</sup> (\$000):                    | 17,651,880 |
| (c) Projected Loss to Industry Average Filed Pure Premium Ratio <sup>[7]</sup> : | 0.581      |
| (d) Premium Adjustment Factor for Calendar Year 2017 <sup>[8]</sup> :            | 0.977      |
| (e) Projected Losses (\$000): (b) x (c) x (d)                                    | 10,023,173 |
| (f) Projected Ratio of MCCP to Losses: (a)/(e)                                   | 4.0%       |

Notes:

[1] Based on MCCP development through 72 months from Exhibit 7.1. 84-to-ultimate development factor is based on selected paid medical development factors from Exhibit 3.2 of Agenda Item AC18-03-02.

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

[3] Estimated based on projected frequency trends for accident years 2018 and 2019. The estimated frequency changes are based on the projected growth in total or overall indemnity claim frequency. These frequency trends were then applied to the ultimate indemnity claim counts estimated from averaging 2016 and 2017.

[4] Severity is projected by applying an annual growth rate of 0% to the ultimate MCCP severity estimated from averaging 2016 and 2017.

[5] Column(6) x Column(7) / 1,000.

[6] Based on the reported earned premium for calendar year 2017 from the same group of insurers that reported the paid MCCP in column (1) and the indemnity claim counts in column (4) by accident year as of December 31, 2017.

[7] See Exhibit 8 of Agenda Item AC18-03-02.

[8] See Exhibit 5.2 of Agenda Item AC18-03-02.

## Item AC18-04-02 12/31/2017 Experience – Alternative Loss Projections

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

#### Loss Development Methodologies

The loss development projections based on the methodology reflected in the WCIRB's summary analysis of December 31, 2017 experience, included in Item AC18-03-02 of this Agenda, were based on a combination of (a) latest year reform-adjusted paid loss development factors through 108 months with adjustments for changes in claim settlement rates applied through 84 months, (b) three-year average reform-adjusted paid loss development factors from 108 months, and (c) six-year average (unadjusted) incurred loss development factors after 240 months. Attached for the Committee's review are a number of alternative loss development projections based on methodologies that have been included, for informational purposes, in prior pure premium rate filing materials or have been discussed at prior meetings. Specifically, alternative loss ratio projections, based on December 31, 2017 experience, derived using the following loss development methodologies and the trending methodology reflected in the analysis included in Item AC18-03-02 of this Agenda are included:<sup>1</sup>

- 1. 3-Year Average Unadjusted Incurred Loss Development Exhibits 1.1 through 1.3.
- 2. Latest Year Unadjusted Incurred Loss Development Exhibits 2.1 through 2.3.
- 3. Latest Year Incurred Loss Development Adjusted for Changes in Case Reserve Levels Exhibits 3.1 through 3.11.
- 4. 3-Year Average Unadjusted Paid Loss Development Exhibits 4.1 through 4.3.
- 5. Latest Year Unadjusted Paid Loss Development Exhibits 5.1 through 5.3.
- 6. Latest Year Paid Loss Development Adjusted for Reforms Exhibits 6.1 through 6.3.
- 7. 3-Year Average Paid Loss Development Adjusted for Changes in Claim Settlement Rates and Reforms Exhibits 7.1 through 7.3.

A summary of the July 1, 2018 through December 31, 2018 policy period loss ratio projections based on the alternative loss development methodologies described above is shown in Table 1.

<sup>&</sup>lt;sup>1</sup> All methodologies reflect three-year average loss development factors applied after 108 months. All paid loss development methodologies reflect six-year average incurred loss development factors applied after 240 months. Methodologies adjusted for reforms include the impacts of SB 863, SB 1160 and AB 1244.

# Table 1: Projected Loss Ratios for Policies Incepting between July 1, 2018 and December 31, 2018 Based on Alternative Loss Development Methodologies<sup>2</sup>

| Loss Development Methodologies   | Indemnity<br>Loss Ratio | Medical<br>Loss Ratio | Total<br>Loss Ratio |
|--|-------------------------|-----------------------|---------------------|
| 1/1/2018 Filing Methodology  |                         |                       |                     |
| Latest Year Adjusted for Reforms and Changes in<br>Claim Settlement Rates    | 0.253                   | 0.328                 | 0.581               |
| Alternative Methodologies  |                         |                       |                     |
| Incurred Methodologies   |                         |                       |                     |
| 3-Year Average (Unadjusted)  | 0.234                   | 0.295                 | 0.529               |
| Latest Year (Unadjusted)   | 0.231                   | 0.280                 | 0.511               |
| Latest Year Adjusted for Changes in Case Reserve Levels                      | 0.234                   | 0.283                 | 0.517               |
| Paid Methodologies   |                         |                       |                     |
| 3-Year Average (Unadjusted)  | 0.260                   | 0.355                 | 0.615               |
| Latest Year (Unadjusted)   | 0.255                   | 0.337                 | 0.592               |
| Latest Year Adjusted for Reforms   | 0.269                   | 0.342                 | 0.611               |
| 3-Year Average Adjusted for Changes in Claim<br>Settlement Rates and Reforms | 0.259                   | 0.350                 | 0.609               |

### Trending Methodologies

The trending projections reflected in the summary analysis of December 31, 2017 experience, included in Item AC18-03-02 of this Agenda, were based on the average of the latest two years' on-level loss ratios with separate projections of claim frequency and claim severity growth applied. The claim frequency growth estimates were based on the preliminary 12-month frequency change for accident year 2017 and the WCIRB's claim frequency model forecasts for accident years 2018 and 2019. The severity growth estimates were based on a review of longer-term and more recent indemnity and medical severity growth rates.

Attached for the Committee's review are a number of alternative trending projections based on methodologies that have been included, for informational purposes, in prior advisory pure premium rate filing materials or have been discussed at prior meetings. Specifically, alternative loss ratio projections, based on December 31, 2017 experience, derived using the loss development methodologies reflected in the analysis included in Item AC18-03-02 of this Agenda and the following trending methodologies have been included:

1. Separate Projections of Frequency and Severity Growth Applied to the Latest Year Only – Exhibits 8.1 and 8.2.

<sup>&</sup>lt;sup>2</sup> All methodologies reflect three-year average loss development factors applied after 108 months. All paid loss development methodologies reflect six-year average incurred loss development factors applied after 240 months. Methodologies adjusted for reforms include the impacts of SB 863, SB 1160 and AB 1244.

- 2. 5-Year On-Level Loss Ratio Exponential Trend Applied to the Latest Two Years' Loss Ratios and then Averaged Exhibits 9.1 and 9.2.
- 3. 5-Year On-Level Loss Ratio Exponential Trend Applied to the Latest Year Only Exhibits 10.1 and 10.2.
- 4. 5-Year Fitted On-Level Loss Ratio Exponential Trend Exhibits 11.1 and 11.2.

A summary of the July 1, 2018 through December 31, 2018 policy period loss ratio projections based on the alternative trending methodologies is shown in Table 2.

## Table 2: Projected Loss Ratios for Policies Incepting between July 1, 2018 and December 31, 2018 Based on Alternative Trending Methodologies

| Trending Methodologies   | Indemnity<br>Loss Ratio | Medical<br>Loss Ratio | Total Loss<br>Ratio |
|--|-------------------------|-----------------------|---------------------|
| 1/1/2018 Filing Methodology  |                         |                       |                     |
| Separate Projections of Frequency and Severity, with<br>Indemnity Severity at 0% and Medical Severity at +3%,<br>Applied to the Latest Two Years | 0.253                   | 0.328                 | 0.581               |
| Alternative Methodologies  |                         |                       |                     |
| Separate Projections of Frequency and Severity Applied to the Latest Year  | 0.251                   | 0.329                 | 0.580               |
| 5-Year On-level Loss Ratio Exponential Trend Applied to the Latest Two Years   | 0.246                   | 0.307                 | 0.553               |
| 5-Year On-level Loss Ratio Exponential Trend Applied to the Latest Year  | 0.247                   | 0.315                 | 0.562               |
| 5-Year Fitted On-level Loss Ratio Exponential Trend  | 0.248                   | 0.308                 | 0.556               |

|          | (1)        | (2)         | (3)         | (4)        | (5)        | (6)         | (7)         | (8)        | (9)        |
|----------|------------|-------------|-------------|------------|------------|-------------|-------------|------------|------------|
| _        |            | Inden       | nnity       |            |            | Med         | ical        |            |            |
| _        | Reported   |             |             |            | Reported   |             |             |            |            |
|          | Incurred   | Annual      | Cumulative  |            | Incurred   | Annual      | Cumulative  |            | Total      |
| Accident | Loss Ratio | Development | Development | Developed  | Loss Ratio | Development | Development | Developed  | Developed  |
| Year     | Ex IBNR(a) | Factor(b)   | Factor      | Loss Ratio | Ex IBNR(a) | Factor(c)   | Factor      | Loss Ratio | Loss Ratio |
|          |            |             | (1) x (3)   |            |            |             |             | (5) x (7)  | (4) + (8)  |
| 2006     | 0.157      | 1.004       | 1.021       | 0.160      | 0.233      | 1.008       | 1.064       | 0.248      | 0.409      |
| 2007     | 0.214      | 1.006       | 1.027       | 0.220      | 0.327      | 1.009       | 1.073       | 0.351      | 0.571      |
| 2008     | 0.270      | 1.007       | 1.034       | 0.279      | 0.402      | 1.011       | 1.085       | 0.437      | 0.716      |
| 2009     | 0.311      | 1.012       | 1.046       | 0.325      | 0.462      | 1.016       | 1.103       | 0.509      | 0.834      |
| 2010     | 0.294      | 1.013       | 1.059       | 0.311      | 0.441      | 1.012       | 1.115       | 0.492      | 0.803      |
| 2011     | 0.269      | 1.018       | 1.078       | 0.290      | 0.377      | 1.018       | 1.136       | 0.428      | 0.718      |
| 2012     | 0.236      | 1.024       | 1.104       | 0.260      | 0.316      | 1.024       | 1.162       | 0.367      | 0.628      |
| 2013     | 0.195      | 1.041       | 1.149       | 0.224      | 0.249      | 1.037       | 1.205       | 0.300      | 0.524      |
| 2014     | 0.176      | 1.059       | 1.218       | 0.215      | 0.212      | 1.055       | 1.271       | 0.269      | 0.484      |
| 2015     | 0.159      | 1.113       | 1.356       | 0.215      | 0.192      | 1.086       | 1.380       | 0.264      | 0.479      |
| 2016     | 0.122      | 1.266       | 1.716       | 0.209      | 0.163      | 1.152       | 1.590       | 0.259      | 0.468      |
| 2017     | 0.067      | 1.957       | 3.359       | 0.224      | 0.118      | 1.511       | 2.402       | 0.283      | 0.507      |

#### Developed Loss Ratio Unadjusted 3-Year Average Incurred Development Factors Based on Experience as of December 31, 2017

(a) Based on AC18-03-02, Exhibit 1. Accident years 2011 and subsequent do not reflect the paid cost of medical cost containment programs (MCCP). Accident years 2010 and prior do reflect paid MCCP costs. No adjustment has been made to MCCP costs in medical reserves.

(b) Based on AC18-03-02, Exhibit 2.1.

(c) Based on AC18-03-02, Exhibit 2.2.

#### Projected On-Level Accident Year Indemnity Loss to Industry Average Filed Pure Premium Ratios Using Unadjusted 3-Year Average Incurred Development Factors Based on Experience as of December 31, 2017

|                         | (1)                                  | (2)   | (3)                                       | (4)<br>On-Level Indemnity to   |
|-------------------------|--------------------------------------|---|---|--|
| Accident<br><u>Year</u> | Developed Indemnity<br>Loss Ratio(a) | Composite Indemnity<br>Adjustment Factor(b) | Composite Premium<br>Adjustment Factor(c) | Industry Average Filed<br><u>Pure Premium Ratio</u><br>(1) x (2) ÷ (3) |
| 2006                    | 0.160                                | 1.486                                       | 0.956                                     | 0.249  |
| 2007                    | 0.220                                | 1.439                                       | 1.222                                     | 0.259  |
| 2008                    | 0.279                                | 1.356                                       | 1.476                                     | 0.257  |
| 2009                    | 0.325                                | 1.329                                       | 1.591                                     | 0.271  |
| 2010                    | 0.311                                | 1.311                                       | 1.446                                     | 0.282  |
| 2011                    | 0.290                                | 1.290                                       | 1.321                                     | 0.283  |
| 2012                    | 0.260                                | 1.260                                       | 1.177                                     | 0.279  |
| 2013                    | 0.224                                | 1.220                                       | 1.028                                     | 0.266  |
| 2014                    | 0.215                                | 1.105                                       | 0.948                                     | 0.250  |
| 2015                    | 0.215                                | 1.077                                       | 0.905                                     | 0.256  |
| 2016                    | 0.209                                | 1.064                                       | 0.926                                     | 0.240  |
| 2017                    | 0.224                                | 1.043                                       | 0.977                                     | 0.239  |

Projected (d)

0.237

0.234

2018 4/1/2019

(a) See Exhibit 1.1.

(b) Based on AC18-03-02, Exhibit 4.1.

(c) See AC18-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC18-03-02, Exhibit 6.2, the actual frequency trend for accident year 2017 from AC18-03-02, Exhibit 12, and projected frequency trends for accident years 2018 and 2019 from AC18-03-02, Exhibit 6.1; these trends were then separately applied to the 2016 and 2017 on-level ratios.

#### Projected On-Level Accident Year Medical Loss to Industry Average Filed Pure Premium Ratios Using Unadjusted 3-Year Average Incurred Development Factors Based on Experience as of December 31, 2017

|                         | (1)                                | (2)                                       | (3)                                       | (4)  |
|-------------------------|------------------------------------|---|---|--|
| Accident<br><u>Year</u> | Developed Medical<br>Loss Ratio(a) | Composite Medical<br>Adjustment Factor(b) | Composite Premium<br>Adjustment Factor(c) | On-Level Medical to<br>Industry Average Filed<br><u>Pure Premium Ratio(e)</u><br>(1) x (2) ÷ (3) |
| 2006                    | 0.248                              | 0.861                                     | 0.956                                     | 0.224  |
| 2007                    | 0.351                              | 0.866                                     | 1.222                                     | 0.249  |
| 2008                    | 0.437                              | 0.866                                     | 1.476                                     | 0.256  |
| 2009                    | 0.509                              | 0.854                                     | 1.591                                     | 0.273  |
| 2010                    | 0.492                              | 0.851                                     | 1.446                                     | 0.289  |
| 2011                    | 0.428                              | 0.866                                     | 1.321                                     | 0.281  |
| 2012                    | 0.367                              | 0.893                                     | 1.177                                     | 0.279  |
| 2013                    | 0.300                              | 0.958                                     | 1.028                                     | 0.280  |
| 2014                    | 0.269                              | 0.998                                     | 0.948                                     | 0.284  |
| 2015                    | 0.264                              | 0.997                                     | 0.905                                     | 0.291  |
| 2016                    | 0.259                              | 0.994                                     | 0.926                                     | 0.278  |
| 2017                    | 0.283                              | 0.991                                     | 0.977                                     | 0.287  |

Projected (d) 0.293

0.295

2018 4/1/2019

(a) See Exhibit 1.1.

(b) Based on AC18-03-02, Exhibit 4.4.

(c) See AC18-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual medical severity trend from AC18-03-02, Exhibit 6.4, the actual frequency trend for accident year 2017 from AC18-03-02, Exhibit 12, and projected frequency trends for accident years 2018 and 2019 from AC18-03-02, Exhibit 6.1; these trends were then separately applied to the 2016 and 2017 on-level ratios.

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

|                         | (1)                             | (2)<br>Inden             | (3)<br>nnity                              | (4)                     | (5)                             | (6)<br>Med               | (7)<br>ical           | (8)                                  | (9)                                  |
|-------------------------|---------------------------------|--------------------------|---|-------------------------|---------------------------------|--------------------------|-----------------------|--------------------------------------|--------------------------------------|
|                         | Reported<br>Incurred            | Annual                   | Cumulative                                |                         | Reported<br>Incurred            | Annual                   | Cumulative            |                                      | Total                                |
| Accident<br><u>Year</u> | Loss Ratio<br><u>Ex IBNR(a)</u> | Development<br>Factor(b) | Development<br><u>Factor</u><br>(1) x (3) | Developed<br>Loss Ratio | Loss Ratio<br><u>Ex IBNR(a)</u> | Development<br>Factor(c) | Development<br>Factor | Developed<br>Loss Ratio<br>(5) x (7) | Developed<br>Loss Ratio<br>(4) + (8) |
| 2006                    | 0.157                           | 1.004                    | 1.021                                     | 0.160                   | 0.233                           | 1.008                    | 1.064                 | 0.248                                | 0.409                                |
| 2007                    | 0.214                           | 1.006                    | 1.027                                     | 0.220                   | 0.327                           | 1.009                    | 1.073                 | 0.351                                | 0.571                                |
| 2008                    | 0.270                           | 1.007                    | 1.034                                     | 0.279                   | 0.402                           | 1.011                    | 1.085                 | 0.437                                | 0.716                                |
| 2009                    | 0.311                           | 1.012                    | 1.046                                     | 0.325                   | 0.462                           | 1.016                    | 1.103                 | 0.509                                | 0.834                                |
| 2010                    | 0.294                           | 1.014                    | 1.061                                     | 0.312                   | 0.441                           | 1.007                    | 1.110                 | 0.490                                | 0.801                                |
| 2011                    | 0.269                           | 1.016                    | 1.078                                     | 0.289                   | 0.377                           | 1.012                    | 1.124                 | 0.423                                | 0.713                                |
| 2012                    | 0.236                           | 1.022                    | 1.101                                     | 0.260                   | 0.316                           | 1.016                    | 1.142                 | 0.361                                | 0.621                                |
| 2013                    | 0.195                           | 1.041                    | 1.146                                     | 0.223                   | 0.249                           | 1.031                    | 1.177                 | 0.293                                | 0.517                                |
| 2014                    | 0.176                           | 1.054                    | 1.208                                     | 0.213                   | 0.212                           | 1.040                    | 1.224                 | 0.259                                | 0.472                                |
| 2015                    | 0.159                           | 1.115                    | 1.347                                     | 0.214                   | 0.192                           | 1.079                    | 1.321                 | 0.253                                | 0.467                                |
| 2016                    | 0.122                           | 1.261                    | 1.699                                     | 0.207                   | 0.163                           | 1.147                    | 1.515                 | 0.247                                | 0.454                                |
| 2017                    | 0.067                           | 1.943                    | 3.301                                     | 0.220                   | 0.118                           | 1.499                    | 2.271                 | 0.268                                | 0.488                                |

#### Developed Loss Ratio Unadjusted Latest Year Incurred Development Factors Based on Experience as of December 31, 2017

(a) Based on AC18-03-02, Exhibit 1. Accident years 2011 and subsequent do not reflect the paid cost of medical cost containment programs (MCCP). Accident years 2010 and prior do reflect paid MCCP costs. No adjustment has been made to MCCP costs in medical reserves.

(b) Based on AC18-03-02, Exhibit 2.1.

(c) Based on AC18-03-02, Exhibit 2.2.

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

|                         | (1)                                  | (2)   | (3)                                       | (4)   |
|-------------------------|--------------------------------------|---|---|---|
| Accident<br><u>Year</u> | Developed Indemnity<br>Loss Ratio(a) | Composite Indemnity<br>Adjustment Factor(b) | Composite Premium<br>Adjustment Factor(c) | On-Level Indemnity to<br>Industry Average Filed<br><u>Pure Premium Ratio</u><br>(1) x (2) ÷ (3) |
| 2006                    | 0.160                                | 1.486                                       | 0.956                                     | 0.249   |
| 2007                    | 0.220                                | 1.439                                       | 1.222                                     | 0.259   |
| 2008                    | 0.279                                | 1.356                                       | 1.476                                     | 0.257   |
| 2009                    | 0.325                                | 1.329                                       | 1.591                                     | 0.271   |
| 2010                    | 0.312                                | 1.311                                       | 1.446                                     | 0.283   |
| 2011                    | 0.289                                | 1.290                                       | 1.321                                     | 0.283   |
| 2012                    | 0.260                                | 1.260                                       | 1.177                                     | 0.278   |
| 2013                    | 0.223                                | 1.220                                       | 1.028                                     | 0.265   |
| 2014                    | 0.213                                | 1.105                                       | 0.948                                     | 0.248   |
| 2015                    | 0.214                                | 1.077                                       | 0.905                                     | 0.254   |
| 2016                    | 0.207                                | 1.064                                       | 0.926                                     | 0.238   |
| 2017                    | 0.220                                | 1.043                                       | 0.977                                     | 0.235   |

Projected (d) 0.234

0.231

2018 4/1/2019

(a) See Exhibit 2.1.

(b) Based on AC18-03-02, Exhibit 4.1.

(c) See AC18-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC18-03-02, Exhibit 6.2, the actual frequency trend for accident year 2017 from AC18-03-02, Exhibit 12, and projected frequency trends for accident years 2018 and 2019 from AC18-03-02, Exhibit 6.1; these trends were then separately applied to the 2016 and 2017 on-level ratios.

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

|                         | (1)                                | (2)                                       | (3)                                       | (4)  |
|-------------------------|------------------------------------|---|---|--|
| Accident<br><u>Year</u> | Developed Medical<br>Loss Ratio(a) | Composite Medical<br>Adjustment Factor(b) | Composite Premium<br>Adjustment Factor(c) | On-Level Medical to<br>Industry Average Filed<br><u>Pure Premium Ratio(e)</u><br>(1) x (2) ÷ (3) |
| 2006                    | 0.248                              | 0.861                                     | 0.956                                     | 0.224  |
| 2007                    | 0.351                              | 0.866                                     | 1.222                                     | 0.249  |
| 2008                    | 0.437                              | 0.866                                     | 1.476                                     | 0.256  |
| 2009                    | 0.509                              | 0.854                                     | 1.591                                     | 0.273  |
| 2010                    | 0.490                              | 0.851                                     | 1.446                                     | 0.288  |
| 2011                    | 0.423                              | 0.866                                     | 1.321                                     | 0.278  |
| 2012                    | 0.361                              | 0.893                                     | 1.177                                     | 0.274  |
| 2013                    | 0.293                              | 0.958                                     | 1.028                                     | 0.273  |
| 2014                    | 0.259                              | 0.998                                     | 0.948                                     | 0.273  |
| 2015                    | 0.253                              | 0.997                                     | 0.905                                     | 0.279  |
| 2016                    | 0.247                              | 0.994                                     | 0.926                                     | 0.265  |
| 2017                    | 0.268                              | 0.991                                     | 0.977                                     | 0.271  |

Projected (d) 0.278

0.280

2018 4/1/2019

(a) See Exhibit 2.1.

(b) Based on AC18-03-02, Exhibit 4.4.

(c) See AC18-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual medical severity trend from AC18-03-02, Exhibit 6.4, the actual frequency trend for accident year 2017 from AC18-03-02, Exhibit 12, and projected frequency trends for accident years 2018 and 2019 from AC18-03-02, Exhibit 6.1; these trends were then separately applied to the 2016 and 2017 on-level ratios.

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

#### A. Indemnity Case Reserves Per Open Claim

| Accident | Evaluated as of (in months) |           |           |           |           |           |        |  |  |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|--------|--|--|
| Year     | 12                          | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84     |  |  |
| 2006     |                             |           |           |           |           |           | 22,095 |  |  |
| 2007     |                             |           |           |           |           | 19,889    | 23,912 |  |  |
| 2008     |                             |           |           |           | 18,178    | 20,795    | 23,237 |  |  |
| 2009     |                             |           |           | 16,543    | 18,787    | 21,050    | 22,535 |  |  |
| 2010     |                             |           | 14,380    | 16,232    | 17,878    | 19,803    | 21,945 |  |  |
| 2011     |                             | 12,649    | 14,737    | 17,101    | 18,821    | 20,710    | 22,724 |  |  |
| 2012     | 8,203                       | 12,471    | 14,660    | 16,172    | 18,365    | 20,656    |        |  |  |
| 2013     | 8,525                       | 12,429    | 14,268    | 15,677    | 17,358    |           |        |  |  |
| 2014     | 8,409                       | 12,765    | 14,959    | 17,079    |           |           |        |  |  |
| 2015     | 8,896                       | 13,694    | 16,436    |           |           |           |        |  |  |
| 2016     | 9,128                       | 14,080    |           |           |           |           |        |  |  |
| 2017     | 9,611                       |           |           |           |           |           |        |  |  |

#### B. Average Paid Indemnity per Closed Claim Adjusted to Common Benefit Level (a)

| Accident          | Evaluated as of (in months) |       |           |           |           |           |        |  |
|-------------------|-----------------------------|-------|-----------|-----------|-----------|-----------|--------|--|
| Year              | <u>12</u>                   | 24    | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84     |  |
| 2006              |                             |       |           |           |           |           | 18,401 |  |
| 2007              |                             |       |           |           |           | 17,615    | 19,688 |  |
| 2008              |                             |       |           |           | 16,348    | 19,185    | 21,017 |  |
| 2009              |                             |       |           | 13,840    | 17,551    | 20,144    | 22,260 |  |
| 2010              |                             |       | 9,774     | 14,321    | 17,774    | 20,258    | 22,313 |  |
| 2011              |                             | 5,338 | 10,259    | 14,564    | 17,813    | 20,151    | 21,946 |  |
| 2012              | 2,126                       | 5,849 | 10,614    | 14,656    | 17,640    | 19,837    |        |  |
| 2013              | 2,369                       | 6,025 | 10,808    | 14,676    | 17,441    |           |        |  |
| 2014              | 2,223                       | 5,857 | 10,576    | 14,319    |           |           |        |  |
| 2015              | 2,377                       | 6,258 | 11,025    |           |           |           |        |  |
| 2016              | 2,492                       | 6,556 |           |           |           |           |        |  |
| 2017              | 2,581                       |       |           |           |           |           |        |  |
| Annual Trend (b): | 3.5%                        | 3.5%  | 2.1%      | 0.7%      | 1.0%      | 2.2%      | 3.8%   |  |

C. Indemnity Case Reserves per Open Claim Adjusted by Paid Indemnity Severity Trend (c)

| Accident | Evaluated as of (in months) |        |           |           |           |           |        |  |  |
|----------|-----------------------------|--------|-----------|-----------|-----------|-----------|--------|--|--|
| Year     | <u>12</u>                   | 24     | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84     |  |  |
| 2006     |                             |        |           |           |           |           | 23,952 |  |  |
| 2007     |                             |        |           |           |           | 21,261    | 24,551 |  |  |
| 2008     |                             |        |           |           | 17,344    | 21,792    | 25,165 |  |  |
| 2009     |                             |        |           | 15,684    | 17,777    | 22,337    | 25,794 |  |  |
| 2010     |                             |        | 14,712    | 16,077    | 18,222    | 22,896    | 26,439 |  |  |
| 2011     |                             | 12,445 | 15,080    | 16,478    | 18,677    | 23,468    | 27,100 |  |  |
| 2012     | 8,330                       | 12,756 | 15,457    | 16,890    | 19,144    | 24,055    |        |  |  |
| 2013     | 8,539                       | 13,075 | 15,843    | 17,313    | 19,623    |           |        |  |  |
| 2014     | 8,752                       | 13,402 | 16,239    | 17,745    |           |           |        |  |  |
| 2015     | 8,971                       | 13,737 | 16,645    |           |           |           |        |  |  |
| 2016     | 9,195                       | 14,080 |           |           |           |           |        |  |  |
| 2017     | 9,425                       |        |           |           |           |           |        |  |  |

(a) Represents average paid indemnity on closed claims only. All evaluations are brought to the accident year 2016 benefit level based on benefit factors shown in AC18-03-02, Exhibit 4.1, excluding utilization impacts.

(b) Trend is based on a 6-year exponential distribution.

(c) Latest evaluation for each accident year is brought to the accident year 2016 benefit level based on benefit factors shown in AC18-03-02, Exhibit 4.1, excluding utilization impacts. Evaluations prior to the latest evaluation are determined by adjusting the latest accident year average indemnity case reserves by the selected annual paid indemnity severity trend on closed claims (Item B) of 2.5%.

#### D. Indemnity Open Claim Counts

| Accident | Evaluated as of (in months) |        |           |           |           |           |        |  |
|----------|-----------------------------|--------|-----------|-----------|-----------|-----------|--------|--|
| Year     | <u>12</u>                   | 24     | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84     |  |
| 2006     |                             |        |           |           |           |           | 15,575 |  |
| 2007     |                             |        |           |           |           | 19,925    | 14,501 |  |
| 2008     |                             |        |           |           | 25,430    | 18,307    | 13,663 |  |
| 2009     |                             |        |           | 32,840    | 23,560    | 17,418    | 12,950 |  |
| 2010     |                             |        | 45,063    | 31,807    | 22,589    | 16,426    | 11,609 |  |
| 2011     |                             | 58,965 | 43,522    | 30,602    | 21,465    | 15,178    | 10,689 |  |
| 2012     | 68,641                      | 61,195 | 44,482    | 30,702    | 21,075    | 14,510    |        |  |
| 2013     | 73,840                      | 65,059 | 45,991    | 30,609    | 20,182    |           |        |  |
| 2014     | 78,078                      | 66,672 | 46,233    | 30,044    |           |           |        |  |
| 2015     | 80,801                      | 67,866 | 44,838    |           |           |           |        |  |
| 2016     | 80,309                      | 65,152 |           |           |           |           |        |  |
| 2017     | 79,762                      |        |           |           |           |           |        |  |

E. Total Indemnity Case Reserves Adjusted to Common Benefit Level and by Paid Indemnity

| Accident | Evaluated as of (in months) |           |           |           |           |           |         |  |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|---------|--|
| Year     | 12                          | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84      |  |
| 2006     |                             |           |           |           |           |           | 373,061 |  |
| 2007     |                             |           |           |           |           | 423,621   | 356,015 |  |
| 2008     |                             |           |           |           | 441,054   | 398,961   | 343,828 |  |
| 2009     |                             |           |           | 515,081   | 418,827   | 389,070   | 334,030 |  |
| 2010     |                             |           | 662,963   | 511,340   | 411,615   | 376,082   | 306,927 |  |
| 2011     |                             | 733,807   | 656,304   | 504,274   | 400,910   | 356,196   | 289,668 |  |
| 2012     | 571,797                     | 780,598   | 687,550   | 518,569   | 403,466   | 349,032   |         |  |
| 2013     | 630,489                     | 850,631   | 728,642   | 529,923   | 396,029   |           |         |  |
| 2014     | 683,340                     | 893,514   | 750,787   | 533,145   |           |           |         |  |
| 2015     | 724,851                     | 932,253   | 746,337   |           |           |           |         |  |
| 2016     | 738,448                     | 917,346   |           |           |           |           |         |  |
| 2017     | 751,754                     |           |           |           |           |           |         |  |

#### F. Paid Indemnity Loss on All Claims Adjusted to the Common Benefit Level (in \$000) (e)

| Accident | Evaluated as of (in months) |           |           |           |           |           |           |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Year     | <u>12</u>                   | <u>24</u> | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84        |
| 2006     |                             |           |           |           |           |           | 2,987,171 |
| 2007     |                             |           |           |           |           | 2,894,913 | 3,085,995 |
| 2008     |                             |           |           |           | 2,649,722 | 2,894,732 | 3,067,201 |
| 2009     |                             |           |           | 2,190,412 | 2,532,055 | 2,766,289 | 2,933,896 |
| 2010     |                             |           | 1,748,753 | 2,238,449 | 2,566,259 | 2,798,131 | 2,965,539 |
| 2011     |                             | 1,083,140 | 1,744,189 | 2,205,127 | 2,516,630 | 2,733,274 | 2,885,389 |
| 2012     | 359,313                     | 1,131,172 | 1,799,641 | 2,266,107 | 2,574,987 | 2,800,489 |           |
| 2013     | 368,898                     | 1,173,022 | 1,881,124 | 2,367,408 | 2,672,267 |           |           |
| 2014     | 357,224                     | 1,155,745 | 1,891,626 | 2,375,850 |           |           |           |
| 2015     | 375,633                     | 1,231,856 | 1,992,813 |           |           |           |           |
| 2016     | 392,003                     | 1,268,544 |           |           |           |           |           |
| 2017     | 403,146                     |           |           |           |           |           |           |

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

(e) Brought to accident year 2016 benefit level based on benefit factors shown in AC18-03-02, Exhibit 4.1, excluding utilization impacts.

#### G. Adjusted Total Indemnity Incurred (in \$000) (f)

| Accident | Evaluated as of (in months) |           |           |           |           |           |           |
|----------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Year     | 12                          | <u>24</u> | <u>36</u> | 48        | <u>60</u> | <u>72</u> | 84        |
| 2006     |                             |           |           |           |           |           | 3,360,232 |
| 2007     |                             |           |           |           |           | 3,318,534 | 3,442,010 |
| 2008     |                             |           |           |           | 3,090,776 | 3,293,693 | 3,411,030 |
| 2009     |                             |           |           | 2,705,494 | 2,950,882 | 3,155,360 | 3,267,926 |
| 2010     |                             |           | 2,411,715 | 2,749,789 | 2,977,874 | 3,174,212 | 3,272,466 |
| 2011     |                             | 1,816,947 | 2,400,493 | 2,709,402 | 2,917,539 | 3,089,470 | 3,175,057 |
| 2012     | 931,111                     | 1,911,771 | 2,487,191 | 2,784,675 | 2,978,453 | 3,149,522 |           |
| 2013     | 999,387                     | 2,023,653 | 2,609,766 | 2,897,331 | 3,068,296 |           |           |
| 2014     | 1,040,565                   | 2,049,259 | 2,642,414 | 2,908,995 |           |           |           |
| 2015     | 1,100,484                   | 2,164,109 | 2,739,150 |           |           |           |           |
| 2016     | 1,130,451                   | 2,185,890 |           |           |           |           |           |
| 2017     | 1,154,900                   |           |           |           |           |           |           |

#### H. Indemnity Incurred Loss Development Factors Based on Adjusted Total Indemnity Incurred

| Accident    | Age-to-Age Development (in months): |       |       |       |              |       |  |  |
|-------------|-------------------------------------|-------|-------|-------|--------------|-------|--|--|
| Year        | 12-24                               | 24-36 | 36-48 | 48-60 | <u>60-72</u> | 72-84 |  |  |
| 2007        |                                     |       |       |       |              | 1.037 |  |  |
| 2008        |                                     |       |       |       | 1.066        | 1.036 |  |  |
| 2009        |                                     |       |       | 1.091 | 1.069        | 1.036 |  |  |
| 2010        |                                     |       | 1.140 | 1.083 | 1.066        | 1.031 |  |  |
| 2011        |                                     | 1.321 | 1.129 | 1.077 | 1.059        | 1.028 |  |  |
| 2012        | 2.053                               | 1.301 | 1.120 | 1.070 | 1.057        |       |  |  |
| 2013        | 2.025                               | 1.290 | 1.110 | 1.059 |              |       |  |  |
| 2014        | 1.969                               | 1.289 | 1.101 |       |              |       |  |  |
| 2015        | 1.967                               | 1.266 |       |       |              |       |  |  |
| 2016        | 1.934                               |       |       |       |              |       |  |  |
|             |                                     |       |       |       |              |       |  |  |
| Latest Year | 1.934                               | 1.266 | 1.101 | 1.059 | 1.057        | 1.028 |  |  |

I. Indemnity Incurred Loss Development Factors Adjusted to Common Benefit Level (9)

| Accident | Age-to-Age Development (in months): |       |       |       |              |       |  |  |  |
|----------|-------------------------------------|-------|-------|-------|--------------|-------|--|--|--|
| Year     | 12-24                               | 24-36 | 36-48 | 48-60 | <u>60-72</u> | 72-84 |  |  |  |
| 2007     |                                     |       |       |       |              | 1.037 |  |  |  |
| 2008     |                                     |       |       |       | 1.045        | 1.028 |  |  |  |
| 2009     |                                     |       |       | 1.076 | 1.046        | 1.024 |  |  |  |
| 2010     |                                     |       | 1.130 | 1.067 | 1.045        | 1.026 |  |  |  |
| 2011     |                                     | 1.272 | 1.128 | 1.060 | 1.037        | 1.022 |  |  |  |
| 2012     | 1.990                               | 1.267 | 1.111 | 1.064 | 1.041        |       |  |  |  |
| 2013     | 1.932                               | 1.257 | 1.109 | 1.054 |              |       |  |  |  |
| 2014     | 1.963                               | 1.279 | 1.114 |       |              |       |  |  |  |
| 2015     | 1.969                               | 1.261 |       |       |              |       |  |  |  |
| 2016     | 1.943                               |       |       |       |              |       |  |  |  |

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

(g) Development factors are based on incurred losses adjusted to a common benefit level and from the same insurer mix as those which have been adjusted for case reserve level adequacy and applied in the calculation of the development factors in Item H.

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

| Accident | Age-to-Age Development (in months): |              |              |              |              |       |  |  |  |
|----------|-------------------------------------|--------------|--------------|--------------|--------------|-------|--|--|--|
| Year     | <u>12-24</u>                        | <u>24-36</u> | <u>36-48</u> | <u>48-60</u> | <u>60-72</u> | 72-84 |  |  |  |
| 2007     |                                     |              |              |              |              | 0.01% |  |  |  |
| 2008     |                                     |              |              |              | 2.00%        | 0.74% |  |  |  |
| 2009     |                                     |              |              | 1.34%        | 2.25%        | 1.19% |  |  |  |
| 2010     |                                     |              | 0.88%        | 1.51%        | 2.03%        | 0.51% |  |  |  |
| 2011     |                                     | 3.87%        | 0.10%        | 1.61%        | 2.15%        | 0.60% |  |  |  |
| 2012     | 3.18%                               | 2.69%        | 0.73%        | 0.55%        | 1.59%        |       |  |  |  |
| 2013     | 4.83%                               | 2.62%        | 0.07%        | 0.43%        |              |       |  |  |  |
| 2014     | 0.34%                               | 0.78%        | -1.22%       |              |              |       |  |  |  |
| 2015     | -0.13%                              | 0.41%        |              |              |              |       |  |  |  |
| 2016     | -0.48%                              |              |              |              |              |       |  |  |  |

K. Indemnity Incurred Loss Development Factors Adjusted for Changes in Case Reserve Adequacy (i)

| Accident    | Age-to-Age Development (in months): |       |       |       |              |       |  |  |  |
|-------------|-------------------------------------|-------|-------|-------|--------------|-------|--|--|--|
| Year        | 12-24                               | 24-36 | 36-48 | 48-60 | <u>60-72</u> | 72-84 |  |  |  |
| 2007        |                                     |       |       |       |              | 1.037 |  |  |  |
| 2008        |                                     |       |       |       | 1.066        | 1.038 |  |  |  |
| 2009        |                                     |       |       | 1.090 | 1.072        | 1.036 |  |  |  |
| 2010        |                                     |       | 1.141 | 1.085 | 1.066        | 1.031 |  |  |  |
| 2011        |                                     | 1.326 | 1.134 | 1.078 | 1.059        | 1.028 |  |  |  |
| 2012        | 2.055                               | 1.313 | 1.121 | 1.069 | 1.058        |       |  |  |  |
| 2013        | 2.024                               | 1.292 | 1.113 | 1.059 |              |       |  |  |  |
| 2014        | 1.967                               | 1.288 | 1.101 |       |              |       |  |  |  |
| 2015        | 1.966                               | 1.266 |       |       |              |       |  |  |  |
| 2016        | 1.934                               |       |       |       |              |       |  |  |  |
| Latest Year | 1.934                               | 1.266 | 1.101 | 1.059 | 1.058        | 1.028 |  |  |  |

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

(i) Each factor is the product of [1.0 + the impact of adjustments to common case reserve level (Item J)] and [the incurred indemnity age-to-age development factors from AC18-03-02, Exhibit 2.1.1].

#### A. Medical Case Reserves Per Open Indemnity Claim

| Accident |           |        | Evaluated | as of (in mont | hs)       |           |        |
|----------|-----------|--------|-----------|----------------|-----------|-----------|--------|
| Year     | <u>12</u> | 24     | <u>36</u> | <u>48</u>      | <u>60</u> | <u>72</u> | 84     |
| 2006     |           |        |           |                |           |           | 45,250 |
| 2007     |           |        |           |                |           | 40,367    | 51,343 |
| 2008     |           |        |           |                | 34,052    | 42,493    | 51,305 |
| 2009     |           |        |           | 28,671         | 35,041    | 42,138    | 49,211 |
| 2010     |           |        | 23,566    | 28,974         | 34,580    | 40,374    | 46,779 |
| 2011     |           | 20,441 | 24,986    | 30,822         | 37,688    | 42,820    | 48,688 |
| 2012     | 16,029    | 20,299 | 24,281    | 28,497         | 33,675    | 39,770    |        |
| 2013     | 15,773    | 19,983 | 23,004    | 27,449         | 32,120    |           |        |
| 2014     | 15,366    | 18,930 | 22,197    | 26,604         |           |           |        |
| 2015     | 15,939    | 19,672 | 24,262    |                |           |           |        |
| 2016     | 16,398    | 20,683 |           |                |           |           |        |
| 2017     | 17,385    |        |           |                |           |           |        |

#### B. Average Paid Medical Loss Per Claim Adjusted to the Common Benefit Level (a)

| Accident          |           | Evaluated as of (in months) |           |           |           |           |       |  |
|-------------------|-----------|-----------------------------|-----------|-----------|-----------|-----------|-------|--|
| Year              | <u>12</u> | 24                          | <u>36</u> | <u>48</u> | <u>60</u> | <u>72</u> | 84    |  |
| 2006              |           |                             |           |           |           |           | 6,018 |  |
| 2007              |           |                             |           |           |           | 6,472     | 7,002 |  |
| 2008              |           |                             |           |           | 6,775     | 7,498     | 8,028 |  |
| 2009              |           |                             |           | 6,637     | 7,718     | 8,503     | 9,059 |  |
| 2010              |           |                             | 5,635     | 7,118     | 8,168     | 8,922     | 9,494 |  |
| 2011              |           | 4,203                       | 6,117     | 7,567     | 8,616     | 9,406     | 9,933 |  |
| 2012              | 1,989     | 4,349                       | 6,214     | 7,632     | 8,634     | 9,328     |       |  |
| 2013              | 2,081     | 4,407                       | 6,288     | 7,653     | 8,569     |           |       |  |
| 2014              | 2,051     | 4,391                       | 6,255     | 7,551     |           |           |       |  |
| 2015              | 2,069     | 4,418                       | 6,192     |           |           |           |       |  |
| 2016              | 2,136     | 4,465                       |           |           |           |           |       |  |
| 2017              | 2,159     |                             |           |           |           |           |       |  |
| Annual Trend (b): | 1.4%      | 1.0%                        | 1.6%      | 2.5%      | 4.6%      | 7.6%      | 10.6% |  |

#### C. Medical Case Reserves per Open Indemnity Claim Adjusted by Paid Medical Severity Trend (c)

| Accident |           |        | Evaluated | d as of (in mont | hs)       |        |        |
|----------|-----------|--------|-----------|------------------|-----------|--------|--------|
| Year     | <u>12</u> | 24     | <u>36</u> | 48               | <u>60</u> | 72     | 84     |
| 2006     |           |        |           |                  |           |        | 37,156 |
| 2007     |           |        |           |                  |           | 31,290 | 38,642 |
| 2008     |           |        |           |                  | 26,027    | 32,542 | 40,188 |
| 2009     |           |        |           | 21,954           | 27,068    | 33,844 | 41,796 |
| 2010     |           |        | 20,003    | 22,832           | 28,150    | 35,198 | 43,467 |
| 2011     |           | 17,000 | 20,804    | 23,746           | 29,276    | 36,605 | 45,206 |
| 2012     | 14,249    | 17,680 | 21,636    | 24,696           | 30,447    | 38,070 |        |
| 2013     | 14,819    | 18,387 | 22,501    | 25,683           | 31,665    |        |        |
| 2014     | 15,412    | 19,123 | 23,401    | 26,711           |           |        |        |
| 2015     | 16,028    | 19,888 | 24,337    |                  |           |        |        |
| 2016     | 16,669    | 20,683 |           |                  |           |        |        |
| 2017     | 17,336    |        |           |                  |           |        |        |

(a) Represents average paid medical on all claims. All evaluations are brought to the accident year 2016 benefit level based on benefit factors shown in AC18-03-02, Exhibit 4.4, excluding utilization impacts.

(b) Trend is based on a 6-year exponential distribution.

(c) Latest evaluation for each accident year is brought to the accident year 2016 benefit level based on benefit factors shown in AC18-03-02, Exhibit 4.4, excluding utilization impacts. Evaluations prior to the latest evaluation are determined by adjusting the latest accident year average medical case reserves by the selected annual paid medical severity trend on all claims (Item B) of 4%.

#### D. Total Medical Case Reserves Adjusted to the Common Benefit Level and by Paid Medical Severity Trend (in \$000) (d)

| Accident |           |           | Evaluate  | d as of (in mon | ths)      |           |         |
|----------|-----------|-----------|-----------|-----------------|-----------|-----------|---------|
| Year     | 12        | 24        | <u>36</u> | <u>48</u>       | <u>60</u> | <u>72</u> | 84      |
| 2006     |           |           |           |                 |           |           | 578,716 |
| 2007     |           |           |           |                 |           | 623,462   | 560,356 |
| 2008     |           |           |           |                 | 661,857   | 595,762   | 549,094 |
| 2009     |           |           |           | 720,985         | 637,700   | 589,495   | 541,253 |
| 2010     |           |           | 901,411   | 726,222         | 635,891   | 578,155   | 504,613 |
| 2011     |           | 1,002,421 | 905,416   | 726,668         | 628,416   | 555,597   | 483,208 |
| 2012     | 978,050   | 1,081,945 | 962,403   | 758,202         | 641,678   | 552,391   |         |
| 2013     | 1,094,223 | 1,196,267 | 1,034,847 | 786,142         | 639,068   |           |         |
| 2014     | 1,203,302 | 1,274,963 | 1,081,904 | 802,496         |           |           |         |
| 2015     | 1,295,078 | 1,349,708 | 1,091,230 |                 |           |           |         |
| 2016     | 1,338,680 | 1,347,562 |           |                 |           |           |         |
| 2017     | 1,382,745 |           |           |                 |           |           |         |

#### E. Paid Medical Loss on All Claims Adjusted to the Common Benefit Level (in \$000) (e)

| Accident |           |           | Evaluate  | ed as of (in mo | nths)     |           |           |
|----------|-----------|-----------|-----------|-----------------|-----------|-----------|-----------|
| Year     | <u>12</u> | 24        | <u>36</u> | <u>48</u>       | <u>60</u> | 72        | <u>84</u> |
| 2006     |           |           |           |                 |           |           | 2,767,121 |
| 2007     |           |           |           |                 |           | 2,831,847 | 3,066,964 |
| 2008     |           |           |           |                 | 2,681,899 | 2,975,046 | 3,188,776 |
| 2009     |           |           |           | 2,254,183       | 2,631,309 | 2,905,540 | 3,100,665 |
| 2010     |           |           | 1,878,023 | 2,387,568       | 2,750,037 | 3,011,848 | 3,210,842 |
| 2011     |           | 1,342,052 | 1,985,567 | 2,473,755       | 2,828,302 | 3,093,568 | 3,272,037 |
| 2012     | 504,977   | 1,293,198 | 1,896,485 | 2,356,344       | 2,688,694 | 2,921,027 |           |
| 2013     | 547,407   | 1,363,495 | 1,993,099 | 2,460,400       | 2,777,292 |           |           |
| 2014     | 570,785   | 1,437,994 | 2,101,779 | 2,573,380       |           |           |           |
| 2015     | 600,586   | 1,521,244 | 2,188,266 |                 |           |           |           |
| 2016     | 638,037   | 1,582,694 |           |                 |           |           |           |
| 2017     | 691,621   |           |           |                 |           |           |           |

#### F. Adjusted Total Medical Incurred (in \$000) (f)

| Accident |           |           | Evaluate  | ed as of (in mo | nths)     |           |           |
|----------|-----------|-----------|-----------|-----------------|-----------|-----------|-----------|
| Year     | 12        | 24        | <u>36</u> | <u>48</u>       | <u>60</u> | <u>72</u> | 84        |
| 2006     |           |           |           |                 |           |           | 3,345,837 |
| 2007     |           |           |           |                 |           | 3,455,309 | 3,627,321 |
| 2008     |           |           |           |                 | 3,343,755 | 3,570,808 | 3,737,870 |
| 2009     |           |           |           | 2,975,168       | 3,269,009 | 3,495,035 | 3,641,918 |
| 2010     |           |           | 2,779,434 | 3,113,790       | 3,385,928 | 3,590,003 | 3,715,455 |
| 2011     |           | 2,344,473 | 2,890,984 | 3,200,423       | 3,456,718 | 3,649,165 | 3,755,245 |
| 2012     | 1,483,027 | 2,375,143 | 2,858,889 | 3,114,546       | 3,330,372 | 3,473,418 |           |
| 2013     | 1,641,630 | 2,559,762 | 3,027,946 | 3,246,542       | 3,416,361 |           |           |
| 2014     | 1,774,087 | 2,712,957 | 3,183,683 | 3,375,876       |           |           |           |
| 2015     | 1,895,665 | 2,870,952 | 3,279,496 |                 |           |           |           |
| 2016     | 1,976,717 | 2,930,255 |           |                 |           |           |           |
| 2017     | 2,074,366 |           |           |                 |           |           |           |

- (d) Each amount is derived as the product of the indemnity open claim counts (Exhibit 3.2, Item D) and the adjusted average medical case reserves per open claim (Item C).
- (e) Brought to accident year 2016 benefit level based on benefit factors shown in AC18-03-02, Exhibit 4.4, excluding utilization impacts.
- (f) Each amount is the sum of the adjusted total medical case reserves (Item D) and the adjusted total medical paid losses (Item E).

#### G. Medical Incurred Loss Development Factors Based on Adjusted Total Medical Incurred

| Accident    |              | Age-to-A | Age Developme | ent (in months) | :     |       |
|-------------|--------------|----------|---------------|-----------------|-------|-------|
| Year        | <u>12-24</u> | 24-36    | 36-48         | 48-60           | 60-72 | 72-84 |
| 2007        |              |          |               |                 |       | 1.050 |
| 2008        |              |          |               |                 | 1.068 | 1.047 |
| 2009        |              |          |               | 1.099           | 1.069 | 1.042 |
| 2010        |              |          | 1.120         | 1.087           | 1.060 | 1.035 |
| 2011        |              | 1.233    | 1.107         | 1.080           | 1.056 | 1.029 |
| 2012        | 1.602        | 1.204    | 1.089         | 1.069           | 1.043 |       |
| 2013        | 1.559        | 1.183    | 1.072         | 1.052           |       |       |
| 2014        | 1.529        | 1.174    | 1.060         |                 |       |       |
| 2015        | 1.514        | 1.142    |               |                 |       |       |
| 2016        | 1.482        |          |               |                 |       |       |
| Latest Year | 1.482        | 1.142    | 1.060         | 1.052           | 1.043 | 1.029 |

#### H. Medical Incurred Loss Development Factors Adjusted to Common Benefit Level (g)

| Accident |              | Age-to-A     | Age Developme | ent (in months) | :            |       |
|----------|--------------|--------------|---------------|-----------------|--------------|-------|
| Year     | <u>12-24</u> | <u>24-36</u> | 36-48         | 48-60           | <u>60-72</u> | 72-84 |
| 2007     |              |              |               |                 |              | 1.051 |
| 2008     |              |              |               |                 | 1.061        | 1.039 |
| 2009     |              |              |               | 1.087           | 1.056        | 1.030 |
| 2010     |              |              | 1.134         | 1.073           | 1.045        | 1.025 |
| 2011     |              | 1.217        | 1.118         | 1.069           | 1.033        | 1.016 |
| 2012     | 1.593        | 1.181        | 1.090         | 1.055           | 1.031        |       |
| 2013     | 1.560        | 1.148        | 1.083         | 1.039           |              |       |
| 2014     | 1.524        | 1.158        | 1.078         |                 |              |       |
| 2015     | 1.512        | 1.146        |               |                 |              |       |
| 2016     | 1.499        |              |               |                 |              |       |

#### I. Impact of Adjustments to Common Case Reserve Level (h)

| Accident |        | Age-to- | Age Developm | ent (in months) | :     |        |
|----------|--------|---------|--------------|-----------------|-------|--------|
| Year     | 12-24  | 24-36   | 36-48        | 48-60           | 60-72 | 72-84  |
| 2007     |        |         |              |                 |       | -0.07% |
| 2008     |        |         |              |                 | 0.65% | 0.77%  |
| 2009     |        |         |              | 1.09%           | 1.22% | 1.19%  |
| 2010     |        |         | -1.21%       | 1.38%           | 1.51% | 1.00%  |
| 2011     |        | 1.32%   | -1.01%       | 1.07%           | 2.21% | 1.31%  |
| 2012     | 0.53%  | 1.96%   | -0.05%       | 1.40%           | 1.13% |        |
| 2013     | -0.05% | 3.06%   | -1.02%       | 1.30%           |       |        |
| 2014     | 0.36%  | 1.35%   | -1.62%       |                 |       |        |
| 2015     | 0.20%  | -0.37%  |              |                 |       |        |
| 2016     | -1.10% |         |              |                 |       |        |

(g) Development factors are based on incurred losses adjusted to a common benefit level and from the same insurer mix as those which have been adjusted for case reserve level adequacy and applied in the calculation of the development factors in Item G.

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

#### J. Medical Incurred Loss Development Factors After Adjustment for Changes in Case Reserve Adequacy (i)

| Accident    |       | Age-to-/ | Age Developme | ent (in months) | :            |       |
|-------------|-------|----------|---------------|-----------------|--------------|-------|
| Year        | 12-24 | 24-36    | <u>36-48</u>  | <u>48-60</u>    | <u>60-72</u> | 72-84 |
| 2007        |       |          |               |                 |              | 1.049 |
| 2008        |       |          |               |                 | 1.068        | 1.049 |
| 2009        |       |          |               | 1.099           | 1.074        | 1.042 |
| 2010        |       |          | 1.120         | 1.092           | 1.061        | 1.035 |
| 2011        |       | 1.238    | 1.114         | 1.080           | 1.057        | 1.029 |
| 2012        | 1.600 | 1.211    | 1.092         | 1.071           | 1.043        |       |
| 2013        | 1.558 | 1.185    | 1.075         | 1.054           |              |       |
| 2014        | 1.528 | 1.175    | 1.062         |                 |              |       |
| 2015        | 1.514 | 1.143    |               |                 |              |       |
| 2016        | 1.482 |          |               |                 |              |       |
| Latest Year | 1.482 | 1.143    | 1.062         | 1.054           | 1.043        | 1.029 |

(i) Each factor is the product of [1.0 + the impact of adjustments to common case reserve level (Item I)] and [the incurred medical age-to-age development factors from AC18-03-02, Exhibit 2.2.1].

|          |            |             | Based or    | n Experience | as of Decemb | er 31, 2017 |             |            |            |
|----------|------------|-------------|-------------|--------------|--------------|-------------|-------------|------------|------------|
|          | (1)        | (2)         | (3)         | (4)          | (5)          | (6)         | (7)         | (8)        | (9)        |
| -        |            | Inden       | nnity       |              |              | Med         | ical        |            |            |
|          | Reported   |             |             |              | Reported     |             |             |            |            |
|          | Incurred   | Annual      | Cumulative  |              | Incurred     | Annual      | Cumulative  |            | Total      |
| Accident | Loss Ratio | Development | Development | Developed    | Loss Ratio   | Development | Development | Developed  | Developed  |
| Year     | Ex IBNR(a) | Factor(b)   | Factor      | Loss Ratio   | Ex IBNR(a)   | Factor(c)   | Factor      | Loss Ratio | Loss Ratio |
|          |            |             | (1) x (3)   |              |              |             |             | (5) x (7)  | (4) + (8)  |
| 2006     | 0.157      | 1.004       | 1.021       | 0.160        | 0.233        | 1.008       | 1.064       | 0.248      | 0.409      |
| 2007     | 0.214      | 1.006       | 1.027       | 0.220        | 0.327        | 1.009       | 1.073       | 0.351      | 0.571      |
| 2008     | 0.270      | 1.007       | 1.034       | 0.279        | 0.402        | 1.011       | 1.085       | 0.437      | 0.716      |
| 2009     | 0.311      | 1.012       | 1.046       | 0.325        | 0.462        | 1.016       | 1.103       | 0.509      | 0.834      |
| 2010     | 0.294      | 1.014       | 1.061       | 0.312        | 0.441        | 1.007       | 1.110       | 0.490      | 0.801      |
| 2011     | 0.269      | 1.016       | 1.078       | 0.289        | 0.377        | 1.012       | 1.124       | 0.423      | 0.713      |
| 2012     | 0.236      | 1.028       | 1.108       | 0.261        | 0.316        | 1.029       | 1.157       | 0.366      | 0.627      |
| 2013     | 0.195      | 1.058       | 1.172       | 0.228        | 0.249        | 1.043       | 1.206       | 0.300      | 0.529      |
| 2014     | 0.176      | 1.059       | 1.240       | 0.219        | 0.212        | 1.054       | 1.270       | 0.269      | 0.488      |
| 2015     | 0.159      | 1.101       | 1.366       | 0.217        | 0.192        | 1.062       | 1.349       | 0.258      | 0.475      |
| 2016     | 0.122      | 1.266       | 1.730       | 0.211        | 0.163        | 1.143       | 1.541       | 0.251      | 0.462      |
| 2017     | 0.067      | 1.934       | 3.345       | 0.223        | 0.118        | 1.482       | 2.285       | 0.269      | 0.492      |

### Developed Loss Ratios Using Latest Year Incurred Development Factors Adjusted for Changes in Average Case Reserve Levels

(a) Based on AC18-03-02, Exhibit 1. Accident years 2011 and subsequent do not reflect the paid cost of medical cost containment programs (MCCP). Accident years 2010 and prior do reflect paid MCCP costs. No adjustment has been made to MCCP costs in medical reserves.

(b) Age-to-age factors for developing accident years 2012 to 2017 were adjusted for changes in indemnity case reserve levels based on estimated annual severity trends on closed indemnity claims (see Exhibit 3.4, Item K). Age-to-age factors for developing accident years prior to 2012 are selected as the age-to-age factors shown in AC18-03-02, Exhibit 2.1.

(c) Age-to-age factors for developing accident years 2012 to 2017 were adjusted for changes in medical case reserve levels based on estimated annual medical severity trends on all claims (see Exhibit 3.8, Item K). Age-to-age factors for developing accident years prior to 2012 are selected as the age-to-age factors shown in AC18-03-02, Exhibit 2.2.

#### Projected On-Level Accident Year Indemnity Loss to Industry Average Filed Pure Premium Ratios Using Latest Year Incurred Development Factors Adjusted for Changes in Indemnity Average Case Reserve Levels Based on Experience as of December 31, 2017

|                         | (1)                                  | (2)   | (3)                                       | (4)   |
|-------------------------|--------------------------------------|---|---|---|
| Accident<br><u>Year</u> | Developed Indemnity<br>Loss Ratio(a) | Composite Indemnity<br>Adjustment Factor(b) | Composite Premium<br>Adjustment Factor(c) | On-Level Indemnity to<br>Industry Average Filed<br><u>Pure Premium Ratio</u><br>(1) x (2) ÷ (3) |
| 2006                    | 0.160                                | 1.486                                       | 0.956                                     | 0.249   |
| 2007                    | 0.220                                | 1.439                                       | 1.222                                     | 0.259   |
| 2008                    | 0.279                                | 1.356                                       | 1.476                                     | 0.257   |
| 2009                    | 0.325                                | 1.329                                       | 1.591                                     | 0.271   |
| 2010                    | 0.312                                | 1.311                                       | 1.446                                     | 0.283   |
| 2011                    | 0.289                                | 1.290                                       | 1.321                                     | 0.283   |
| 2012                    | 0.261                                | 1.260                                       | 1.177                                     | 0.280   |
| 2013                    | 0.228                                | 1.220                                       | 1.028                                     | 0.271   |
| 2014                    | 0.219                                | 1.105                                       | 0.948                                     | 0.255   |
| 2015                    | 0.217                                | 1.077                                       | 0.905                                     | 0.258   |
| 2016                    | 0.211                                | 1.064                                       | 0.926                                     | 0.242   |
| 2017                    | 0.223                                | 1.043                                       | 0.977                                     | 0.238   |

Projected (d)

0.238

0.234

2018 4/1/2019

(a) See Exhibit 3.9.

(b) Based on AC18-03-02, Exhibit 4.1.

(c) See AC18-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC18-03-02, Exhibit 6.2, the actual frequency trend for accident year 2017 from AC18-03-02, Exhibit 12, and projected frequency trends for accident years 2018 and 2019 from AC18-03-02, Exhibit 6.1; these trends were then separately applied to the 2016 and 2017 on-level ratios.

#### Projected On-Level Accident Year Medical Loss to Industry Average Filed Pure Premium Ratios Using Latest Year Incurred Development Factors Adjusted for Changes in Medical Average Case Reserve Levels Based on Experience as of December 31, 2017

|          | (1)               | (2)                  | (3)                  | (4)                    |
|----------|-------------------|----------------------|----------------------|------------------------|
|          |                   |                      |                      | On-Level Medical to    |
| Accident | Developed Medical | Composite Medical    | Composite Premium    | Industry Average Filed |
| Year     | Loss Ratio(a)     | Adjustment Factor(b) | Adjustment Factor(c) | Pure Premium Ratio(e)  |
|          |                   |                      |                      | (1) x (2) ÷ (3)        |
| 2006     | 0.248             | 0.861                | 0.956                | 0.224                  |
| 2007     | 0.351             | 0.866                | 1.222                | 0.249                  |
| 2008     | 0.437             | 0.866                | 1.476                | 0.256                  |
| 2009     | 0.509             | 0.854                | 1.591                | 0.273                  |
| 2010     | 0.490             | 0.851                | 1.446                | 0.288                  |
| 2011     | 0.423             | 0.866                | 1.321                | 0.278                  |
| 2012     | 0.366             | 0.893                | 1.177                | 0.277                  |
| 2013     | 0.300             | 0.958                | 1.028                | 0.280                  |
| 2014     | 0.269             | 0.998                | 0.948                | 0.283                  |
| 2015     | 0.258             | 0.997                | 0.905                | 0.285                  |
| 2016     | 0.251             | 0.994                | 0.926                | 0.270                  |
| 2017     | 0.269             | 0.991                | 0.977                | 0.273                  |
|          |                   |                      |                      |                        |

Projected (d)

0.281

0.283

2018 4/1/2019

(a) See Exhibit 3.9.

(b) Based on AC18-03-02, Exhibit 4.4.

(c) See AC18-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual medical severity trend from AC18-03-02, Exhibit 6.4, the actual frequency trend for accident year 2017 from AC18-03-02, Exhibit 12, and projected frequency trends for accident years 2018 and 2019 from AC18-03-02, Exhibit 6.1; these trends were then separately applied to the 2016 and 2017 on-level ratios.

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

|                         | (1)                                      | (2)<br>Inden                              | (3)<br>nnity  | (4)                     | (5)                                      | (6)<br>Med                                | (7)<br>ical                                | (8)                                  | (9)  |
|-------------------------|--|---|---|-------------------------|--|---|--|--------------------------------------|--|
| Accident<br><u>Year</u> | Reported<br>Paid<br><u>Loss Ratio(a)</u> | Annual<br>Development<br><u>Factor(b)</u> | Cumulative<br>Development<br><u>Factor</u><br>(1) x (3) | Developed<br>Loss Ratio | Reported<br>Paid<br><u>Loss Ratio(a)</u> | Annual<br>Development<br><u>Factor(c)</u> | Cumulative<br>Development<br><u>Factor</u> | Developed<br>Loss Ratio<br>(5) x (7) | Total<br>Developed<br><u>Loss Ratio</u><br>(4) + (8) |
| 2006                    | 0.148                                    | 1.012                                     | 1.081   | 0.160                   | 0.211                                    | 1.019                                     | 1.252                                      | 0.264                                | 0.425  |
| 2007                    | 0.201                                    | 1.015                                     | 1.098   | 0.221                   | 0.292                                    | 1.022                                     | 1.279                                      | 0.373                                | 0.595  |
| 2008                    | 0.252                                    | 1.019                                     | 1.119   | 0.282                   | 0.359                                    | 1.026                                     | 1.312                                      | 0.472                                | 0.753  |
| 2009                    | 0.288                                    | 1.025                                     | 1.147   | 0.330                   | 0.410                                    | 1.031                                     | 1.352                                      | 0.555                                | 0.885  |
| 2010                    | 0.272                                    | 1.030                                     | 1.182   | 0.322                   | 0.393                                    | 1.036                                     | 1.401                                      | 0.551                                | 0.873  |
| 2011                    | 0.244                                    | 1.041                                     | 1.230   | 0.301                   | 0.325                                    | 1.047                                     | 1.466                                      | 0.477                                | 0.777  |
| 2012                    | 0.210                                    | 1.059                                     | 1.303   | 0.274                   | 0.266                                    | 1.064                                     | 1.560                                      | 0.415                                | 0.689  |
| 2013                    | 0.170                                    | 1.088                                     | 1.418   | 0.241                   | 0.203                                    | 1.093                                     | 1.704                                      | 0.346                                | 0.587  |
| 2014                    | 0.144                                    | 1.137                                     | 1.612   | 0.232                   | 0.162                                    | 1.139                                     | 1.942                                      | 0.314                                | 0.546  |
| 2015                    | 0.115                                    | 1.260                                     | 2.030   | 0.234                   | 0.128                                    | 1.237                                     | 2.403                                      | 0.307                                | 0.541  |
| 2016                    | 0.071                                    | 1.620                                     | 3.288   | 0.232                   | 0.088                                    | 1.455                                     | 3.496                                      | 0.308                                | 0.540  |
| 2017                    | 0.023                                    | 3.247                                     | 10.678  | 0.249                   | 0.039                                    | 2.510                                     | 8.776                                      | 0.345                                | 0.594  |

#### Developed Loss Ratio Unadjusted 3-Year Average Paid Development Factors Based on Experience as of December 31, 2017

(a) Based on AC18-03-02, Exhibit 1.

(b) Age-to-age factors are selected as three-year averages based on AC18-03-02, Exhibit 2.5.

(c) Age-to-age factors are selected as three-year averages based on AC18-03-02, Exhibit 2.6. These factors have not been adjusted for any reforms.

#### Projected On-Level Accident Year Indemnity Loss to Industry Average Filed Pure Premium Ratios Using Unadjusted 3-Year Average Paid Development Factors Based on Experience as of December 31, 2017

|                         | (1)                                  | (2)   | (3)                                       | (4)   |
|-------------------------|--------------------------------------|---|---|---|
| Accident<br><u>Year</u> | Developed Indemnity<br>Loss Ratio(a) | Composite Indemnity<br>Adjustment Factor(b) | Composite Premium<br>Adjustment Factor(c) | On-Level Indemnity to<br>Industry Average Filed<br><u>Pure Premium Ratio</u><br>(1) x (2) ÷ (3) |
| 2006                    | 0.160                                | 1.486                                       | 0.956                                     | 0.249   |
| 2007                    | 0.221                                | 1.439                                       | 1.222                                     | 0.261   |
| 2008                    | 0.282                                | 1.356                                       | 1.476                                     | 0.259   |
| 2009                    | 0.330                                | 1.329                                       | 1.591                                     | 0.276   |
| 2010                    | 0.322                                | 1.311                                       | 1.446                                     | 0.291   |
| 2011                    | 0.301                                | 1.290                                       | 1.321                                     | 0.294   |
| 2012                    | 0.274                                | 1.260                                       | 1.177                                     | 0.293   |
| 2013                    | 0.241                                | 1.220                                       | 1.028                                     | 0.286   |
| 2014                    | 0.232                                | 1.105                                       | 0.948                                     | 0.271   |
| 2015                    | 0.234                                | 1.077                                       | 0.905                                     | 0.279   |
| 2016                    | 0.232                                | 1.064                                       | 0.926                                     | 0.267   |
| 2017                    | 0.249                                | 1.043                                       | 0.977                                     | 0.265   |

Projected (d) 0.264

0.260

2018 4/1/2019

(a) See Exhibit 4.1.

(b) Based on AC18-03-02, Exhibit 4.1.

(c) See AC18-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC18-03-02, Exhibit 6.2, the actual frequency trend for accident year 2017 from AC18-03-02, Exhibit 12, and projected frequency trends for accident years 2018 and 2019 from AC18-03-02, Exhibit 6.1; these trends were then separately applied to the 2016 and 2017 on-level ratios.

#### Projected On-Level Accident Year Medical Loss to Industry Average Filed Pure Premium Ratios Using Unadjusted 3-Year Average Paid Development Factors Based on Experience as of December 31, 2017

|                         | (1)                                | (2)                                       | (3)                                       | (4)<br>On-Level Medical to  |
|-------------------------|------------------------------------|---|---|---|
| Accident<br><u>Year</u> | Developed Medical<br>Loss Ratio(a) | Composite Medical<br>Adjustment Factor(b) | Composite Premium<br>Adjustment Factor(c) | Industry Average Filed<br><u>Pure Premium Ratio(e)</u><br>(1) x (2) ÷ (3) |
| 2006                    | 0.264                              | 0.861                                     | 0.956                                     | 0.238   |
| 2007                    | 0.373                              | 0.866                                     | 1.222                                     | 0.265   |
| 2008                    | 0.472                              | 0.866                                     | 1.476                                     | 0.277   |
| 2009                    | 0.555                              | 0.854                                     | 1.591                                     | 0.297   |
| 2010                    | 0.551                              | 0.851                                     | 1.446                                     | 0.324   |
| 2011                    | 0.477                              | 0.866                                     | 1.321                                     | 0.312   |
| 2012                    | 0.415                              | 0.893                                     | 1.177                                     | 0.315   |
| 2013                    | 0.346                              | 0.958                                     | 1.028                                     | 0.322   |
| 2014                    | 0.314                              | 0.998                                     | 0.948                                     | 0.330   |
| 2015                    | 0.307                              | 0.997                                     | 0.905                                     | 0.338   |
| 2016                    | 0.308                              | 0.994                                     | 0.926                                     | 0.331   |
| 2017                    | 0.345                              | 0.991                                     | 0.977                                     | 0.350   |

Projected (d) 0.352

0.355

2018 4/1/2019

(a) See Exhibit 4.1.

(b) Based on AC18-03-02, Exhibit 4.4.

(c) See AC18-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual medical severity trend from AC18-03-02, Exhibit 6.4, the actual frequency trend for accident year 2017 from AC18-03-02, Exhibit 12, and projected frequency trends for accident years 2018 and 2019 from AC18-03-02, Exhibit 6.1; these trends were then separately applied to the 2016 and 2017 on-level ratios.

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

|                  | (1)                                      | (2)<br>Inden                              | (3)  | (4)                     | (5)                                      | (6)<br>Med                                | (7)  | (8)                     | (9)                                     |
|------------------|--|---|--|-------------------------|--|---|--|-------------------------|---|
|                  |  | Inden                                     | IIIIIty                                    |                         |  | IVIEU                                     | icai                                       |                         |   |
| Accident<br>Year | Reported<br>Paid<br><u>Loss Ratio(a)</u> | Annual<br>Development<br><u>Factor(b)</u> | Cumulative<br>Development<br><u>Factor</u> | Developed<br>Loss Ratio | Reported<br>Paid<br><u>Loss Ratio(a)</u> | Annual<br>Development<br><u>Factor(c)</u> | Cumulative<br>Development<br><u>Factor</u> | Developed<br>Loss Ratio | Total<br>Developed<br><u>Loss Ratio</u> |
|                  |  |   | (1) x (3)                                  |                         |  |   |  | (5) x (7)               | (4) + (8)                               |
| 2006             | 0.148                                    | 1.012                                     | 1.081                                      | 0.160                   | 0.211                                    | 1.019                                     | 1.252                                      | 0.264                   | 0.425                                   |
| 2007             | 0.201                                    | 1.015                                     | 1.098                                      | 0.221                   | 0.292                                    | 1.022                                     | 1.279                                      | 0.373                   | 0.595                                   |
| 2008             | 0.252                                    | 1.019                                     | 1.119                                      | 0.282                   | 0.359                                    | 1.026                                     | 1.312                                      | 0.472                   | 0.753                                   |
| 2009             | 0.288                                    | 1.025                                     | 1.147                                      | 0.330                   | 0.410                                    | 1.031                                     | 1.352                                      | 0.555                   | 0.885                                   |
| 2010             | 0.272                                    | 1.031                                     | 1.183                                      | 0.322                   | 0.393                                    | 1.032                                     | 1.396                                      | 0.549                   | 0.871                                   |
| 2011             | 0.244                                    | 1.038                                     | 1.228                                      | 0.300                   | 0.325                                    | 1.043                                     | 1.456                                      | 0.473                   | 0.773                                   |
| 2012             | 0.210                                    | 1.056                                     | 1.297                                      | 0.272                   | 0.266                                    | 1.058                                     | 1.540                                      | 0.410                   | 0.682                                   |
| 2013             | 0.170                                    | 1.087                                     | 1.410                                      | 0.239                   | 0.203                                    | 1.087                                     | 1.674                                      | 0.339                   | 0.579                                   |
| 2014             | 0.144                                    | 1.129                                     | 1.591                                      | 0.229                   | 0.162                                    | 1.130                                     | 1.892                                      | 0.306                   | 0.535                                   |
| 2015             | 0.115                                    | 1.257                                     | 2.000                                      | 0.231                   | 0.128                                    | 1.226                                     | 2.319                                      | 0.297                   | 0.527                                   |
| 2016             | 0.071                                    | 1.618                                     | 3.236                                      | 0.229                   | 0.088                                    | 1.439                                     | 3.337                                      | 0.294                   | 0.523                                   |
| 2017             | 0.023                                    | 3.235                                     | 10.470                                     | 0.244                   | 0.039                                    | 2.480                                     | 8.277                                      | 0.325                   | 0.569                                   |

#### Developed Loss Ratio Unadjusted Latest Year Paid Development Factors Based on Experience as of December 31, 2017

(a) Based on AC18-03-02, Exhibit 1.

(b) Age-to-age factors are selected as latest year for the 12-to-24 month through 96-to-108 month factors and three-year average for the subsequent age-to-age factors based on AC18-03-02, Exhibit 2.5.

(c) Age-to-age factors are selected as latest year for the 12-to-24 month through 96-to-108 month factors and three-year average for the subsequent age-to-age factors based on AC18-03-02, Exhibit 2.6. These factors have not been adjusted for any reforms.

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

|                         | (1)                                  | (2)   | (3)                                       | (4)   |
|-------------------------|--------------------------------------|---|---|---|
| Accident<br><u>Year</u> | Developed Indemnity<br>Loss Ratio(a) | Composite Indemnity<br>Adjustment Factor(b) | Composite Premium<br>Adjustment Factor(c) | On-Level Indemnity to<br>Industry Average Filed<br><u>Pure Premium Ratio</u><br>(1) x (2) ÷ (3) |
| 2006                    | 0.160                                | 1.486                                       | 0.956                                     | 0.249   |
| 2007                    | 0.221                                | 1.439                                       | 1.222                                     | 0.261   |
| 2008                    | 0.282                                | 1.356                                       | 1.476                                     | 0.259   |
| 2009                    | 0.330                                | 1.329                                       | 1.591                                     | 0.276   |
| 2010                    | 0.322                                | 1.311                                       | 1.446                                     | 0.292   |
| 2011                    | 0.300                                | 1.290                                       | 1.321                                     | 0.293   |
| 2012                    | 0.272                                | 1.260                                       | 1.177                                     | 0.292   |
| 2013                    | 0.239                                | 1.220                                       | 1.028                                     | 0.284   |
| 2014                    | 0.229                                | 1.105                                       | 0.948                                     | 0.267   |
| 2015                    | 0.231                                | 1.077                                       | 0.905                                     | 0.274   |
| 2016                    | 0.229                                | 1.064                                       | 0.926                                     | 0.263   |
| 2017                    | 0.244                                | 1.043                                       | 0.977                                     | 0.260   |

Projected (d) 0.259

0.255

2018 4/1/2019

(a) See Exhibit 5.1.

(b) Based on AC18-03-02, Exhibit 4.1.

(c) See AC18-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC18-03-02, Exhibit 6.2, the actual frequency trend for accident year 2017 from AC18-03-02, Exhibit 12, and projected frequency trends for accident years 2018 and 2019 from AC18-03-02, Exhibit 6.1; these trends were then separately applied to the 2016 and 2017 on-level ratios.

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

|                         | (1)                                | (2)                                       | (3)                                       | (4)<br>On-Level Medical to  |
|-------------------------|------------------------------------|---|---|---|
| Accident<br><u>Year</u> | Developed Medical<br>Loss Ratio(a) | Composite Medical<br>Adjustment Factor(b) | Composite Premium<br>Adjustment Factor(c) | Industry Average Filed<br><u>Pure Premium Ratio(e)</u><br>(1) x (2) ÷ (3) |
| 2006                    | 0.264                              | 0.861                                     | 0.956                                     | 0.238   |
| 2007                    | 0.373                              | 0.866                                     | 1.222                                     | 0.265   |
| 2008                    | 0.472                              | 0.866                                     | 1.476                                     | 0.277   |
| 2009                    | 0.555                              | 0.854                                     | 1.591                                     | 0.297   |
| 2010                    | 0.549                              | 0.851                                     | 1.446                                     | 0.323   |
| 2011                    | 0.473                              | 0.866                                     | 1.321                                     | 0.310   |
| 2012                    | 0.410                              | 0.893                                     | 1.177                                     | 0.311   |
| 2013                    | 0.339                              | 0.958                                     | 1.028                                     | 0.316   |
| 2014                    | 0.306                              | 0.998                                     | 0.948                                     | 0.322   |
| 2015                    | 0.297                              | 0.997                                     | 0.905                                     | 0.327   |
| 2016                    | 0.294                              | 0.994                                     | 0.926                                     | 0.316   |
| 2017                    | 0.325                              | 0.991                                     | 0.977                                     | 0.330   |

Projected (d)

0.334

0.337

2018 4/1/2019

(a) See Exhibit 5.1.

- (b) Based on AC18-03-02, Exhibit 4.4.
- (c) See AC18-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual medical severity trend from AC18-03-02, Exhibit 6.4, the actual frequency trend for accident year 2017 from AC18-03-02, Exhibit 12, and projected frequency trends for accident years 2018 and 2019 from AC18-03-02, Exhibit 6.1; these trends were then separately applied to the 2016 and 2017 on-level ratios.

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

| Developed Loss Ratios Adjusted for the Impact of Reforms |               |           |               |             |                  |                |           |               |            |            |
|--|---------------|-----------|---------------|-------------|------------------|----------------|-----------|---------------|------------|------------|
|  |               |           |               | Based o     | n Paid Latest Yo | ear Selections |           |               |            |            |
|  |               |           |               | Based on Ex | perience as of I | December 31, 2 | 017       |               |            |            |
|  | (1)           | (2)       | (3)           | (4)         | (5)              | (6)            | (7)       | (8)           | (9)        | (10)       |
|  |               | Inde      | mnity         |             |                  |                | Medical   |               |            |            |
|  |               |           |               |             |                  |                | Adju      | usted         |            |            |
|  |               |           |               |             |                  |                |           |               |            | Total      |
| Accident   | Paid          | Developm  | nent Factors  | Developed   | Paid             | Paid           | Developm  | nent Factors  | Developed  | Developed  |
| Year   | Loss Ratio(a) | Annual(b) | Cumulative(b) | Loss Ratio  | Loss Ratio(a)    | Loss Ratio(c)  | Annual(d) | Cumulative(d) | Loss Ratio | Loss Ratio |
|  |               |           |               | (1) x (3)   |                  |                |           |               | (6) x (8)  | (4) + (9)  |
| 2006   | 0.148         | 1.012     | 1.081         | 0.160       | 0.211            | 0.197          | 1.020     | 1.261         | 0.248      | 0.409      |
| 2007   | 0.201         | 1.015     | 1.098         | 0.221       | 0.292            | 0.273          | 1.024     | 1.291         | 0.352      | 0.573      |
| 2008   | 0.252         | 1.019     | 1.119         | 0.282       | 0.359            | 0.337          | 1.028     | 1.327         | 0.447      | 0.729      |
| 2009   | 0.288         | 1.025     | 1.147         | 0.330       | 0.410            | 0.386          | 1.033     | 1.371         | 0.529      | 0.860      |
| 2010   | 0.272         | 1.031     | 1.183         | 0.322       | 0.393            | 0.373          | 1.034     | 1.417         | 0.529      | 0.851      |
| 2011   | 0.244         | 1.038     | 1.228         | 0.300       | 0.325            | 0.312          | 1.045     | 1.481         | 0.462      | 0.762      |
| 2012   | 0.210         | 1.056     | 1.297         | 0.272       | 0.266            | 0.259          | 1.062     | 1.563         | 0.405      | 0.677      |
| 2013   | 0.170         | 1.087     | 1.438         | 0.244       | 0.203            | 0.200          | 1.091     | 1.697         | 0.340      | 0.584      |
| 2014   | 0.144         | 1.129     | 1.674         | 0.241       | 0.162            | 0.161          | 1.134     | 1.909         | 0.307      | 0.548      |
| 2015   | 0.115         | 1.257     | 2.104         | 0.243       | 0.128            | 0.128          | 1.229     | 2.327         | 0.298      | 0.540      |
| 2016   | 0.071         | 1.618     | 3.405         | 0.241       | 0.088            | 0.088          | 1.440     | 3.327         | 0.293      | 0.534      |
| 2017   | 0.023         | 3.235     | 11.015        | 0.257       | 0.039            | 0.039          | 2.481     | 8.228         | 0.323      | 0.580      |

#### 4 1 Patio Adjusted for the In ct of Rof 51

Based on AC18-03-02, Exhibit 1. For medical, Paid MCCP costs are excluded from accident years 2011 and subsequent. Column 5 is shown for (a) informational purposes only.

(b) Based on AC18-03-02, Exhibit 2.5.1 and includes adjustments for SB 863. Does not reflect any adjustment for changes in claim settlement rates.

See AC18-03-02, Exhibit 3.2, Column (2). (c)

Based on AC18-03-02, Exhibit 2.6.1 and includes adjustments for SB 863 and SB 1160. Does not reflect any adjustment for changes in claim (d) settlement rates.

#### Projected On-Level Accident Year Indemnity Loss to Industry Average Filed Pure Premium Ratios Using Latest Year Paid Development Adjusted for Reforms Based on Experience as of December 31, 2017

| Accident<br><u>Year</u> | (1)<br>Developed Indemnity<br><u>Loss Ratio(a)</u> | (2)<br>Composite Indemnity<br><u>Adjustment Factor(b)</u> | (3)<br>Composite Premium<br><u>Adjustment Factor(c)</u> | (4)<br>On-Level Indemnity to<br>Industry Average Filed<br><u>Pure Premium Ratio</u><br>(1) x (2) ÷ (3) |
|-------------------------|--|---|---|--|
| 2006                    | 0.160  | 1.486   | 0.956   | 0.249  |
| 2007                    | 0.221  | 1.439   | 1.222   | 0.261  |
| 2008                    | 0.282  | 1.356   | 1.476   | 0.259  |
| 2009                    | 0.330  | 1.329   | 1.591   | 0.276  |
| 2010                    | 0.322  | 1.311   | 1.446   | 0.292  |
| 2011                    | 0.300  | 1.290   | 1.321   | 0.293  |
| 2012                    | 0.272  | 1.260   | 1.177   | 0.292  |
| 2013                    | 0.244  | 1.220   | 1.028   | 0.290  |
| 2014                    | 0.241  | 1.105   | 0.948   | 0.281  |
| 2015                    | 0.243  | 1.077   | 0.905   | 0.289  |
| 2016                    | 0.241  | 1.064   | 0.926   | 0.276  |
| 2017                    | 0.257  | 1.043   | 0.977   | 0.274  |

Projected (d)

0.273 0.269

(a) See Exhibit 6.1.

2018

4/1/2019

- (b) Based on AC18-03-02, Exhibit 4.1.
- (c) See AC18-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC18-03-02, Exhibit 6.2, the actual frequency trend for accident year 2017 from AC18-03-02, Exhibit 12, and projected frequency trends for accident years 2018 and 2019 from AC18-03-02, Exhibit 6.1; these trends were then separately applied to the 2016 and 2017 on-level ratios.

#### Projected On-Level Accident Year Medical Loss to Industry Average Filed Pure Premium Ratios Using Latest Year Paid Development Adjusted for Reforms Based on Experience as of December 31, 2017

| Accident<br><u>Year</u> | (1)<br>Developed Medical<br><u>Loss Ratio(a)</u> | (2)<br>Composite Medical<br><u>Adjustment Factor(b)</u> | (3)<br>Composite Premium<br><u>Adjustment Factor(c)</u> | (4)<br>On-Level Medical to<br>Industry Average Filed<br><u>Pure Premium Ratio(e)</u><br>(1) x (2) ÷ (3) |
|-------------------------|--|---|---|---|
| 2006                    | 0.248  | 0.961   | 0.956   | 0.250   |
| 2007                    | 0.352  | 0.943   | 1.222   | 0.272   |
| 2008                    | 0.447  | 0.936   | 1.476   | 0.284   |
| 2009                    | 0.529  | 0.923   | 1.591   | 0.307   |
| 2010                    | 0.529  | 0.920   | 1.446   | 0.337   |
| 2011                    | 0.462  | 0.936   | 1.321   | 0.327   |
| 2012                    | 0.405  | 0.974   | 1.177   | 0.335   |
| 2013                    | 0.340  | 1.004   | 1.028   | 0.332   |
| 2014                    | 0.307  | 1.010   | 0.948   | 0.328   |
| 2015                    | 0.298  | 1.011   | 0.905   | 0.332   |
| 2016                    | 0.293  | 1.011   | 0.926   | 0.320   |
| 2017                    | 0.323  | 1.012   | 0.977   | 0.335   |

Projected (d)

0.339 0.342

(a) See Exhibit 6.1.

2018

4/1/2019

- (b) Based on AC18-03-02, Exhibit 4.4.
- (c) See AC18-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual medical severity trend from AC18-03-02, Exhibit 6.4, the actual frequency trend for accident year 2017 from AC18-03-02, Exhibit 12, and projected frequency trends for accident years 2018 and 2019 from AC18-03-02, Exhibit 6.1; these trends were then separately applied to the 2016 and 2017 on-level ratios.

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

#### Developed Loss Ratios Adjusted for the Impact of Reforms and Changes in Claim Settlement Rates Based on 3-Year Average Selections

|          | Based on Experience as of December 31, 2017 |           |               |            |               |               |           |               |            |            |
|----------|---|-----------|---------------|------------|---------------|---------------|-----------|---------------|------------|------------|
|          | (1)   | (2)       | (3)           | (4)        | (5)           | (6)           | (7)       | (8)           | (9)        | (10)       |
|          |   | Inde      | mnity         |            |               |               | Medical   |               |            |            |
|          |   |           |               |            |               |               | Adju      | usted         |            |            |
|          |   |           |               |            |               |               |           |               |            | Total      |
| Accident | Paid  | Developn  | nent Factors  | Developed  | Paid          | Paid          | Developm  | nent Factors  | Developed  | Developed  |
| Year     | Loss Ratio(a)                               | Annual(b) | Cumulative(b) | Loss Ratio | Loss Ratio(a) | Loss Ratio(c) | Annual(d) | Cumulative(d) | Loss Ratio | Loss Ratio |
|          |   |           |               | (1) x (3)  |               |               |           |               | (6) x (8)  | (4) + (9)  |
| 2006     | 0.148                                       | 1.012     | 1.081         | 0.160      | 0.211         | 0.197         | 1.020     | 1.261         | 0.248      | 0.409      |
| 2007     | 0.201                                       | 1.015     | 1.098         | 0.221      | 0.292         | 0.273         | 1.024     | 1.291         | 0.352      | 0.573      |
| 2008     | 0.252                                       | 1.019     | 1.119         | 0.282      | 0.359         | 0.337         | 1.028     | 1.327         | 0.447      | 0.729      |
| 2009     | 0.288                                       | 1.025     | 1.147         | 0.330      | 0.410         | 0.386         | 1.033     | 1.371         | 0.529      | 0.860      |
| 2010     | 0.272                                       | 1.031     | 1.183         | 0.322      | 0.393         | 0.373         | 1.034     | 1.417         | 0.529      | 0.851      |
| 2011     | 0.244                                       | 1.038     | 1.228         | 0.300      | 0.325         | 0.312         | 1.045     | 1.481         | 0.462      | 0.762      |
| 2012     | 0.210                                       | 1.048     | 1.287         | 0.270      | 0.266         | 0.259         | 1.058     | 1.558         | 0.403      | 0.674      |
| 2013     | 0.170                                       | 1.075     | 1.411         | 0.240      | 0.203         | 0.200         | 1.087     | 1.685         | 0.337      | 0.577      |
| 2014     | 0.144                                       | 1.127     | 1.641         | 0.236      | 0.162         | 0.161         | 1.140     | 1.905         | 0.307      | 0.543      |
| 2015     | 0.115                                       | 1.244     | 2.042         | 0.235      | 0.128         | 0.128         | 1.234     | 2.332         | 0.298      | 0.534      |
| 2016     | 0.071                                       | 1.601     | 3.268         | 0.231      | 0.088         | 0.088         | 1.454     | 3.367         | 0.297      | 0.528      |
| 2017     | 0.023                                       | 3.274     | 10.700        | 0.249      | 0.039         | 0.039         | 2.538     | 8.519         | 0.335      | 0.584      |

(a) Based on AC18-03-02, Exhibit 1. Column 5 is shown for informational purposes only.

(b) Age-to-age factors for developing accident years 2011 to 2016 were adjusted for changes in claim settlement rates based on 3-year average selections (see AC18-03-02, Exhibit 2.5.8, Item Q). The cumulative loss development factors for developing accident years 2012 through 2016 are adjusted for the impact of SB 863 (see AC18-03-02, Exhibit 2.5.1).

(c) See AC18-03-02, Exhibit 3.2, Column (2).

(d) Based on AC18-03-02, Exhibits 2.6.1 and includes adjustments for SB 863 and SB 1160. Age-to-age factors for developing accident years 2011 to 2016 were adjusted for changes in claim settlement rates based on 3-year average selections (see AC18-03-02, Exhibit 2.6.8, Item R).

#### Projected On-Level Accident Year Indemnity Loss to Industry Average Filed Pure Premium Ratios Adjusted for the Impact of Reforms and Changes in Claim Settlement Rates Based on 3-Year Average Selections Based on Experience as of December 31, 2017

|          | Da                  | sed on Experience as or Dece | amber 31, 2017       |                        |
|----------|---------------------|------------------------------|----------------------|------------------------|
|          | (1)                 | (2)                          | (3)                  | (4)                    |
|          |                     |                              |                      | On-Level Indemnity to  |
| Accident | Developed Indemnity | Composite Indemnity          | Composite Premium    | Industry Average Filed |
| Year     | Loss Ratio(a)       | Adjustment Factor(b)         | Adjustment Factor(c) | Pure Premium Ratio     |
|          |                     |                              | <u> </u>             | (1) x (2) ÷ (3)        |
| 2006     | 0.160               | 1.486                        | 0.956                | 0.249                  |
| 2007     | 0.221               | 1.439                        | 1.222                | 0.261                  |
| 2008     | 0.282               | 1.356                        | 1.476                | 0.259                  |
| 2009     | 0.330               | 1.329                        | 1.591                | 0.276                  |
| 2010     | 0.322               | 1.311                        | 1.446                | 0.292                  |
| 2011     | 0.300               | 1.290                        | 1.321                | 0.293                  |
| 2012     | 0.270               | 1.260                        | 1.177                | 0.289                  |
| 2013     | 0.240               | 1.220                        | 1.028                | 0.285                  |
| 2014     | 0.236               | 1.105                        | 0.948                | 0.276                  |
| 2015     | 0.235               | 1.077                        | 0.905                | 0.280                  |
| 2016     | 0.231               | 1.064                        | 0.926                | 0.265                  |
| 2017     | 0.249               | 1.043                        | 0.977                | 0.266                  |
|          |                     |                              |                      |                        |

Projected (d)

0.263 0.259

(a) See Exhibit 7.1.

2018

4/1/2019

- (b) Based on AC18-03-02, Exhibit 4.1.
- (c) See AC18-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC18-03-02, Exhibit 6.2, the actual frequency trend for accident year 2017 from AC18-03-02, Exhibit 12, and projected frequency trends for accident years 2018 and 2019 from AC18-03-02, Exhibit 6.1; these trends were then separately applied to the 2016 and 2017 on-level ratios.

#### Projected On-Level Accident Year Medical Loss to Industry Average Filed Pure Premium Ratios Adjusted for the Impact of Reforms and Changes in Claim Settlement Rates Based on 3-Year Average Selections Based on Experience as of December 31, 2017

|          | Ba                | ased on Experience as of Dece | ember 31, 2017       |                        |
|----------|-------------------|-------------------------------|----------------------|------------------------|
|          | (1)               | (2)                           | (3)                  | (4)                    |
|          |                   |                               |                      | On-Level Medical to    |
| Accident | Developed Medical | Composite Medical             | Composite Premium    | Industry Average Filed |
| Year     | Loss Ratio(a)     | Adjustment Factor(b)          | Adjustment Factor(c) | Pure Premium Ratio(e)  |
|          |                   | <u></u>                       |                      | (1) x (2) ÷ (3)        |
| 2006     | 0.248             | 0.961                         | 0.956                | 0.250                  |
| 2007     | 0.352             | 0.943                         | 1.222                | 0.272                  |
| 2008     | 0.447             | 0.936                         | 1.476                | 0.284                  |
| 2009     | 0.529             | 0.923                         | 1.591                | 0.307                  |
| 2010     | 0.529             | 0.920                         | 1.446                | 0.337                  |
| 2011     | 0.462             | 0.936                         | 1.321                | 0.327                  |
| 2012     | 0.403             | 0.974                         | 1.177                | 0.334                  |
| 2013     | 0.337             | 1.004                         | 1.028                | 0.329                  |
| 2014     | 0.307             | 1.010                         | 0.948                | 0.327                  |
| 2015     | 0.298             | 1.011                         | 0.905                | 0.333                  |
| 2016     | 0.297             | 1.011                         | 0.926                | 0.324                  |
| 2017     | 0.335             | 1.012                         | 0.977                | 0.347                  |
|          |                   |                               |                      |                        |

Projected (d)

0.347 0.350

(a) See Exhibit 7.1.

2018

4/1/2019

- (b) Based on AC18-03-02, Exhibit 4.4.
- (c) See AC18-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual medical severity trend from AC18-03-02, Exhibit 6.4, the actual frequency trend for accident year 2017 from AC18-03-02, Exhibit 12, and projected frequency trends for accident years 2018 and 2019 from AC18-03-02, Exhibit 6.1; these trends were then separately applied to the 2016 and 2017 on-level ratios.

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

#### Projected On-Level Accident Year Indemnity Loss to Industry Average Filed Pure Premium Ratios Separate Applications of Frequency and Severity Trends Applied to Accident Year 2017 Based on Experience as of December 31, 2017

|                         | (1)                                  | (2)   | (3)                                       | (4)   |
|-------------------------|--------------------------------------|---|---|---|
| Accident<br><u>Year</u> | Developed Indemnity<br>Loss Ratio(a) | Composite Indemnity<br>Adjustment Factor(b) | Composite Premium<br>Adjustment Factor(c) | On-Level Indemnity to<br>Industry Average Filed<br><u>Pure Premium Ratio</u><br>(1) x (2) ÷ (3) |
| 2006                    | 0.160                                | 1.486                                       | 0.956                                     | 0.249   |
| 2007                    | 0.221                                | 1.439                                       | 1.222                                     | 0.261   |
| 2008                    | 0.282                                | 1.356                                       | 1.476                                     | 0.259   |
| 2009                    | 0.330                                | 1.329                                       | 1.591                                     | 0.276   |
| 2010                    | 0.322                                | 1.311                                       | 1.446                                     | 0.292   |
| 2011                    | 0.300                                | 1.290                                       | 1.321                                     | 0.293   |
| 2012                    | 0.270                                | 1.260                                       | 1.177                                     | 0.289   |
| 2013                    | 0.240                                | 1.220                                       | 1.028                                     | 0.284   |
| 2014                    | 0.235                                | 1.105                                       | 0.948                                     | 0.274   |
| 2015                    | 0.233                                | 1.077                                       | 0.905                                     | 0.277   |
| 2016                    | 0.227                                | 1.064                                       | 0.926                                     | 0.261   |
| 2017                    | 0.242                                | 1.043                                       | 0.977                                     | 0.258   |

Projected(d) 0.254

0.251

2018 4/1/2019

(a) See AC18-03-02, Exhibit 3.1.

- (b) See AC18-03-02, Exhibit 4.1.
- (c) See AC18-03-02, Exhibit 5.2.

(d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC18-03-02, Exhibit 6.2, and projected frequency trends for accident years 2018 and 2019 from AC18-03-02, Exhibit 6.1; these trends were then separately applied to the 2017 on-level ratio.

#### **Projected On-Level Accident Year** Medical Loss to Industry Average Filed Pure Premium Ratios Separate Applications of Frequency and Severity Trends Applied to Accident Year 2017 Based on Experience as of December 31, 2017

|                         | (1)                                | (2)                                       | (3)                                       | (4)  |
|-------------------------|------------------------------------|---|---|--|
| Accident<br><u>Year</u> | Developed Medical<br>Loss Ratio(a) | Composite Medical<br>Adjustment Factor(b) | Composite Medical<br>Adjustment Factor(c) | On-Level Medical to<br>Industry Average Filed<br><u>Pure Premium Ratio(e)</u><br>(1) x (2) ÷ (3) |
| 2006                    | 0.248                              | 0.961                                     | 0.956                                     | 0.250  |
| 2007                    | 0.352                              | 0.943                                     | 1.222                                     | 0.272  |
| 2008                    | 0.447                              | 0.936                                     | 1.476                                     | 0.284  |
| 2009                    | 0.529                              | 0.923                                     | 1.591                                     | 0.307  |
| 2010                    | 0.529                              | 0.920                                     | 1.446                                     | 0.337  |
| 2011                    | 0.462                              | 0.936                                     | 1.321                                     | 0.327  |
| 2012                    | 0.402                              | 0.974                                     | 1.177                                     | 0.333  |
| 2013                    | 0.335                              | 1.004                                     | 1.028                                     | 0.327  |
| 2014                    | 0.300                              | 1.010                                     | 0.948                                     | 0.320  |
| 2015                    | 0.288                              | 1.011                                     | 0.905                                     | 0.322  |
| 2016                    | 0.281                              | 1.011                                     | 0.926                                     | 0.307  |
| 2017                    | 0.310                              | 1.012                                     | 0.977                                     | 0.321  |

Projected(d) 0.327

0.329

2018 4/1/2019

See AC18-03-02, Exhibit 3.2. (a)

- (b) See AC18-03-02, Exhibit 4.4.
- See AC18-03-02, Exhibit 5.2. (c)

These on-level ratios were projected based on an estimated annual medical severity trend from AC18-03-02, (d) Exhibit 6.4, and projected frequency trends for accident years 2018 and 2019 from AC18-03-02, Exhibit 6.1; these trends were then separately applied to the 2017 on-level ratio.

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

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

|                  | (1)                                  | (2)   | (3)                                       | (4)   |
|------------------|--------------------------------------|---|---|---|
| Accident<br>Year | Developed Indemnity<br>Loss Ratio(a) | Composite Indemnity<br>Adjustment Factor(b) | Composite Premium<br>Adjustment Factor(c) | On-Level Indemnity to<br>Industry Average Filed<br><u>Pure Premium Ratio</u><br>(1) x (2) ÷ (3) |
| 2006             | 0.160                                | 1.486                                       | 0.956                                     | 0.249   |
| 2007             | 0.221                                | 1.439                                       | 1.222                                     | 0.261   |
| 2008             | 0.282                                | 1.356                                       | 1.476                                     | 0.259   |
| 2009             | 0.330                                | 1.329                                       | 1.591                                     | 0.276   |
| 2010             | 0.322                                | 1.311                                       | 1.446                                     | 0.292   |
| 2011             | 0.300                                | 1.290                                       | 1.321                                     | 0.293   |
| 2012             | 0.270                                | 1.260                                       | 1.177                                     | 0.289   |
| 2013             | 0.240                                | 1.220                                       | 1.028                                     | 0.284   |
| 2014             | 0.235                                | 1.105                                       | 0.948                                     | 0.274   |
| 2015             | 0.233                                | 1.077                                       | 0.905                                     | 0.277   |
| 2016             | 0.227                                | 1.064                                       | 0.926                                     | 0.261   |
| 2017             | 0.242                                | 1.043                                       | 0.977                                     | 0.258   |

Projected(d)

0.251 0.246

2018 4/1/2019

(a) See AC18-03-02, Exhibit 3.1.

- (b) See AC18-03-02, Exhibit 4.1.
- (c) See AC18-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected by separately applying an exponential trend of approximately -2.3% based on the 2012 to 2017 on-level indemnity to industry average filed pure premium ratios to each of the 2016 and 2017 onlevel indemnity to industry average filed pure premium ratios. Each stated projection is equal to the average of the corresponding trended on-level ratios.

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

|                         | (1)                                | (2)                                       | (3)                                       | (4)<br>On-Level Medical to  |
|-------------------------|------------------------------------|---|---|---|
| Accident<br><u>Year</u> | Developed Medical<br>Loss Ratio(a) | Composite Medical<br>Adjustment Factor(b) | Composite Medical<br>Adjustment Factor(c) | Industry Average Filed<br><u>Pure Premium Ratio(e)</u><br>(1) x (2) ÷ (3) |
| 2006                    | 0.248                              | 0.961                                     | 0.956                                     | 0.250   |
| 2007                    | 0.352                              | 0.943                                     | 1.222                                     | 0.272   |
| 2008                    | 0.447                              | 0.936                                     | 1.476                                     | 0.284   |
| 2009                    | 0.529                              | 0.923                                     | 1.591                                     | 0.307   |
| 2010                    | 0.529                              | 0.920                                     | 1.446                                     | 0.337   |
| 2011                    | 0.462                              | 0.936                                     | 1.321                                     | 0.327   |
| 2012                    | 0.402                              | 0.974                                     | 1.177                                     | 0.333   |
| 2013                    | 0.335                              | 1.004                                     | 1.028                                     | 0.327   |
| 2014                    | 0.300                              | 1.010                                     | 0.948                                     | 0.320   |
| 2015                    | 0.288                              | 1.011                                     | 0.905                                     | 0.322   |
| 2016                    | 0.281                              | 1.011                                     | 0.926                                     | 0.307   |
| 2017                    | 0.310                              | 1.012                                     | 0.977                                     | 0.321   |

Projected(d)

0.309 0.307

4/1/2019

2018

(a) See AC18-03-02, Exhibit 3.2.

- (b) See AC18-03-02, Exhibit 4.4.
- (c) See AC18-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected by separately applying an exponential trend of approximately -1.1% based on the 2012 to 2017 on-level medical to industry average filed pure premium ratios to each of the 2016 and 2017 onlevel medical to industry average filed pure premium ratios. Each stated projection is equal to the average of the corresponding trended on-level ratios.
- (e) Accident years 2011 and subsequent do not reflect the paid cost of medical cost containment programs (MCCP). Accident years 2010 and prior do reflect paid MCCP costs.

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

|                         | (1)                                  | (2)   | (3)                                       | (4)   |
|-------------------------|--------------------------------------|---|---|---|
| Accident<br><u>Year</u> | Developed Indemnity<br>Loss Ratio(a) | Composite Indemnity<br>Adjustment Factor(b) | Composite Premium<br>Adjustment Factor(c) | On-Level Indemnity to<br>Industry Average Filed<br><u>Pure Premium Ratio</u><br>(1) x (2) ÷ (3) |
| 2006                    | 0.160                                | 1.486                                       | 0.956                                     | 0.249   |
| 2007                    | 0.221                                | 1.439                                       | 1.222                                     | 0.261   |
| 2008                    | 0.282                                | 1.356                                       | 1.476                                     | 0.259   |
| 2009                    | 0.330                                | 1.329                                       | 1.591                                     | 0.276   |
| 2010                    | 0.322                                | 1.311                                       | 1.446                                     | 0.292   |
| 2011                    | 0.300                                | 1.290                                       | 1.321                                     | 0.293   |
| 2012                    | 0.270                                | 1.260                                       | 1.177                                     | 0.289   |
| 2013                    | 0.240                                | 1.220                                       | 1.028                                     | 0.284   |
| 2014                    | 0.235                                | 1.105                                       | 0.948                                     | 0.274   |
| 2015                    | 0.233                                | 1.077                                       | 0.905                                     | 0.277   |
| 2016                    | 0.227                                | 1.064                                       | 0.926                                     | 0.261   |
| 2017                    | 0.242                                | 1.043                                       | 0.977                                     | 0.258   |

Projected(d) 0.252

0.247

2018 4/1/2019

See AC18-03-02, Exhibit 3.1. (a)

(b) See AC18-03-02, Exhibit 4.1.

(c) See AC18-03-02, Exhibit 5.2.

(d) These on-level ratios were projected by separately applying an exponential trend of approximately -2.3% based on the 2012 to 2017 on-level indemnity to industry average filed pure premium ratios to the 2017 on-level indemnity to industry average filed pure premium ratio.

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

|                         | (1)                                | (2)                                       | (3)                                       | (4)<br>On-Level Medical to  |
|-------------------------|------------------------------------|---|---|---|
| Accident<br><u>Year</u> | Developed Medical<br>Loss Ratio(a) | Composite Medical<br>Adjustment Factor(b) | Composite Medical<br>Adjustment Factor(c) | Industry Average Filed<br><u>Pure Premium Ratio(e)</u><br>(1) x (2) ÷ (3) |
| 2006                    | 0.248                              | 0.961                                     | 0.956                                     | 0.250   |
| 2007                    | 0.352                              | 0.943                                     | 1.222                                     | 0.272   |
| 2008                    | 0.447                              | 0.936                                     | 1.476                                     | 0.284   |
| 2009                    | 0.529                              | 0.923                                     | 1.591                                     | 0.307   |
| 2010                    | 0.529                              | 0.920                                     | 1.446                                     | 0.337   |
| 2011                    | 0.462                              | 0.936                                     | 1.321                                     | 0.327   |
| 2012                    | 0.402                              | 0.974                                     | 1.177                                     | 0.333   |
| 2013                    | 0.335                              | 1.004                                     | 1.028                                     | 0.327   |
| 2014                    | 0.300                              | 1.010                                     | 0.948                                     | 0.320   |
| 2015                    | 0.288                              | 1.011                                     | 0.905                                     | 0.322   |
| 2016                    | 0.281                              | 1.011                                     | 0.926                                     | 0.307   |
| 2017                    | 0.310                              | 1.012                                     | 0.977                                     | 0.321   |

Projected(d) 0.318

0.315

2018 4/1/2019

See AC18-03-02, Exhibit 3.2. (a)

(b) See AC18-03-02, Exhibit 4.4.

See AC18-03-02, Exhibit 5.2. (c)

(d) These on-level ratios were projected by separately applying an exponential trend of approximately -1.1% based on the 2012 to 2017 on-level medical to industry average filed pure premium ratios to the 2017 on-level medical to industry average filed pure premium ratios.

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

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

|                         | (1)                                  | (2)   | (3)                                       | (4)   |
|-------------------------|--------------------------------------|---|---|---|
| Accident<br><u>Year</u> | Developed Indemnity<br>Loss Ratio(a) | Composite Indemnity<br>Adjustment Factor(b) | Composite Premium<br>Adjustment Factor(c) | On-Level Indemnity to<br>Industry Average Filed<br><u>Pure Premium Ratio</u><br>(1) x (2) ÷ (3) |
| 2006                    | 0.160                                | 1.486                                       | 0.956                                     | 0.249   |
| 2007                    | 0.221                                | 1.439                                       | 1.222                                     | 0.261   |
| 2008                    | 0.282                                | 1.356                                       | 1.476                                     | 0.259   |
| 2009                    | 0.330                                | 1.329                                       | 1.591                                     | 0.276   |
| 2010                    | 0.322                                | 1.311                                       | 1.446                                     | 0.292   |
| 2011                    | 0.300                                | 1.290                                       | 1.321                                     | 0.293   |
| 2012                    | 0.270                                | 1.260                                       | 1.177                                     | 0.289   |
| 2013                    | 0.240                                | 1.220                                       | 1.028                                     | 0.284   |
| 2014                    | 0.235                                | 1.105                                       | 0.948                                     | 0.274   |
| 2015                    | 0.233                                | 1.077                                       | 0.905                                     | 0.277   |
| 2016                    | 0.227                                | 1.064                                       | 0.926                                     | 0.261   |
| 2017                    | 0.242                                | 1.043                                       | 0.977                                     | 0.258   |

Projected(d) 0.252

0.248

2018 4/1/2019

(a) See AC18-03-02, Exhibit 3.1.

(b) See AC18-03-02, Exhibit 4.1.

(c) See AC18-03-02, Exhibit 5.2.

(d) These on-level ratios were projected by fitting an exponential trend to the 2012 to 2017 on-level indemnity to industry average filed pure premium ratios.

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

|                         | (1)                                | (2)                                       | (3)                                       | (4)   |
|-------------------------|------------------------------------|---|---|---|
| Accident<br><u>Year</u> | Developed Medical<br>Loss Ratio(a) | Composite Medical<br>Adjustment Factor(b) | Composite Medical<br>Adjustment Factor(c) | On-Level Medical to<br>Industry Average Fileo<br><u>Pure Premium Ratio(e</u><br>(1) x (2) ÷ (3) |
| 2006                    | 0.248                              | 0.961                                     | 0.956                                     | 0.250   |
| 2007                    | 0.352                              | 0.943                                     | 1.222                                     | 0.272   |
| 2008                    | 0.447                              | 0.936                                     | 1.476                                     | 0.284   |
| 2009                    | 0.529                              | 0.923                                     | 1.591                                     | 0.307   |
| 2010                    | 0.529                              | 0.920                                     | 1.446                                     | 0.337   |
| 2011                    | 0.462                              | 0.936                                     | 1.321                                     | 0.327   |
| 2012                    | 0.402                              | 0.974                                     | 1.177                                     | 0.333   |
| 2013                    | 0.335                              | 1.004                                     | 1.028                                     | 0.327   |
| 2014                    | 0.300                              | 1.010                                     | 0.948                                     | 0.320   |
| 2015                    | 0.288                              | 1.011                                     | 0.905                                     | 0.322   |
| 2016                    | 0.281                              | 1.011                                     | 0.926                                     | 0.307   |
| 2017                    | 0.310                              | 1.012                                     | 0.977                                     | 0.321   |

Projected(d) 0.310

0.308

2018 4/1/2019

See AC18-03-02, Exhibit 3.2. (a)

(b) See AC18-03-02, Exhibit 4.4.

See AC18-03-02, Exhibit 5.2. (c)

(d) These on-level ratios were projected by fitting an exponential trend to the 2012 to 2017 on-level medical to industry average filed pure premium ratios.

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

## Item AC18-04-03 Impact of the Affordable Care Act on California Workers' Compensation

The Patient Protection and Affordable Care Act (ACA) was signed into law by President Obama in 2010. The ACA, which included an expansion of Medicaid (Medi-Cal) in California, has significantly increased access to health care benefits for both workers and the general California population, which could impact the California workers' compensation system.

At the December 4, 2013 meeting, the Committee discussed potential system components such as access to care, fee schedule discounting, frequency of workers' compensation claims, particularly for types of claims for which it may not be fully clear that the arising injury was work-related, and comorbidities that may be impacted by the ACA. WCIRB staff has completed a preliminary analysis of potential ACA impacts on the California workers' compensation system and will summarize the findings at the meeting.

## Item AC18-04-04 Impact of Medical Fraud Enforcement

Senate Bill No. 1160 (SB 1160) and Assembly Bill No. 1244 (AB 1244) enacted in 2016 included a number of provisions related to providers indicted or convicted of fraud. At the December 6, 2017 meeting, the Committee discussed an analysis of the level of medical services provided by parties that have subsequently been indicted for fraud.

An updated analysis on the amount of medical costs generated by providers indicted for fraud or suspended by the Division of Workers' Compensation will be presented at the meeting.