

Actuarial Committee

Meeting Agenda

DateTimeLocationStaff ContactApril 5, 20169:30 AMWCIRB California
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Released: March 29, 2016

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

I. Approval of Minutes

None

II. Working Group Meeting Summaries

None

III. Unfinished Business

- A. AC16-03-01: First Quarter 2016 Review of Diagnostics
- B. AC16-03-02: 12/31/15 Experience Review of Methodologies
- C. AC16-03-03: Loss Development at Earlier and Later Maturities

IV. New Business

- A. AC16-04-01: 12/31/15 Loss Adjustment Expense Experience Review
- B. AC16-04-02: 12/31/15 Experience Alternative Loss Projections
- C. AC16-04-03: Computation of Industry Average Filed Rates as of 1/1/2016

V. Matters Arising at Time of Meeting

- VI. Next Meeting Date: June 17, 2016
- VII. Adjournment

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Item AC16-03-01 First Quarter 2016 Review of Diagnostics

At the March 22, 2016 meeting, the Committee reviewed the WCIRB's first quarter 2016 summary of diagnostics. The information was also reviewed by the WCIRB Claims Working Group at the March 23, 2016 meeting. A summary of the input of the Claims Working Group on several of the diagnostics discussed at the Actuarial Committee's March 22, 2016 meeting will be provided at the meeting.

Item AC16-03-02 12/31/2015 Experience - Review of Methodologies

At the March 22, 2016 meeting, the Committee reviewed a preliminary summary of accident year experience through December 31, 2015. The attached Exhibits 1 through 8 contain an updated analysis of December 31, 2015 experience. In total, almost 100% of the market is included. The loss projection methodologies are consistent with those reflected in the analysis presented at the March 22, 2016 meeting and those reflected in the January 1, 2016 Pure Premium Rate Filing and include the updated adjustments for Senate Bill No. 863 that were adopted by the Committee at the March 22, 2016 meeting. Wage and loss levels are projected to April 1, 2016—the approximate midpoint of experience on policies incepting during the period from July 1, 2016 through December 31, 2016. Premiums have been onleveled to the January 1, 2016 industry average filed pure premium rate level.¹ Other changes from the analysis presented at the March 22, 2016 meeting include revisions to several insurer data submissions.

As shown on Exhibit 8, based on December 31, 2015 accident year experience, the projected loss ratio for policies incepting during the period from July 1, 2016 through December 31, 2016 is 0.659. (The projected July 1, 2016 policy period loss ratio benchmarked to the industry average filed pure premium rate as of July 1, 2015 is identical to the 0.637 presented at the March 22, 2016 meeting and compares to 0.685 reflected in the January 1, 2016 Pure Premium Rate Filing.)

Exhibits 9 through 12 include supplemental information based on December 31, 2015 experience.

III-B-1
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¹ The analysis presented at the March 22, 2016 meeting on-leveled premiums to the July 1, 2015 industry average filed pure premium rate level.

California Workers' Compensation Accident Year Experience as of December 31, 2015

<u>Year</u>	Earned <u>Premium</u>	Paid <u>Indemnity</u>	Indemnity <u>Reserves</u>	Paid <u>Medical</u> **	Medical <u>Reserves</u>	<u>IBNR</u> *	Total <u>Incurred</u> **	Loss <u>Ratio*</u>
1985	2,873,069,049	1,276,842,237	5,221,379	980,474,811	27,361,821	19,174,130	2,309,074,378	0.804
1986	3,508,220,885	1,380,350,151	6,725,683	1,125,164,178	43,099,748	59,763,857	2,615,103,617	0.745
1987	4,374,633,116	1,502,568,746	7,438,267	1,320,170,732	54,524,192	36,386,094	2,921,088,031	0.668
1988	5,173,024,985	1,699,036,635	8,914,044	1,522,995,339	55,539,533	49,364,758	3,335,850,309	0.645
1989	5,676,279,371	1,935,212,902	10,602,882	1,776,220,786	74,229,737	51,626,308	3,847,892,615	0.678
1990	5,705,868,231	2,255,622,354	10,203,319	2,024,066,551	71,545,368	68,840,883	4,430,278,475	0.776
1991	5,872,566,346	2,472,504,709	21,136,635	2,174,424,358	85,373,840	76,610,738	4,830,050,280	0.822
1992	5,692,939,950	1,971,655,030	18,580,509	1,731,616,208	85,722,658	75,354,509	3,882,928,914	0.682
1993	5,942,544,967	1,688,625,872	18,545,539	1,479,169,711	111,614,954	65,757,371	3,363,713,447	0.566
1994	5,034,832,088	1,618,932,209	26,433,473	1,433,693,639	129,174,095	68,123,770	3,276,357,186	0.651
1995	3,790,123,513	1,750,953,941	39,303,625	1,566,803,501	155,243,728	82,396,810	3,594,701,605	0.948
1996	3,748,266,525	1,934,730,621	46,528,191	1,664,472,084	160,861,710	86,461,590	3,893,054,196	1.039
1997	3,928,295,572	2,296,304,739	58,757,894	1,961,829,371	191,165,028	145,968,157	4,654,025,189	1.185
1998	4,333,678,943	2,742,480,991	72,933,637	2,555,240,149	304,392,376	235,373,518	5,910,420,671	1.364
1999	4,551,891,247	3,019,129,256	80,728,570	2,922,968,472	305,811,474	325,527,552	6,654,165,324	1.462
2000	5,923,847,825	3,378,239,216	105,008,181	3,448,053,729	369,651,336	462,754,260	7,763,706,722	1.311
2001	10,112,328,817	4,739,761,177	170,229,917	5,136,555,444	611,334,999	718,360,289	11,376,241,826	1.125
2002	13,432,883,148	4,670,822,677	153,419,867	5,261,750,203	553,178,156	1,033,457,514	11,672,628,417	0.869
2003	19,477,785,340	4,410,057,570	228,528,674	4,803,616,603	582,986,169	1,451,229,898	11,476,418,914	0.589
2004	23,104,564,373	3,093,290,225	200,676,246	3,828,485,214	515,944,984	1,460,064,167	9,098,460,836	0.394
2005	21,406,773,529	2,412,946,176	178,467,354	3,411,564,431	486,161,139	1,243,994,804	7,733,133,904	0.361
2006	17,267,560,696	2,477,381,494	207,408,590	3,489,371,004	538,389,398	939,643,837	7,652,194,323	0.443
2007	13,306,236,289	2,563,543,453	247,773,620	3,690,642,590	610,395,259	1,012,931,710	8,125,286,632	0.611
2008	10,840,254,905	2,597,718,724	268,274,785	3,660,019,294	629,987,220	823,853,518	7,979,853,541	0.736
2009	9,017,907,435	2,419,112,091	295,126,540	3,427,094,888	643,234,839	798,805,114	7,583,373,472	0.841
2010	9,529,589,971	2,366,345,948	332,905,429	3,385,814,321	677,356,674	1,011,831,109	7,774,253,481	0.816
2011	10,292,096,107	2,201,305,123	417,318,704	2,884,913,131	831,324,520	1,604,576,571	7,939,438,049	0.771
2012	11,908,578,021	2,037,616,234	515,221,515	2,571,325,042	902,921,912	2,022,579,422	8,049,664,125	0.676
2013	14,331,715,575	1,720,309,374	674,754,469	2,091,037,939	1,086,224,070	3,350,857,922	8,923,183,774	0.623
2014	16,082,002,182	1,129,152,772	861,637,084	1,451,755,887	1,274,310,199	5,065,694,536	9,782,550,478	0.608
2015	17,064,858,996	371,978,429	715,086,190	599,622,444	1,290,023,294	6,877,764,373	9,854,474,730	0.577

^{*} Shown for informational purposes only

Source: WCIRB quarterly experience calls

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

Incurred Indemnity Loss Development Factors

								Age-to-A	ge (in mor	nths)						
Accident Year	24/12	36/24	48/36	60/48	72/60	84/72	96/84	108/96	120/108	132/120	144/132	<u>156/144</u>	<u>168/156</u>	<u>180/168</u>	192/180	204/192
1990																1.001
1991															1.003	1.000
1992														1.002	1.001	0.999
1993													1.002	1.001	0.998	0.999
1994												1.002	1.002	0.997	1.000	1.000
1995											1.003	1.003	1.000	1.002	1.002	1.000
1996										1.001	1.004	1.000	1.000	1.000	1.001	1.002
1997									1.007	1.005	1.002	1.002	1.003	1.002	1.001	1.001
1998								1.008	1.004	1.004	1.002	1.003	1.004	1.001	1.002	1.001
1999							1.011	1.006	1.007	1.004	1.002	1.003	1.003	1.002	1.002	1.001
2000						1.015	1.011	1.008	1.004	1.004	1.005	1.003	1.001	1.004	1.002	
2001					1.023	1.021	1.014	1.009	1.006	1.007	1.006	1.005	1.003	1.002		
2002			4 000	1.033	1.033	1.018	1.011	1.010	1.010	1.007	1.005	1.003	1.002			
2003		4.450	1.069	1.056	1.033	1.021	1.018	1.015	1.015	1.009	1.006	1.004				
2004	4.500	1.158	1.083	1.042	1.041	1.026	1.028	1.018	1.014	1.007	1.007					
2005	1.503	1.218	1.098	1.068	1.053	1.040	1.028	1.016	1.012	1.006						
2006	1.690	1.247	1.111 1.120	1.080 1.070	1.053	1.035	1.023	1.015 1.012	1.009							
2007 2008	1.784 1.858	1.273 1.302	1.120	1.070	1.049 1.045	1.037 1.030	1.022 1.019	1.012								
2008	1.036	1.293	1.130	1.074	1.043	1.030	1.019									
2010	1.994	1.315	1.131	1.070	1.046	1.024										
2010	1.997	1.277	1.133	1.062	1.043											
2012	1.992	1.279	1.114	1.002												
2013	1.931	1.260														
2014	1.961	1.200														
2017	1.001															
Selected (a)	1.961	1.260	1.114	1.062	1.045	1.024	1.019	1.012	1.012	1.007	1.006	1.004	1.002	1.003	1.002	1.001
Cumulative	3.373	1.720	1.365	1.225	1.154	1.104	1.078	1.058	1.046	1.033	1.026	1.020	1.016	1.014	1.011	1.009

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

Incurred Indemnity Loss Development Factors (Continued)

							Ag	e-to-Age (in	months)						
Accident Year	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300	324/312	336/324	348/336	360/348	372/360	ULT/372Inc (b)
1980										1.001	0.998	1.000	1.000		1.002
1981									1.001	1.001	1.002	0.999	1.001		1.001
1982								1.001	1.000	1.002	1.000	1.001	1.001		1.002
1983							1.001	1.001	1.000	1.000	1.001	1.001	1.001	1.001	1.001
1984						1.001	1.000	1.000	1.001	1.001	1.000	1.001	1.001	1.000	1.001
1985					1.001	1.001	1.000	1.001	1.000	1.001	1.001	1.001	1.001	1.000	1.001
1986				1.000	1.000	1.001	1.001	1.000	1.001	1.002	1.001	1.000	0.999		
1987			1.000	1.000	0.999	1.000	1.000	1.001	1.002	1.000	1.001	1.001			
1988		1.001	1.000	1.001	1.000	1.001	1.002	1.001	1.000	1.000	1.000				
1989	1.003	1.000	1.000	1.001	1.000	1.001	1.000	1.000	1.000	1.001					
1990	1.000	1.001	1.000	0.999	1.001	1.000	1.000	1.000	1.000						
1991	1.000	1.001	1.001	1.000	1.000	1.000	1.000	1.000							
1992	0.998	1.001	1.001	1.000	1.001	1.001	1.000								
1993	0.999	1.001	1.001	1.001	1.001	1.000									
1994	1.001	1.001	1.002	1.000	1.001										
1995	1.003	1.001	0.998	1.001											
1996	1.003	1.000	1.000												
1997	1.000	1.000													
1998	1.003														
Selected (a)	1.002	1.000	1.000	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.001	1.001	1.000	1.000	
Cumulative	1.008	1.006	1.006	1.006	1.005	1.004	1.004	1.004	1.004	1.004	1.003	1.003	1.002	1.002	1.001 (c)

⁽b) To adjust for non-repeating asbestosis claim patterns in older accident years, these factors are reflected at 20% of the reported ULT/372Inc factors. The original factors were 1.012, 1.005, 1.009, 1.004, 1.004, and 1.003, respectively.

⁽c) Six-year average of the ULT/372Inc factors is selected.

Incurred Medical Loss Development Factors

							Ag	e-to-Age (in months)	(b)						
Accident Year	24/12	36/24	48/36	60/48	72/60	84/72	96/84	108/96	120/108	132/120	144/132	156/144	168/156	180/168	192/180	204/192
1990																1.004
1991															1.011	1.004
1992														1.002	1.010	1.011
1993													1.009	1.013	1.018	1.007
1994												1.018	1.008	1.009	1.021	1.011
1995											1.011	1.023	1.028	1.016	1.005	1.009
1996										1.019	1.014	1.024	1.018	1.013	1.014	1.005
1997									1.015	1.023	1.030	1.012	1.015	1.012	1.003	1.007
1998								1.024	1.038	1.023	1.020	1.017	1.004	1.014	1.008	1.012
1999						4 000	1.026	1.038	1.030	1.019	1.018	1.013	1.011	1.013	1.005	0.999
2000					4.044	1.029	1.044	1.028	1.017	1.024	1.018	1.018	1.012	1.006	0.999	
2001				4 000	1.041	1.045	1.040	1.034	1.035	1.022	1.017	1.015	1.013	1.001		
2002			4.057	1.039	1.056	1.040	1.036	1.029	1.028	1.022	1.014	1.010	0.999			
2003		4.405	1.057	1.059	1.060	1.042	1.042	1.037	1.029	1.018	1.011	1.003				
2004	4 200	1.135	1.113	1.081	1.060	1.061	1.043	1.032	1.026	1.012	1.006					
2005 2006	1.389 1.460	1.172 1.196	1.087 1.103	1.074 1.081	1.084 1.066	1.055 1.048	1.045 1.040	1.032 1.022	1.020 1.012	1.006						
2007	1.518	1.196	1.103	1.081	1.000	1.046	1.040	1.022	1.012							
2007	1.516	1.212	1.124	1.091	1.070	1.030	1.032	1.010								
2008	1.604	1.212	1.129	1.092	1.061	1.030	1.020									
2010	1.620	1.245	1.134	1.007	1.045	1.000										
2011	1.667	1.222	1.125	1.070	1.040											
2012	1.626	1.197	1.099	1.070												
2013	1.591	1.164	1.000													
2014	1.561	1.101														
2011	1.001															
Selected (a)	1.561	1.164	1.099	1.070	1.045	1.030	1.026	1.018	1.019	1.012	1.010	1.009	1.008	1.007	1.004	1.006
Cumulative	2.762	1.769	1.520	1.383	1.293	1.237	1.201	1.170	1.150	1.128	1.115	1.103	1.093	1.084	1.077	1.073

⁽a) Selections are latest year for the 12-to-24 month through 96-to-108 month factors and three-year average for the subsequent age-to-age factors.(b) Incurred medical loss development factors include the paid cost of medical cost containment programs.

Exhibit 2.2.2

Incurred Medical Loss Development Factors (Continued)

							Age	-to-Age (ii	n months)						
Accident Year	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300	324/312	336/324	348/336	360/348	372/360	ULT/372Inc (d)
1980										1.005	1.005	1.013	1.006		1.066
1981									1.002	1.001	1.003	1.002	1.001		1.040
1982								1.000	1.014	1.006	1.004	1.003	1.009		1.065
1983							1.005	1.001	1.006	1.004	1.002	1.006	1.003	1.004	1.016
1984						1.004	1.002	1.003	1.003	1.002	1.003	1.001	1.003	1.001	1.032
1985					1.004	1.000	1.001	1.003	1.003	1.003	1.005	1.002	1.003	0.998	1.007
1986				1.001	1.005	1.003	1.006	1.005	1.006	1.004	1.005	1.000	1.002		
1987			1.006	1.000	1.003	1.011	0.999	1.007	1.003	1.004	1.005	1.001			
1988		1.004	1.002	1.006	1.005	1.005	1.002	1.005	1.003	1.003	1.002				
1989	0.999	1.007	1.006	1.005	1.005	1.008	1.006	1.000	1.003	0.999					
1990	1.003	1.007	1.007	1.005	1.003	1.003	1.003	0.997	1.002						
1991	1.008	1.005	1.006	1.002	1.003	1.002	1.003	1.001							
1992	1.005	1.004	1.002	1.005	1.003	1.005	1.000								
1993	1.007	1.011	1.014	1.004	0.999	1.000									
1994	1.011	1.004	1.007	1.006	1.001										
1995	1.015	0.996	1.006	0.999											
1996	1.008	1.005	1.001												
1997	1.001	0.994													
1998	1.001														
Colooted (a)	1.002	0.000	1 005	1 002	1 001	1 000	1 000	0.000	1 002	1 000	1 004	1 001	1 002	1 001	
Selected (a)	1.003	0.998	1.005	1.003	1.001	1.002	1.002	0.999	1.003	1.002	1.004	1.001	1.003	1.001	1 038 (a)
Cumulative	1.066	1.063	1.065	1.060	1.056	1.055	1.053	1.051	1.052	1.049	1.047	1.043	1.041	1.039	1.038 (c)

- (c) Six-year average of the ULT/372Inc factors is selected.(d) ULT/372Inc factors have been adjusted for the effects of medical inflation.

Paid Indemnity Loss Development Factors

								Age-to-A	ge (in mor	nths)							
Accident Year	24/12	36/24	48/36	60/48	72/60	84/72	96/84	108/96	120/108	132/120	144/132	156/144	168/156	180/168	192/180	204/192	
1990																1.002	
1991															1.004	1.003	
1992														1.004	1.003	1.003	
1993													1.004	1.004	1.004	1.003	
1994												1.008	1.007	1.006	1.003	1.003	
1995											1.012	1.008	1.007	1.005	1.005	1.003	
1996										1.014	1.012	1.009	1.006	1.006	1.004	1.004	
1997									1.018	1.016	1.012	1.008	1.007	1.006	1.006	1.005	
1998								1.027	1.021	1.015	1.012	1.009	1.009	1.007	1.006	1.006	
1999							1.036	1.025	1.018	1.015	1.011	1.009	1.008	1.007	1.006	1.004	
2000						1.052	1.035	1.025	1.016	1.013	1.010	1.009	1.008	1.007	1.005		
2001					1.077	1.051	1.034	1.024	1.017	1.014	1.012	1.011	1.008	1.007			
2002				1.127	1.075	1.046	1.031	1.020	1.018	1.015	1.014	1.008	1.008				
2003			1.249	1.128	1.072	1.043	1.030	1.026	1.023	1.021	1.015	1.012					
2004		1.522	1.236	1.116	1.073	1.049	1.041	1.035	1.030	1.020	1.015						
2005	2.734	1.512	1.235	1.121	1.079	1.060	1.047	1.042	1.028	1.020							
2006	2.866	1.539	1.229	1.135	1.090	1.068	1.050	1.035	1.026								
2007	2.905	1.547	1.246	1.140	1.092	1.066	1.046	1.033									
2008	2.927	1.577	1.271	1.150	1.092	1.060	1.041										
2009	3.069	1.616	1.280	1.156	1.092	1.061											
2010	3.157	1.628	1.281	1.147	1.091												
2011	3.208	1.613	1.266	1.145													
2012	3.137	1.597	1.264														
2013	3.169	1.608															
2014	3.233																
Selected (a)	3.233	1.608	1.264	1.145	1.091	1.061	1.041	1.033	1.028	1.020	1.015	1.010	1.008	1.007	1.006	1.005	
Cumulative Unadjusted	for																
Impact of SB 863	10.667	3.299	2.052	1.623	1.418	1.300	1.225	1.177	1.139	1.108	1.086	1.070	1.059	1.051	1.044	1.038	
Cumulative Adjusted fo																	
Impact of SB 863 (b)	11.478	3.550	2.087	1.615	1.411												

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

⁽b) The 24-to-ultimate factor for accident year 2014, the 36-to-ultimate factor for accident year 2013, the 48-to-ultimate factor for accident year 2012, and the 60-to-ultimate factor for accident year 2011 have been adjusted by 7.6%, 1.7%, -0.5%, and -0.5% respectively, for the impacts of SB 863 on indemnity loss development. (See Impact of Senate Bill No. 863 on Loss Development Patterns, WCIRB, August 13, 2013.)

Exhibit 2.3.2

Paid Indemnity Loss I	Development Factors	(Continued)
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								Age-to-	-Age (in mo	nths)						
Accident Year	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300	324/312	336/324	348/336	360/348	372/360	372Inc/372Pd	ULT/372Inc (c)
1980										1.001	1.000	1.001	1.002		1.007	1.002
1981									1.002	1.002	1.003	1.000	1.001		1.007	1.001
1982								1.002	1.002	1.003	1.000	1.001	1.002		1.006	1.002
1983							1.001	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.006	1.001
1984						1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.004	1.001
1985					1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.002	1.001	1.001	1.004	1.001
1986				1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001			
1987			1.001	1.001	1.001	1.001	1.001	1.001	1.002	1.001	1.001	1.001				
1988		1.001	1.002	1.001	1.001	1.001	1.002	1.001	1.001	1.001	1.001					
1989	1.002	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001						
1990	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001							
1991	1.002	1.002	1.001	1.001	1.002	1.001	1.001	1.001								
1992	1.002	1.002	1.002	1.002	1.002	1.001	1.001									
1993	1.002	1.003	1.003	1.002	1.002	1.001										
1994	1.004	1.003	1.003	1.003	1.002											
1995	1.005	1.005	1.003	1.003												
1996	1.005	1.004	1.003													
1997	1.004	1.003														
1998	1.006															
Selected (a)	1.005	1.004	1.003	1.003	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.005	
Cumulative	1.032	1.027	1.023	1.020	1.017	1.015	1.014	1.013	1.012	1.011	1.010	1.009	1.008	1.007		1.001(d)

 ⁽c) To adjust for non-repeating asbestosis claim patterns in older accident years, these factors are reflected at 20% of the reported ULT/372Inc factors. The original factors were 1.012, 1.005, 1.009, 1.004, 1.004, and 1.003, respectively.
 (d) A six-year average of the ULT/372Inc and a three-year average of the 372Inc/372Pd factors are selected.

Paid Medical Loss Development Factors

Unadjusted (a)								Age-to-Age	(in months)							
Accident Year 1990	24/12	36/24	<u>48/36</u>	60/48	<u>72/60</u>	84/72	96/84	108/96	120/108	132/120	144/132	<u>156/144</u>	<u>168/156</u>	180/168	192/180	204/192 1.005
1991															1.009	1.003
1992														1.010	1.010	1.017
1993													1.012	1.014	1.013	1.011
1994											4.004	1.018	1.014	1.017	1.013	1.012
1995 1996										1.025	1.024 1.027	1.021 1.023	1.019 1.020	1.018 1.018	1.018 1.016	1.015 1.013
1997									1.033	1.023	1.027	1.023	1.020	1.016	1.014	1.013
1998								1.039	1.033	1.032	1.030	1.021	1.019	1.019	1.015	1.017
1999							1.044	1.035	1.032	1.032	1.025	1.025	1.016	1.016	1.018	1.015
2000						1.056	1.042	1.038	1.031	1.027	1.023	1.020	1.020	1.017	1.013	
2001				4.440	1.076	1.057	1.045	1.038	1.034	1.030	1.022	1.022	1.022	1.017		
2002 2003			1.170	1.112 1.112	1.072 1.074	1.054	1.046	1.034	1.032	1.024 1.030	1.023 1.026	1.018 1.019	1.016			
2004		1.345	1.170	1.112	1.074	1.057 1.070	1.048 1.055	1.041 1.040	1.030 1.036	1.030	1.020	1.019				
2005	2.251	1.345	1.209	1.138	1.095	1.073	1.054	1.049	1.038	1.031	1.021					
2006	2.340	1.399	1.220	1.140	1.099	1.068	1.056	1.042	1.034							
2007	2.416	1.413	1.230	1.142	1.097	1.075	1.057	1.041								
2008	2.325	1.421	1.241	1.148	1.103	1.072	1.051									
2009 2010	2.408 2.479	1.447 1.468	1.251 1.265	1.160 1.152	1.104 1.096	1.067										
2010	2.580	1.470	1.248	1.132	1.090											
2012	2.552	1.455	1.243	1.110												
2013	2.484	1.457														
2014	2.525															
Adjusted (b)																
Adjusted (b)								Age-to-Age	(in months)							
Accident Year	24/12	36/24	<u>48/36</u>	60/48	72/60	84/72	96/84	Age-to-Age 108/96	(in months)	<u>132/120</u>	144/132	<u>156/144</u>	<u>168/156</u>	180/168	<u>192/180</u>	204/192
Accident Year 1997	24/12	<u>36/24</u>	48/36	60/48	<u>72/60</u>	<u>84/72</u>	96/84				144/132	<u>156/144</u>	<u>168/156</u>	180/168		1.015
Accident Year 1997 1998	24/12	36/24	<u>48/36</u>	60/48	72/60	84/72	96/84				144/132	156/144	<u>168/156</u>		1.015	1.015 1.018
Accident Year 1997 1998 1999	24/12	<u>36/24</u>	<u>48/36</u>	60/48	<u>72/60</u>	<u>84/72</u>	96/84				144/132	156/144		1.017	1.015 1.019	1.015
Accident Year 1997 1998 1999 2000	24/12	<u>36/24</u>	<u>48/36</u>	60/48	<u>72/60</u>	84/72	<u>96/84</u>				144/132	156/144 1.023	168/156 1.021 1.024		1.015	1.015 1.018
Accident Year 1997 1998 1999 2000 2001 2002	24/12	36/24	<u>48/36</u>	60/48	<u>72/60</u>	<u>84/72</u>	96/84				1.024		1.021	1.017 1.018	1.015 1.019	1.015 1.018
Accident Year 1997 1998 1999 2000 2001 2002 2003	24/12	36/24	<u>48/36</u>	60/48	<u>72/60</u>	84/72	96/84		120/108	1.031	1.024 1.027	1.023	1.021 1.024	1.017 1.018	1.015 1.019	1.015 1.018
Accident Year 1997 1998 1999 2000 2001 2002 2003 2004	24/12	36/24	48/36	60/48	<u>72/60</u>	84/72	96/84	108/96	120/108	1.031 1.036	1.024	1.023 1.019	1.021 1.024	1.017 1.018	1.015 1.019	1.015 1.018
Accident Year 1997 1998 1999 2000 2001 2002 2003 2004 2005	24/12	36/24	48/36	60/48	<u>72/60</u>	<u>84/72</u>		108/9 <u>6</u>	120/108 1.038 1.041	1.031	1.024 1.027	1.023 1.019	1.021 1.024	1.017 1.018	1.015 1.019	1.015 1.018
Accident Year 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	24/12	36/24	48/36	60/48	72/60		1.058	108/96 1.051 1.045	120/108	1.031 1.036	1.024 1.027	1.023 1.019	1.021 1.024	1.017 1.018	1.015 1.019	1.015 1.018
Accident Year 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	<u>24/12</u>	36/24	48/36	60/48	<u>72/60</u>	84/72 1.079 1.077		108/9 <u>6</u>	120/108 1.038 1.041	1.031 1.036	1.024 1.027	1.023 1.019	1.021 1.024	1.017 1.018	1.015 1.019	1.015 1.018
Accident Year 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	<u>24/12</u>	36/24		1.168	1.108 1.110	1.079	1.058 1.060	108/96 1.051 1.045	120/108 1.038 1.041	1.031 1.036	1.024 1.027	1.023 1.019	1.021 1.024	1.017 1.018	1.015 1.019	1.015 1.018
Accident Year 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	24/12		1.277	1.168 1.160	1.108	1.079 1.077	1.058 1.060	108/96 1.051 1.045	120/108 1.038 1.041	1.031 1.036	1.024 1.027	1.023 1.019	1.021 1.024	1.017 1.018	1.015 1.019	1.015 1.018
Accident Year 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011		1.492	1.277 1.260	1.168	1.108 1.110	1.079 1.077	1.058 1.060	108/96 1.051 1.045	120/108 1.038 1.041	1.031 1.036	1.024 1.027	1.023 1.019	1.021 1.024	1.017 1.018	1.015 1.019	1.015 1.018
Accident Year 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	2.624	1.492 1.471	1.277	1.168 1.160	1.108 1.110	1.079 1.077	1.058 1.060	108/96 1.051 1.045	120/108 1.038 1.041	1.031 1.036	1.024 1.027	1.023 1.019	1.021 1.024	1.017 1.018	1.015 1.019	1.015 1.018
Accident Year 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011		1.492	1.277 1.260	1.168 1.160	1.108 1.110	1.079 1.077	1.058 1.060	108/96 1.051 1.045	120/108 1.038 1.041	1.031 1.036	1.024 1.027	1.023 1.019	1.021 1.024	1.017 1.018	1.015 1.019	1.015 1.018
Accident Year 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	2.624 2.511	1.492 1.471	1.277 1.260	1.168 1.160	1.108 1.110	1.079 1.077	1.058 1.060	108/96 1.051 1.045	120/108 1.038 1.041	1.031 1.036	1.024 1.027	1.023 1.019	1.021 1.024	1.017 1.018	1.015 1.019	1.015 1.018

⁽a) Paid medical loss development factors include the paid cost of medical cost containment programs.

⁽b) These factors are adjusted for the following impacts: (i) reduction of historical outstanding medical losses paid prior to January 1, 2013 by the estimated 4.4% cost savings due to applicable SB 863 provisions; (ii) adjustment to historical outstanding medical losses paid prior to January 1, 2014 by an estimated 1.8% decrease in costs, and losses paid prior to January 1, 2015 by an estimated 0.6% increase in costs due to RBRVS.

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

Paid Medical Loss Development Factors (Continued)

Unadjusted (a)								Age-to-	Age (in mor	nths)						
Accident Year	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300	324/312	336/324	348/336	360/348	372/360		ULT/372Inc (e)
1980										1.006	1.006	1.008	1.008		1.032	1.066
1981									1.006	1.005	1.006	1.005	1.004		1.061	1.040
1982								1.008	1.006	1.007	1.009	1.006	1.006		1.038	1.065
1983							1.005	1.005	1.003	1.005	1.004	1.004	1.003	1.004	1.039	1.016
1984						1.004	1.004	1.003	1.004	1.003	1.004	1.004	1.003	1.003	1.027	1.032
1985					1.005	1.006	1.004	1.004	1.003	1.004	1.004	1.004	1.003	1.002	1.027	1.007
1986				1.004	1.005	1.004	1.005	1.005	1.005	1.005	1.005	1.005	1.004			
1987			1.006	1.007	1.006	1.005	1.005	1.005	1.005	1.005	1.005	1.003				
1988		1.006	1.007	1.006	1.005	1.005	1.006	1.005	1.005	1.004	1.003					
1989	1.005	1.006	1.007	1.005	1.006	1.008	1.006	1.007	1.006	1.003						
1990	1.006	1.005	1.005	1.005	1.005	1.006	1.004	1.004	1.003							
1991	1.007	1.006	1.006	1.005	1.006	1.005	1.006	1.003								
1992	1.008	1.007	1.002	1.006	1.008	1.006	1.005									
1993	1.011	1.011	1.010	1.013	1.011	1.007										
1994 1995	1.013	1.009	1.010	1.010	1.009											
1995	1.011	1.016 1.013	1.013 1.011	1.012												
1996	1.014 1.014	1.013	1.011													
1997	1.014	1.011														
1990	1.013															
Adjusted (b)								Age-to-	Age (in mor	nths)						
								9	90 (
Accident Year	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300	324/312	336/324	348/336	360/348	372/360		<u>ULT/372Inc (e)</u>
1980	216/204	228/216	240/228	<u>252/240</u>	<u>264/252</u>	<u>276/264</u>	<u>288/276</u>				336/324	348/336	360/348	372/360	1.032	1.066
1980 1981	<u>216/204</u>	<u>228/216</u>	240/228	252/240	264/252	276/264	288/276				336/324	348/336	360/348	372/360	1.032 1.061	1.066 1.040
1980 1981 1982	<u>216/204</u>	<u>228/216</u>	240/228	<u>252/240</u>	<u>264/252</u>	276/264	288/276				336/324	348/336	360/348		1.032 1.061 1.038	1.066 1.040 1.065
1980 1981 1982 1983	<u>216/204</u>	228/216	240/228	252/240	264/252	276/264	288/276				336/324	348/336		1.004	1.032 1.061 1.038 1.039	1.066 1.040 1.065 1.016
1980 1981 1982 1983 1984	<u>216/204</u>	228/216	240/228	252/240	264/252	276/264	<u>288/276</u>				336/324		1.003	1.004 1.003	1.032 1.061 1.038 1.039 1.027	1.066 1.040 1.065 1.016 1.032
1980 1981 1982 1983 1984 1985	<u>216/204</u>	228/216	240/228	252/240	264/252	276/264	<u>288/276</u>					1.004	1.003 1.003	1.004	1.032 1.061 1.038 1.039	1.066 1.040 1.065 1.016
1980 1981 1982 1983 1984 1985	<u>216/204</u>	228/216	240/228	<u>252/240</u>	<u>264/252</u>	276/264	288/276			324/312	1.005	1.004 1.006	1.003	1.004 1.003	1.032 1.061 1.038 1.039 1.027	1.066 1.040 1.065 1.016 1.032
1980 1981 1982 1983 1984 1985 1986 1987	216/204	228/216	240/228	252/240	264/252	276/264	288/276		312/300	324/312 1.005	1.005 1.005	1.004	1.003 1.003	1.004 1.003	1.032 1.061 1.038 1.039 1.027	1.066 1.040 1.065 1.016 1.032
1980 1981 1982 1983 1984 1985 1986 1987	216/204	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300	324/312 1.005 1.005	1.005	1.004 1.006	1.003 1.003	1.004 1.003	1.032 1.061 1.038 1.039 1.027	1.066 1.040 1.065 1.016 1.032
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	216/204	228/216	240/228	252/240	264/252	276/264		300/288	312/300 1.005 1.006	324/312 1.005	1.005 1.005	1.004 1.006	1.003 1.003	1.004 1.003	1.032 1.061 1.038 1.039 1.027	1.066 1.040 1.065 1.016 1.032
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	216/204	228/216	240/228	252/240	264/252		1.004	300/288 1.007 1.004	312/300	324/312 1.005 1.005	1.005 1.005	1.004 1.006	1.003 1.003	1.004 1.003	1.032 1.061 1.038 1.039 1.027	1.066 1.040 1.065 1.016 1.032
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990	216/204	228/216	240/228	252/240		1.006	1.004 1.007	300/288	312/300 1.005 1.006	324/312 1.005 1.005	1.005 1.005	1.004 1.006	1.003 1.003	1.004 1.003	1.032 1.061 1.038 1.039 1.027	1.066 1.040 1.065 1.016 1.032
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991	216/204	228/216	240/228		1.008	1.006 1.007	1.004	300/288 1.007 1.004	312/300 1.005 1.006	324/312 1.005 1.005	1.005 1.005	1.004 1.006	1.003 1.003	1.004 1.003	1.032 1.061 1.038 1.039 1.027	1.066 1.040 1.065 1.016 1.032
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993	216/204	228/216		1.013	1.008 1.011	1.006	1.004 1.007	300/288 1.007 1.004	312/300 1.005 1.006	324/312 1.005 1.005	1.005 1.005	1.004 1.006	1.003 1.003	1.004 1.003	1.032 1.061 1.038 1.039 1.027	1.066 1.040 1.065 1.016 1.032
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994	216/204		1.011	1.013 1.011	1.008	1.006 1.007	1.004 1.007	300/288 1.007 1.004	312/300 1.005 1.006	324/312 1.005 1.005	1.005 1.005	1.004 1.006	1.003 1.003	1.004 1.003	1.032 1.061 1.038 1.039 1.027	1.066 1.040 1.065 1.016 1.032
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995		1.016	1.011 1.013	1.013	1.008 1.011	1.006 1.007	1.004 1.007	300/288 1.007 1.004	312/300 1.005 1.006	324/312 1.005 1.005	1.005 1.005	1.004 1.006	1.003 1.003	1.004 1.003	1.032 1.061 1.038 1.039 1.027	1.066 1.040 1.065 1.016 1.032
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996	1.015	1.016 1.014	1.011	1.013 1.011	1.008 1.011	1.006 1.007	1.004 1.007	300/288 1.007 1.004	312/300 1.005 1.006	324/312 1.005 1.005	1.005 1.005	1.004 1.006	1.003 1.003	1.004 1.003	1.032 1.061 1.038 1.039 1.027	1.066 1.040 1.065 1.016 1.032
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	1.015 1.014	1.016	1.011 1.013	1.013 1.011	1.008 1.011	1.006 1.007	1.004 1.007	300/288 1.007 1.004	312/300 1.005 1.006	324/312 1.005 1.005	1.005 1.005	1.004 1.006	1.003 1.003	1.004 1.003	1.032 1.061 1.038 1.039 1.027	1.066 1.040 1.065 1.016 1.032
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996	1.015	1.016 1.014	1.011 1.013	1.013 1.011	1.008 1.011	1.006 1.007	1.004 1.007	300/288 1.007 1.004	312/300 1.005 1.006	324/312 1.005 1.005	1.005 1.005	1.004 1.006	1.003 1.003	1.004 1.003	1.032 1.061 1.038 1.039 1.027	1.066 1.040 1.065 1.016 1.032
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	1.015 1.014	1.016 1.014	1.011 1.013	1.013 1.011	1.008 1.011	1.006 1.007	1.004 1.007	300/288 1.007 1.004	312/300 1.005 1.006	324/312 1.005 1.005	1.005 1.005	1.004 1.006	1.003 1.003	1.004 1.003	1.032 1.061 1.038 1.039 1.027	1.066 1.040 1.065 1.016 1.032
1980 1981 1982 1983 1984 1985 1986 1987 1988 1999 1990 1991 1992 1993 1994 1995 1996 1997	1.015 1.014 1.014	1.016 1.014 1.012	1.011 1.013 1.012	1.013 1.011 1.013	1.008 1.011 1.009	1.006 1.007 1.008	1.004 1.007 1.005	1.007 1.004 1.004	1.005 1.006 1.003	1.005 1.005 1.003	1.005 1.005 1.003	1.004 1.006 1.004	1.003 1.003 1.005	1.004 1.003 1.002	1.032 1.061 1.038 1.039 1.027	1.066 1.040 1.065 1.016 1.032

⁽d) Six-year averages of the ULT/372Inc and 372Inc/372Pd factors are selected.(e) ULT/372Inc factors have been adjusted for the effects of medical inflation.

									Age-t	o-Age (in	months)							
Accident Year	24/12	36/24	48/36	60/48	72/60	84/72	96/84	108/96	120/108	132/120	144/132	156/144	168/156	180/168	192/180	204/192	216/204	216lnc/216Pd (c)
1990																1.002	1.002	1.011
1991															1.004	1.003	1.002	1.016
1992														1.004	1.003	1.003	1.002	1.016
1993													1.004	1.004	1.004	1.003	1.002	1.018
1994												1.008	1.007	1.006	1.003	1.003	1.004	1.023
1995											1.012	1.008	1.007	1.005	1.005	1.003	1.005	1.034
1996										1.014	1.012	1.009	1.006	1.006	1.004	1.004	1.005	1.032
1997									1.018	1.016	1.012	1.008	1.007	1.006	1.006	1.005	1.004	1.029
1998								1.027	1.021	1.015	1.012	1.009	1.009	1.007	1.006	1.006	1.006	1.027
1999							1.036	1.025	1.018	1.015	1.011	1.009	1.008	1.007	1.006	1.004		
2000						1.052	1.035	1.025	1.016	1.013	1.010	1.009	1.008	1.007	1.005			
2001					1.077	1.051	1.034	1.024	1.017	1.014	1.012	1.011	1.008	1.007				
2002				1.127	1.075	1.046	1.031	1.020	1.018	1.015	1.014	1.008	1.008					
2003			1.249	1.128	1.072	1.043	1.030	1.026	1.023	1.021	1.015	1.012						
2004		1.522	1.236	1.116	1.073	1.049	1.041	1.035	1.030	1.020	1.015							
2005	2.734	1.512	1.235	1.121	1.079	1.060	1.047	1.042	1.028	1.020								
2006	2.866	1.539	1.229	1.135	1.090	1.068	1.050	1.035	1.026									
2007	2.905	1.547	1.246	1.140	1.092	1.066	1.046	1.033										
2008	2.927	1.577	1.271	1.150	1.092	1.060	1.041											
2009	3.069	1.616	1.280	1.156	1.092	1.061												
2010	3.157	1.628	1.281	1.147	1.091													
2011	3.208	1.613	1.266	1.145														
2012	3.137	1.597	1.264															
2013	3.169	1.608																
2014	3.233																	
Selected (a)	3.233	1.608	1.264	1.145	1.091	1.061	1.041	1.033	1.028	1.020	1.015	1.010	1.008	1.007	1.006	1.005	1.005	1.029
Cumulative Unadjusted for																		
Impact of SB 863	10.752	3.326	2.068	1.636	1.429	1.310	1.235	1.186	1.148	1.117	1.095	1.079	1.068	1.059	1.052	1.046	1.041	
Cumulative Adjusted for Impact of SB 863 (b)	11.569	3.578	2.103	1.628	1.422													

⁽a) Selections are latest year for the 12-to-24 month through 96-to-108 month factors and three-year average for the subsequent age-to-age factors. Paid development factors are selected to age 216, where an incurred-to-paid ratio is chosen, and subsequently, incurred loss development factors are selected until ultimate.

⁽b) The 24-to-ultimate factor for accident year 2014, the 36-to-ultimate factor for accident year 2013, the 48-to-ultimate factor for accident year 2012, and the 60-to-ultimate factor for accident year 2011 have been adjusted by 7.6%, 1.7%, -0.5%, and -0.5% respectively, for the impacts of SB 863 on indemnity loss development. (See Impact of Senate Bill No. 863 on Loss Development Patterns, WCIRB, August 13, 2013.)

⁽c) A three-year average of the 216Inc/216Pd factor is selected.

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Cumulative

Accident Year	228/216	240/228	252/240	264/252	276/264	288/276	300/288	312/300	324/312	336/324	348/336	360/348	372/360	ULT/372Inc (d)
1980									1.001	0.998	1.000	1.000		1.002
1981								1.001	1.001	1.002	0.999	1.001		1.001
1982							1.001	1.000	1.002	1.000	1.001	1.001		1.002
1983						1.001	1.001	1.000	1.000	1.001	1.001	1.001	1.001	1.001
1984					1.001	1.000	1.000	1.001	1.001	1.000	1.001	1.001	1.000	1.001
1985				1.001	1.001	1.000	1.001	1.000	1.001	1.001	1.001	1.001	1.000	1.001
1986			1.000	1.000	1.001	1.001	1.000	1.001	1.002	1.001	1.000	0.999		
1987		1.000	1.000	0.999	1.000	1.000	1.001	1.002	1.000	1.001	1.001			
1988	1.001	1.000	1.001	1.000	1.001	1.002	1.001	1.000	1.000	1.000				
1989	1.000	1.000	1.001	1.000	1.001	1.000	1.000	1.000	1.001					
1990	1.001	1.000	0.999	1.001	1.000	1.000	1.000	1.000						
1991	1.001	1.001	1.000	1.000	1.000	1.000	1.000							
1992	1.001	1.001	1.000	1.001	1.001	1.000								
1993	1.001	1.001	1.001	1.001	1.000									
1994	1.001	1.002	1.000	1.001										
1995	1.001	0.998	1.001											
1996	1.000	1.000												
1997	1.000													
Selected (a)	1.000	1.000	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.001	1.001	1.000	1.000	

Selected Indemnity Development Factors - Paid to Age 216, Incurred from Age 216 to Ultimate (Continued)

1.004

1.004

1.004

1.003

1.003

1.002

1.002

1.001 (e)

1.006

1.005

1.004

1.004

1.006

1.006

⁽d) To adjust for non-repeating asbestosis claim patterns in older accident years, these factors are reflected at 20% of the reported ULT/372Inc factors. The original factors were 1.012, 1.005, 1.009, 1.004, 1.004, and 1.003, respectively.

⁽e) A six-year average of the ULT/372Inc factors is selected.

120/108

1.033

1.033

1.032

108/96

1.039

1.035

Age-to-Age (in months)

1.025

1.028

1.032

1.032

<u>132/120</u> <u>144/132</u>

1.024

1.027

1.026

1.030

1.025

168/156

1.012

1.014

1.019

1.020

1.019

1.019

1.016

<u>156/144</u>

1.018

1.021

1.023

1.022

1.021

1.025

180/168

1.010

1.014

1.017

1.018

1.018

1.016

1.019

1.016

192/180

1.009

1.010

1.013

1.013

1.018

1.016

1.014

1.015

1.018

204/192

1.005

1.007

1.017

1.011

1.012

1.015

1.013

1.014

1.017

1.015

216/204

1.006

1.007

1.008

1.011

1.013

1.011

1.014

1.014

1.013

1.047

1.057

1.066

1.101

1.118

1.144

1.117

1.117

1.118

Unadjusted (a)

Accident Year

1990

1991

1992

1993

1994

1995

1996

1997

1998

1999

24/12

36/24

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014	2.251 2.340 2.416 2.325 2.408 2.479 2.580 2.552 2.484 2.525	1.345 1.345 1.399 1.413 1.421 1.447 1.468 1.470 1.455 1.457	1.170 1.189 1.209 1.220 1.230 1.241 1.251 1.265 1.248 1.243	1.112 1.112 1.123 1.138 1.140 1.142 1.148 1.160 1.152 1.146	1.076 1.072 1.074 1.092 1.095 1.099 1.097 1.103 1.104 1.096	1.056 1.057 1.054 1.057 1.070 1.073 1.068 1.075 1.072	1.044 1.042 1.045 1.046 1.048 1.055 1.054 1.056 1.057	1.038 1.038 1.034 1.041 1.040 1.049 1.042	1.031 1.034 1.032 1.030 1.036 1.038 1.034	1.027 1.030 1.024 1.030 1.034 1.031	1.023 1.022 1.023 1.026 1.024	1.020 1.022 1.018 1.019	1.020 1.022 1.016	1.017 1.017	1.013	1.013			orii 5, 2016
Adjusted (b)										Age (in mor									_
Accident Year 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	2.624 2.511	1.492 1.471 1.458	1.277 1.260 1.247	1.168 1.160 1.151	72/60 1.108 1.110 1.100	1.079 1.077 1.070	96/84 1.058 1.060 1.054	1.051 1.045 1.044	1.038 1.041 1.036	1.031 1.036 1.033	1.024 1.027 1.025	1.023 1.019 1.020	1.021 1.024 1.017	1.017 1.018 1.018	1.015 1.019 1.013	204/192 1.015 1.018 1.016	216/204 1.015 1.014 1.014	216lnc/216Pd (d' 1.117 1.117 1.118	
2014 Selected (c) Cumulative	2.516 2.516 9.889	1.458 3.930	1.247 2.696	1.151 2.162	1.100 1.878	1.070 1.707	1.054 1.596	1.044 1.514	1.038 1.450	1.033 1.397	1.025 1.352	1.021 1.318	1.021 1.292	1.018 1.265	1.016 1.243	1.016 1.224	1.014 1.205	1.117	

⁽a) Paid medical loss development factors include the paid cost of medical cost containment programs.

60/48

72/60

84/72

96/84

1.044

48/36

⁽b) These factors are adjusted for the following impacts: (i) reduction of historical outstanding medical losses paid prior to January 1, 2013 by the estimated 4.4% cost savings due to applicable SB 863 provisions; (ii) adjustment to historical outstanding medical losses paid prior to January 1, 2014 by an estimated 1.8% decrease in costs, and losses paid prior to January 1, 2015 by an estimated 0.6% increase in costs due to

Selections are latest year for the 12-to-24 month through 96-to-108 month factors and three-year average for the subsequent age-to-age factors. Paid development factors are selected to age 216, where an incurred-to-paid ratio is chosen, and subsequently, incurred loss development factors are selected until ultimate.

⁽d) A three-year average of the 216Inc/216Pd factor is selected.

															Actuarial Meeting
Accident Year	228/216	240/228	252/240	264/252	276/264	<u>288/276</u>	300/288	312/300	324/312	336/324	348/336	360/348	372/360	<u>ULT/372Inc (f)</u>	etir
1980														1.066	i <u>a</u> വ
1981														1.040	
1982														1.065	er er
1983													1.004	1.016	l Committee Agenda for
1984												1.003	1.001	1.032	t it
1985											1.002	1.003	0.998	1.007	Ϋ́Ď
1986										1.005	1.000	1.002			April 5,
1987									1.004	1.005	1.001				<u>≓</u> :
1988								1.003	1.003	1.002					, ,
1989						4 000	1.000	1.003	0.999						2016
1990					4 000	1.003	0.997	1.002							<u></u>
1991				4 000	1.002	1.003	1.001								
1992			4.004	1.003	1.005	1.000									
1993		4.007	1.004	0.999	1.000										
1994	0.000	1.007	1.006	1.001											
1995 1996	0.996	1.006	0.999												
1997	1.005 0.994	1.001													
1991	0.994														
Selected (c)	0.998	1.005	1.003	1.001	1.002	1.002	0.999	1.003	1.002	1.004	1.001	1.003	1.001		
Cumulative	1.063	1.065	1.060	1.056	1.055	1.053	1.051	1.052	1.049	1.047	1.043	1.041	1.039	1.038 (e)	
Camalative	1.500		1.500	1.500	1.500	1.500	1.501	502	1.5 10	1.5 11	1.5 10		1.500	1.000 (0)	

⁽e) Six-year average of the ULT/372Inc factors is selected.(f) ULT/372Inc factors have been adjusted for the effects of medical inflation.

Developed Indemnity Loss Ratios Using Selected Loss Development Factors Based on Experience as of December 31, 2015

	_	De	tors	_	
	_			ulative	- -
	(1)	(2)	(3)	(4)	
۸ : -ا ۱	Paid or		Unadjusted	Adjusted	Projected
Accident <u>Year</u>	Incurred Loss Ratio (a)	Annual (b)	for Impact of SB 863 (b)	for Impact of SB 863 (b)	Ultimate <u>Loss</u> <u>Ratio</u>
<u>ı caı</u>	<u>Italio (a)</u>	Allilual (b)	<u>3B 803 (b)</u>	<u>3D 003 (b)</u>	$(5) = (1) \times (4)$
1985	0.446	1.000	1.001	1.001	0.447
1986	0.440	1.000	1.001	1.001	0.447
1987	0.345	1.000	1.002	1.002	0.346
1988	0.330	1.001	1.003	1.003	0.331
1989	0.343	1.001	1.003	1.003	0.344
1990	0.397	1.000	1.004	1.004	0.399
1991	0.425	1.000	1.004	1.004	0.426
1992	0.350	1.000	1.004	1.004	0.351
1993	0.287	1.000	1.004	1.004	0.288
1994	0.327	1.000	1.004	1.004	0.328
1995	0.472	1.001	1.005	1.005	0.475
1996	0.529	1.001	1.006	1.006	0.532
1997	0.600	1.000	1.006	1.006	0.603
1998	0.650	1.000	1.006	1.006	0.654
1999	0.663	1.005	1.041	1.041	0.690
2000	0.570	1.005	1.046	1.046	0.596
2001	0.469	1.006	1.052	1.052	0.493
2002	0.348	1.007	1.059	1.059	0.368
2003	0.226	1.008	1.068	1.068	0.242
2004	0.134	1.010	1.079	1.079	0.144
2005	0.113	1.015	1.095	1.095	0.123
2006	0.143	1.020	1.117	1.117	0.160
2007	0.193	1.028	1.148	1.148	0.221
2008	0.240	1.033	1.186	1.186	0.284
2009	0.268	1.041	1.235	1.235	0.331
2010	0.248	1.061	1.310	1.310	0.325
2011	0.214	1.091	1.429	1.422	0.304
2012	0.171	1.145	1.636	1.628	0.279
2013	0.120	1.264	2.068	2.103	0.252
2014	0.070	1.608	3.326	3.578	0.251
2015	0.022	3.233	10.752	11.569	0.252
_0.0	J.J	0.200			0.202

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

⁽b) See Exhibit 2.5.

Developed Medical Loss Ratios Using Selected Loss Development Factors With Adjustment for SB 863 Based on Experience as of December 31, 2015

(1) (2) (3) (4) (5)	(6)
Adjusted for SB 863	
	Projected
	Ultimate .oss Ratio
	+ ((5) - (2))
1985 0.351 0.351 1.000 1.038 0.364	0.364
1986 0.333 0.333 1.001 1.039 0.346	0.346
1987 0.314 0.314 1.003 1.041 0.327	0.327
1988 0.305 0.305 1.001 1.043 0.318	0.318
1989 0.326 0.326 1.004 1.047 0.341	0.341
1990 0.367 0.367 1.002 1.049 0.385	0.385
1991 0.385 0.385 1.003 1.052 0.405	0.405
1992 0.319 0.319 0.999 1.051 0.335	0.335
1993 0.268 0.268 1.002 1.053 0.282	0.282
1994 0.310 0.310 1.002 1.055 0.328	0.328
1995 0.454 0.454 1.001 1.056 0.480	0.480
1996 0.487 0.487 1.003 1.060 0.516	0.516
1997 0.548 0.548 1.005 1.065 0.583	0.583
1998	0.701
1999 0.642 0.608 1.014 1.205 0.733	0.767
2000 0.582 0.551 1.016 1.224 0.675	0.706
2001 0.508 0.481 1.016 1.243 0.599	0.625
2002 0.392 0.371 1.018 1.265 0.470	0.490
2003 0.247 0.234 1.021 1.292 0.302	0.315
2004 0.166 0.157 1.021 1.318 0.207	0.216
2005 0.159 0.151 1.025 1.352 0.205	0.213
2006 0.202 0.192 1.033 1.397 0.268	0.278
2007 0.277 0.264 1.038 1.450 0.383	0.396
2008 0.338 0.322 1.044 1.514 0.488	0.503
2009 0.380 0.364 1.054 1.596 0.581	0.597
2010 0.355 0.343 1.070 1.707 0.585	0.598
2011 0.280 0.273 1.100 1.878 0.512	0.520
2012 0.216 0.213 1.151 2.162 0.460	0.463
2013 0.146 0.146 1.247 2.696 0.393	0.393
2014 0.090 0.090 1.458 3.930 0.356	0.355
2015 0.035 0.035 2.516 9.889 0.347	0.347

- (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, 2015. Reflects an adjustment for SB 863 of -4.4% applied to payments made before January 1, 2013, and adjustments for RBRVS of -1.8% applied to payments made before January 1, 2014, and 0.6% applied to payments made before January 1, 2015. No adjustments are applied to the incurred loss ratios.
- Based on Exhibit 2.6. Reflects an adjustment for SB 863 of -4.4% applied to payments made before (c) January 1, 2013, and adjustments for RBRVS of -1.8% applied to payments made before January 1, 2014, and 0.6% applied to payments made before January 1, 2015.
- The developed medical loss ratios shown were derived based on an adjustment to reflect an (d) adjustment for SB 863 and RBRVS. They are only for purposes of projecting future medical loss ratios and do not reflect true estimates of ultimate loss ratios for those accident years.

Indemnity Benefit Level Factors

Accident	(1) Annual Benefit Change Prior to Frequency	(2) Frequency	(3) Annual Impact on Indemnity Benefits Due to Wage	(4) Annual Cost Impact on	(5) Composite Indemnity Adjustment
<u>Year</u>	Adjustments (a)	Adjustments (a)	Inflation (b)	Indemnity (c)	Factor (d)
400-					
1985	0.0	0.0	2.0	2.0	1.411
1986	0.0	0.0	1.6	1.6	1.389
1987	0.0	0.0	1.9	1.9	1.363
1988	0.0	0.0	1.5	1.5	1.343
1989	0.0	0.0	1.5	1.5	1.323
1990	2.3	19.9	1.7	24.7	1.060
1991	4.9	14.8	0.8	21.4	0.874
1992	1.8	-8.3	1.6	-5.2	0.921
1993 1994	0.2 -5.1	-18.1 0.2	0.4	-17.6	1.118
			0.6	-4.3	1.169
1995 1996	6.3 5.3	0.6 0.4	1.0 1.2	8.0 7.0	1.082 1.011
1996	9.7	0.4	1.6	7.0 11.7	0.906
1997	9.7 6.5	0.2	1.8	8.4	0.900
1998	5.7	0.0	2.1	7.9	0.833
2000	3.9	0.0	3.1	7.1	0.723
2001	-0.3	0.0	0.2	-0.1	0.723
2002	-0.7	0.0	0.2	-0.5	0.743 (e)
2003	7.3	0.0	1.1	8.5	0.742 (e)
2004	-6.0	-13.7	1.7	-17.5	1.021 (e)
2005	-31.6	-15.3	1.1	-41.5	1.387
2006	5.6	-5.7	1.6	1.2	1.370
2007	1.6	0.0	1.6	3.2	1.328
2008	4.8	0.6	0.7	6.2	1.250
2009	0.4	1.4	0.2	2.0	1.226
2010	0.4	0.0	1.0	1.4	1.209
2011	0.0	0.0	1.6	1.6	1.196 (f)
2012	0.3	0.0	2.1	2.4	1.168 (f)
2013	-0.6	-0.3	0.2	-0.7	1.170
2014	7.0	1.5	1.6	10.3	1.061
2015	0.3	0.0	1.6	1.9	1.041
2016	0.3	0.0	1.9	2.2	
4/1/2017	0.2 (Annual 0.2	2) 0.0	1.7 (Annual	2.3) 1.9	

- (a) Based on WCIRB evaluations of the average impact of legislative changes on the cost of indemnity benefits. These annual changes in benefits reflect the WCIRB's retrospective estimates of the cost impact of recent legislation, including SB 863 as reflected in emerging post-reform costs. The annual cost impacts have been segregated between claim severity and claim frequency impacts.
- (b) These impacts are based on the weekly wages of injured workers and the legislatively scheduled benefits for that year.
- (c) $\{ [Column (1) /100 + 1.0] \times [Column (2) /100 + 1.0] \times [Column (3) /100 + 1.0] 1.0 \} \times 100.$
- (d) These factors represent the combined impact of the annual benefit changes on claim severity shown in Column (1), claim frequencies shown in Column (2) and wage inflation impact on benefits shown in Column (3), adjusted to the 4/1/2017 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.
- (f) On-level factors for accident years 2011 and 2012 adjust the portion of indemnity losses not impacted by the adjustments to outstanding indemnity claims for the impact of SB 863 (see Exhibit 2.5).

Annual Medical Cost Level Change - Non-Legislative

	(1)	(2)	(3)	(4)	(5)	(6)
	Proportion of Medical	Proportion of Medical Not	Impact of Fee Schedule	Change in	Impact of CPI Change	Annual Non-Legislative
Accident	Subject to	Subject to	Change on	Medical	on Total	Cost Impact on
<u>Year</u>	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	0.929	0.071	1.1%	4.2%	0.3%	1.4%
2015	0.929	0.071	0.2%	2.9%	0.2%	0.4%
2016	0.929	0.071	0.2%	2.2%	0.2%	0.4%
4/1/2017	0.929	0.071	0.1% (Annual 0.19	%) 1.7% (Annual 2.3%	0.1%	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

Accident <u>Year</u>	(1) Annual Legislative Cost Impact on Medical Severity(a)	(2) Annual Legislative Cost Impact on Medical Due to <u>Frequency Changes(b)</u>	(3) Annual Total Legislative Cost 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	0.0%	0.0%	0.0%
2012	-1.0%	0.0%	-1.0%
2013	-1.0%	-0.2%	-1.2%
2014	-3.0%	1.3%	-1.7%
2015	0.0%	0.0%	0.0%
2016	0.0%	0.0%	0.0%
4/1/2017	0.0%	0.0%	0.0%

- (a) These annual cost impacts reflect the WCIRB's retrospective estimates of the cost impact of legislation based on WCIRB cost monitoring results. These factors do not include the estimated 4.4% impact of 1/1/2013 medical provisions in SB 863, which was reflected in loss development projections.
- (b) This reflects the annual percentage impact on medical costs due to changes in the frequency of indemnity claims as a result of benefit changes.
- (c) [Column (1) + 1.0] x [Column (2) + 1.0] 1.0

Total Medical Cost Level Factors

Accident <u>Year</u>	(1) Annual Non-Legislative Cost Impact on <u>Medical (a)</u>	(2) Annual Legislative Cost Impact on Medical(b)	(3) Total Annual Cost Impact on <u>Medical(c)</u>	(4) Composite Medical On-level <u>Factor(d)</u>
1985	4.5%	0.0%	4.5%	1.040
1986	3.0%	0.0%	3.0%	1.009
1987	3.8%	0.0%	3.8%	0.972
1988	3.8%	0.0%	3.8%	0.937
1989	3.0%	0.0%	3.0%	0.909
1990	3.7%	19.1%	23.5%	0.737
1991	3.6%	12.9%	16.9%	0.630
1992	3.0%	-7.9%	-5.2%	0.664
1993	2.7%	-18.7%	-16.5%	0.795
1994	-2.3%	-2.3%	-4.6%	0.833
1995	0.9%	0.5%	1.4%	0.822
1996	1.0%	0.4%	1.4%	0.810
1997	0.7%	0.2%	0.9%	0.803
1998	0.8%	12.6%	13.5%	0.708
1999	2.5%	12.6%	15.4%	0.613
2000	1.7%	7.0%	8.8%	0.563
2001	2.9%	6.6%	9.7%	0.514
2002	2.0%	-5.6%	-3.7%	0.534
2003	1.4%	-6.0%	-4.7%	0.560
2004	0.0%	-33.9%	-33.9%	0.846
2005	0.0%	-13.9%	-13.9%	0.983
2006	0.3%	-5.1%	-4.8%	1.033
2007	1.8%	0.1%	1.9%	1.013
2008	0.2%	0.5%	0.7%	1.006
2009	0.4%	1.0%	1.4%	0.992
2010	0.3%	0.0%	0.3%	0.989
2011	0.3%	0.0%	0.3%	0.986
2012	0.1%	-1.0%	-0.9%	0.995
2013	0.1%	-1.2%	-1.1%	1.006
2014	1.4%	-1.7%	-0.4%	1.021 (e)
2015	0.4%	0.0%	0.4%	1.019 (e)
2016	0.4%	0.0%	0.4%	
4/1/2017	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 4/1/2017 level.
- (e) The on-level factors for accident years 2014 and 2015 include the estimated impact of the January 1, 2014 physician fee schedule for the service years 2016 and subsequent.

Annual Wage Level Changes

<u>Year</u>	Annual Wage <u>Level Change</u>	Factor to a 4/1/2017 Wage Level
1985	5.7	3.025
1986	4.7	2.890
1987	5.6	2.736
1988	4.4	2.621
1989	4.3	2.513
1990	5.0	2.393
1991	2.3	2.340
1992	4.7	2.235
1993	1.2	2.208
1994	1.8	2.169
1995	2.9	2.108
1996	3.4	2.039
1997	4.7	1.947
1998	5.2	1.851
1999	6.2	1.743
2000	9.0	1.599
2001	0.6	1.589
2002	0.6	1.580
2003	3.3	1.529
2004	4.8	1.459
2005	3.2	1.414
2006	4.7	1.351
2007	4.5	1.292
2008	2.1	1.266
2009	0.6	1.258
2010	3.0	1.222
2011	3.1	1.185
2012	4.0	1.139
2013	0.2	1.137
2014	3.0	1.104
2015	3.0	1.072
Projected:		
2016	3.7	
4/1/2017	3.4 (Annual = 4.5)	

Source:

California average annual wage level changes for 1985 to 2017 derived from information published by the UCLA Anderson School of Business as of December 2015.

Premium Adjustment Factors

	(1)	(2a)	(2b)	(2c) Factor to Adjust	(3)	(4)	(5)	(6)	(7)
Calendar <u>Year</u>	Factor to a 4/1/2017 Wage Level (a)	Ratio of Industry Average Charged Rates to Advisory Pure Premium Rates (b)	Factor to Industry Average Filed Pure Premium Rate Level as of January 1, 2016 (c)	Insurer Premium to an Industry Average Filed Pure Premium Rate Level as of January 1, 2016 (d)	Adjustment to Remove Surcharge Premium (e)	Average Experience Modification (f)	Off-Balance Correction in Advisory January 1, 2016 Pure Premium <u>Rates</u>	Factor to Adjust for Impact of Premium Resulting from Audits (g)	Composite Premium Adjustment <u>Factor (h)</u>
1985	3.025			1.068	0.991	0.984	1.028		3.166
1986	2.890			0.976	0.991	0.983	1.028		2.766
1987	2.736			0.858	0.992	0.983	1.028		2.305
1988	2.621			0.767	0.993	0.963	1.028		2.018
1989	2.513			0.755	0.993	0.945	1.028		1.941
1990	2.393			0.737	0.991	0.942	1.028		1.804
1991	2.340			0.682	0.987	0.939	1.028		1.631
1992	2.235			0.655	0.982	0.940	1.028		1.486
1993	2.208			0.646	0.981	0.949	1.028		1.434
1994	2.169			0.740	0.986	0.948	1.028		1.624
1995	2.108			1.001	0.995	0.958	1.028		2.133
1996	2.039	1.023	1.064	1.040	1.000	0.935	1.028		2.206
1997	1.947	0.989	1.062	1.074	1.000	0.949	1.028		2.143
1998	1.851	0.965	1.106	1.146	1.000	0.959	1.028		2.152
1999	1.743	0.972	1.118	1.150	1.000	0.954	1.028		2.044
2000	1.599	1.005	1.013	1.008	1.000	0.970	1.028		1.616
2001	1.589	1.030	0.892	0.866	1.000	0.969	1.028		1.382
2002	1.580	1.157	0.799	0.691	1.000	0.991	1.028		1.071
2003	1.529	1.266	0.654	0.517	1.000	1.005	1.028		0.765
2004	1.459	1.396	0.665	0.476	1.000	0.981	1.028		0.689
2005	1.414	1.470	0.800	0.544	1.000	0.982	1.028		0.762
2006	1.351	1.447	1.031	0.713	1.000	0.956	1.028		0.979
2007	1.292	1.493	1.405	0.941	1.000	0.931	1.028	0.985	1.252
2008	1.266	1.426	1.672	1.173	1.000	0.946	1.028	0.991	1.513
2009	1.258	1.366	1.648	1.206	1.000	0.937	1.028	1.034	1.630
2010	1.222	1.383	1.615	1.168	1.000	0.941	1.028	1.005	1.482
2011	1.185	1.402	1.613	1.150	1.000	0.982	1.028		1.351
2012	1.139	1.225	1.330	1.086	1.000	1.000	1.028		1.203
2013	1.137	1.139	1.071	0.940	1.000	0.983	1.028		1.058
2014	1.104	1.127	0.987	0.876	1.000	0.962	1.028		0.978
2015	1.072	1.109	0.959	0.865	1.000	0.954	1.028		0.945

⁽a) See Exhibit 5.1.

⁽b) Based on WCIRB calendar year experience calls. The industry average charged rates reflect most rating plan adjustments but do not reflect the application of deductible credits or retrospective rating plan adjustments.

⁽c) Reflects (1) advisory pure premium rate level changes to bring premium to the advisory January 1, 2016 pure premium rate level and (2) an additional adjustment factor, which is the ratio of the average advisory January 1, 2016 pure premium rate (\$2.42) to the industry average filed pure premium rate as of January 1, 2016 (\$2.57).

⁽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 January 1, 2016.

⁽e) Based on unit statistical data.

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

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

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

2015 Accident Year Indemnity Claim Frequency Model As of PY 2013 Preliminary 1st Set & December 2015 UCLA

	Annual %			А	nnual Log Differenc	es		
	Changes Intra-	Intra-0	Class Indemnity Fre	quency	AY+1		Economic	CalOSHA
	Class Ind Freq	per \$M	Exposure at PY 20	15 Level	Indemnity	Cumulative	Variables	Dummy
AY	Total	Total	Cumulative	Non-cum.	Benefit Level	Injury Index	(1st Prin. Comp.)	Variable
1979	0.5%	0.005	-0.053	0.007	0.000	-0.060	0.134	0.000
1980	-6.5%	-0.068	-0.132	-0.066	0.033	-0.066	-0.079	0.000
1981	-3.5%	-0.036	-0.028	-0.036	0.000	0.008	-0.078	0.000
1982	-1.6%	-0.016	0.153	-0.022	0.352	0.175	-0.292	0.000
1983	6.2%	0.060	0.214	0.054	0.081	0.160	0.029	0.000
1984	9.5%	0.091	0.235	0.084	0.000	0.151	0.221	0.000
1985	2.0%	0.020	0.138	0.014	0.000	0.124	0.080	0.000
1986	-2.4%	-0.024	0.039	-0.028	0.000	0.067	0.077	0.000
1987	1.5%	0.015	0.053	0.013	0.000	0.041	0.150	0.000
1988	0.7%	0.007	0.104	0.000	0.000	0.104	0.088	0.000
1989	2.5%	0.024	0.212	0.009	0.046	0.203	0.045	0.000
1990	9.0%	0.087	0.337	0.061	0.071	0.276	-0.120	0.000
1991	0.3%	0.003	0.166	-0.018	0.023	0.184	-0.291	0.000
1992	-11.1%	-0.118	-0.272	-0.098	0.013	-0.174	-0.185	0.068
1993	-14.9%	-0.162	-0.240	-0.153	-0.057	-0.088	-0.022	0.464
1994	-12.8%	-0.136	-0.462	-0.107	0.061	-0.355	0.106	0.173
1995	-4.6%	-0.048	-0.016	-0.050	0.053	0.034	0.092	0.295
1996	-6.8%	-0.070	-0.136	-0.065	0.096	-0.071	0.074	0.000
1997	-3.3%	-0.033	-0.023	-0.034	0.066	0.011	0.137	0.000
1998	-3.8%	-0.038	-0.040	-0.038	0.058	-0.002	0.078	0.000
1999	1.5%	0.014	0.100	0.008	0.040	0.092	0.127	0.000
2000	4.0%	0.039	0.071	0.037	-0.003	0.034	0.066	0.000
2001	-6.9%	-0.071	-0.017	-0.076	-0.007	0.059	-0.100	0.000
2002	-2.8%	-0.028	0.002	-0.031	0.060	0.033	-0.197	0.000
2003	-3.1%	-0.032	-0.008	-0.034	-0.065	0.026	-0.022	0.000
2004	-16.8%	-0.184	-0.211	-0.181	-0.398	-0.030	0.098	0.000
2005	-13.6%	-0.146	-0.298	-0.133	0.051	-0.165	0.143	0.000
2006	-5.7%	-0.058	-0.049	-0.059	0.016	0.009	0.090	0.000
2007	-1.6%	-0.016	0.021	-0.019	0.049	0.040	-0.095	0.000
2008	-2.7%	-0.027	0.038	-0.032	0.006	0.071	-0.320	0.000
2009	-0.1%	-0.001	0.169	-0.017	0.066	0.186	-0.414	0.000
2010	9.0%	0.086	0.133	0.081	0.012	0.052	-0.077	0.000
2011	1.3%	0.013	0.036	0.010	0.003	0.026	0.048	0.000
2012	4.8%	0.047	0.113	0.039	-0.008	0.074	0.125	0.000
2013	1.3%	0.013	0.186	-0.010	0.071	0.195	0.156	0.000
2014*	1.2%	0.012	0.155	-0.021	0.003	0.176	0.156	0.000
2015	-0.1%	-0.001	-0.001	-0.001	0.003	0.000	0.194	0.000
2016	-0.3%	-0.003	-0.003	-0.003	0.003	0.000	0.174	0.000
2017	-1.2%	-0.012	-0.012	-0.012	0.003	0.000	0.077	0.000
2018	-1.6%	-0.017	-0.017	-0.017	0.003	0.000	0.029	0.000

Y = Hazardousness-Adjusted Noncumulative Indemnity Claim Frequency

X Coefficient(s)		0.1
Degrees of Freedom	31	
No. of Observations	36	
R Squared	0.563	
Std Err of Y Est	0.042	
Constant	-0.020	

 X Coefficient(s)
 0.176
 0.270
 0.096
 -0.141

 Std Err of Coef.
 0.077
 0.064
 0.048
 0.081

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 2014; December 2015 UCLA Anderson Forecasts for 2015 on.

Regression is over AY 1979 through AY 2014. AY 2015 through AY 2018 are projections.

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

benefit levels and long-term economic growth. Without these offsets, the indemnity benefit level and economic variables would project frequency to increase without bound.

*AY 2014 is preliminary and change is based on a comparison of 2014 accidents on 2013 policies to 2013 accidents on 2012 policies.

Projection of Indemnity Severity Trends by Accident Year Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)	(5)					
	Estimated	A .	Indemnity	Ultimate						
Accident	Ultimate	Annual	Adjustment	On-level	Annual					
<u>Year</u>	<u>Severity</u>	% Change	Factor(a)	Severity	% Change					
				(1) x (3)						
1990	9,962		1.705	16,983						
1991	10,905	9.5%	1.612	17,581	3.5%					
1992	10,993	0.8%	1.559	17,135	-2.5%					
1993	11,961	8.8%	1.549	18,533	8.2%					
1994	12,920	8.0%	1.623	20,970	13.1%					
1995	14,506	12.3%	1.512	21,928	4.6%					
1996	16,229	11.9%	1.419	23,022	5.0%					
1997	19,312	19.0%	1.273	24,580	6.8%					
1998	21,107	9.3%	1.174	24,779	0.8%					
1999	23,225	10.0%	1.088	25,265	2.0%					
2000	24,656	6.2%	1.016	25,039	-0.9%					
2001	27,063	9.8%	1.017	27,511	9.9%					
2002	26,208	-3.2%	1.044	27,353	-0.6%					
2003	25,724	-1.8%	1.043	26,824	-1.9%					
2004	20,953	-18.5%	1.239	25,959	-3.2%					
2005	18,880	-9.9%	1.424	26,894	3.6%					
2006	20,634	9.3%	1.328	27,395	1.9%					
2007	22,473	8.9%	1.286	28,904	5.5%					
2008	24,833	10.5%	1.219	30,265	4.7%					
2009	25,799	3.9%	1.211	31,255	3.3%					
2010	25,596	-0.8%	1.195	30,580	-2.2%					
2011	25,286	-1.2%	1.182	29,883	-2.3%					
2012	25,197	-0.4%	1.154	29,078	-2.7%					
2013	25,861	2.6%	1.153	29,817	2.5%					
2014	27,944	8.1%	1.061	29,640	-0.6%					
2015	28,933	3.5%	1.041	30,119	1.6%					
(6) Es	timated Annual Exp	onential Trend Base	ed on 2005 to 2015:		0.8%					
(7) Es	timated Annual Exp	onential Trend Base	ed on 2010 to 2015:		-0.2%					
Selected Indemnity Severity Trend:										

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

Source: WCIRB experience calls.

Projection of Medical Severity Trends by Accident Year Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)	(5)
	Estimated		Medical	Ultimate	
Accident	Ultimate	Annual	Adjustment	On-level	Annual
<u>Year</u>	Severity(a)	% Change	Factor(b)	<u>Severity</u>	% Change
				(1) x (3)	
1990	8,990		1.096	9,850	
1991	9,685	7.7%	1.075	10,414	5.7%
1992	9,743	0.6%	1.039	10,127	-2.8%
1993	10,847	11.3%	1.021	11,078	9.4%
1994	12,026	10.9%	1.074	12,917	16.6%
1995	13,716	14.1%	1.066	14,615	13.1%
1996	14,773	7.7%	1.055	15,585	6.6%
1997	17,681	19.7%	1.048	18,528	18.9%
1998	21,548	21.9%	0.924	19,915	7.5%
1999	24,571	14.0%	0.801	19,686	-1.1%
2000	27,879	13.5%	0.737	20,542	4.3%
2001	33,058	18.6%	0.673	22,232	8.2%
2002	33,625	1.7%	0.699	23,499	5.7%
2003	32,139	-4.4%	0.734	23,602	0.4%
2004	29,791	-7.3%	0.973	28,984	22.8%
2005	30,769	3.3%	0.975	29,992	3.5%
2006	33,920	10.2%	0.972	32,983	10.0%
2007	38,222	12.7%	0.957	36,568	10.9%
2008	41,860	9.5%	0.956	40,002	9.4%
2009	44,433	6.1%	0.956	42,464	6.2%
2010	45,039	1.4%	0.958	43,133	1.6%
2011	41,331 (c)		0.961	39,730 (c)	
2012	40,058	-3.1%	0.978	39,175	-1.4%
2013	38,525	-3.8%	0.993	38,261	-2.3%
2014	37,678	-2.2%	1.022	38,498	0.6%
2015	37,998	0.8%	1.019	38,724	0.6%

Selected Medical Severity Trend:

2.5%

- (a) Estimated ultimate severities for all accident years are derived by dividing ultimate medical losses on indemnity claims by ultimate indemnity claim counts. The estimated ultimate medical severities were derived from the projected ultimate loss ratios shown in Exhibit 3.2, column (6).
- (b) These adjustment factors are based on Exhibit 4.4, excluding the impact of frequency, and including the impact of SB 863 provisions applicable to outstanding medical losses.
- (c) Severities for accident years 2011 and subsequent do not reflect the cost of medical cost containment programs (MCCP). Severities for accident years 2010 and prior do reflect MCCP costs.

Source: WCIRB experience calls.

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, 2015

MCCP Removed Based on WCIRB Aggregate

		MCCP Ir	ncluded	Calendar Year Data Calls (b)								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)				
	Estimated		Ultimate		Estimated		Ultimate					
Accident	Ultimate	Annual	On-Level	Annual	Ultimate	Annual	On-Level	Annual				
<u>Year</u>	Severity (a)	% Change	Severity (c)	% Change	Severity (a)	% Change	Severity (c)	% Change				
2005	30,769		29,993		29,024		28,292					
2006	33,920	10.2%	32,983	10.0%	31,659	9.1%	30,784	8.8%				
2007	38,222	12.7%	36,568	10.9%	35,523	12.2%	33,985	10.4%				
2008	41,860	9.5%	40,002	9.4%	38,031	7.1%	36,343	6.9%				
2009	44,433	6.1%	42,464	6.2%	40,546	6.6%	38,749	6.6%				
2010	45,039	1.4%	43,133	1.6%	41,057	1.3%	39,319	1.5%				
2011	45,508	1.0%	43,746	1.4%	41,331	0.7%	39,730	1.0%				
2012	44,185	-2.9%	43,211	-1.2%	40,058	-3.1%	39,175	-1.4%				
2013	42,777	-3.2%	42,484	-1.7%	38,525	-3.8%	38,261	-2.3%				
2014	42,061	-1.7%	42,976	1.2%	37,678	-2.2%	38,498	0.6%				
2015	42,334	0.6%	43,143	0.4%	37,998	0.8%	38,724	0.6%				
Estimated	Annual Expone	ential										
Trend Bas	ed on 2005 to 2	2015:	3.2%				2.8%					
Trend Bas	ed on 2010 to 2	2015:	-0.2%				-0.6%					
Selected Medical Severity Trend: 2.5%												

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

Source: WCIRB experience calls.

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

⁽c) Ultimate severities are on-leveled based on adjustment factors shown on Exhibit 4.4, excluding the impact of frequency.

Projected On-Level Accident Year Indemnity Loss to Industry Average Filed Pure Premium Ratios Based on Experience as of December 31, 2015

		•	· ·	
	(1)	(2)	(3)	(4) On-Level Indemnity to
Accident <u>Year</u>	Developed Indemnity Loss Ratio(a)	Composite Indemnity Adjustment Factor(b)	Composite Premium Adjustment Factor(c)	Industry Average Filed Pure Premium Ratio (1)×(2)÷(3)
1985	0.447	1.411	3.166	0.199
1986	0.396	1.389	2.766	0.199
1987	0.346	1.363	2.305	0.205
1988	0.331	1.343	2.018	0.220
1989	0.344	1.323	1.941	0.234
1990	0.399	1.060	1.804	0.234
1991	0.426	0.874	1.631	0.228
1992	0.351	0.921	1.486	0.217
1993	0.288	1.118	1.434	0.225
1994	0.328	1.169	1.624	0.236
1995	0.475	1.082	2.133	0.241
1996	0.532	1.011	2.206	0.244
1997	0.603	0.906	2.143	0.255
1998	0.654	0.835	2.152	0.254
1999	0.690	0.774	2.044	0.261
2000	0.596	0.723	1.616	0.267
2001	0.493	0.723	1.382	0.258
2002	0.368	0.743	1.071	0.255
2003	0.242	0.742	0.765	0.235
2004	0.144	1.021	0.689	0.214
2005	0.123	1.387	0.762	0.224
2006	0.160	1.370	0.979	0.224
2007	0.221	1.328	1.252	0.235
2008	0.284	1.250	1.513	0.235
2009	0.331	1.226	1.630	0.249
2010	0.325	1.209	1.482	0.265
2011	0.304	1.196	1.351	0.269
2012	0.279	1.168	1.203	0.270
2013	0.252	1.170	1.058	0.279
2014	0.251	1.061	0.978	0.273
2015	0.252	1.041	0.945	0.278
				Projections (d)
2016				0.273
4/1/2017				0.271

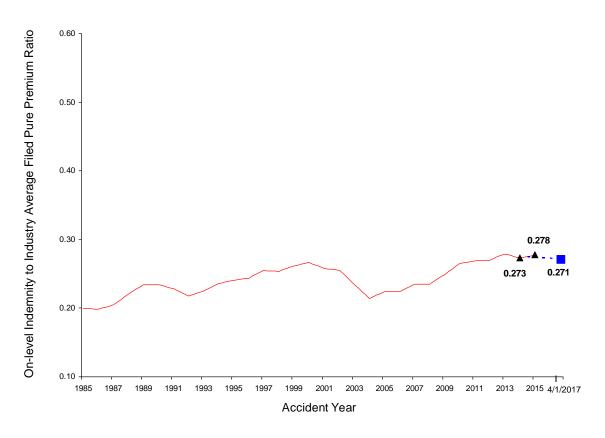
⁽a) See Exhibit 3.1.

⁽b) See Exhibit 4.1.

⁽c) See Exhibit 5.2.

⁽d) These on-level ratios were projected based on an estimated annual indemnity severity trend from Exhibit 6.2, the actual frequency trend for accident year 2015 from Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 on-level ratios.

On-Level Indemnity Loss to Industry Average Filed Pure Premium Ratios Using December 31, 2015 Valuations



- On-level indemnity to industry average filed pure premium ratios (see Exhibit 7.1).
- —■ · The 4/1/2017 indemnity to industry average filed pure premium ratio was calculated based on separate frequency and severity trends applied to the 2014 and 2015 years.

Projected On-Level Accident Year Medical Loss to Industry Average Filed Pure Premium Ratios Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)
Accident	Developed Medical	Composite Medical	Composite Premium	On-Level Medical to Industry Average Filed
<u>Year</u>	Loss Ratio(a)	On-Level Factor(b)	Adjustment Factor(c)	Pure Premium Ratio
				(1)×(2)÷(3)
1985	0.364	1.040	3.166	0.120
1986	0.346	1.009	2.766	0.126
1987	0.327	0.972	2.305	0.138
1988	0.318	0.937	2.018	0.148
1989	0.341	0.909	1.941	0.160
1990	0.385	0.737	1.804	0.157
1991	0.405	0.630	1.631	0.156
1992	0.335	0.664	1.486	0.150
1993	0.282	0.795	1.434	0.156
1994	0.328	0.833	1.624	0.168
1995	0.480	0.822	2.133	0.185
1996	0.516	0.810	2.206	0.190
1997	0.583	0.803	2.143	0.219
1998	0.701	0.708	2.152	0.231
1999	0.733	0.613	2.044	0.220
2000	0.675	0.563	1.616	0.235
2001	0.599	0.514	1.382	0.223
2002	0.470	0.534	1.071	0.234
2003	0.302	0.560	0.765	0.221
2004	0.207	0.846	0.689	0.255
2005	0.205	0.983	0.762	0.264
2006	0.268	1.033	0.979	0.283
2007	0.383	1.013	1.252	0.310
2008	0.488	1.006	1.513	0.325
2009	0.581	0.992	1.630	0.354
2010	0.585	0.989	1.482	0.390
2011	0.512	0.986	1.351	0.374
2012	0.460	0.995	1.203	0.381
2013	0.393	1.006	1.058	0.374
2014	0.356	1.021	0.978	0.371
2015	0.347	1.019	0.945	0.375
				Projections (d)
2016				0.384
4/1/2017				0.388

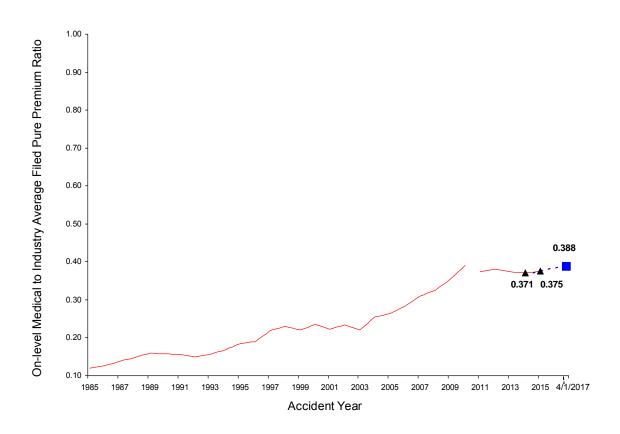
⁽a) See Exhibit 3.2. Medical loss ratios for accident years 2011 and subsequent do not reflect the cost of medical cost containment programs (MCCP). Ratios for accident years 2010 and prior do reflect MCCP costs.

⁽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 2015 from Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 on-level ratios.

On-Level Medical Loss to Industry Average Filed Pure Premium Ratios Using December 31, 2015 Valuations



- On-level medical to industry average filed pure premium ratios (see Exhibit 7.3).
- The 4/1/2017 medical to industry average filed pure premium ratio was calculated based on separate frequency and severity trends applied to the 2014 and 2015 years.

Indicated Loss to Industry Average Filed Pure Premium Ratios For Policies with Effective Dates between July 1, 2016 and December 31, 2016 Based on Experience as of December 31, 2015

	<u>Indemnity</u>	<u>Medical</u>	<u>Total</u>
1. Projected Loss to Industry Average Filed Pure Premium Ratio (See Exhibits 7.1 and 7.3)	0.271	0.388	0.659

Quarterly Incurred Indemnity Loss Development Factors Through December 31, 2015

Age in Months	1998	1999	2000	2001	2002	2003	2004	2005	Accide 2006	nt Year 2007	2008	2009	2010	2011	2012	2013	2014	2015
6/3									2.417		2.785	3.031	3.116	3.052	3.238	3.344	3.303	3.209
9/6									1.656	1.776	1.820	1.848	1.904	2.001	1.966	1.940	1.960	1.948
12/9									1.448	1.511	1.510	1.530	1.564	1.632	1.587	1.585	1.570	1.572
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	
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	
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	
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	
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		
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		
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		
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		
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			
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			
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			
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	1.023			
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				
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				
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				
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	1.013				
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					
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					
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					
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					
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						
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						
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						
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						
87/84	1.003	1.003	1.002	1.003	1.004	1.002	1.007	1.010	1.007	1.004	1.005							
90/87	1.001	1.003	1.003	1.003	1.003	1.004	1.008	1.008	1.008	1.008	1.004							
93/90	1.001	1.002	1.004	1.003	1.002	1.005	1.006	1.008	1.006	1.007	1.006							
96/93	1.002	1.003	1.001	1.004	1.002	1.006	1.006	1.003	1.002	1.003	1.004							

Source: WCIRB accident year experience calls

20152.8951.8971.461

Quarterly Incurred Medical Loss Development Factors * Through December 31, 2015

Age in Months	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	2003	<u>2004</u>	<u>2005</u>	Accide 2006	nt Year 2007	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	:
6/3									2.584	2.662	2.782	2.892	2.992	2.757	2.889	2.878	2.956	2
9/6									1.650	1.744	1.717	1.807	1.800	1.827	1.846	1.833	1.853	1
12/9									1.453	1.443	1.466	1.454	1.488	1.521	1.493	1.509	1.491	1
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	1.221	1.215	1.208	
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	1.142	1.124	1.122	
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	1.090	1.092	1.083	
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	1.070	1.068	1.059	
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	1.060	1.052		
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	1.049	1.041		
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	1.047	1.034		
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	1.030	1.028		
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	1.029			
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	1.023			
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	1.023			
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	1.021			
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				
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				
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				
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	1.013				
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					
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					
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					
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	1.009					
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						
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						
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						
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						
87/84	1.005	1.008	1.008	1.010	1.009	1.010	1.012	1.014	1.012	1.008	1.007							
90/87						1.012				1.008	1.006							
93/90	1.006	1.007	1.015	1.009	1.011	1.010	1.011	1.012	1.009	1.009	1.007							
96/93	1.007	1.007	1.010	1.012	1.008	1.010	1.011	1.009	1.005	1.006	1.005							

Source: WCIRB accident year experience calls

^{*} Incurred medical loss development factors include the paid cost of medical cost containment programs.

20155.0562.4841.912

Quarterly Paid Indemnity Loss Development Factors Through December 31, 2015

Age in	1000	1000	2000	2001	2002	2002	2004	2005		nt Year	2000	2000	2010	2011	2012	2012	2014
Months 6/3	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	2002	<u>2003</u>	<u>2004</u>	<u>2005</u>	2006 4.376	2007 4.495	<u>2008</u> 4.553	<u>2009</u> 4.807	<u>2010</u> 4.911	<u>2011</u> 4.722	<u>2012</u> 4.854	<u>2013</u> 5.099	<u>2014</u> 5.076
9/6									2.259	2.375	2.377	2.398		2.432		2.462	2.462
12/9									1.812	1.834	1.810	1.825	1.861	1.869	1.877	1.866	1.879
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
18/15	1.499	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
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
24/21	1.259	1.257	1.256	1.258	1.260		1.183	1.181	1.195	1.191	1.194	1.206	1.209	1.215	1.213	1.204	1.216
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	1.210
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	
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	
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	
39/36	1.074	1.081	1.081	1.092	1.087		1.070	1.066	1.064	1.067	1.074	1.078	1.077	1.073	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		
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		
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		
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			
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			
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			
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			
63/60	1.023	1.026	1.024	1.021	1.022	1.019	1.019	1.021	1.023	1.025	1.025	1.024	1.026				
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				
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				
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	1.018				
75/72	1.015	1.016	1.015	1.014	1.012	1.012	1.013	1.015	1.019	1.018	1.016	1.016					
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					
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					
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					
87/84	1.012	1.010	1.008	1.010	1.009	1.008	1.009	1.012	1.014	1.013	1.010						
90/87	1.008	1.009	1.010	1.009	1.008	1.008	1.011	1.012	1.013	1.012	1.011						
93/90	1.009	1.009	1.008	1.008	1.007	1.008	1.012	1.011	1.011	1.012	1.010						
96/93	1.008	1.009	1.006	1.007	1.007	1.007	1.008	1.011	1.011	1.008	1.009						

Source: WCIRB accident year experience calls

Quarterly Paid Medical Loss Development Factors * Through December 31, 2015

Age in								J	Accide	nt Year								
<u>Months</u>	<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>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
6/3									5.308	5.615	6.579	6.101	6.048	5.854	5.942	6.232	5.646	5.716
9/6									2.348	2.381	2.348	2.375			2.395	2.490	2.424	2.305
12/9									1.716	1.765	1.731	1.723		1.746		1.740	1.752	1.714
15/12					1.554				1.429		1.413			1.472		1.441	1.459	
18/15	1.241				1.330				1.227		1.243	1.259	1.268		1.284		1.268	
21/18	1.164				1.211				1.163		1.170			1.187	1.189		1.192	
24/21										1.133				1.153	1.151		1.145	
27/24	1.096	1.108			1.123				1.106			1.112		1.120	1.120	1.120		
30/27		1.088			1.103				1.097	1.100		1.106		1.111	1.106	1.109		
33/30	1.065	1.072			1.077				1.081	1.083	1.086	1.092	1.094	1.093	1.091	1.089		
36/33	1.055	1.066			1.061						1.072		1.083	1.082		1.078		
39/36 42/39	1.051	1.059	1.060	1.061 1.054		1.044		1.056 1.054	1.057 1.055	1.059 1.058	1.061 1.059	1.066 1.061	1.071	1.066	1.068			
45/42	1.044	1.049				1.044		1.034	1.033	1.036	1.059	1.053	1.068 1.056	1.063 1.056	1.052			
48/45	1.039	1.045			1.030						1.034		1.050		1.032			
51/48	1.033	1.035			1.032			1.043	1.036	1.036	1.039	1.041	1.043	1.040	1.043			
54/51	1.031	1.036	1.032					1.034	1.035	1.035	1.036	1.042	1.038	1.035				
57/54	1.026	1.030			1.024			1.031	1.034	1.031	1.033	1.038	1.034	1.034				
60/57	1.026	1.028			1.023				1.028		1.032	1.035	1.030	1.030				
63/60	1.023	1.025			1.019				1.024	1.024	1.027	1.027	1.026					
66/63	1.026	1.021	1.020		1.018			1.024	1.026	1.026	1.029	1.029	1.024					
69/66	1.021	1.022	1.019	1.018	1.016	1.019	1.021	1.023	1.023	1.021	1.024	1.024	1.022					
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					
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						
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						
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						
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						
87/84	1.013	1.011	1.010	1.012	1.012	1.012	1.014	1.013	1.015	1.017	1.013							
90/87	1.013	1.012	1.011	1.013	1.012	1.013	1.015	1.013	1.015	1.013	1.013							
93/90	1.011	1.010	1.011	1.012	1.011	1.013	1.013	1.012	1.014	1.014	1.013							
96/93	1.010	1.010	1.008	1.010	1.010	1.009	1.013	1.015	1.016	1.011	1.011							

Source: WCIRB accident year experience calls

^{*} Paid medical loss development factors include the paid cost of medical cost containment programs.

Reported Indemnity Claim Count Development

Accident									Develo	pment						
<u>Year</u>	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204
1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2013	1.098 1.121 1.153 1.193 1.216 1.231 1.243 1.242 1.246	1.008 1.006 1.015 1.023 1.030 1.032 1.035 1.035	1.003 1.001 1.005 1.006 1.011 1.011 1.013 1.015	1.000 1.000 1.001 1.002 1.005 1.006 1.006 1.008	1.000 0.999 0.999 1.000 1.000 1.003 1.003 1.004	1.000 0.999 0.998 0.999 1.001 1.000 1.002 1.002	1.000 0.999 1.000 0.999 0.999 1.000 1.001	1.000 1.000 1.000 0.999 0.999 1.000 1.001	1.001 1.000 0.999 0.999 0.999 1.000 1.001	1.001 1.000 1.000 1.000 1.000 0.999 1.000	1.001 1.000 1.000 1.000 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 1.001 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 1.001 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
									l ata-	· Voor						
	Age-to-Age	2							Lates	t Year						
	1.246	1.035	1.015	1.008	1.004	1.002	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	Age-to-Ulti 1.331	<u>mate</u> 1.068	1.032	1.018	1.010	1.006	1.004	1.003	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001

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 75% to 99% of the total California workers' compensation insured market measured using 2015 earned premium levels).

Quarterly Reported Indemnity Claim Count Development Factors

Accident							De	velopment							
Year	<u>3-6</u>	<u>6-9</u>	9-12	<u>12-15</u>	<u>15-18</u>	<u>18-21</u>	21-24	24-27	27-30	30-33	33-36	36-39	39-42	<u>42-45</u>	45-48
2007	2.562	1.703	1.361	1.087	1.018	1.009	1.004	1.005	1.004	1.002	1.003	1.002	1.002	1.002	1.001
2008	2.539	1.651	1.340	1.095	1.026	1.015	1.010	1.009	1.007	1.004	1.003	1.003	1.002	1.003	1.002
2009	2.693	1.682	1.388	1.113	1.037	1.021	1.012	1.010	1.007	1.007	1.005	1.004	1.003	1.003	1.002
2010	2.714	1.717	1.408	1.128	1.039	1.022	1.016	1.011	1.008	1.006	1.005	1.003	1.004	1.003	1.001
2011	2.702	1.738	1.421	1.129	1.042	1.027	1.019	1.010	1.011	1.006	1.005	1.004	1.004	1.003	1.002
2012	2.757	1.742	1.420	1.126	1.053	1.029	1.019	1.013	1.010	1.007	1.004	1.005	1.004	1.003	1.003
2013	2.848	1.746	1.426	1.139	1.044	1.027	1.016	1.012	1.011	1.007	1.005				
2014	2.775	1.733	1.429	1.137	1.048	1.026	1.019								
2015	2.844	1.743	1.423												

Reported Indemnity Claim Settlement Ratios

Accident							1	Evaluated	as of (in	months):							
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>	<u>96</u>	108	120	132	<u>144</u>	<u>156</u>	<u>168</u>	<u>180</u>	<u>192</u>	204
1991																99.2%	99.3%
1992															99.0%	99.1%	99.2%
1993														98.6%	98.8%	98.9%	99.0%
1994													98.2%	98.4%	98.6%	98.8%	98.9%
1995												97.5%	97.8%	98.1%	98.4%	98.5%	98.7%
1996											96.8%	97.2%	97.6%	98.0%	98.2%	98.4%	98.6%
1997										96.0%	96.6%	97.1%	97.5%	97.8%	98.0%	98.2%	98.4%
1998									94.4%	95.3%	96.1%	96.7%	97.1%	97.4%	97.7%	98.0%	98.2%
1999								92.5%	94.0%	95.1%	95.9%	96.5%	96.9%	97.3%	97.6%	97.9%	98.1%
2000							89.5%	91.7%	93.3%	94.6%	95.4%	96.1%	96.6%	97.1%	97.5%	97.8%	
2001						84.0%	87.8%	90.4%	92.2%	93.5%	94.5%	95.2%	96.0%	96.6%	96.9%		
2002					78.9%	84.4%	88.1%	90.7%	92.3%	93.7%	94.7%	95.8%	96.4%	96.9%			
2003				70.4%	79.0%	84.5%	88.2%	90.4%	92.3%	93.6%	95.1%	95.9%	96.4%				
2004			60.4%	72.3%	80.3%	84.9%	87.9%	90.3%	92.2%	94.2%	95.2%	95.9%					
2005		48.9%	63.1%	74.5%	81.1%	85.3%	88.3%	90.6%	93.0%	94.4%	95.4%						
2006	27.0%	50.3%	64.8%	74.8%	81.3%	85.5%	88.5%	91.5%	93.2%	94.5%							
2007	27.4%	49.7%	63.6%	73.6%	80.2%	84.5%	88.8%	91.3%	93.1%								
2008	27.6%	48.1%	61.8%	72.1%	79.2%	85.1%	88.9%	91.5%									
2009	26.7%	46.3%	60.1%	70.8%	79.2%	84.7%	88.6%										
2010	26.9%	46.9%	60.8%	72.6%	80.6%	86.0%											
2011	27.6%	47.3%	62.2%	73.7%	81.7%												
2012	27.7%	48.2%	63.5%	75.1%													
2013	27.0%	48.6%	64.8%														
2014	26.9%	49.9%															
2015	27.5%																

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 75% to 99% of the total California workers' compensation insured market measured using 2015 earned premium levels).

Estimated Ultimate Indemnity Claim Settlement Ratios

Accident								Evalu	ated as o	of (in mont	ths):						
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>	<u>132</u>	<u>144</u>	<u>156</u>	<u>168</u>	<u>180</u>	<u>192</u>	204
Year 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014	24.2% 23.7% 22.8% 21.2% 20.9% 21.1% 20.9% 20.3%	48.3% 49.5% 48.2% 45.9% 44.3% 44.4% 45.1% 45.5% 46.7%	60.5% 62.8% 64.1% 62.5% 60.3% 58.5% 59.1% 61.5% 62.8%	70.8% 72.6% 74.2% 71.1% 69.7% 71.5% 72.8% 73.8%	79.0% 79.4% 80.6% 80.9% 79.7% 78.5% 78.4% 79.9% 80.9%	84.1% 84.6% 84.9% 85.1% 85.1% 85.2% 84.2% 84.6% 84.1% 85.4%	89.5% 87.8% 88.2% 88.4% 88.1% 88.2% 88.5% 88.5% 88.5%	92.3% 91.6% 90.4% 90.6% 90.5% 91.1% 91.3%	94.1% 93.8% 93.2% 92.2% 92.3% 92.2% 92.9% 93.1% 92.9%	95.7% 95.1% 94.9% 94.4% 93.4% 93.7% 93.6% 94.1% 94.2% 94.3%	96.5% 96.4% 95.9% 95.8% 95.2% 94.4% 94.6% 95.0% 95.1% 95.3%	97.1% 97.0% 96.9% 96.6% 96.3% 95.1% 95.1% 95.8% 95.8%	97.9% 97.4% 97.5% 97.3% 96.9% 96.8% 96.4% 95.9% 96.3%	98.5% 98.1% 97.8% 97.8% 97.3% 97.1% 96.5% 96.8%	98.9% 98.6% 98.4% 98.1% 98.0% 97.9% 97.5% 97.4% 96.9%	99.0% 99.0% 98.8% 98.6% 98.1% 98.1% 97.9% 97.7%	99.1% 99.1% 98.9% 98.7% 98.6% 98.3% 98.1% 98.0%

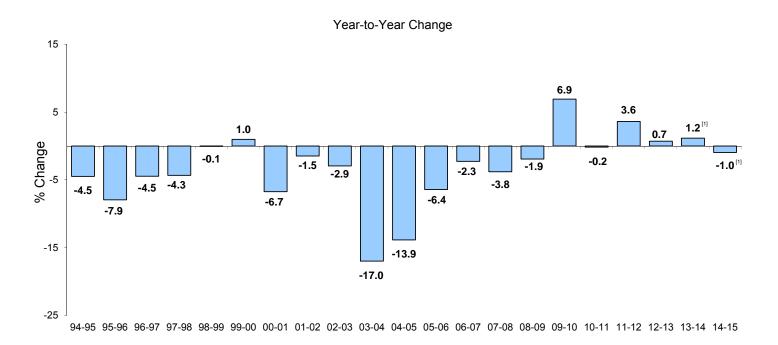
Notes:

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 75% to 99% of the total California workers' compensation insured market measured using 2015 earned premium levels).

Quarterly Ultimate Settlement Ratios

Accident							Evalu	uated as of (in months):							
Year	<u>3</u>	<u>6</u>	<u>9</u>	<u>12</u>	<u>15</u>	<u>18</u>	<u>21</u>	<u>24</u>	<u>27</u>	<u>30</u>	<u>33</u>	<u>36</u>	<u>39</u>	<u>42</u>	<u>45</u>	48
2007	0.8%	5.3%	13.3%	23.7%	33.0%	39.5%	43.9%	48.2%	51.7%	55.6%	58.7%	62.5%	65.3%	67.9%	70.4%	72.8%
2008	0.8%	5.5%	13.3%	22.9%	31.5%	37.7%	42.0%	45.9%	49.6%	53.3%	56.8%	60.3%	63.3%	66.0%	68.7%	71.1%
2009	0.7%	4.7%	12.2%	21.2%	29.5%	35.5%	39.8%	43.9%	47.5%	51.2%	55.0%	58.5%	61.6%	64.6%	67.2%	69.7%
2010	0.7%	4.7%	11.7%	20.9%	29.6%	35.6%	39.9%	44.3%	48.1%	52.1%	55.6%	59.1%	62.3%	65.6%	68.6%	71.5%
2011	0.8%	5.1%	11.8%	21.1%	29.4%	35.5%	40.0%	44.4%	48.2%	52.5%	56.4%	60.4%	63.6%	66.6%	69.7%	72.4%
2012	0.8%	4.9%	11.9%	20.9%	29.0%	35.5%	40.3%	45.1%	49.2%	53.5%	57.7%	61.5%	65.0%	68.2%	71.1%	73.8%
2013	0.9%	4.9%	11.4%	20.3%	28.7%	35.2%	40.6%	45.5%	50.2%	54.7%	58.8%	62.8%				
2014	0.7%	4.6%	11.4%	20.2%	29.1%	35.9%	41.6%	46.7%								
2015	0.8%	4.6%	11.8%	20.7%												
Accident							Quarterly In	cremental C	hange							
Year	<u>3-6</u>	<u>6-9</u>	<u>9-12</u>	<u>12-15</u>	<u>15-18</u>	18-21	21-24	24-27	27-30	30-33	33-36	36-39	39-42	42-45	45-48	
2007	4.5%	8.0%	10.4%	9.3%	6.5%	4.5%	4.3%	3.5%	3.8%	3.2%	3.8%	2.8%	2.6%	2.5%	2.4%	
2008	4.6%	7.8%	9.7%	8.6%	6.2%	4.3%	3.9%	3.6%	3.7%	3.5%	3.5%	2.9%	2.8%	2.6%	2.4%	
2009	4.0%	7.5%	9.0%	8.2%	6.0%	4.4%	4.0%	3.6%	3.7%	3.8%	3.6%	3.0%	3.1%	2.6%	2.5%	
2010	4.1%	7.0%	9.2%	8.6%	6.0%	4.4%	4.3%	3.8%	4.0%	3.6%	3.5%	3.1%	3.3%	3.0%	2.9%	
2011	4.3%	6.8%	9.2%	8.3%	6.1%	4.5%	4.4%	3.9%	4.3%	3.9%	4.0%	3.3%	3.0%	3.0%	2.8%	
2012	4.1%	7.0%	9.0%	8.1%	6.5%	4.8%	4.8%	4.1%	4.3%	4.2%	3.8%	3.4%	3.2%	2.9%	2.8%	
2013	4.0%	6.5%	8.9%	8.4%	6.5%	5.4%	4.9%	4.7%	4.5%	4.1%	4.0%					
2014	3.9%	6.8%	8.9%	8.9%	6.8%	5.7%	5.1%									
2015	3.8%	7.1%	8.9%													

California Workers' Compensation Estimated Indemnity Claim Frequency by Accident Year



^[1] The 2013-2014 estimate is based on partial year unit statistical data. The 2014-2015 estimate is based on comparison of claim counts based on WCIRB accident year experience as of December 31, 2015 relative to the estimated change in statewide employment. Prior years are based on unit statistical data.

Item AC16-03-03 Loss Development at Earlier and Later Maturities

In 2014, the Committee reviewed a study of loss development that included an analysis of potential alternative approaches to projecting loss development at earlier maturities. Specifically, the Bornhuetter-Ferguson (BF) expected loss ratio (ELR)-based approach was shown to produce developed loss ratios that were often more accurate than those produced by chain-ladder (CL) methods. The Committee suggested staff continue to refine the BF approach and study its applicability to projecting developed loss ratios for less mature accident years, where CL development factors are highly leveraged.

At the March 18, 2015 meeting, the Committee reviewed a study of allocated loss adjustment expense (ALAE) development which showed that an inverse power curve fit very well to the paid ALAE age-to-age factors at later maturities.² This approach, with some refinements, was adopted by the Committee for the ALAE projection at that meeting and reflected in the January 1, 2016 Pure Premium Rate Filing. At the meeting, the Committee recommended studying the applicability of an inverse power curve fit to the indemnity and medical loss development tails.

Staff's preliminary analysis of these potential alternative loss development approaches is discussed below.

Loss Development at Earlier Maturities - BF Method

In the 2014 loss development study, staff compared several ELR-based approaches including the BF as well as alternatives including the Cape Cod and Benktander methods to the CL approach. In that study it was noted that, compared to the standard BF approach, the alternative ELR-based methods resulted in significant additional complexity in the calculation but did not increase the accuracy of the projections. Staff had also reviewed several approaches of projecting the ELR including adjusting the projected loss ratio from the most recent pure premium rate filing to the target accident year level, trending loss ratios from older accident years at the target maturity to the target accident year, or developing the loss ratios from the immediate prior accident years to the target maturity and then trending them to the target year. Staff found that the approach that trends from older years at the target maturity involved the fewest assumptions and produced projections at least as accurate as the other alternatives tested. As a result, for this study staff has focused on the standard BF approach with the ELR based on the reported loss ratios from accident years at the target maturity trended to the target accident year.

Staff conducted retrospective tests of the BF method compared to the CL method for both paid and incurred indemnity and medical loss development. The BF methods included ELRs projected by (a) trending from the latest two years and (b) trending from the latest year only, while the CL method was based on latest-year age-to-age development.³ The trending approach used in the ELR projections was based on separate frequency and severity trend projections with the frequency trend based on the actual indemnity claim frequency changes from the base year to the target year and the severity projections based on the five-year average on-level indemnity or medical severity trends. The premium and losses in the base year's reported loss ratio were also on-leveled to the target year. Contrary to the 2014 study, in which all on-level and trend factors were based on hindsight actual data, the on-level and trend selections in this study were based on the information available in the pure premium rate filing in which the target accident year would have been used (for example, to project accident year 2014, the base year(s) utilized on-level and trend factors from the January 1, 2016 Pure Premium Rate Filing). In this way, the retrospective tests more accurately show how each method would have performed at the time of its use.

¹ See Item AC14-03-03 of the March 19, 2014 and June 11, 2014 Actuarial Committee Agendas.

² See Item AC14-12-02 of the March 18, 2015 Actuarial Committee Agenda.

³ None of the methods tested reflected adjustments to development for the impact of Senate Bill No. 863 or other reforms.

As an example, Exhibit 1 shows the BF calculation for accident year 2013 paid development projected from 12 months to 24 months.

Exhibits 2.1 and 2.2 show for indemnity and medical, respectively, the percentage difference in the developed paid or incurred loss ratio under each method compared to actual paid or incurred loss ratio that emerged for that accident year. Projections to 24 months, 36 months, and 48 months were analyzed. Exhibits 3.1 and 3.2 show ranks of the absolute value of these differences, while Exhibits 4.1 through 4.3 show the absolute value of these differences graphically.

The accident years tested were grouped approximately by claim environment, including the Minniear prereform era (1998-2001), the reform transition era (2002-2004), the post-reform/recession era (20052008), and the post-recession/SB 863 era (2009-2013). The root mean squared error (rMSE) of the
projections and average rank by claims environment are summarized on Exhibits 5.1 through 5.3. While
the BF methods were more accurate in some cases, the CL methods performed much better overall. In
general, during periods where uncertainty in the rate claims were paid or incurred was greater than
uncertainty in changes in the overall loss level, the BF approach tended to perform better than the CL
approach, and vice versa, since the BF method relies less on the most recent loss development factors
and more on accurate on-level and trend projections. However, reforms and other system shocks that
occurred during these periods often affected the overall loss level much more significantly than the rate of
loss development at early maturities.

Loss Development at Later Maturities – Inverse Power Curve

The WCIRB's current "calendar year development" approach to developing the loss tail is based on relating the reported aggregate calendar year incremental change in incurred losses for all accident years older than the "base" year (for example, accident year 1984 is the "base" year for December 31, 2014 experience) to the cumulative reported losses for the "base" year. For many years, the resulting factors for indemnity have been reduced to 20% of their reported values for asbestosis claims in pre-1980 accident years. Since 2012, the factors for medical have been adjusted for the effects of medical inflation that adjusts the calendar year incremental incurred changes to the inflation level that is estimated to be in effect when the "base" year is at the specified maturity level. A six-year average of these tail development factors are selected to improve stability.

At the March 18, 2015 meeting, the Committee reviewed several alternative tail development approaches for ALAE including a calendar year development approach similar to that used for losses as well as several approaches that fit the paid ALAE age-to-age factors to a function and extrapolated a tail development factor based on the fitted factors. At that meeting, the Committee noted that the inverse power curve fit very well to the paid ALAE age-to-age factors and much better than the other functions tested. It was also noted that the inverse power curve approach utilized less tail development data and required fewer additional adjustments (such as for the effects of inflation) than the calendar year development approach. As a result, the Committee adopted this approach for ALAE at that meeting and recommended studying its applicability to indemnity and medical losses.

Staff analyzed several fits of the inverse power curve to the paid and incurred indemnity and medical age-to-age factors. As with ALAE, the assumptions of the inverse power tail approach include (a) the number of calendar years' factors to use in the fit (additional years improve stability but may reduce responsiveness), (b) the maturity at which to start the fit (starting earlier may improve the fit but may also

⁴ This adjustment was last reviewed in detail by the Committee at the March 22, 2004 meeting (Item AC02-03-02).

⁵ See Item AC11-12-04 of the March 20, 2012 and June 15, 2012 Actuarial Committee Agendas.

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⁶ Due to properties of the inverse power curve, it cannot be fitted to development factors less than 1, since this would involve taking the natural logarithm of a negative number. In the instances where the 3-year through 6-year average of factors resulted in a factor less than 1, it was ignored in the fit. These observations occurred in less than 3% of the empirical factors, the majority of which were from the fit to the 3-year average indemnity factors.

over fit to the less mature factors), and (c) the point at which to stop the extrapolation to determine the development tail. For ALAE, the approach adopted by the Committee at the March 18, 2015 meeting and reflected in the January 1, 2016 Pure Premium Rate Filing fit the inverse power curve to the average of the latest three calendar years' paid ALAE age-to-age factors starting with the 10th development year and extrapolated to the 65th development year. For the applicability to indemnity and medical losses, staff tested several variations of these assumptions, including (a) fitting to 3-year through 6-year averages of age-to-age factors, (b) starting fit points from 10 years through 20 years (all fits ended at 29 years, the latest available maturity for which multi-year averages of factors are available), and (c) stopping extrapolation points through 100 years.

Exhibit 6.1 shows an example calculation based on December 31, 2014 experience for fitting the 6-year average indemnity incurred factors and Exhibit 6.2 shows the calculation for fitting the 6-year average medical incurred factors. The goodness of fit measured by the overall R-squared was generally very good when fitting from the 10th year and decreased when starting with later development years.

In order to further test the reasonableness of the fits, staff fit age-to-age factors from periods up through December 31, 2013 and compared the resulting fitted factors to the empirical data as well as the actual age-to-age factors emerging for December 31, 2014 experience. These comparisons are shown graphically on Exhibits 7.1 through 7.8. In general, fitting from the 10th year fit reasonably well to both the empirical and actual data, and converged to 1.000 more rapidly than the alternative starting points.

As shown on Exhibits 7.1 through 7.8, the inverse power curve fit reasonably well to both paid and incurred age-to-age factors. However, as discussed at the March 19, 2014 and June 11, 2014 meetings and in recent pure premium rate filings, use of paid development factors from older accident years may be distorted by shifts in paid and incurred development patterns occurring in the mid-1990s. As a result, inasmuch as the paid age-to-age factors from older accident years are not used in the WCIRB's current loss development methodology, staff focused mainly on the incurred age-to-age factors.

Exhibits 8.1 through 8.4 summarize various alternative approaches for fitting from the 10th through 29th development years based on December 31 experience. The 348-to-ultimate factor based on fitting the indicated number of calendar years (3 through 6) and stopping point (40 years through 100 years) is shown. The R-squared for each fit is also shown and the fit indicating the greatest R-squared for each set of December 31 experience is highlighted. While no number of calendar years indicated a consistently better fit, they generally fit very well to the data and produced tail factors reasonably close to each other within each stopping point.

Also shown for comparison on Exhibits 8.1 and 8.2 are the 6-year average adjusted incurred 348-to-ultimate factors indicated by the WCIRB's current "calendar year development" approach as well as the unadjusted factors for indemnity (i.e., not including the 80% reduction for asbestosis claims) and medical (i.e., not including the adjustment for medical inflation). The fitted tail factors are reasonably close to those indicated by the WCIRB's current approach and generally in between the adjusted and unadjusted "calendar year development" factors. An advantage of the fitted approach is that it does not require the additional adjustments made in the calendar year development approach, which include their own assumptions, since no factors prior to 1980 (where most asbestosis claims are assumed to have occurred) are used in the fit and the fit only uses cumulative age-to-age factors (so distortions for inflation are minimal).

As a measure of stability, the lower section of Exhibits 8.1 through 8.4 show the standard deviation in each of the fitted approaches as well as that for the calendar year development approach. In general, using more calendar years in the fit and stopping earlier results in more stable tail factors. Particularly for incurred medical (Exhibit 8.2), fits using 6-year averages of factors were significantly more stable than the

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⁷ See Item AC14-03-03 of the March 19, 2014 and June 11, 2014 Actuarial Committee Agendas.

current adjusted calendar year development approach. In order to determine an appropriate stopping point, staff reviewed data from the most recent Long Term Loss Development Survey and found that positive incurred development continues to occur on claims over 77 years old, suggesting a stopping point of 80 years may be appropriate.

Table 1 summarizes a number of the inverse power curve fit approaches as well as the calendar year development approach based on December 31, 2014 experience.

	Table 1 – Alternat	ive Incurred T	ail Developme	nt Approaches	
Component	Approach	# of Calendar Years Used	Starting Point of Fit	Stopping Point of Extrapolation	Incurred 348-to-Ult. Factor
Indemnity	CY Dev (Adj.)	6	N/A	N/A	1.002
Indemnity	CY Dev (Unadj.)	6	N/A	N/A	1.008
Indemnity	Inverse Power	3	Year 10	65 Years	1.003
Indemnity	Inverse Power	6	Year 10	65 Years	1.004
Indemnity	Inverse Power	6	Year 10	80 Years	1.005
Medical	CY Dev (Adj.)	6	N/A	N/A	1.049
Medical	CY Dev (Unadj.)	6	N/A	N/A	1.027
Medical	Inverse Power	3	Year 10	65 Years	1.023
Medical	Inverse Power	6	Year 10	65 Years	1.038
Medical	Inverse Power	6	Year 10	80 Years	1.044

Bornhuetter-Ferguson Paid Development Method Calculation Data Evaluated as of 12/31/2014

	Paid to 24	Months
	Indemnity	Medical
1. AY 2013 Reported Paid Loss Ratio at 12 Months	0.024	0.040
2. Reported Paid Loss Ratios at 24 Months for ELR		
a. 2011	0.092	0.131
b. 2012	0.085	0.118
3. Actual Frequency Changes*		
a. 2012	3.2%	3.2%
b. 2013	4.9%	4.9%
0. 2013	4.970	4.570
4. 5-Year Average Severity Change*	0.5%	4.5%
5. Composite Loss On-Level Adjustment Factors*		
a. 2011	1.147	1.004
b. 2012	1.124	1.003
c. 2013	1.131	1.056
6. Composite Promium On Loyal Adjustment Footors*		
6. Composite Premium On-Level Adjustment Factors*	1.274	1.274
a. 2011 b. 2012	1.274	1.274
	1.140	1.140
c. 2013	1.002	1.002
7. AY 2013 Expected Paid Loss Ratio at 24 Months		
a. Projected from 2011 ((2a) x (3a) x (3b) x (4) ² x (5c)/(5a) x (6a)/(6c))	0.080	0.116
b. Projected from 2012 ((2b) x (3b) x (4) x (5c)/(5b) x (6b)/(6c))	0.078	0.108
c. Average	0.079	0.112
8. Projected 12-to-24 Paid Development Factor	3.137	2.553
or rejected 12 to 211 and 2010 opinion 1 dote.	0.107	2.000
9. AY 2013 Projected Paid Loss Ratio at 24 Months	0.078	0.108
10. Actual AY 2013 Paid Loss Ratio at 24 Months	0.075	0.100
11. Difference from Actual		
a. Projected from 2012	2.6%	5.6%
b. Projected from 2011 and 2012	3.5%	7.9%
12 Chain Ladder Estimate ((1) v (9))	0.074	0.402
12. Chain Ladder Estimate ((1) x (8))	0.074	0.102
13. Chain Ladder Difference from Actual	-0.9%	2.2%

^{*} Factors are from 1/1/2016 Pure Premium Rate Filing

Deviation of Alternative Loss Development Indication from Actual Loss Ratio: Indemnity

Deviation from Actual Paid or Incurred Indemnity Loss Ratio at 24 Months

						Dev	eloped from	n 12 to 24 M	Ionths for A	ccident Yea	ar					
<u>Method</u>	<u>1998</u>	<u> 1999</u>	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	2012	2013
CL-LYPaid	0.4%	-2.2%	-0.7%	-3.3%	-1.2%	5.4%	14.1%	5.0%	-4.8%	-1.3%	-0.7%	-4.6%	-2.8%	-1.6%	2.2%	-0.9%
CL-LYIncurred	-7.4%	-3.0%	-3.6%	-2.5%	-5.4%	6.5%	19.9%	-6.5%	-10.9%	-5.3%	-4.0%	-6.3%	-0.6%	-0.2%	0.1%	3.0%
BF-LYPaid	0.2%	-2.8%	7.9%	3.8%	0.9%	7.5%	6.1%	-12.7%	-6.6%	-6.9%	-4.9%	-6.6%	-1.3%	-1.3%	2.9%	2.6%
BF-LYIncurred	-6.8%	-3.5%	3.3%	11.2%	9.8%	25.4%	39.7%	4.2%	-13.8%	-13.7%	-10.6%	-9.9%	1.4%	1.5%	5.2%	7.8%
BF-2YAvgPaid	-2.1%	-1.8%	10.6%	6.9%	1.3%	8.8%	8.3%	-13.4%	-18.0%	-9.5%	-7.3%	-7.1%	-2.7%	0.4%	2.0%	3.5%
BF-2YAvgIncurred	-5.9%	-3.7%	2.1%	2.3%	-2.7%	9.7%	18.9%	-8.5%	-14.9%	-8.7%	-6.8%	-8.6%	-1.6%	0.5%	1.7%	4.6%

Deviation from Actual Paid or Incurred Indemnity Loss Ratio at 36 Months Developed from 12 to 36 Months for Accident Year

_						Develope	d from 12 t	o 36 Months	s for Accide	nt Year					
Method	<u>1998</u>	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	<u>2011</u>	2012
CL-LYPaid	-0.1%	-5.9%	-4.0%	-7.0%	-5.4%	10.7%	31.9%	17.7%	-5.9%	-3.6%	-3.1%	-8.7%	-5.9%	-1.3%	4.1%
CL-LYIncurred	-11.1%	-7.8%	-5.3%	-5.3%	-7.0%	17.7%	29.1%	-8.6%	-17.2%	-9.4%	-8.0%	-7.7%	-1.6%	1.1%	2.7%
BF-LYPaid	-5.3%	-3.1%	12.1%	8.1%	-1.8%	16.3%	29.2%	-7.7%	-34.4%	-16.0%	-13.3%	-11.9%	-7.3%	3.0%	2.7%
BF-LYIncurred	-10.4%	-7.8%	3.1%	1.5%	-3.1%	22.9%	32.8%	-9.7%	-27.8%	-15.4%	-13.3%	-10.9%	-5.0%	3.9%	3.6%
BF-2YAvgPaid	-5.1%	-5.2%	13.7%	7.7%	0.9%	16.7%	28.3%	-4.5%	-33.0%	-28.4%	-16.6%	-13.1%	-8.0%	1.4%	3.4%
BF-2YAvgIncurred	-10.0%	-9.3%	3.2%	0.4%	-2.1%	22.6%	33.1%	-6.9%	-26.9%	-23.2%	-15.6%	-12.1%	-5.6%	2.6%	4.4%

Deviation from Actual Paid or Incurred Indemnity Loss Ratio at 48 Months Developed from 12 to 48 Months for Accident Year

_					Devi	eloped from	12 to 48 I	vionths for A	ccident Yea	ar				
Method	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	<u>2010</u>	2011
CL-LYPaid	-2.2%	-8.5%	-7.0%	-11.1%	-6.3%	14.9%	41.0%	23.0%	-4.3%	-4.4%	-5.9%	-12.3%	-8.2%	-1.2%
CL-LYIncurred	-14.7%	-10.0%	-6.0%	-5.2%	-3.2%	22.7%	31.8%	-11.0%	-20.3%	-12.4%	-11.1%	-10.3%	-2.4%	1.2%
BF-LYPaid	-7.0%	-9.1%	12.3%	3.5%	2.8%	20.8%	36.3%	2.3%	-31.9%	-43.3%	-23.1%	-18.0%	-11.2%	0.1%
BF-LYIncurred	-13.4%	-12.5%	3.0%	0.1%	3.3%	27.5%	37.3%	-6.0%	-29.4%	-34.8%	-21.5%	-16.1%	-7.3%	1.5%
BF-2YAvgPaid	-6.1%	-8.5%	12.6%	4.0%	1.8%	23.2%	33.3%	1.2%	-30.0%	-44.6%	-33.4%	-20.6%	-12.8%	-0.3%
BF-2YAvgIncurred	-12.7%	-12.4%	2.7%	-0.4%	2.1%	28.6%	35.6%	-5.8%	-28.1%	-35.9%	-28.6%	-18.5%	-8.8%	1.4%

Deviation of Alternative Loss Development Indication from Actual Loss Ratio: Medical

Deviation from Actual Paid or Incurred Medical Loss Ratio at 24 Months

						Dev	eloped from	12 to 24 M	onths for A	ccident Yea	r					
Method	<u> 1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
CL-LYPaid	-3.4%	-5.5%	-7.8%	-10.6%	-1.9%	10.3%	9.6%	0.7%	-3.5%	-4.6%	3.9%	-3.5%	-2.9%	-5.1%	0.7%	2.2%
CL-LYIncurred	-7.5%	-4.9%	-6.9%	-9.3%	-2.6%	2.2%	13.4%	-4.5%	-4.6%	-3.8%	-0.6%	-4.8%	-1.0%	-2.8%	4.9%	4.2%
BF-LYPaid	-4.2%	-3.4%	2.8%	-1.5%	2.3%	12.2%	16.0%	-2.4%	-5.6%	-8.1%	-0.3%	-2.2%	0.9%	-2.3%	2.0%	5.6%
BF-LYIncurred	-7.8%	-5.2%	-2.1%	0.1%	4.8%	19.6%	29.6%	-2.4%	-9.6%	-11.2%	-7.3%	-8.0%	-0.3%	-1.2%	7.9%	8.7%
BF-2YAvgPaid	-5.8%	-3.3%	5.4%	1.4%	3.8%	13.6%	19.0%	-2.2%	-7.1%	-11.5%	-1.9%	-1.8%	0.8%	-0.2%	0.8%	7.9%
BF-2YAvgIncurred	-7.7%	-4.4%	-1.4%	-2.9%	0.6%	6.2%	16.4%	-5.2%	-6.7%	-7.7%	-2.3%	-3.9%	0.4%	-1.1%	4.7%	6.7%

Deviation from Actual Paid or Incurred Medical Loss Ratio at 36 Months Developed from 12 to 36 Months for Accident Year

_						Develope	d from 12 t	o 36 Months	s for Accide	nt Year					
<u>Method</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	<u>2011</u>	2012
CL-LYPaid	-7.8%	-11.1%	-15.2%	-15.1%	-1.3%	22.8%	15.7%	-2.2%	-7.9%	-9.2%	2.3%	-5.7%	-6.7%	-6.7%	1.7%
CL-LYIncurred	-13.9%	-12.5%	-12.5%	-13.0%	-2.3%	15.5%	20.1%	-8.4%	-9.5%	-6.3%	-1.9%	-6.7%	-3.6%	-2.1%	6.5%
BF-LYPaid	-12.0%	-8.1%	1.8%	0.9%	7.9%	27.5%	31.7%	-5.2%	-13.9%	-20.5%	-6.1%	-3.2%	-2.6%	1.6%	2.2%
BF-LYIncurred	-14.8%	-11.9%	-4.6%	-4.2%	4.0%	22.0%	27.3%	-9.3%	-13.2%	-14.1%	- 5.1%	-5.3%	-2.3%	2.0%	4.9%
BF-2YAvgPaid	-11.3%	-9.4%	1.7%	1.6%	10.0%	29.3%	31.8%	-2.1%	-13.0%	-24.2%	-9.3%	-2.6%	-2.8%	1.0%	2.5%
BF-2YAvgIncurred	-14.2%	-12.7%	-5.3%	-4.3%	5.1%	23.1%	27.3%	-7.9%	-13.0%	-16.8%	-7.2%	-4.6%	-2.5%	1.3%	5.4%

Deviation from Actual Paid or Incurred Medical Loss Ratio at 48 Months Developed from 12 to 48 Months for Accident Year

_					Deve	eloped from	1 12 to 48 I	Months for A	ccident Yea	ar				
<u>Method</u>	<u>1998</u>	<u> 1999</u>	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
CL-LYPaid	-12.3%	-15.8%	-17.9%	-17.0%	2.0%	28.3%	16.7%	-6.3%	-11.6%	-12.2%	-0.3%	-8.9%	-9.3%	-7.7%
CL-LYIncurred	-21.3%	-17.1%	-15.2%	-13.2%	3.5%	23.4%	19.8%	-10.8%	-13.3%	-7.3%	-5.5%	-9.7%	-4.1%	-2.0%
BF-LYPaid	-14.9%	-15.2%	-0.8%	0.9%	16.7%	35.2%	33.6%	-3.0%	-16.1%	-31.1%	-15.4%	-5.0%	-5.5%	-0.2%
BF-LYIncurred	-20.8%	-17.6%	-8.4%	-3.6%	13.4%	32.9%	28.2%	-8.6%	-16.6%	-22.3%	-13.3%	-6.8%	-3.2%	1.0%
BF-2YAvgPaid	-13.6%	-13.6%	-0.8%	0.9%	17.6%	36.9%	32.0%	-3.9%	-13.0%	-35.0%	-18.7%	-8.4%	-6.1%	-0.5%
BF-2YAvgIncurred	-20.6%	-16.9%	-8.4%	-4.6%	13.9%	33.4%	27.6%	-8.8%	-14.9%	-25.2%	-15.5%	-9.4%	-3.7%	0.8%

Rank of Absolute Deviation of Methodology Indication from Actual Loss Ratio: Indemnity

Rank of Absolute Deviation from Actual Paid or Incurred Indemnity Loss Ratio

						Deve	loped from	12 to 24 Mo	onths for Ac	cident Year	r					
Method	<u>1998</u>	<u> 1999</u>	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
CL-LYPaid	2	2	1	3	2	1	3	2	1	1	1	1	6	6	4	1
CL-LYIncurred	6	4	4	2	5	2	5	3	3	2	2	2	1	1	1	3
BF-LYPaid	1	3	5	4	1	3	1	5	2	3	3	3	2	4	5	2
BF-LYIncurred	5	5	3	6	6	6	6	1	4	6	6	6	3	5	6	6
BF-2YAvgPaid	3	1	6	5	3	4	2	6	6	5	5	4	5	2	3	4
BF-2YAvgIncurred	4	6	2	1	4	5	4	4	5	4	4	5	4	3	2	5

Rank of Absolute Deviation from Actual Paid or Incurred Indemnity Loss Ratio Developed from 12 to 36 Months for Accident Year

_						Developed	from 12 to	36 Months	for Acciden	t Year					
Method	<u>1998</u>	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	<u>2011</u>	2012
CL-LYPaid	1	3	3	4	5	1	4	6	1	1	1	2	4	2	5
CL-LYIncurred	6	4	4	3	6	4	2	4	2	2	2	1	1	1	2
BF-LYPaid	3	1	5	6	2	2	3	3	6	4	4	4	5	5	1
BF-LYIncurred	5	5	1	2	4	6	5	5	4	3	3	3	2	6	4
BF-2YAvgPaid	2	2	6	5	1	3	1	1	5	6	6	6	6	3	3
BF-2YAvgIncurred	4	6	2	1	3	5	6	2	3	5	5	5	3	4	6

Rank of Absolute Deviation from Actual Paid or Incurred Indemnity Loss Ratio

_					Deve	eloped from	12 to 48 M	onths for Ac	ccident Year	r .				
<u>Method</u>	<u>1998</u>	<u> 1999</u>	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
CL-LYPaid	1	1	4	6	6	1	6	6	1	1	1	2	3	4
CL-LYIncurred	6	4	3	5	4	3	1	5	2	2	2	1	1	3
BF-LYPaid	3	3	5	3	3	2	4	2	6	5	4	4	5	1
BF-LYIncurred	5	6	2	1	5	5	5	4	4	3	3	3	2	6
BF-2YAvgPaid	2	2	6	4	1	4	2	1	5	6	6	6	6	2
BF-2YAvgIncurred	4	5	1	2	2	6	3	3	3	4	5	5	4	5

Rank of Absolute Deviation of Methodology Indication from Actual Loss Ratio: Medical

Rank of Absolute Deviation from Actual Paid or Incurred Medical Loss Ratio

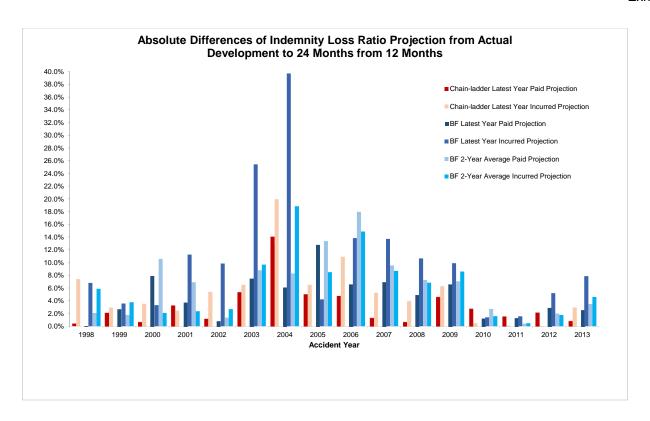
_						Deve	loped from	12 to 24 M	onths for Ac	cident Yea	r					
Method	<u>1998</u>	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	<u>2011</u>	2012	2013
CL-LYPaid	1	6	6	6	2	3	1	1	1	2	5	3	6	6	1	1
CL-LYIncurred	4	4	5	5	4	1	2	5	2	1	2	5	5	5	5	2
BF-LYPaid	2	2	3	3	3	4	3	3	3	4	1	2	4	4	3	3
BF-LYIncurred	6	5	2	1	6	6	6	4	6	5	6	6	1	3	6	6
BF-2YAvgPaid	3	1	4	2	5	5	5	2	5	6	3	1	3	1	2	5
BF-2YAvgIncurred	5	3	1	4	1	2	4	6	4	3	4	4	2	2	4	4

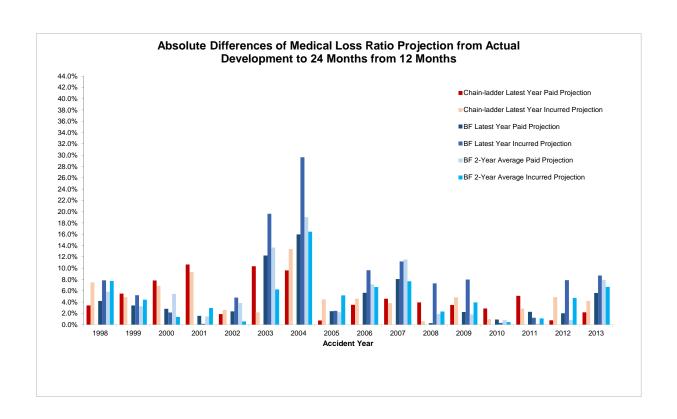
Rank of Absolute Deviation from Actual Paid or Incurred Medical Loss Ratio

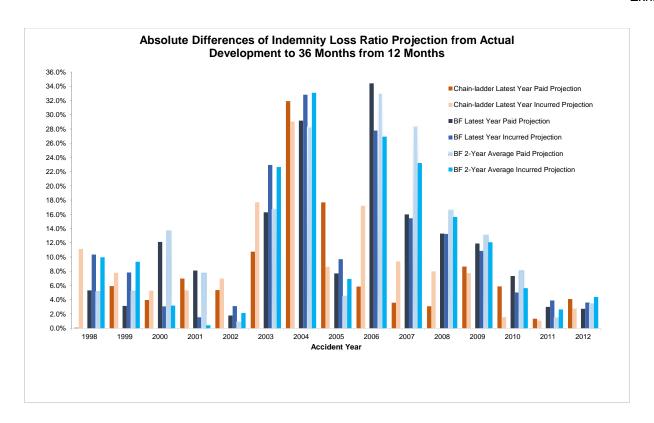
<u></u>						Developed	Irom 12 to	36 Months	ior acciden	t rear					
Method	<u> 1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
CL-LYPaid	1	3	6	6	1	3	1	2	1	2	2	5	6	6	1
CL-LYIncurred	4	5	5	5	2	1	2	5	2	1	1	6	5	5	6
BF-LYPaid	3	1	2	1	5	5	5	3	6	5	4	2	3	3	2
BF-LYIncurred	6	4	3	3	3	2	4	6	5	3	3	4	1	4	4
BF-2YAvgPaid	2	2	1	2	6	6	6	1	4	6	6	1	4	1	3
BF-2YAvgIncurred	5	6	4	4	4	4	3	4	3	4	5	3	2	2	5

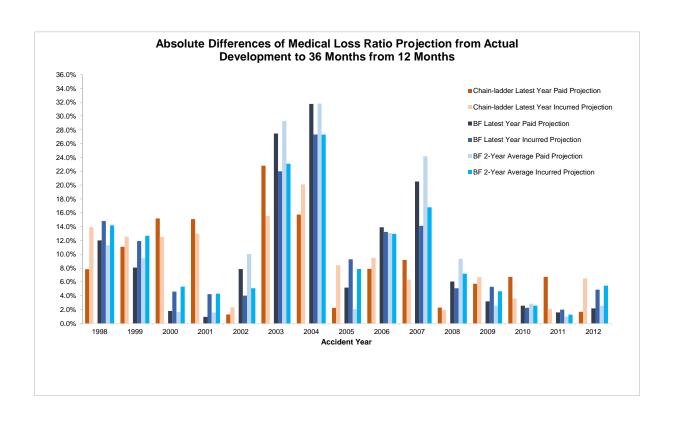
Rank of Absolute Deviation from Actual Paid or Incurred Medical Loss Ratio Developed from 12 to 48 Months for Accident Year

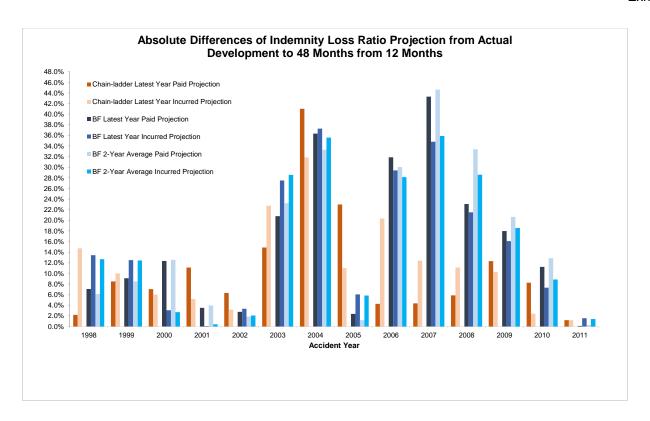
_					Deve	loped from	12 to 48 Mo	onths for Ac	cident Year	•				
Method	<u>1998</u>	<u> 1999</u>	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	<u>2010</u>	2011
CL-LYPaid	1	3	6	6	1	2	1	3	1	2	1	4	6	6
CL-LYIncurred	6	5	5	5	2	1	2	6	3	1	2	6	3	5
BF-LYPaid	3	2	1	2	5	5	6	1	5	5	4	1	4	1
BF-LYIncurred	5	6	4	3	3	3	4	4	6	3	3	2	1	4
BF-2YAvgPaid	2	1	2	1	6	6	5	2	2	6	6	3	5	2
BF-2YAvgIncurred	4	4	3	4	4	4	3	5	4	4	5	5	2	3

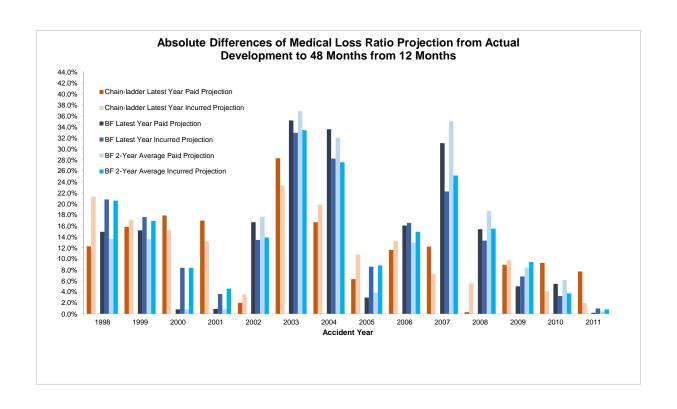












Mean Square Error and Average Rank of Absolute Difference from Actual Paid or Incurred Loss Ratio at 24 Months by Claims Environment

				Indem	nity			
	Roc	ot Mean Squar	re Error (rMSE	<u> </u>	Averag	e Rank of Al	osolute Diffe	rence
			Post-	Post-			Post-	Post-
	Minniear	Reform	Reform/	Recession/	Minniear	Reform	Reform/	Recession/
	Pre-Reform	Transition	Recession	SB 863	Pre-Reform	Transition	Recession	SB 863
	Era	Era	Era	Era	Era	Era	Era	Era
	(1998-	(2002-	(2005-	(2009-	(1998-	(2002-	(2005-	(2009-
Development Methodology	<u>2001)</u>	<u>2004)</u>	2008)	<u>2013)</u>	<u>2001)</u>	<u>2004)</u>	2008)	<u>2013)</u>
CL-LYPaid	0.020	0.087	0.036	0.027	2.0	2.0	1.3	3.6
CL-LYIncurred	0.045	0.125	0.072	0.031	4.0	4.0	2.5	1.6
BF-LYPaid	0.046	0.056	0.083	0.035	3.3	1.7	3.3	3.2
BF-LYIncurred	0.070	0.278	0.113	0.062	4.8	6.0	4.3	5.2
BF-2YAvgPaid	0.065	0.070	0.127	0.038	3.8	3.0	5.5	3.6
BF-2YAvgIncurred	0.038	0.123	0.102	0.045	3.3	4.3	4.3	3.8

				Med	dical			
	Roo	t Mean Squar	e Error (rMSE	≣)	Avera	ge Rank of A	osolute Diffe	rence
			Post-	Post-			Post-	Post-
	Minniear	Reform	Reform/	Recession/	Minniear	Reform	Reform/	Recession/
	Pre-Reform	Transition	Recession	SB 863	Pre-Reform	Transition	Recession	SB 863
	Era	Era	Era	Era	Era	Era	Era	Era
	(1998-	(2002-	(2005-	(2009-	(1998-	(2002-	(2005-	(2009-
Development Methodology	<u>2001)</u>	<u>2004)</u>	2008)	<u>2013)</u>	<u>2001)</u>	<u>2004)</u>	2008)	<u>2013)</u>
CL-LYPaid	0.074	0.082	0.035	0.032	4.8	2.0	2.3	3.4
CL-LYIncurred	0.073	0.080	0.037	0.038	4.5	2.3	2.5	4.4
BF-LYPaid	0.031	0.117	0.051	0.030	2.5	3.3	2.8	3.2
BF-LYIncurred	0.048	0.207	0.083	0.064	3.5	6.0	5.3	4.4
BF-2YAvgPaid	0.044	0.137	0.069	0.037	2.5	5.0	4.0	2.4
BF-2YAvgIncurred	0.047	0.102	0.058	0.041	3.3	2.3	4.3	3.2

Mean Square Error and Average Rank of Absolute Difference from Actual Paid or Incurred Loss Ratio at 36 Months by Claims Environment

				Indemi	nity			
	Roc	ot Mean Squa	re Error (rMSE	≣)	Averag	e Rank of Al	bsolute Diffe	rence
			Post-	Post-			Post-	Post-
	Minniear	Reform	Reform/	Recession/	Minniear	Reform	Reform/	Recession/
	Pre-Reform	Transition	Recession	SB 863	Pre-Reform	Transition	Recession	SB 863
	Era	Era	Era	Era	Era	Era	Era	Era
	(1998-	(2002-	(2005-	(2009-	(1998-	(2002-	(2005-	(2009-
Development Methodology	<u>2001)</u>	<u>2004)</u>	2008)	<u>2013)</u>	<u>2001)</u>	<u>2004)</u>	2008)	<u>2013)</u>
CL-LYPaid	0.050	0.197	0.096	0.057	2.8	3.3	2.3	3.3
CL-LYIncurred	0.077	0.200	0.114	0.042	4.3	4.0	2.5	1.3
BF-LYPaid	0.079	0.193	0.205	0.073	3.8	2.3	4.3	3.8
BF-LYIncurred	0.067	0.232	0.179	0.065	3.3	5.0	3.8	3.8
BF-2YAvgPaid	0.087	0.190	0.234	0.079	3.8	1.7	4.5	4.5
BF-2YAvgIncurred	0.070	0.232	0.197	0.071	3.3	4.7	3.8	4.5

	Medical								
	Root Mean Square Error (rMSE)				Averag	Average Rank of Absolute Difference			
		-	Post-	Post-			Post-	Post-	
	Minniear	Reform	Reform/	Recession/	Minniear	Reform	Reform/	Recession/	
	Pre-Reform	Transition	Recession	SB 863	Pre-Reform	Transition	Recession	SB 863	
	Era	Era	Era	Era	Era	Era	Era	Era	
	(1998-	(2002-	(2005-	(2009-	(1998-	(2002-	(2005-	(2009-	
Development Methodology	2001)	2004)	2008)	2013)	2001)	2004)	2008)	2013)	
CL-LYPaid	0.127	0.160	0.063	0.056	4.0	1.7	1.8	4.5	
CL-LYIncurred	0.130	0.147	0.071	0.051	4.8	1.7	2.3	5.5	
BF-LYPaid	0.073	0.247	0.130	0.024	1.8	5.0	4.5	2.5	
BF-LYIncurred	0.100	0.204	0.110	0.039	4.0	3.0	4.3	3.3	
BF-2YAvgPaid	0.074	0.256	0.145	0.023	1.8	6.0	4.3	2.3	
BF-2YAvgIncurred	0.101	0.208	0.119	0.039	4.8	3.7	4.0	3.0	

Mean Square Error and Average Rank of Absolute Difference from Actual Paid or Incurred Loss Ratio at 48 Months by Claims Environment

	Indemnity							
	Root Mean Square Error (rMSE)				Average Rank of Absolute Difference			
			Post-	Post-			Post-	Post-
	Minniear	Reform	Reform/	Recession/	Minniear	Reform	Reform/	Recession/
	Pre-Reform	Transition	Recession	SB 863	Pre-Reform	Transition	Recession	SB 863
	Era	Era	Era	Era	Era	Era	Era	Era
	(1998-	(2002-	(2005-	(2009-	(1998-	(2002-	(2005-	(2009-
Development Methodology	<u>2001)</u>	<u>2004)</u>	2008)	<u>2013)</u>	<u>2001)</u>	<u>2004)</u>	2008)	<u>2013)</u>
CL-LYPaid	0.079	0.254	0.122	0.086	3.0	4.3	2.3	3.0
CL-LYIncurred	0.097	0.227	0.142	0.061	4.5	2.7	2.8	1.7
BF-LYPaid	0.086	0.242	0.293	0.122	3.5	3.0	4.3	3.3
BF-LYIncurred	0.093	0.268	0.254	0.102	3.5	5.0	3.5	3.7
BF-2YAvgPaid	0.084	0.234	0.317	0.140	3.5	2.3	4.5	4.7
BF-2YAvgIncurred	0.090	0.264	0.271	0.119	3.0	3.7	3.8	4.7

	Medical								
	Root Mean Square Error (rMSE)				Averag	Average Rank of Absolute Difference			
			Post-	Post-			Post-	Post-	
	Minniear	Reform	Reform/	Recession/	Minniear	Reform	Reform/	Recession/	
	Pre-Reform	Transition	Recession	SB 863	Pre-Reform	Transition	Recession	SB 863	
	Era	Era	Era	Era	Era	Era	Era	Era	
	(1998-	(2002-	(2005-	(2009-	(1998-	(2002-	(2005-	(2009-	
Development Methodology	<u>2001)</u>	<u>2004)</u>	<u>2008)</u>	<u>2013)</u>	<u>2001)</u>	<u>2004)</u>	<u>2008)</u>	<u>2013)</u>	
CL-LYPaid	0.159	0.190	0.090	0.087	4.0	1.3	1.8	5.3	
CL-LYIncurred	0.170	0.178	0.097	0.062	5.3	1.7	3.0	4.7	
BF-LYPaid	0.107	0.297	0.192	0.043	2.0	5.3	3.8	2.0	
BF-LYIncurred	0.144	0.262	0.160	0.044	4.5	3.3	4.0	2.3	
BF-2YAvgPaid	0.096	0.300	0.210	0.060	1.5	5.7	4.0	3.3	
BF-2YAvgIncurred	0.142	0.263	0.171	0.059	3.8	3.7	4.5	3.3	

Incurred Indemnity 348-to-Ultimate Factor Based on "Power Tail" Fit with Different Starting and Ending Points Factors Fit to 6-Year Average

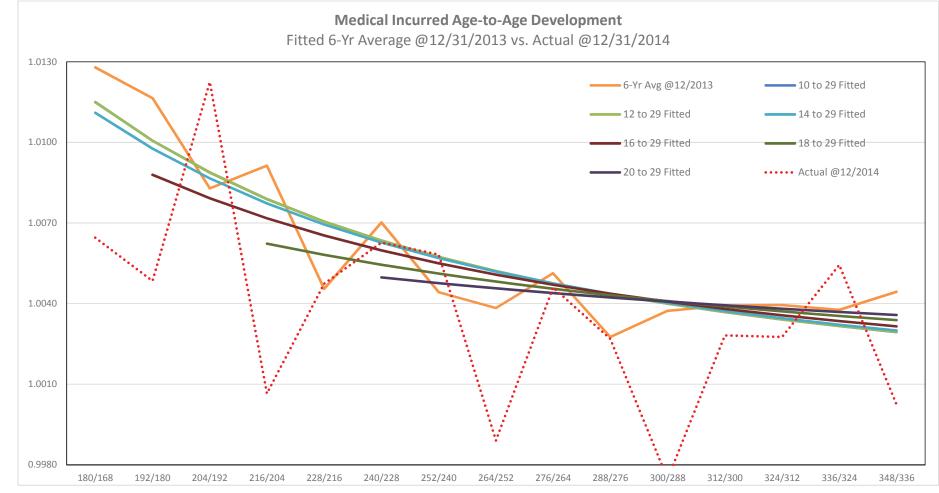
Incurred Indemnity 6-Year Average Fitted Factors Using Inverse Power Curve [f(t)=1.0 + a x t^b] Fit to t Range: Age-to-Age t @12/31/2014 10 to 29 11 to 29 12 to 29 13 to 29 14 to 29 15 to 29 16 to 29 18 to 29 20 to 29 12 - 24 2 1.95963 24 - 36 3 1.29002 36 - 48 1.12932 4 48 - 60 5 1.07271 60 - 72 6 1.04805 72 - 84 7 1.03162 84 - 96 8 1.02177 96 - 108 9 1.01386 108 - 120 10 1.01042 1.00561 120 - 132 1.00631 1.00435 1.00366 11 132 - 144 12 1.00439 1.00345 1.00297 1.00254 144 - 156 13 1.00324 1.00279 1.00245 1.00213 1.00181 156 - 168 1.00229 1.00205 1.00182 1.00158 14 1.00248 1.00132 168 - 180 15 1.00177 1.00191 1.00173 1.00157 1.00139 1.00119 1.00097 180 - 192 16 1.00120 1.00161 1.00148 1.00136 1.00123 1.00108 1.00090 1.00074 192 - 204 17 1.00069 1.00137 1.00128 1.00120 1.00110 1.00098 1.00085 1.00071 1.00112 204 - 216 18 1.00070 1.00117 1.00106 1.00099 1.00090 1.00080 1.00069 1.00056 1.00089 216 - 228 1.00078 1.00102 1.00098 1.00094 1.00083 1.00075 1.00067 1.00056 19 228 - 240 1.00089 1.00087 1.00084 1.00081 1.00077 1.00071 1.00065 1.00057 20 1.00047 1.00044 240 - 252 21 1.00036 1.00078 1.00077 1.00076 1.00074 1.00071 1.00068 1.00063 1.00057 1.00046 252 - 264 1.00069 22 1.00045 1.00069 1.00069 1.00068 1.00067 1.00064 1.00062 1.00057 1.00049 264 - 276 1.00061 1.00062 1.00062 1.00063 1.00062 1.00061 1.00060 1.00051 23 1.00056 1.00057 276 - 288 1.00055 1.00057 1.00058 1.00059 24 1.00055 1.00056 1.00058 1.00059 1.00058 1.00054 288 - 300 1.00052 25 1.00058 1.00049 1.00051 1.00054 1.00055 1.00056 1.00057 1.00058 1.00056 300 - 312 1.00044 1.00048 1.00050 1.00052 1.00054 1.00056 26 1.00081 1.00046 1.00058 1.00059 312 - 324 1.00040 1.00042 1.00044 1.00046 1.00049 1.00052 1.00055 27 1.00076 1.00058 1.00061 324 - 336 28 1.00053 1.00036 1.00039 1.00041 1.00043 1.00046 1.00050 1.00054 1.00058 1.00064 336 - 348 1.00033 1.00035 1.00038 1.00041 1.00044 1.00048 1.00053 1.00059 1.00067 29 1.00053 348 - 360 30 1.00030 1.00033 1.00035 1.00038 1.00042 1.00046 1.00052 1.00059 1.00069 1.00030 1.00033 1.00045 360 - 372 31 1.00028 1.00036 1.00040 1.00051 1.00059 1.00072 372 - 384 32 1.00025 1.00028 1.00031 1.00034 1.00038 1.00043 1.00050 1.00059 1.00075 1.00032 384 - 396 1.00023 1.00026 1.00029 1.00036 1.00042 1.00049 1.00059 1.00077 33 396 - 408 1.00022 1.00024 1.00027 1.00030 1.00035 1.00041 1.00048 1.00059 1.00080 34 1.00083 408 - 420 35 1.00020 1.00023 1.00025 1.00029 1.00033 1.00039 1.00047 1.00060 420 - 432 1.00019 1.00024 1.00027 1.00032 1.00038 1.00047 1.00060 1.00085 36 1.00021 432 - 444 1.00022 1.00030 1.00046 37 1.00017 1.00020 1.00026 1.00037 1.00060 1.00088 1.00021 1.00029 1.00045 444 - 456 38 1.00016 1.00018 1.00025 1.00036 1.00060 1.00091 456 - 468 39 1.00015 1.00017 1.00020 1.00023 1.00028 1.00035 1.00045 1.00060 1.00094 468 - 480 40 1.00014 1.00016 1.00019 1.00022 1.00027 1.00034 1.00044 1.00060 1.00096 588 - 600 50 1.00008 1.00010 1.00012 1.00015 1.00019 1.00027 1.00039 1.00061 1.00125 1.00009 768 - 780 1.00005 1.00007 1.00013 1.00020 1.00033 65 1.00004 1.00063 1.00168 948 - 960 1.00003 1.00004 1.00006 1.00009 1.00016 1.00030 1.00064 80 1.00002 1.00214 1188 - 1200 100 1.00001 1.00002 1.00003 1.00004 1.00007 1.00013 1.00026 1.00065 1.00276 348-to-Ultimate Factors Based on Various Stopping Ages: 40 Years 1.004 1.004 1.005 1.007 1.009 1.002 1.003 1.003 1.003 50 Years 1.003 1.004 1.004 1.005 1.006 1.007 1.009 1.013 1.020 65 Years 1.004 1.005 1.006 1.007 1.008 1.011 1.015 1.022 1.043 80 Years 1.005 1.005 1.006 1.008 1.010 1.014 1.020 1.032 1.074 100 Years 1.005 1.006 1.007 1.009 1.012 1.017 1.025 1.045 1.128 R Squared: 0.7862 0.7344 0.6661 0.5775 0.4617 0.3096 0.1267 0.0031 0.3655

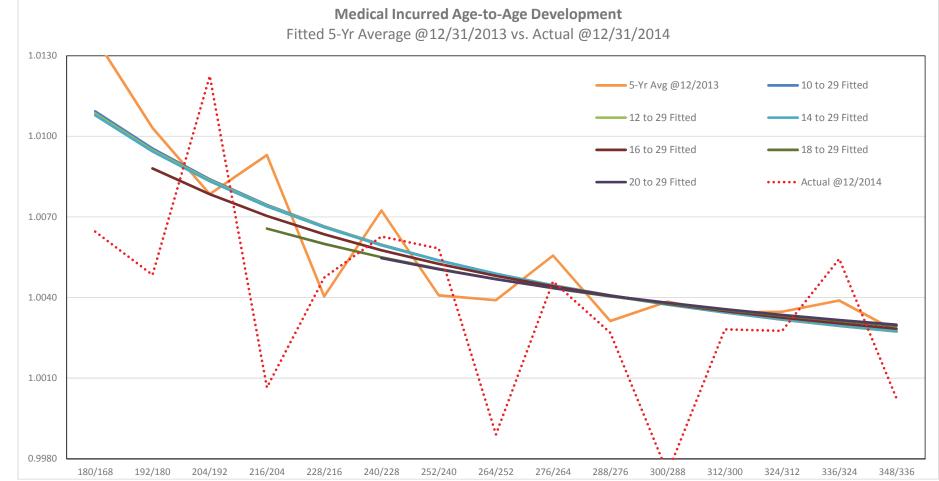
Notes: Factors below solid line are projected based on the fit.

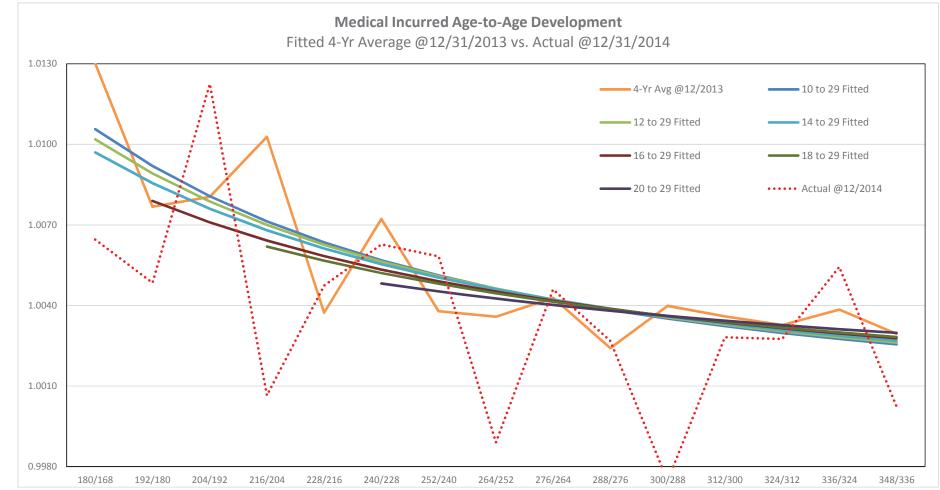
Incurred Medical 348-to-Ultimate Factor Based on "Power Tail" Fit with Different Starting and Ending Points Factors Fit to 6-Year Average

Incurred Medical Fitted Factors Using Inverse Power Curve [f(t)=1.0 + a x t^b] Fit to t Range: 6-Year Average Age-to-Age t @12/31/2014 10 to 29 11 to 29 12 to 29 13 to 29 14 to 29 15 to 29 16 to 29 18 to 29 20 to 29 12 - 24 2 1.60635 24 - 36 3 1.21817 36 - 48 1.12618 4 48 - 60 5 1.08233 60 - 72 6 1.06665 72 - 84 7 1.04953 84 - 96 8 1.03972 96 - 108 9 1.03111 108 - 120 10 1.02578 1.02472 120 - 132 1.01929 1.02016 1.01992 11 132 - 144 12 1.01674 1.01656 1.01672 1.01623 1.01410 144 - 156 13 1.01415 1.01398 1.01409 1.01421 156 - 168 1.01227 1.01203 1.01212 14 1.01203 1.01194 1.01213 168 - 180 15 1.01245 1.01038 1.01032 1.01038 1.01045 1.01046 1.01042 180 - 192 16 1.00940 1.00904 1.00900 1.00904 1.00909 1.00910 1.00907 1.00854 192 - 204 17 1.00858 1.00794 1.00791 1.00794 1.00798 1.00799 1.00797 1.00757 204 - 216 1.00786 1.00703 1.00701 1.00703 1.00706 1.00706 1.00705 1.00675 18 1.00617 216 - 228 1.00416 1.00626 1.00625 1.00626 1.00628 1.00628 1.00627 1.00606 1.00562 19 228 - 240 1.00561 1.00560 1.00561 1.00562 1.00563 1.00562 1.00547 20 1.00708 1.00514 1.00518 240 - 252 21 1.00437 1.00506 1.00505 1.00506 1.00506 1.00506 1.00506 1.00496 1.00473 1.00476 252 - 264 1.00452 22 1.00307 1.00458 1.00458 1.00458 1.00458 1.00458 1.00458 1.00437 1.00439 264 - 276 1.00416 1.00416 1.00417 1.00416 1.00416 1.00413 1.00405 1.00407 23 1.00540 1.00416 276 - 288 1.00380 1.00380 1.00380 1.00380 24 1.00305 1.00381 1.00380 1.00380 1.00376 1.00378 288 - 300 1.00348 25 1.00279 1.00348 1.00349 1.00348 1.00348 1.00348 1.00350 1.00352 1.00350 300 - 312 1.00320 1.00320 1.00323 26 1.00334 1.00320 1.00321 1.00320 1.00320 1.00328 1.00329 312 - 324 1.00296 1.00295 1.00300 27 1.00336 1.00295 1.00296 1.00295 1.00295 1.00307 1.00309 324 - 336 28 1.00415 1.00273 1.00274 1.00273 1.00273 1.00272 1.00273 1.00279 1.00288 1.00290 336 - 348 1.00254 1.00253 1.00260 29 1.00233 1.00253 1.00255 1.00253 1.00253 1.00272 1.00273 348 - 360 30 1.00236 1.00237 1.00236 1.00235 1.00235 1.00235 1.00243 1.00256 1.00257 360 - 372 1.00221 31 1.00220 1.00220 1.00219 1.00219 1.00219 1.00227 1.00242 1.00243 372 - 384 32 1.00205 1.00207 1.00206 1.00205 1.00204 1.00205 1.00213 1.00229 1.00230 384 - 396 1.00192 1.00194 1.00192 1.00191 1.00191 1.00192 1.00201 1.00217 1.00218 33 396 - 408 1.00180 1.00182 1.00181 1.00179 1.00179 1.00180 1.00189 1.00207 1.00207 34 408 - 420 35 1.00170 1.00171 1.00170 1.00169 1.00168 1.00169 1.00178 1.00197 1.00197 420 - 432 1.00160 1.00159 1.00169 36 1.00160 1.00161 1.00159 1.00159 1.00187 1.00188 1.00151 1.00149 432 - 444 37 1.00151 1.00152 1.00150 1.00150 1.00160 1.00179 1.00179 1.00141 444 - 456 38 1.00142 1.00144 1.00142 1.00141 1.00142 1.00151 1.00171 1.00171 456 - 468 39 1.00134 1.00136 1.00135 1.00134 1.00133 1.00134 1.00144 1.00163 1.00164 468 - 480 40 1.00127 1.00129 1.00128 1.00127 1.00126 1.00127 1.00137 1.00156 1.00157 588 - 600 50 1.00079 1.00080 1.00079 1.00078 1.00078 1.00079 1.00087 1.00106 1.00107 768 - 780 1.00045 1.00052 65 1.00045 1.00046 1.00045 1.00044 1.00044 1.00068 1.00068 948 - 960 1.00030 1.00029 1.00028 1.00028 1.00029 1.00034 80 1.00029 1.00047 1.00047 1188 - 1200 100 1.00018 1.00018 1.00018 1.00018 1.00018 1.00018 1.00022 1.00032 1.00032 348-to-Ultimate Factors Based on Various Stopping Ages: 40 Years 1.019 1.020 1.022 1.022 1.019 1.019 1.019 1.019 1.019 50 Years 1.029 1.030 1.029 1.029 1.029 1.029 1.031 1.035 1.035 65 Years 1.038 1.039 1.039 1.038 1.038 1.038 1.042 1.048 1.048 80 Years 1.044 1.045 1.044 1.044 1.044 1.044 1.048 1.057 1.057 100 Years 1.049 1.049 1.049 1.048 1.048 1.048 1.054 1.065 1.065 R Squared: 0.9176 0.8976 0.8761 0.8503 0.8171 0.7753 0.7088 0.5216 0.4211

Notes: Factors below solid line are projected based on the fit.







0.9980

180/168

192/180

204/192

216/204

228/216

240/228

252/240

264/252

276/264

288/276

300/288

Medical Incurred Age-to-Age Development

312/300

324/312

336/324

348/336

Projected Indemnity Incurred 348-to-Ultimate Factor: Power Tail vs. Calendar Year Development

_	Fitted on Ir	nverse Power Co based on t=1	- ' '	Calendar Year Development (6-Year Average)		
@ 12/31/2010 Stopping Point a. Year 40 b. Year 50 c. Year 65 d. Year 80 e. Year 100 R-Squared	6-Yr Avg. 1.001 1.002 1.002 1.003 1.003 0.5052	5-Yr Avg. 1.001 1.001 1.002 1.002 1.002 0.5052	4-Yr Avg. 1.001 1.001 1.002 1.002 1.002 0.6552	3-Yr Avg. 1.001 1.002 1.002 1.003 1.003 0.7032	<u>Unadjusted</u> 1.008	Adjusted* 1.002
@12/31/2011 Stopping Point a. Year 40 b. Year 50 c. Year 65 d. Year 80 e. Year 100 R-Squared	6-Yr Avg. 1.001 1.001 1.002 1.002 1.002 0.5843	5-Yr Avg. 1.001 1.001 1.002 1.002 1.002 0.5223	4-Yr Avg. 1.002 1.003 1.004 1.005 1.005 0.3484	3-Yr Avg. 1.002 1.002 1.003 1.003 1.003 0.5636	<u>Unadjusted</u> 1.008	Adjusted* 1.002
@12/31/2012 Stopping Point a. Year 40 b. Year 50 c. Year 65 d. Year 80 e. Year 100 R-Squared	6-Yr Avg. 1.002 1.002 1.003 1.003 1.003 0.4635	5-Yr Avg. 1.002 1.004 1.005 1.005 1.006 0.3707	4-Yr Avg. 1.002 1.003 1.004 1.005 1.005	3-Yr Avg. 1.004 1.006 1.008 1.009 1.010	<u>Unadjusted</u> 1.008	Adjusted* 1.002
@12/31/2013 Stopping Point a. Year 40 b. Year 50 c. Year 65 d. Year 80 e. Year 100 R-Squared	6-Yr Avg. 1.003 1.004 1.005 1.006 1.006 0.5306	5-Yr Avg. 1.003 1.004 1.005 1.006 1.006 0.7157	4-Yr Avg. 1.003 1.005 1.006 1.007 1.008 0.6943	3-Yr Avg. 1.004 1.006 1.007 1.008 1.008 0.7537	<u>Unadjusted</u> 1.008	Adjusted* 1.002
@12/31/2014 Stopping Point a. Year 40 b. Year 50 c. Year 65 d. Year 80 e. Year 100 R-Squared	6-Yr Avg. 1.002 1.003 1.004 1.005 1.005 0.7862	5-Yr Avg. 1.003 1.004 1.005 1.005 1.006 0.7655	4-Yr Avg. 1.003 1.004 1.005 1.005 1.006 0.8125	3-Yr Avg. 1.002 1.003 1.003 1.003 1.003 0.6153	<u>Unadjusted</u> 1.008	Adjusted* 1.002
	Inverse Power Curve					Development (verage)
Stopping Point a. Year 40 b. Year 50 c. Year 65 d. Year 80 e. Year 100	6-Yr Avg. 0.0006 0.0009 0.0012 0.0014 0.0015	5-Yr Avg. 0.0008 0.0012 0.0016 0.0018 0.0020	4-Yr Avg. 0.0008 0.0011 0.0015 0.0017 0.0018	3-Yr Avg. 0.0011 0.0017 0.0023 0.0027 0.0030	<u>Unadjusted</u> 0.0002	Adjusted* 0.0000

^{*} Factors adjusted to 20% of reported factors for asbestosis claims in 1979 and prior.

Projected Medical Incurred 348-to-Ultimate Factor: Power Tail vs. Calendar Year Development

_	Fitted on I	nverse Power Co based on t=1		Calendar Year Development (6-Year Average)		
@ 12/31/2010 Stopping Point a. Year 40 b. Year 50 c. Year 65 d. Year 80 e. Year 100 R-Squared	6-Yr Avg. 1.021 1.032 1.043 1.049 1.055	5-Yr Avg. 1.022 1.033 1.044 1.051 1.057 0.8025	4-Yr Avg. 1.022 1.033 1.044 1.050 1.055 0.8086	3-Yr Avg. 1.023 1.035 1.046 1.052 1.058 0.8323	<u>Unadjusted</u> 1.050	Adjusted* 1.064
@12/31/2011 Stopping Point a. Year 40 b. Year 50 c. Year 65 d. Year 80 e. Year 100 R-Squared	6-Yr Avg. 1.023 1.035 1.046 1.053 1.059 0.8174	5-Yr Avg. 1.023 1.035 1.045 1.052 1.058 0.8065	4-Yr Avg. 1.024 1.036 1.048 1.055 1.061 0.8296	3-Yr Avg. 1.022 1.033 1.044 1.050 1.056 0.8796	Unadjusted 1.031	Adjusted* 1.057
@12/31/2012 Stopping Point a. Year 40 b. Year 50 c. Year 65 d. Year 80 e. Year 100 R-Squared	6-Yr Avg. 1.023 1.036 1.047 1.054 1.061 0.8853	5-Yr Avg. 1.024 1.037 1.049 1.057 1.063 0.9122	4-Yr Avg. 1.022 1.034 1.045 1.052 1.058	3-Yr Avg. 1.021 1.032 1.041 1.047 1.052 0.8895	<u>Unadjusted</u> 1.036	Adjusted* 1.067
@12/31/2013 Stopping Point a. Year 40 b. Year 50 c. Year 65 d. Year 80 e. Year 100 R-Squared	6-Yr Avg. 1.023 1.035 1.046 1.053 1.059 0.9060	5-Yr Avg. 1.021 1.032 1.042 1.048 1.054 0.9237	4-Yr Avg. 1.019 1.029 1.039 1.044 1.049 0.8904	3-Yr Avg. 1.021 1.033 1.043 1.050 1.056 0.8537	<u>Unadjusted</u> 1.030	Adjusted* 1.055
@12/31/2014 Stopping Point a. Year 40 b. Year 50 c. Year 65 d. Year 80 e. Year 100 R-Squared	6-Yr Avg. 1.019 1.029 1.038 1.044 1.049	5-Yr Avg. 1.018 1.027 1.035 1.040 1.044 0.8942 5-Year St	4-Yr Avg. 1.018 1.028 1.037 1.042 1.047 0.8421	3-Yr Avg. 1.012 1.018 1.023 1.026 1.028 0.6516	<u>Unadjusted</u> 1.027	Adjusted* 1.049
	Inverse Power Curve					Development Average)
Stopping Point a. Year 40 b. Year 50 c. Year 65 d. Year 80 e. Year 100	6-Yr Avg. 0.0015 0.0023 0.0032 0.0038 0.0043	5-Yr Avg. 0.0021 0.0034 0.0047 0.0056 0.0064	4-Yr Avg. 0.0019 0.0030 0.0041 0.0048 0.0054	3-Yr Avg. 0.0038 0.0060 0.0082 0.0097 0.0111	<u>Unadjusted</u> 0.0080	Adjusted* 0.0064

^{*} Factors adjusted for medical inflation.

Projected Indemnity Paid 348-to-Ultimate Factor: Power Tail vs. Calendar Year Development

Fitted on Inverse Power Curve [$f(t)=1.0 + a \times t^b$] based on t=10 to t=29

		based on t=	:10 to t=29	
@12/31/2010				
Stopping Point	6-Yr Avg.	5-Yr Avg.	4-Yr Avg.	3-Yr Avg.
a. Year 40	1.005	1.005	1.004	1.004
b. Year 50	1.007	1.006	1.006	1.006
c. Year 65				
	1.009	1.008	1.007	1.007
d. Year 80	1.009	1.009	1.008	1.008
e. Year 100	1.010	1.009	1.008	1.009
R-Squared	0.8712	0.8838	0.8898	0.8829
@12/31/2011				
Stopping Point	<u>6-Yr Avg.</u>	<u>5-Yr Avg.</u>	<u>4-Yr Avg.</u>	<u>3-Yr Avg.</u>
a. Year 40	1.005	1.004	1.005	1.004
b. Year 50	1.007	1.006	1.006	1.006
c. Year 65	1.008	1.008	1.008	1.007
d. Year 80	1.009	1.008	1.008	1.007
e. Year 100	1.009	1.009	1.009	1.008
R-Squared	0.9118	0.9180	0.9171	0.9608
@12/31/2012				
Stopping Point	6-Yr Avg.	5-Yr Avg.	4-Yr Avg.	3-Yr Avg.
a. Year 40	1.005	1.005	1.005	1.005
b. Year 50	1.007	1.007	1.006	1.007
c. Year 65	1.008		1.008	1.007
		1.008		
d. Year 80	1.009	1.009	1.008	1.010
e. Year 100	1.009	1.010	1.009	1.010
R-Squared	0.9359	0.9383	0.9704	0.9631
@40/04/0040				
@12/31/2013	0.1/. /	5 \/ A	4.37. 4	0.1/_4
Stopping Point	6-Yr Avg.	5-Yr Avg.	4-Yr Avg.	3-Yr Avg.
a. Year 40	1.005	1.005	1.005	1.006
b. Year 50	1.007	1.007	1.008	1.008
c. Year 65	1.009	1.008	1.009	1.010
d. Year 80	1.009	1.009	1.010	1.010
e. Year 100	1.010	1.009	1.011	1.011
R-Squared	0.9507	0.9758	0.9678	0.9729
@12/31/2014				
Stopping Point	<u>6-Yr Avg.</u>	5-Yr Avg.	4-Yr Avg.	3-Yr Avg.
a. Year 40	1.005	1.005	1.005	1.006
b. Year 50	1.007	1.007	1.007	1.008
c. Year 65	1.008	1.009	1.009	1.009
d. Year 80	1.009	1.010	1.010	1.010
e. Year 100	1.009	1.010	1.010	
				1.010
R-Squared	0.9842	0.9781	0.9817	0.9751
	5-Ye	ear Standard Deviati	on	
Stopping Point	6-Yr Avg.	5-Yr Avg.	4-Yr Avg.	3-Yr Avg.
a. Year 40	0.0002	0.0003	0.0005	0.0007
b. Year 50	0.0002	0.0003	0.0007	0.0007
c. Year 65	0.0003	0.0005	0.0008	0.0011
d. Year 80	0.0004	0.0005	0.0008	0.0012
e. Year 100	0.0004	0.0005	0.0009	0.0013

Projected Medical Paid 348-to-Ultimate Factor: Power Tail vs. Calendar Year Development

Fitted on Inverse Power Curve [$f(t)=1.0 + a \times t^{b}$] based on t=10 to t=29

		based on t	=10 to t=29	
@12/31/2010				
Stopping Point	6-Yr Avg.	<u>5-Yr Avg.</u>	4-Yr Avg.	3-Yr Avg.
a. Year 40	1.030	1.030	1.029	1.027
b. Year 50	1.048	1.046	1.044	1.042
c. Year 65	1.064	1.061	1.058	1.055
d. Year 80		1.071		
	1.075	_	1.067	1.063
e. Year 100	1.084	1.080	1.075	1.070
R-Squared	0.8752	0.8794	0.8839	0.8729
0.1010110011				
@12/31/2011				
Stopping Point	<u>6-Yr Avg.</u>	<u>5-Yr Avg.</u>	<u>4-Yr Avg.</u>	<u>3-Yr Avg.</u>
a. Year 40	1.029	1.028	1.028	1.027
b. Year 50	1.045	1.044	1.042	1.041
c. Year 65	1.060	1.057	1.055	1.054
d. Year 80	1.069	1.066	1.063	1.061
e. Year 100	1.078	1.073	1.070	1.068
R-Squared	0.9104	0.9119	0.9015	0.9097
it oqualou	0.0101	0.0110	0.0010	0.0001
@12/31/2012				
Stopping Point	6-Yr Avg.	5-Yr Avg.	<u>4-Yr Avg.</u>	3-Yr Avg.
a. Year 40	1.029	1.028	1.028	1.028
b. Year 50				
	1.044	1.043	1.043	1.042
c. Year 65	1.059	1.057	1.056	1.056
d. Year 80	1.067	1.066	1.065	1.064
e. Year 100	1.075	1.073	1.072	1.071
R-Squared	0.9363	0.9310	0.9450	0.9554
@12/31/2013				
Stopping Point	<u>6-Yr Avg.</u>	<u>5-Yr Avg.</u>	<u>4-Yr Avg.</u>	<u>3-Yr Avg.</u>
a. Year 40	1.030	1.030	1.030	1.031
b. Year 50	1.046	1.045	1.046	1.048
c. Year 65	1.060	1.060	1.060	1.063
d. Year 80	1.069	1.069	1.069	1.072
e. Year 100	1.077	1.077	1.077	1.081
R-Squared	0.9584	0.9702	0.9765	0.9785
@12/31/2014				
Stopping Point	6-Yr Avg.	5-Yr Avg.	4-Yr Avg.	3-Yr Avg.
a. Year 40	1.031	1.031	1.032	1.034
b. Year 50	1.047	1.048	1.050	1.052
c. Year 65	1.062	1.063	1.066	1.070
d. Year 80	1.072	1.072	1.076	1.080
e. Year 100	1.080	1.080	1.084	1.090
R-Squared	0.9780	0.9800	0.9808	0.9698
•				
	F.V.	aan Ctamaland Davist	·	
		ear Standard Deviat		
Stopping Point	<u>6-Yr Avg.</u>	<u>5-Yr Avg.</u>	<u>4-Yr Avg.</u>	<u>3-Yr Avg.</u>
a. Year 40	0.0007	0.0010	0.0017	0.0027
b. Year 50	0.0013	0.0016	0.0027	0.0043
c. Year 65	0.0020	0.0022	0.0037	0.0061
d. Year 80	0.0026	0.0027	0.0044	0.0073
e. Year 100	0.0020	0.0027	0.0050	0.0073
c. I cal 100	0.0032	0.0032	0.0030	0.0004

Item AC16-04-01 12/31/2015 Loss Adjustment Expense Experience Review

The WCIRB's January 1, 2016 Pure Premium Rate Filing included a provision for loss adjustment expenses (LAE) of 34.9%. This amount reflected 8.0% for unallocated loss adjustment expenses (ULAE) and 26.9% for allocated loss adjustment expenses (ALAE), including the cost of medical cost containment programs (MCCP), and was based on calendar year 2014 ULAE data and accident year ALAE and MCCP data evaluated as of March 31, 2015. The updated ULAE and ALAE projections, including MCCP costs, for the July 1, 2016 to December 31, 2016 policy period are summarized separately below.

ULAE Projection

As of this time, the WCIRB does not have available calendar year 2015 ULAE information. However, staff has computed a preliminary updated ULAE projection based on updated frequency and loss projections as of December 31, 2015 using the same methodologies as those reflected in the January 1, 2016 Pure Premium Rate Filing.

Table 1 shows the updated preliminary projections of ULAE as a percentage of loss. Using the same approach as in the WCIRB's January 1, 2016 Pure Premium Rate Filing based solely on the experience of private insurers, the ULAE projection is 8.3%.

Table 1: ULAE to Loss Ratio Projections for Policies Incepting July 1, 2016 through December 31, 2016

ULAE Projection Method	Statewide ULAE Ratio	Private Insurer ULAE Ratio		
Paid ULAE per Open Indemnity Claim-Based Projection	12.3%	9.3%		
Paid ULAE to Paid Loss-Based Projection	9.8%	7.3%		
Average of Indemnity Claim-Based and Paid Loss-Based Projections	11.1%	8.3%		

ALAE Projection – Excluding MCCP

The ALAE provision reflected in the WCIRB's January 1, 2016 Pure Premium Rate Filing reflected only the experience of private insurers and was based on a methodology that projects future ALAE as a function of the anticipated future number of indemnity claims and average ALAE per indemnity claim. The WCIRB has updated the ALAE projection based on ALAE data evaluated as of December 31, 2015 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 ALAE per indemnity claim, while Exhibit 3 shows private insurer annual growth percentages based on ratios of incremental paid ALAE per indemnity claims inventory.

Exhibits 4 and 5 show the ALAE projection, excluding MCCP costs, for statewide and private insurers, respectively. The projections in both Exhibits 4 and 5 were computed using a 4.5% 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) the estimated ultimate ALAE per indemnity claim (Exhibit 2.2) and (b) incremental paid 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 in reflected in the January 1, 2016 Premium Rate Filing was also 4.5%.)

The upper portion of Table 2 shows the updated preliminary projections of ALAE as a percentage of loss, excluding the cost of MCCP. The projected ratio of ALAE to loss excluding the cost of MCCP, based solely on the experience of private insurers, is 20.5%. (This compares to a projected ALAE to loss based solely on the experience of private insurers of 19.4% in the January 1, 2016 Pure Premium Rate Filing.)

ALAE Projection - MCCP

The ALAE provision reflected in the WCIRB's January 1, 2016 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. The WCIRB has updated the MCCP cost projection based on MCCP data evaluated as of December 31, 2015 as well as updated frequency and loss projections.

Exhibit 6 shows statewide and private insurer annual MCCP severity growth percentages based on ratios of calendar year paid MCCP costs per indemnity claims inventory. Exhibits 7 and 8 show the projection of MCCP costs in ALAE on a statewide basis and for private insurers, respectively. A 4.5% MCCP severity trend was selected based on the private insurer MCCP severity growth rates from 2009 through 2014 shown on Exhibit 6. (The 7.2% projected ratio of MCCP to loss based on this methodology using only the experience of private insurers compares to 7.5% in the January 1, 2016 Pure Premium Rate Filing.)

Table 2 also shows the preliminary projections of ALAE, including the cost of MCCP, as a percentage of loss. The projected ratio of total ALAE to loss is 27.7%.

Table 2: Projections of ALAE to Loss for Policies Incepting July 1, 2016 through December 31, 2016

ALAE Projection Method	Statewide ALAE Ratio	Private Insurer ALAE Ratio
Separate Projections of Indemnity Claims and Average ALAE per Indemnity Claim – Excluding MCCP Costs	19.1%	20.5%
Separate Projections of Indemnity Claims and Average MCCP Costs per Indemnity Claim	6.8%	7.2%
Total Projections of ALAE Including MCCP Costs	25.9%	27.7%

The total projected LAE to loss ratio for policies incepting between July 1, 2016 and December 31, 2016 is 36.0%. This compares to 34.9% reflected in the January 1, 2016 Pure Premium Rate Filing.

Average Paid ALAE^[1] Per Reported Indemnity Claim - Private Insurers
As of December 31, 2015

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>	<u>96</u>	<u>108</u>	120
2000								4,517	4,705	4,895
2001							5,473	5,697	5,970	6,139
2002						5,667	5,937	6,252	6,449	6,614
2003					5,466	5,907	6,305	6,588	6,808	7,014
2004				4,361	5,053	5,568	5,945	6,214	6,429	6,635
2005			3,017	3,979	4,689	5,209	5,591	5,898	6,161	6,371
2006		1,849	3,119	4,119	4,867	5,434	5,864	6,183	6,456	6,671
2007	574	1,977	3,322	4,417	5,243	5,879	6,394	6,767	7,056	
2008	619	2,117	3,618	4,883	5,816	6,529	7,071	7,475		
2009	675	2,405	4,128	5,516	6,548	7,337	7,925			
2010	744	2,588	4,350	5,685	6,714	7,463				
2011	768	2,614	4,269	5,614	6,596					
2012	773	2,602	4,337	5,694						
2013	788	2,758	4,491							
2014	887	2,965								
2015	975									
Accident _					Annual C					
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>	<u>96</u>	<u>108</u>	<u>120</u>
2001								26.1%	26.9%	25.4%
2002							8.5%	9.7%	8.0%	7.7%
2003						4.3%	6.2%	5.4%	5.6%	6.1%
2004					-7.6%	-5.7%	-5.7%	-5.7%	-5.6%	-5.4%
2005				-8.8%	-7.2%	-6.4%	-6.0%	-5.1%	-4.2%	-4.0%
2006			3.4%	3.5%	3.8%	4.3%	4.9%	4.8%	4.8%	4.7%
2007		6.9%	6.5%	7.2%	7.7%	8.2%	9.0%	9.4%	9.3%	4.7 70
2008	7.9%	7.1%	8.9%	10.6%	10.9%	11.1%	10.6%	10.5%	3.070	
2009	9.0%	13.6%	14.1%	13.0%	12.6%	12.4%	12.1%	10.570		
2010	10.4%	7.6%	5.4%	3.1%	2.5%	1.7%	12.170			
2010	3.2%	1.0%	-1.9%	-1.2%	-1.8%	1.7 /0				
2012	0.7%	-0.5%	1.6%	1.4%	-1.070					
2012	1.8%	6.0%	3.6%	1.4/0						
2013	12.7%	7.5%	3.0 /0							
2014	9.9%	7.570								
2015	9.970									
Annual Tre	end ^[2]									
All-Year	6.1%	5.8%	5.6%	5.1%	4.2%	3.7%	3.4%	4.1%	3.7%	3.7%
R ²	0.951	0.931	0.904	0.839	0.657	0.599	0.610	0.618	0.510	0.429
* *	0.001	0.001	0.001	0.000	0.007	0.000	0.010	0.010	0.010	0.120
5-Year	6.3%	3.3%	1.7%	3.3%	6.2%	8.9%	9.3%	5.2%	0.8%	-0.8%
R^2	0.858	0.790	0.728	0.631	0.806	0.966	0.980	0.732	0.051	0.132

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

Source: WCIRB accident year experience calls.

^[2] Trend is based on exponential distribution.

Estimated Ultimate ALAE Per Indemnity Claim - Statewide

Acc. <u>Year</u>	Paid ALAE ^[1] @12/31/15 (in \$000) (1)	Paid ALAE Cumulative Development Factors ^[2] (2)	Estimated Ult. ALAE (in \$000) (3)=(1)x(2)	Indemnity Claim Counts @12/31/15 (4)	Cumulative Count Development Factors ^[3] (5)	Estimated Ultimate Ind. Counts (6)=(4)x(5)	Estimated Ult. ALAE Per Indemnity Claim (7)=(3)/(6)x1000	Annual <u>Change</u>
1991	445,650	1.044	465,424	249,687	1.000	249,716	1,864	
1992	345,404	1.047	361,510	198,421	1.000	198,454	1,822	-2.3%
1993	250,865	1.050	263,478	156,121	1.000	156,167	1,687	-7.4%
1994	234,825	1.056	247,954	143,656	1.001	143,732	1,725	2.3%
1995	260,474	1.062	276,566	135,199	1.001	135,304	2,044	18.5%
1996	305,336	1.070	326,742	133,192	1.001	133,358	2,450	19.9%
1997	388,611	1.078	418,929	137,323	1.001	137,510	3,047	24.3%
1998	563,563	1.087	612,420	147,539	1.002	147,772	4,144	36.0%
1999	615,450	1.097	675,456	148,740	1.002	149,003	4,533	9.4%
2000	760,677	1.108	843,177	162,057	1.002	162,336	5,194	14.6%
2001	955,804	1.122	1,072,485	185,729	1.002	186,108	5,763	10.9%
2002	1,012,343	1.138	1,151,889	194,810	1.002	195,262	5,899	2.4%
2003	1,016,434	1.153	1,172,340	184,411	1.002	184,813	6,343	7.5%
2004	852,170	1.173	999,757	159,220	1.002	159,593	6,264	-1.2%
2005	749,054	1.197	896,498	140,012	1.003	140,387	6,386	1.9%
2006	778,455	1.230	957,622	133,766	1.003	134,145	7,139	11.8%
2007	820,152	1.273	1,044,019	130,551	1.003	131,003	7,969	11.6%
2008	846,175	1.330	1,125,606	123,731	1.004	124,251	9,059	13.7%
2009	858,254	1.410	1,210,180	115,502	1.005	116,135	10,420	15.0%
2010	859,201	1.528	1,312,533	120,380	1.008	121,283	10,822	3.9%
2011	779,921	1.710	1,333,989	122,462	1.011	123,834	10,772	-0.5%
2012	715,980	2.037	1,458,121	129,254	1.019	131,722	11,070	2.8%
2013	587,105	2.723	1,598,862	135,394	1.034	139,972	11,423	3.2%
2014	381,012	4.617	1,759,156	135,264	1.069	144,634	12,163	6.5%
2015	102,275	19.657	2,010,448	111,799	1.332	148,906	13,501	11.0%

Estimated Annual Exponential Trend Based on:								
	2005 to 2015	6.9%	0.914					
	2010 to 2015	4.4%	0.848					
	Average:	5.7%						

Notes:

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

^[2] Based on private insurers latest year paid ALAE age-to-age development from Exhibit 5.1.

^[3] See Exhibit 4.1.

Estimated Ultimate ALAE Per Indemnity Claim - Private Insurers

Acc. <u>Year</u>	Paid ALAE ^[1] @12/31/15 (in \$000) (1)	Cumulative Development Factors ^[2] (2)	Estimated Ultimate ALAE (in \$000) (3)=(1)x(2)	Indemnity Claim Counts @12/31/15 (4)	Cumulative Count Development Factors ^[3] (5)	Estimated Ultimate Ind. Counts (6)=(4)x(5)	Estimated Ultimate ALAE Per Indemnity <u>Claim</u> (7)=(3)/(6)x1000	Annual <u>Change</u>
1991	411,661	1.044	429,927	175,230	1.000	175,263	2,453	
1992	315,860	1.047	330,588	141,910	1.000	141,949	2,329	-5.1%
1993	233,192	1.050	244,917	113,510	1.000	113,562	2,157	-7.4%
1994	215,976	1.056	228,051	105,344	1.001	105,426	2,163	0.3%
1995	236,006	1.062	250,587	101,362	1.001	101,475	2,469	14.2%
1996	281,518	1.070	301,254	103,242	1.002	103,416	2,913	18.0%
1997	356,204	1.078	383,994	104,765	1.002	104,967	3,658	25.6%
1998	491,924	1.087	534,571	112,510	1.002	112,773	4,740	29.6%
1999	541,068	1.097	593,822	116,439	1.003	116,734	5,087	7.3%
2000	641,187	1.108	710,728	118,483	1.003	118,785	5,983	17.6%
2001	760,585	1.122	853,434	113,960	1.003	114,307	7,466	24.8%
2002	798,743	1.138	908,846	113,025	1.004	113,429	8,012	7.3%
2003	806,583	1.153	930,301	108,423	1.004	108,828	8,548	6.7%
2004	688,898	1.173	808,208	99,548	1.004	99,995	8,083	-5.4%
2005	638,708	1.197	764,432	97,606	1.006	98,147	7,789	-3.6%
2006	698,042	1.230	858,702	104,632	1.006	105,276	8,157	4.7%
2007	758,741	1.273	965,845	107,531	1.007	108,316	8,917	9.3%
2008	793,814	1.330	1,055,954	106,199	1.009	107,129	9,857	10.5%
2009	812,561	1.410	1,145,750	102,532	1.011	103,632	11,056	12.2%
2010	824,722	1.528	1,259,862	110,512	1.013	111,982	11,251	1.8%
2011	755,821	1.710	1,292,769	114,587	1.018	116,631	11,084	-1.5%
2012	698,173	2.037	1,421,856	122,624	1.027	125,885	11,295	1.9%
2013	571,177	2.723	1,555,484	127,176	1.043	132,591	11,731	3.9%
2014	368,687	4.617	1,702,252	124,335	1.082	134,517	12,655	7.9%
2015	98,980	19.657	1,945,678	101,545	1.368	138,883	14,009	10.7%

Estimated Annual Exponential Trend Based on:								
	2005 to 2015	5.4%	0.925					
	2010 to 2015	4.5%	0.810					
	Average:	4.9%						

Notes:

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

^[2] Based on the latest year paid ALAE age-to-age development from Exhibit 5.1.

^[3] See Exhibit 5.2.

Ratio of Accident Year Incremental Paid ALAE^[1] to Indemnity Claims Inventory^[2] By Payment Year - Private Insurers

Acc.														
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1989	1,117	813	940	917	1,055	923	1,167	1,027	1,221	1,236	1,525	1,530	1,452	1,686
1990	1,360	1,316	1,252	1,449	1,198	1,086	1,406	1,138	1,341	1,386	1,584	1,777	1,707	1,577
1991	1,449	1,068	1,594	1,323	1,120	1,203	1,481	1,384	1,577	1,308	1,678	1,541	1,840	1,713
1992	1,637	1,405	1,636	1,740	1,485	1,507	1,647	1,477	1,718	1,434	1,579	1,633	1,581	1,933
1993	1,636	1,667	1,767	1,532	1,630	1,677	1,945	1,450	1,732	1,788	1,932	1,934	1,862	2,125
1994	1,423	1,276	1,488	1,750	1,784	1,748	1,864	1,389	1,514	1,774	1,830	1,812	1,846	1,956
1995	1,992	2,178	2,179	1,638	1,649	1,771	1,866	1,682	2,022	1,602	1,996	2,144	2,036	2,212
1996	2,267	2,602	2,834	2,010	2,006	2,003	2,040	1,938	1,755	1,868	2,035	2,244	2,071	2,191
1997	2,489	2,827	3,404	2,276	2,503	2,463	2,343	2,268	2,196	2,281	2,489	2,350	2,180	2,333
1998	2,250	2,818	2,997	2,835	2,604	2,405	2,426	2,374	2,398	2,338	2,401	2,362	2,357	2,347
1999	2,197	2,512	2,795	2,415	2,752	2,526	2,468	2,806	2,659	2,600	2,662	2,452	2,142	2,322
2000	2,124	2,340	2,717	2,479	2,861	2,658	2,699	2,806	2,773	2,781	2,841	2,670	2,509	2,788
2001	1,610	2,271	2,590	2,332	2,618	2,918	2,644	2,756	2,707	2,730	2,841	2,819	3,344	3,115
2002	622	1,676	2,618	2,522	2,746	3,081	2,881	2,976	2,949	3,029	2,959	3,017	3,465	3,313
2003		635	1,949	2,548	2,818	3,077	3,014	3,007	3,226	3,208	3,518	3,353	3,676	3,738
2004			553	1,816	2,562	2,919	3,062	3,170	3,256	3,156	3,084	3,264	3,585	3,588
2005				498	1,692	2,493	2,877	3,084	3,227	3,286	3,267	3,443	3,594	3,722
2006					529	1,815	2,675	2,969	3,220	3,478	3,468	3,387	3,540	3,585
2007						572	1,987	2,752	3,155	3,398	3,572	3,667	3,698	3,801
2008							620	2,095	2,976	3,480	3,559	3,657	3,860	3,982
2009								674	2,380	3,307	3,620	3,770	3,978	4,076
2010									746	2,542	3,411	3,681	3,896	4,164
2011										766	2,569	3,335	3,664	4,007
2012											773	2,589	3,439	3,881
2013												788	2,735	3,506
2014													888	2,914
2015														975
ALAE per														
Claim	1,580	1,742	1,973	1,852	1,915	1,979	2,047	2,160	2,318	2,480	2,563	2,611	2,756	2,895
Annual Cha	inge	10.2%	13.2%	-6.1%	3.4%	3.4%	3.4%	5.5%	7.3%	7.0%	3.4%	1.9%	5.6%	5.1%

Estimated Annual Exponential Trend Based on Payment Year:								
	2005-2015	4.8%	0.989					
	2010-2015	4.2%	0.978					
	Average:	4.5%						

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

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

^[2] 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.

Reported Indemnity Claim Count Development - Statewide

Accident Age-to-Age Development (in months):														
Year	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180
<u>i cai</u>	12-24	24-30	30-40	40-00	00-12	12-04	04-30	30-100	100-120	120-132	132-144	144-130	130-100	100-100
1993														1.001
1994													1.001	1.000
1995												1.001	1.000	1.004
1996											1.001	1.001	1.001	1.000
1997										1.001	1.000	1.000	1.000	1.000
1998									1.001	1.000	1.000	1.000	1.001	1.000
1999								1.001	1.002	1.000	1.000	1.000	1.000	1.000
2000							1.000	0.998	1.000	1.000	1.000	1.001	1.000	1.000
2001						0.999	0.998	1.000	0.999	1.000	1.000	1.000	1.000	1.000
2002					0.999	1.007	1.000	0.999	1.000	1.000	1.000	1.000	1.000	
2003				0.999	1.008	0.998	0.999	0.999	0.999	0.999	1.000	1.000		
2004			1.002	1.000	0.998	1.000	0.999	0.999	0.999	1.000	1.000			
2005		1.007	1.004	1.000	1.001	1.001	0.999	1.000	1.000	1.000				
2006	1.116	1.013	1.004	1.002	1.001	1.000	1.005	1.001	1.001					
2007	1.124	1.015	1.006	1.004	1.002	1.000	1.001	1.001						
2008	1.153	1.023	1.011	1.005	1.003	1.001	1.001							
2009	1.193	1.029	1.011	1.006	1.003	1.002								
2010	1.220	1.030	1.011	1.006	1.004									
2011	1.230	1.033	1.014	1.008										
2012	1.241	1.035	1.014	1.000										
2013	1.241	1.034	1.014											
2013	1.246	1.054												
2014	1.240													
I.	Age-to-Ag	e (Latest Y	<u>'ear)</u>											
	1.246	1.034	1.014	1.008	1.004	1.002	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000
II.	Age-to-Ult													
	1.332	1.069	1.034	1.019	1.011	1.008	1.005	1.004	1.003	1.003	1.003	1.002	1.002	1.002
III.	Estimated			•	•									
	75.1%	93.5%	96.7%	98.1%	98.9%	99.3%	99.5%	99.6%	99.7%	99.7%	99.7%	99.8%	99.8%	99.8%
Accident	tt				Ag	e-to-Age D	evelopmer	nt (in month	ns):					
Year	180-192	192-204	204-216	216-228	228-240	240-252	252-264	264-276	276-288	288-300	300-312	312-324		
1989				1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
1990			1.001	0.999	1.000	1.000	1.000	1.000	1.001	1.000	1.000			
1991		1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
1992	1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
1993	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
1994	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
1995	1.001	1.000	1.000	1.000	1.000	1.000								
1996	1.000	1.000	1.000	1.000	1.000									
1997	1.000	1.000	1.000	1.000										
1998	1.000	1.000	1.000											
1999	1.001	1.000												
2000	1.001	1.500												
2000	1.000													
I.	Age-to-Ag													
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
11.	Age-to-Ult		1 000	1 000	1.004	1.001	1.001	1.004	1 000	1 000	1 000	1 000	1 000	
111	1.002 Estimated	1.002 Percent of	1.002 Ultimate Ir	1.002 ndemnity C	1.001 laims Reno	1.001 orted	1.001	1.001	1.000	1.000	1.000	1.000	1.000	
111.	99.8%	99.8%	99.8%	99.8%	99.9%	99.9%	99.9%	99.9%	100.0%	100.0%	100.0%	100.0%		

Source: WCIRB quarterly calls for experience

Projected Ratio of ALAE^[1] to Losses - Statewide

Based on Estimated Accident Year Indemnity Claim Frequency and ALAE Severity For Policies with Effective Dates between July 1, 2016 and December 31, 2016

		Paid ALAE			Cumulative		Estimated
	Paid ALAE ^[1]	Cumulative	Estimated	Indemnity	Count	Estimated	Ult. ALAE
Acc.	@12/31/15	Development	Ult. ALAE	Claim Counts	Development	Ultimate	Per Indemnity
Year	(in \$000)	Factors[2]	(in \$000)	@12/31/15	Factors ^[3]	Ind. Counts	<u>Claim</u>
	(1)	(2)	(3)=(1)x(2)	(4)	(5)	(6)=(4)x(5)	(7)=(3)/(6)x1000
1991	445,650	1.044	465,424	249,687	1.000	249,716	1,864
1992	345,404	1.047	361,510	198,421	1.000	198,454	1,822
1993	250,865	1.050	263,478	156,121	1.000	156,167	1,687
1994	234,825	1.056	247,954	143,656	1.001	143,732	1,725
1995	260,474	1.062	276,566	135,199	1.001	135,304	2,044
1996	305,336	1.070	326,742	133,192	1.001	133,358	2,450
1997	388,611	1.078	418,929	137,323	1.001	137,510	3,047
1998	563,563	1.087	612,420	147,539	1.002	147,772	4,144
1999	615,450	1.097	675,456	148,740	1.002	149,003	4,533
2000	760,677	1.108	843,177	162,057	1.002	162,336	5,194
2001	955,804	1.122	1,072,485	185,729	1.002	186,108	5,763
2002	1,012,343	1.138	1,151,889	194,810	1.002	195,262	5,899
2003	1,016,434	1.153	1,172,340	184,411	1.002	184,813	6,343
2004	852,170	1.173	999,757	159,220	1.002	159,593	6,264
2005	749,054	1.197	896,498	140,012	1.003	140,387	6,386
2006	778,455	1.230	957,622	133,766	1.003	134,145	7,139
2007	820,152	1.273	1,044,019	130,551	1.003	131,003	7,969
2008	846,175	1.330	1,125,606	123,731	1.004	124,251	9,059
2009	858,254	1.410	1,210,180	115,502	1.005	116,135	10,420
2010	859,201	1.528	1,312,533	120,380	1.008	121,283	10,822
2011	779,921	1.710	1,333,989	122,462	1.011	123,834	10,772
2012	715,980	2.037	1,458,121	129,254	1.019	131,722	11,070
2013	587,105	2.723	1,598,862	135,394	1.034	139,972	11,423
2014	381,012	4.617	1,759,156	135,264	1.069	144,634	12,163
2015	102,275	19.657	2,010,448	111,799	1.332	148,906	13,501

Projected Based on 2-Year Average of 2014 and 2015:

•	-		Ult. ALAE per
	<u>Ultimate ALAE^[6]</u>	Ult. Ind. Counts ^[4]	Ind. Counts ^[5]
2016	1,989,191	145,244	13,696
4/1/2017	2,033,557	143,661	14,155
(a) Projected ALAE I	ncurred (\$000):		2,033,557
(b) Calendar Year 20	015 Earned Premium ^[7] (\$000):		17,064,859
(c) Projected Loss to	Industry Average Filed Pure Premium Ratio ^[8] :		0.659
(d) Premium Adjustn	nent Factor for Calendar Year 2015 ^[9] :		0.945
(e) Projected Losses	s (\$000): (b) x (c) x (d)		10,627,226
(f) Projected Ratio of	of ALAE to Losses: (a)/(e)		19.1%

Notes:

- [1] All paid ALAE exclude the paid cost of medical cost containment programs.
- [2] Based on the private insurers latest year paid ALAE age-to-age development from Exhibit 5.1.
- [3] Based on the latest year indemnity claim count age-to-age development from Exhibit 4.1.
- [4] Estimated based on projected frequency trends for accident years 2015 to 2017. 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 2014 and 2015.
- [5] Severity is projected by applying an annual growth rate of 4.5%, 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 2014 and 2015.
- [6] Column(6) x Column(7) / 1,000.
- [7] Based on the reported earned premium for calendar year 2015 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, 2015.
- [8] See Exhibit 8 of AC16-03-02.
- [9] See Exhibit 5.2 of AC16-03-02.

Paid Allocated Loss Adjustment Expense Development - Private Insurers

As of December 31, 2015

Accident						Age-to-A	ge Develo	pment (in	months):						
<u>Year</u>	12-24	24-36	36-48	48-60	60-72	72-84	<u>84-96</u>	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192
1985								1.002	1.014	1.013	1.011	1.009	1.008	1.004	1.012
1986							1.038	1.000	1.018	1.013	1.010	1.008	1.009	1.010	1.005
1987						1.056	1.035	1.025	1.016	1.012	1.009	1.012	1.009	1.006	1.006
1988					1.095	1.055	1.036	1.023	1.016	1.011	1.010	1.014	1.005	1.004	1.004
1989			4.005	1.178	1.110	1.063	1.064	1.030	1.018	1.012	1.008	1.004	1.006	1.005	1.004
1990		4 744	1.335	1.170	1.085	1.070	1.035	1.020	1.015	1.010	1.007	1.006	1.006	1.004	1.005
1991 1992	3.520	1.711 1.631	1.303 1.249	1.131 1.134	1.083 1.081	1.054 1.050	1.027 1.028	1.019 1.021	1.012 1.024	1.017 1.010	1.008 1.008	1.005 1.004	1.002 1.007	1.005 1.005	1.007 1.006
1992	3.143	1.624	1.249	1.134	1.081	1.053	1.028	1.021	1.024	1.014	1.008	1.004	1.007	1.003	1.000
1994	3.130	1.649	1.285	1.126	1.087	1.055	1.046	1.033	1.020	1.014	1.015	1.017	1.014	1.010	1.003
1995	3.401	1.698	1.258	1.180	1.081	1.058	1.038	1.031	1.025	1.021	1.020	1.017	1.016	1.011	1.012
1996	3.147	1.569	1.330	1.132	1.081	1.061	1.049	1.036	1.033	1.028	1.022	1.018	1.014	1.010	1.009
1997	2.994	1.675	1.231	1.132	1.092	1.067	1.052	1.042	1.035	1.027	1.021	1.017	1.013	1.012	1.012
1998	3.591	1.608	1.248	1.163	1.105	1.076	1.071	1.045	1.032	1.024	1.021	1.017	1.014	1.014	1.012
1999	3.351	1.720	1.319	1.158	1.116	1.086	1.064	1.042	1.034	1.029	1.021	1.018	1.016	1.013	1.013
2000	4.051	1.752	1.315	1.183	1.121	1.090	1.053	1.042	1.033	1.025	1.021	1.019	1.015	1.014	1.012
2001	3.939	1.768	1.357	1.182	1.118	1.078	1.054	1.039	1.028	1.024	1.020	1.017	1.017	1.014	
2002	3.927	1.784	1.315	1.171	1.101	1.074	1.046	1.032	1.026	1.021	1.018	1.017	1.014		
2003	4.109	1.707	1.324	1.159	1.107	1.062	1.045	1.034	1.029	1.023	1.020	1.017			
2004 2005	4.040 3.840	1.713 1.698	1.319 1.336	1.169 1.181	1.101 1.113	1.069 1.079	1.048 1.056	1.036 1.044	1.030 1.035	1.025 1.028	1.020				
2005	3.750	1.736	1.330	1.186	1.113	1.079	1.060	1.044	1.035	1.020					
2007	4.027	1.716	1.340	1.194	1.126	1.088	1.060	1.045	1.000						
2008	4.015	1.758	1.367	1.198	1.126	1.085	1.060	1.040							
2009	4.322	1.775	1.354	1.199	1.126	1.083									
2010	4.300	1.737	1.342	1.190	1.120										
2011	4.230	1.727	1.335	1.191											
2012	4.322	1.729	1.337												
2013	4.385	1.695													
2014	4.258														
	Latest Ye	ar													
Age-to-Age		1.695	1.337	1.191	1.120	1.083	1.060	1.045	1.035	1.028	1.020	1.017	1.014	1.014	1.012
Cumulative	19.657	4.617	2.723	2.037	1.710	1.528	1.410	1.330	1.273	1.230	1.197	1.173	1.153	1.138	1.122
	2 Voor Ar	ithmotics	Avorago												
Age-to-Age		ithmetics / 1.717	1.338	1.193	1.124	1.085	1.060	1.045	1.033	1.025	1.019	1.017	1.015	1.014	1.012
Cumulative		4.682	2.727	2.038	1.708	1.520	1.400	1.321	1.264	1.223	1.193	1.171	1.151	1.133	1.118
o arraida vo	20.202			2.000	00					0					
			High & Lov	_											
Age-to-Age		1.706	1.315	1.168	1.103	1.069	1.048	1.032	1.025	1.019	1.015	1.013	1.011	1.009	1.008
Cumulative	15.417	4.027	2.360	1.795	1.537	1.393	1.303	1.244	1.205	1.176	1.154	1.136	1.122	1.109	1.099
Accident	400.004	004.040	040.000	000.040	0.40, 050		ge Develo			000 040	040.004	004.000	000 040	0.40,000	000 070
<u>Year</u>	192-204	204-216	216-228	228-240	240-252	252-264	264-276	276-288	288-300	300-312	312-324	324-336	336-348	348-360	360-372
1985	1.003	1.004	1.006	1.004	1.003	1.005	1.005	1.000	1.003	1.004	1.004	1.004	1.004	1.006	1.004
1986 1987	1.006 1.004	1.005 1.004	1.005 1.005	1.005 1.006	1.006 1.007	1.005 1.000	1.000 1.003	1.004 1.006	1.005 1.005	1.005 1.004	1.006 1.005	1.006 1.006	1.007 1.005	1.006	
1988	1.004	1.004	1.005	1.005	1.012	1.004	1.003	1.004	1.003	1.004	1.003	1.004	1.005		
1989	1.005	1.005	1.003	1.004	1.003	1.004	1.004	1.004	1.004	1.004	1.004	1.004			
1990	1.006	1.005	1.004	1.002	1.003	1.003	1.003	1.003	1.003	1.002					
1991	1.004	1.004	1.002	1.003	1.003	1.003	1.003	1.003	1.002						
1992	1.005	1.002	1.005	1.004	1.003	1.003	1.003	1.003							
1993	1.004		1.006	1.006	1.006	1.005	1.005								
1994	1.004	1.007	1.000	1.000											
	1.007	1.008	1.007	1.006	1.006	1.006									
1995	1.007 1.008	1.008 1.009	1.007 1.009	1.006 1.008		1.006									
1995 1996	1.007 1.008 1.010	1.008 1.009 1.009	1.007 1.009 1.008	1.006	1.006	1.006									
1995 1996 1997	1.007 1.008 1.010 1.010	1.008 1.009 1.009 1.008	1.007 1.009	1.006 1.008	1.006	1.006									
1995 1996 1997 1998	1.007 1.008 1.010 1.010 1.012	1.008 1.009 1.009	1.007 1.009 1.008	1.006 1.008	1.006	1.006									
1995 1996 1997	1.007 1.008 1.010 1.010	1.008 1.009 1.009 1.008	1.007 1.009 1.008	1.006 1.008	1.006	1.006									
1995 1996 1997 1998	1.007 1.008 1.010 1.010 1.012	1.008 1.009 1.009 1.008 1.010	1.007 1.009 1.008	1.006 1.008	1.006	1.006									
1995 1996 1997 1998	1.007 1.008 1.010 1.010 1.012 1.010 Latest Ye	1.008 1.009 1.009 1.008 1.010	1.007 1.009 1.008	1.006 1.008	1.006	1.006	1.005	1.003	1.002	1.002	1.004	1.004	1.005	1.006	1.004
1995 1996 1997 1998 1999	1.007 1.008 1.010 1.010 1.012 1.010 Latest Ye	1.008 1.009 1.009 1.008 1.010	1.007 1.009 1.008 1.008	1.006 1.008 1.007	1.006 1.008			1.003 1.050	1.002 1.047	1.002 1.044	1.004 1.041	1.004 1.038	1.005 1.035	1.006 1.033	1.004 1.030
1995 1996 1997 1998 1999	1.007 1.008 1.010 1.010 1.012 1.010 Latest Ye 1.010 1.108	1.008 1.009 1.009 1.008 1.010 ar 1.010 1.097	1.007 1.009 1.008 1.008 1.008	1.006 1.008 1.007	1.006 1.008	1.006	1.005								
1995 1996 1997 1998 1999 Age-to-Age Cumulative	1.007 1.008 1.010 1.010 1.012 1.010 Latest Ye 1.010 1.108 3-Year Ar	1.008 1.009 1.009 1.008 1.010 ar 1.010 1.097	1.007 1.009 1.008 1.008 1.008 1.008	1.006 1.008 1.007 1.007	1.006 1.008 1.008 1.008	1.006 1.062	1.005 1.056	1.050	1.047	1.044	1.041	1.038	1.035	1.033	1.030
1995 1996 1997 1998 1999	1.007 1.008 1.010 1.010 1.012 1.010 Latest Ye 1.010 1.108 3-Year Ar 1.011	1.008 1.009 1.009 1.008 1.010 ar 1.010 1.097	1.007 1.009 1.008 1.008 1.008	1.006 1.008 1.007	1.006 1.008	1.006	1.005								
1995 1996 1997 1998 1999 Age-to-Age Cumulative	1.007 1.008 1.010 1.010 1.012 1.010 Latest Ye 1.010 1.108 3-Year Ar 1.011 1.104	1.008 1.009 1.009 1.008 1.010 1.010 1.097 ithmetics / 1.009 1.093	1.007 1.009 1.008 1.008 1.008 1.087 Average 1.008 1.083	1.006 1.008 1.007 1.007 1.078	1.006 1.008 1.008 1.008 1.070	1.006 1.062 1.005	1.005 1.056	1.050	1.047	1.044	1.041	1.038	1.035 1.005	1.033	1.030
1995 1996 1997 1998 1999 Age-to-Age Cumulative	1.007 1.008 1.010 1.010 1.012 1.010 Latest Ye 1.010 1.108 3-Year Ar 1.011 1.104	1.008 1.009 1.009 1.008 1.010 1.010 1.097 1.009 1.009 1.093	1.007 1.009 1.008 1.008 1.008 1.087 Average 1.008 1.083	1.006 1.008 1.007 1.007 1.078 1.007 1.074	1.006 1.008 1.008 1.070 1.007 1.067	1.006 1.062 1.005 1.060	1.005 1.056 1.004 1.055	1.050 1.003 1.051	1.047 1.003 1.047	1.044 1.003 1.044	1.041 1.004 1.041	1.038 1.005 1.038	1.035 1.005 1.035	1.033	1.030
1995 1996 1997 1998 1999 Age-to-Age Cumulative	1.007 1.008 1.010 1.010 1.012 1.010 Latest Ye 1.010 1.108 3-Year Ar 1.011 1.104	1.008 1.009 1.009 1.008 1.010 1.010 1.097 ithmetics / 1.009 1.093	1.007 1.009 1.008 1.008 1.008 1.087 Average 1.008 1.083	1.006 1.008 1.007 1.007 1.078	1.006 1.008 1.008 1.008 1.070	1.006 1.062 1.005	1.005 1.056	1.050	1.047	1.044	1.041	1.038	1.035 1.005	1.033	1.030

Note: Factors in italics are based on powertail fit to the "3-Year Arithmetics Average" factors.

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

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

Age in						Accider	nt Year							
<u>Months</u>	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
3 - 6						7.976	7.570	5.434	9.136	8.769	8.694	8.529	6.311	9.828
6 - 9					2.427	3.016	2.765	2.630	3.023	3.176	3.214	3.060	3.136	3.170
9 - 12					2.022	2.078	2.021	2.034	2.077	2.165	2.113	2.134	2.139	2.147
12 - 15					1.653	1.627	1.687	1.724	1.737	1.698	1.714	1.771	1.740	
15 - 18					1.415	1.486	1.494	1.509	1.482	1.485	1.510	1.490	1.485	
18 - 21				1.318	1.357	1.328	1.289	1.326	1.334	1.343	1.338	1.346	1.328	
21 - 24				1.249	1.255	1.234	1.237	1.255	1.253	1.248	1.248	1.235	1.241	
24 - 27				1.192	1.187	1.191	1.190	1.197	1.189	1.186	1.198	1.189		
27 - 30				1.151	1.165	1.167	1.172	1.170	1.158	1.163	1.159	1.156		
30 - 33			1.127	1.145	1.128	1.119	1.135	1.138	1.133	1.131	1.130	1.122		
33 - 36			1.113	1.110	1.107	1.103	1.111	1.114	1.113	1.107	1.102	1.100		
36 - 39			1.093	1.087	1.093	1.090	1.097	1.094	1.091	1.092	1.092			
39 - 42			1.076	1.083	1.083	1.086	1.096	1.082	1.083	1.081	1.081			
42 - 45		1.063	1.077	1.068	1.063	1.069	1.069	1.074	1.069	1.068	1.071			
45 - 48		1.059	1.057	1.058	1.057	1.059	1.063	1.064	1.062	1.059	1.058			
48 - 51		1.049	1.039	1.050	1.050	1.050	1.052	1.053	1.053	1.051				
51 - 54		1.043	1.044	1.048	1.049	1.050	1.049	1.050	1.048	1.048				
54 - 57	1.038	1.045	1.037	1.037	1.038	1.043	1.045	1.043	1.040	1.043				
57 - 60	1.037	1.025	1.032	1.034	1.037	1.038	1.039	1.039	1.037	1.037				
60 - 63	1.031	1.027	1.028	1.030	1.032	1.032	1.034	1.034	1.032					
63 - 66	1.029	1.025	1.025	1.030	1.030	1.031	1.033	1.031	1.032					
66 - 69	1.027	1.023	1.022	1.026	1.027	1.029	1.028	1.028	1.028					
69 - 72	1.018	1.021	1.022	1.023	1.025	1.028	1.026	1.026	1.023					
72 - 75	1.014	1.017	1.018	1.021	1.022	1.023	1.023	1.022						
75 - 78	1.018	1.018	1.019	1.020	1.020	1.023	1.022	1.022						
78 - 81	1.017	1.013	1.015	1.019	1.019	1.020	1.020	1.020						
81 - 84	1.015	1.013	1.015	1.017	1.018	1.019	1.018	1.017						
84 - 87	1.014	1.011	1.013	1.015	1.016	1.016	1.016							
87 - 90	1.013	1.012	1.012	1.014	1.015	1.015	1.016							
90 - 93	1.010	1.011	1.011	1.013	1.014	1.014	1.014							
93 - 96	1.010	1.011	1.011	1.013	1.013	1.013	1.013							
96 - 99	1.007	1.009	1.010	1.012	1.012	1.012								
99 - 102	1.008	1.009	1.009	1.012	1.012	1.012								
102 - 105	1.007	1.008	1.008	1.010	1.012	1.011								
105 - 108	1.008	1.008	1.008	1.010	1.010	1.010								
108 - 111	1.007	1.007	1.008	1.009	1.009									
111 - 114	1.007	1.008	1.008	1.009	1.009									
114 - 117	1.006	1.007	1.007	1.009	1.008									
117 - 120	1.006	1.007	1.007	1.008	1.008									
120 - 123	1.006	1.006	1.007	1.007										

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

Source: WCIRB quarterly calls for experience.

Reported Indemnity Claim Count Development - Private Insurers

Acciden	Accident Age-to-Age Development (in months):													
Year	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108		120-132	132-144	144-156	156-168	168-180
1993													4 000	1.001
1994 1995												1.001	1.002	1.000 1.006
1995											1 001		1.000	1.006
1996										1.002	1.001	1.001 1.001	1.002	1.001
1997									1.002	1.002	1.000 1.001	1.001	1.001 1.002	1.000
1999								1.002	1.002	1.000	1.001	1.001	1.002	1.000
2000							1.001	0.998	1.002	1.001	1.001	1.000	1.001	1.000
2000						1.000	0.999	1.001	0.999	1.000	1.001	1.001	1.001	1.001
2001					1.000	1.015	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.001
2002				1.004	1.018	0.999	1.000	1.000	1.001	1.001	1.001	1.001	1.000	
2003			1.007	1.004	1.000	1.001	1.000	1.001	1.000	1.001	1.001	1.001		
2004		1.017	1.010	1.003	1.000	1.001	1.001	1.001	1.001	1.000	1.001			
2006	1.145	1.024	1.007	1.002	1.002	1.003	1.007	1.002	1.001	1.001				
2007	1.150	1.024	1.007	1.006	1.003	1.002	1.007	1.002	1.001					
2008	1.175	1.021	1.013	1.006	1.004	1.002	1.002	1.001						
2009	1.212	1.034	1.013	1.008	1.005	1.003	1.002							
2010	1.237	1.033	1.013	1.007	1.004	1.000								
2011	1.241	1.036	1.015	1.009										
2012	1.254	1.037	1.016											
2013	1.252	1.038												
2014	1.264													
I.	Age-to-Ag													
	1.264	1.038	1.016	1.009	1.004	1.003	1.002	1.001	1.001	1.001	1.001	1.001	1.000	1.001
II.	Age-to-Ult 1.368	1.082	1.043	1.027	1.018	1.013	1.011	1.009	1.007	1.006	1.006	1.004	1.004	1.004
III.	Estimated						1.011	1.000	1.007	1.000	1.000	1.00-	1.004	1.004
	73.1%	92.4%	95.9%	97.4%	98.2%	98.7%	98.9%	99.1%	99.3%	99.4%	99.4%	99.6%	99.6%	99.6%
	, .													
Acciden	t					to-Age De	evelopmer	nt (in mont	ths):					
Year	180-192	<u>192-204</u>	204-216	216-228	228-240	240-252	<u>252-264</u>	<u>264-276</u>	276-288	288-300	300-312	312-324		
1989				1.001	0.999	1.000	1.000	1.001	1.000	1.000	1.000	1.000		
1990			1.001	0.999	1.000	1.000	1.001	1.000	1.001	1.000	1.000			
1991		1.001	0.998	1.000	1.000	1.000	1.000	1.001	1.000	1.000				
1992	1.001	0.999	1.000	1.000	1.001	1.000	1.000	1.000	1.000					
1993	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000						
1994	1.001	1.001	1.000	1.000	1.001	1.000	1.000							
1995	1.002	1.000	1.001	1.001	1.000	1.001								
1996	1.000	1.001	1.001	1.000	1.000									
1997	1.000	1.001	1.000	1.000										
1998	1.001	1.000	1.000											
1999	1.001	1.000												
2000	1.000													
I.	Age-to-Ag			4.000	4.000	4.004	4.000	4.000	4.000	4.000	4.000	4.000		
	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000		
II.	Age-to-Ult 1.003	1.003	1.003	1.002	1.002	1.002	1.001	1.001	1.000	1.000	1.000	1.000	1.000	
III.	Estimated						1.501	1.501	1.500	1.500	1.500	1.500	1.500	
	99.7%	99.7%	99.7%	99.8%	99.8%	99.8%	99.9%	99.9%	100.0%	100.0%	100.0%	100.0%		

Source: WCIRB quarterly calls for experience

Projected Ratio of ALAE^[1] to Losses - Private Insurers

Based on Estimated Accident Year Indemnity Claim Frequency and ALAE Severity For Policies with Effective Dates between July 1, 2016 and December 31, 2016

		Paid ALAE			Cumulative		Estimated
	Paid ALAE ^[1]	Cumulative	Estimated	Indemnity	Count	Estimated	Ult. ALAE
Acc.	@12/31/15	Development	Ult. ALAE	Claim Counts	Development	Ultimate	Per Indemnity
Year	(in \$000)	Factors ^[2]	(in \$000)	@12/31/15	Factors[3]	Ind. Counts	<u>Claim</u>
	(1)	(2)	(3)=(1)x(2)	(4)	(5)	(6)=(4)x(5)	(7)=(3)/(6)x1000
1991	411,661	1.044	429,927	175,230	1.000	175,263	2,453
1992	315,860	1.047	330,588	141,910	1.000	141,949	2,329
1993	233,192	1.050	244,917	113,510	1.000	113,562	2,157
1994	215,976	1.056	228,051	105,344	1.001	105,426	2,163
1995	236,006	1.062	250,587	101,362	1.001	101,475	2,469
1996	281,518	1.070	301,254	103,242	1.002	103,416	2,913
1997	356,204	1.078	383,994	104,765	1.002	104,967	3,658
1998	491,924	1.087	534,571	112,510	1.002	112,773	4,740
1999	541,068	1.097	593,822	116,439	1.003	116,734	5,087
2000	641,187	1.108	710,728	118,483	1.003	118,785	5,983
2001	760,585	1.122	853,434	113,960	1.003	114,307	7,466
2002	798,743	1.138	908,846	113,025	1.004	113,429	8,012
2003	806,583	1.153	930,301	108,423	1.004	108,828	8,548
2004	688,898	1.173	808,208	99,548	1.004	99,995	8,083
2005	638,708	1.197	764,432	97,606	1.006	98,147	7,789
2006	698,042	1.230	858,702	104,632	1.006	105,276	8,157
2007	758,741	1.273	965,845	107,531	1.007	108,316	8,917
2008	793,814	1.330	1,055,954	106,199	1.009	107,129	9,857
2009	812,561	1.410	1,145,750	102,532	1.011	103,632	11,056
2010	824,722	1.528	1,259,862	110,512	1.013	111,982	11,251
2011	755,821	1.710	1,292,769	114,587	1.018	116,631	11,084
2012	698,173	2.037	1,421,856	122,624	1.027	125,885	11,295
2013	571,177	2.723	1,555,484	127,176	1.043	132,591	11,731
2014	368,687	4.617	1,702,252	124,335	1.082	134,517	12,655
2015	98,980	19.657	1,945,678	101,545	1.368	138,883	14,009

Projected Based on 2-Year Average of 2014 and 2015:

,	a. 7.10.ugo o. 2011 a.uu 2010.		Ult. ALAE per
	Ultimate ALAE ^[6]	Ult. Ind. Counts ^[4]	Ind. Counts ^[5]
2016	1,924,956	135,280	14,229
4/1/2017	1,967,888	133,806	14,707

(a) Projected ALAE Incurred (\$000):	1,967,888
(b) Calendar Year 2015 Earned Premium ^[7] (\$000):	15,448,761
(c) Projected Loss to Industry Average Filed Pure Premium Ratio ^[8] :	0.635
(d) Premium Adjustment Factor for Calendar Year 2015 ^[9] :	0.977
(e) Projected Losses (\$000): (b) x (c) x (d)	9,584,334
(f) Projected Ratio of ALAE to Losses: (a)/(e)	20.5%

Notes:

- [1] 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 5.1.
- [3] Based on the latest year indemnity claim count age-to-age development from Exhibit 5.3.
- [4] Estimated based on projected frequency trends for accident years 2015 to 2017. 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 2014 and 2015.
- [5] Severity is projected by applying an annual growth rate of 4.5%, which is based on the approximate average of the 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 2014 and 2015.
- [6] Column(6) x Column(7) / 1,000.
- [7] Based on the reported earned premium for calendar year 2015 from the same group of private insurers that reported the paid ALAE in column (1) and the indemnity claim counts in column (4) by accident year as of December 31, 2015.
- [8] Based on analogous Exhibit 8 of Item AC16-03-02, applicable to private insurers only.
- [9] Based on analogous Exhibit 5.2 of Item AC16-03-02, applicable to private insurers only.

Paid MCCP per Indemnity Claims Inventory^[1] Calendar Year

Calendar Year	Private In	surers	Statewide				
2005	\$469						
2006	\$559	19.2%					
2007	\$631	12.8%	\$433				
2008	\$953	51.1%	\$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	\$983	5.6%	\$841	7.1%			
2013	\$1,022	4.1%	\$901	7.1%			
2014	\$1,028	0.5%	\$918	2.0%			
Estimated Annual Exponetial	Trend Based on:						
2005-2014		8.5%					
R^2		0.787					
2009-2014		4.5%		6.8%			
R^2		0.955		0.973			
Selected:		4.5%					

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

^[1] 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.

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, 2016 and December 31, 2016

							Estimated	
	Paid			Indemnity	Cumulative		Ultimate	
	MCCP	Cumulative	Estimated	Claim	Count	Estimated	MCCP Per	
	@12/31/15	Development	Ultimate	Counts	Development	Ultimate	Indemnity	Annual
<u>Year</u>	(in \$000)	Factors ^[1]	MCCP	@12/31/15	Factors ^[2]	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	292,489	1.878	549,360	122,462	1.011	123,834	4,436	
2012	265,398	2.162	573,746	129,254	1.019	131,722	4,356	-1.8%
2013	230,941	2.696	622,573	135,394	1.034	139,972	4,448	2.1%
2014	168,879	3.930	663,778	135,264	1.069	144,634	4,589	3.2%
2015	68,429	9.889	676,707	111,799	1.332	148,906	4,545	-1.0%

Projected Based on 2-Year Average of 2013 and 2014:

	<u>Ultimate MCCP^[5]</u>	Ult. Ind. Counts ^[3]	Ult.MCCP per Ind. Counts [4]
2016	708,841	145,244	4,880
4/1/2017	724,651	143,661	5,044
` '	ojected MCCP (\$000): lendar Year 2015 Earned Premium ^[6] (\$000):		724,651 17,064,859
(c) Pro	ojected Loss to Industry Average Filed Pure Premium Ratio ^[7] :		0.659
(d) Pre	emium Adjustment Factor for Calendar Year 2015 ^[8] :		0.945
(e) Pro	pjected Losses (\$000): (b) x (c) x (d)		10,627,226
(f) Pro	pjected Ratio of MCCP to Losses: (a)/(e)		6.8%

Notes:

- [1] Based on paid medical cumulative loss development factors from Exhibit 2.6.1 of Item AC16-03-02.
- [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 2015 to 2017. 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 2014 and 2015.
- ^[4] Severity is projected by applying an annual growth rate of 4.5%, which is based on the approximate average rate of growth, based on private insurers, in paid MCCP per indemnity claim from Exhibit 6, to the ultimate MCCP severity estimated from averaging 2014 and 2015.
- [5] Column(6) x Column(7) / 1,000.
- ^[6] Based on the reported earned premium for calendar year 2015 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, 2015.
- [7] See Exhibit 8 of AC16-03-02.
- [8] See Exhibit 5.2 of AC16-03-02.

Projected Ratio of MCCP to Losses - Private Insurers

Based on Estimated Accident Year Indemnity Claim Frequency and MCCP Severity For Policies with Effective Dates between July 1, 2016 and December 31, 2016

							Estimated	
	Paid			Indemnity	Cumulative		Ultimate	
	MCCP	Cumulative	Estimated	Claim	Count	Estimated	MCCP Per	
	@12/31/15	Development	Ultimate	Counts	Development	Ultimate	Indemnity	Annual
<u>Year</u>	(in \$000)	Factors ^[1]	MCCP	@12/31/15	Factors ^[2]	Ind. Counts	<u>Claim</u>	<u>change</u>
	(1)	(2)	(3)=(1)x(2)	(4)	(5)	(6)=(4)x(5)	$(7)=(3)/(6) \times 1000$	
2011	282,621	1.834	518,327	114,587	1.018	116,631	4,444	
2012	258,983	2.113	547,232	122,624	1.027	125,885	4,347	-2.2%
2013	224,649	2.635	591,949	127,176	1.043	132,591	4,464	2.7%
2014	162,291	3.852	625,145	124,335	1.082	134,517	4,647	4.1%
2015	66,099	9.779	646,379	101,545	1.368	138,883	4,654	0.1%

Projected Based on 2-Year Average of 2013 and 2014:

	Ultimate MCCP ^[6]	Ult. Ind. Counts ^[4]	Ult.MCCP per Ind. Counts ^[5]
2016	672,241	135,280	4,969
4/1/2017	687,234	133,806	5,136
(a) Projected MCC	CP (\$000): 2015 Earned Premium ^[7] (\$000):		687,234 15,448,761
(c) Projected Loss	to Industry Average Filed Pure Premium Ratio ^[8] :		0.635
(d) Premium Adjus	stment Factor for Calendar Year 2015 ^[9] :		0.977
(e) Projected Loss	ses (\$000): (b) x (c) x (d)		9,584,334
(f) Projected Ratio	o of MCCP to Losses: (a)/(e)		7.2%

Notes:

- [1] Based on the analogous paid medical cumulative loss development factors from Exhibit 2.6.1 of Item AC16-03-02, applicable to private insurers only.
- [2] Based on the latest year indemnity claim count age-to-age development from Exhibit 5.3.
- [3] Estimated based on projected frequency trends for accident years 2015 to 2017. 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 2014 and 2015.
- ^[4] Severity is projected by applying an annual growth rate of 4.5%, which is based on the approximate average rate of growth, based on private insurers, in paid MCCP per indemnity claim from Exhibit 6, to the ultimate MCCP severity estimated from averaging 2014 and 2015.
- [5] Column(6) x Column(7) / 1,000.
- [6] Based on the reported earned premium for calendar year 2015 from the same group of private insurers that reported the paid MCCP in column (1) and the indemnity claim counts in column (4) by accident year as of December 31, 2015.
- [7] Based on analogous Exhibit 8 of Item AC16-03-02, applicable to private insurers only.
- [8] Based on analogous Exhibit 5.2 of Item AC16-03-02, applicable to private insurers only.

Item AC16-04-02 12/31/2015 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, 2015 experience, included in Item AC16-03-02 of this Agenda, were based on a combination of (a) latest year reform-adjusted paid loss development factors through 108 months, (b) three-year average reform-adjusted paid loss development factors from 108 months through 216 months and (c) three-year average (unadjusted) incurred loss development factors after 216 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, 2015 experience, derived using the following loss development methodologies and the trending methodology reflected in the analysis included in Item AC16-03-02 of this Agenda are included:

- 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 Adequacy Level 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.
- Latest Year Reform-Adjusted Paid Loss Development with Paid Loss Development Tail (through 372 Months) – 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 7.15.
- 8. Latest Year Paid Loss Development Adjusted for Changes in Claim Settlement Rates and Reforms Exhibits 8.1 through 8.3.

A summary of the July 1, 2016 through December 1, 2016 policy period loss ratio projections based on the alternative loss development methodologies described above is shown in Table 1.

¹ All methodologies reflect three-year average loss development factors applied after 108 months. All paid loss development methodologies reflect three-year average incurred loss development factors applied after 216 months unless otherwise stated.

Table 1: Projected Loss Ratios for Policies Incepting between July 1, 2016 and December 31, 2016

Based on Alternative Loss Development Methodologies²

Loss Development Methodologies	Indemnity Loss Ratio	Medical Loss Ratio	Total Loss Ratio
Current WCIRB Methodology			
Latest Year Reform-Adjusted Paid through 108 Months; 3-Year Average Reform-Adjusted Paid through 216 Months; 3-Year Average Incurred After 216 Months	0.271	0.388	0.659
Alternative Methodologies			
Incurred Methodologies			
3-Year Average (Unadjusted)	0.239	0.368	0.607
Latest Year (Unadjusted)	0.230	0.335	0.565
Latest Year Adjusted for Changes in Case Reserve Adequacy Level	0.254	0.380	0.634
Paid Methodologies			
3-Year Average (Unadjusted)	0.254	0.389	0.643
Latest Year (Unadjusted)	0.251	0.378	0.629
Latest Year Reform-Adjusted with Paid Tail	0.268	0.384	0.652
3-Year Average Adjusted for Changes in Claim Settlement Rates and Reform	0.265	0.401	0.666
Latest Year Adjusted for Changes in Claim Settlement Rates and Reform	0.262	0.380	0.642

Trending Methodologies

The trending projections reflected in the summary analysis of December 31, 2015 experience, included in Item AC16-03-02 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 2015 and the WCIRB's claim frequency model forecasts for accident years 2016 and 2017. The severity growth estimates were based on the approximate average of the longer-term (post-2005) average on-level severity trend and the shorter-term (five-year) average on-level severity trend for indemnity, and the approximate average longer-term (post-2005) on-level severity trend for medical.

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, 2015 experience, derived using the loss development methodologies reflected in

² All methodologies reflect three-year average loss development factors applied after 108 months. All paid loss development methodologies reflect three-year average incurred loss development factors applied after 216 months unless otherwise stated.

the analysis included in Item AC16-03-02 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 9.1 and 9.2.
- Separate Projections of Frequency and the Approximate Average of the Longer-Term (Post-2005) and Shorter-Term (5-Year) Severity Growth Rates Applied to the Latest Two Years – Exhibits 10.1 and 10.2.
- 3. Post-2005 On-Level Loss Ratio Exponential Trend Applied to the Latest Two Years' Loss Ratios and then Averaged Exhibits 11.1 and 11.2.
- 4. 5-Year On-Level Loss Ratio Exponential Trend Applied to the Latest Two Years' Loss Ratios and then Averaged Exhibits 12.1 and 12.2.

A summary of the July 1, 2016 through December 31, 2016 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, 2016 and December 31, 2016 Based on Alternative Trending Methodologies

Trending Methodologies	Indemnity Loss Ratio	Medical Loss Ratio	Total Loss Ratio
Current WCIRB Methodology			
Separate Projections of Frequency and Severity, with Indemnity Severity at 0% and Medical Severity at +2.5%, Applied to the Latest Two Years	0.271	0.388	0.659
Alternative Methodologies			
Separate Projections of Frequency and Severity Applied to the Latest Year	0.275	0.387	0.662
Separate Projections of Frequency and Severity, with Indemnity Severity at 0% and Medical Severity at +1.0%, Applied to the Latest Two Years	0.271	0.375	0.646
Post-2005 On-level Loss Ratio Exponential Trend Applied to the Latest Two Years	0.291	0.416	0.707
5-Year On-level Loss Ratio Exponential Trend Applied to the Latest Two Years	0.281	0.381	0.662

Developed Loss Ratios Using Unadjusted 3-Year Average Incurred Development Factors Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		Inder	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)	<u>Factor</u>	Loss Ratio (1) x (3)	Ex IBNR(a)	Factor(c)	<u>Factor</u>	Loss Ratio (5) x (7)	Loss Ratio (4) + (8)
2005	0.121	1.006	1.026	0.124	0.182	1.010	1.115	0.203	0.327
2006	0.155	1.007	1.033	0.161	0.233	1.012	1.128	0.263	0.424
2007	0.211	1.012	1.046	0.221	0.323	1.019	1.150	0.372	0.593
2008	0.264	1.014	1.061	0.280	0.396	1.024	1.177	0.466	0.746
2009	0.301	1.021	1.083	0.326	0.451	1.033	1.216	0.549	0.875
2010	0.283	1.030	1.116	0.316	0.426	1.040	1.265	0.539	0.855
2011	0.254	1.046	1.167	0.297	0.361	1.056	1.335	0.482	0.779
2012	0.214	1.069	1.248	0.268	0.292	1.078	1.439	0.420	0.687
2013	0.167	1.126	1.405	0.235	0.222	1.119	1.611	0.357	0.592
2014	0.124	1.272	1.787	0.221	0.170	1.194	1.924	0.326	0.547
2015	0.064	1.961	3.506	0.223	0.111	1.593	3.065	0.339	0.563

⁽a) Based on Item AC 16-03-02, 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 AC 16-03-02, Exhibit 2.1.

⁽c) Based on AC 16-03-02, 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, 2015

	(1)	(2)	(3)	(4)
Accident <u>Year</u>	Developed Indemnity <u>Loss Ratio(a)</u>	Composite Indemnity Adjustment Factor(b)	Composite Premium Adjustment Factor(c)	On-Level Indemnity to Industry Average Filed Pure Premium Ratio (1)×(2)÷(3)
2005	0.124	1.387	0.762	0.226
2006	0.161	1.370	0.979	0.225
2007	0.221	1.328	1.252	0.234
2008	0.280	1.250	1.513	0.232
2009	0.326	1.226	1.630	0.245
2010	0.316	1.209	1.482	0.258
2011	0.297	1.190	1.351	0.262
2012	0.268	1.162	1.203	0.258
2013	0.235	1.170	1.058	0.260
2014	0.221	1.061	0.978	0.240
2015	0.223	1.041	0.945	0.246

Projections (d) 2016 0.241 4/1/2017 0.239

⁽a) See Exhibit 1.1.

⁽b) Based on AC 16-03-02, Exhibit 4.1.

⁽c) See AC 16-03-02, Exhibit 5.2.

⁽d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC 16-03-02, Exhibit 6.2, the actual frequency trend for accident year 2015 from AC 16-03-02, Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 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, 2015

	(1)	(2)	(3)	(4a)
Accident <u>Year</u>	Developed Medical Loss Ratio(a)	Composite Medical On-Level Factor(b)	Composite Premium Adjustment Factor(c)	On-Level Medical to Industry Average Filed Pure Premium Ratio (e) (1)×(2)÷(3)
2005	0.203	0.928	0.762	0.247
2006	0.263	0.975	0.979	0.262
2007	0.372	0.957	1.252	0.284
2008	0.466	0.951	1.513	0.293
2009	0.549	0.937	1.630	0.316
2010	0.539	0.935	1.482	0.340
2011	0.482	0.932	1.351	0.333
2012	0.420	0.940	1.203	0.328
2013	0.357	0.994	1.058	0.336
2014	0.326	1.027	0.978	0.343
2015	0.339	1.020	0.945	0.366

Projections (d) 2016 0.365 4/1/2017 0.368

- (a) See Exhibit 1.1.
- (b) Based on AC 16-03-02, Exhibit 4.4.
- (c) See AC 16-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected based on an estimated annual medical severity trend from AC 16-03-02, Exhibit 6.4, the actual frequency trend for accident year 2015 from AC 16-03-02, Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 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.

Developed Loss Ratios Using Unadjusted Latest Year Incurred Development Factors Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		Inder	mnity			Med	dical		
	Reported				Reported				
	Incurred	Annual	Cumulative		Incurred	Annual	Cumulative		Total
Accident	Loss Ratio	Development	Development	Developed	Loss Ratio	Development	Development	Developed	Developed
<u>Year</u>	Ex IBNR(a)	Factor(b)	<u>Factor</u>	Loss Ratio	Ex IBNR(a)	Factor(c)	<u>Factor</u>	Loss Ratio	Loss Ratio
				(1) x (3)				(5) x (7)	(4) + (8)
2005	0.121	1.006	1.026	0.124	0.182	1.010	1.115	0.203	0.327
2006	0.155	1.007	1.033	0.161	0.233	1.012	1.128	0.263	0.424
2007	0.211	1.012	1.046	0.221	0.323	1.019	1.150	0.372	0.593
2008	0.264	1.012	1.058	0.280	0.396	1.018	1.170	0.463	0.743
2009	0.301	1.019	1.078	0.325	0.451	1.026	1.201	0.542	0.867
2010	0.283	1.024	1.104	0.313	0.426	1.030	1.237	0.527	0.840
2011	0.254	1.045	1.154	0.294	0.361	1.045	1.293	0.467	0.760
2012	0.214	1.062	1.225	0.263	0.292	1.070	1.383	0.403	0.666
2013	0.167	1.114	1.365	0.228	0.222	1.099	1.520	0.337	0.565
2014	0.124	1.260	1.720	0.213	0.170	1.164	1.769	0.300	0.513
2015	0.064	1.961	3.373	0.215	0.111	1.561	2.762	0.306	0.521

⁽a) Based on Item AC 16-03-02, 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 AC 16-03-02, Exhibit 2.1.

⁽c) Based on AC 16-03-02, 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, 2015

	(1)	(2)	(3)	(4) On-Level Indemnity to
Accident <u>Year</u>	Developed Indemnity Loss Ratio(a)	Composite Indemnity Adjustment Factor(b)	Composite Premium Adjustment Factor(c)	Industry Average Filed Pure Premium Ratio (1)×(2)÷(3)
2005	0.124	1.387	0.762	0.226
2006	0.161	1.370	0.979	0.225
2007	0.221	1.328	1.252	0.234
2008	0.280	1.250	1.513	0.231
2009	0.325	1.226	1.630	0.244
2010	0.313	1.209	1.482	0.255
2011	0.294	1.190	1.351	0.259
2012	0.263	1.162	1.203	0.254
2013	0.228	1.170	1.058	0.252
2014	0.213	1.061	0.978	0.231
2015	0.215	1.041	0.945	0.237
				Projections (d)
2016				0.232
4/1/2017				0.230

(a) See Exhibit 2.1.

⁽b) Based on AC 16-03-02, Exhibit 4.1.

⁽c) See AC 16-03-02, Exhibit 5.2.

⁽d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC 16-03-02, Exhibit 6.2, the actual frequency trend for accident year 2015 from AC 16-03-02, Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 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, 2015

	(1)	(2)	(3)	(4) On-Level Medical to
Accident <u>Year</u>	Developed Medical Loss Ratio(a)	Composite Medical On-Level Factor(b)	Composite Premium Adjustment Factor(c)	Industry Average Filed Pure Premium Ratio(e) (1)×(2)÷(3)
2005	0.203	0.928	0.762	0.247
2006	0.263	0.975	0.979	0.262
2007	0.372	0.957	1.252	0.284
2008	0.463	0.951	1.513	0.291
2009	0.542	0.937	1.630	0.312
2010	0.527	0.935	1.482	0.333
2011	0.467	0.932	1.351	0.322
2012	0.403	0.940	1.203	0.315
2013	0.337	0.994	1.058	0.317
2014	0.300	1.027	0.978	0.315
2015	0.306	1.020	0.945	0.330
				Projections (d)
2016				0.332
4/1/2017				0.335

- (a) See Exhibit 2.1.
- (b) Based on AC 16-03-02, Exhibit 4.4.
- (c) See AC 16-03-02, Exhibit 5.2.
- These on-level ratios were projected based on an estimated annual medical severity trend from AC 16-03-02, Exhibit 6.4, the actual frequency trend for accident year 2015 from AC 16-03-02, Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1, these trends were then separately applied to the 2014 and 2015 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.

Incurred Indemnity Loss Development Factors Adjusted for Changes in Case Reserve Adequacy

A. Indemnity Case Reserves Per Open 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>	84		
2000							23,704		
2001						19,542	21,015		
2002					16,169	17,421	18,396		
2003				15,081	16,635	18,504	20,895		
2004			13,012	14,056	15,383	17,771	19,782		
2005		9,764	11,159	12,558	14,843	17,769	20,884		
2006	7,608	10,745	12,691	14,806	18,139	20,953	22,702		
2007	7,323	11,127	13,882	16,127	18,097	19,925	23,967		
2008	7,620	11,566	14,541	16,534	18,120	20,748	23,331		
2009	7,688	12,199	14,368	16,358	18,548	21,091	22,516		
2010	7,728	11,777	14,202	16,005	17,822	19,687			
2011	8,237	12,482	14,521	17,023	18,671				
2012	8,088	12,279	14,680	16,084					
2013	8,389	12,413	14,194						
2014	8,413	12,743							
2015	8,843								

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

Accident			Evaluated	as of (in mont	hs)		
Year	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2000							16,682
2001						16,650	17,892
2002					14,632	16,275	17,564
2003				11,502	13,569	15,158	16,164
2004			6,660	9,396	11,322	12,541	13,394
2005		4,025	7,810	11,510	14,070	15,686	16,918
2006	1,805	4,141	7,870	11,316	13,665	15,421	16,954
2007	1,740	4,373	8,421	11,947	14,536	16,692	18,660
2008	1,838	4,555	8,830	12,560	15,538	18,231	19,953
2009	1,910	4,904	9,285	13,202	16,675	19,081	21,064
2010	1,863	4,952	9,418	13,653	16,856	19,195	
2011	1,985	5,217	9,814	13,827	16,917		
2012	2,084	5,605	10,109	13,939			
2013	2,411	6,030	10,617				
2014	2,273	5,806					
2015	2,405						
Annual Trend (b):	3.8%	4.7%	4.6%	3.6%	3.2%	2.6%	2.2%

C. Indemnity Case Reserves per Open Claim Adjusted by Paid Indemnity Severity Trend (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	
2000							19,226	
2001						16,578	19,899	
2002					15,474	17,158	20,595	
2003				13,017	16,016	17,758	21,316	
2004			11,535	13,473	16,576	18,380	22,062	
2005		9,527	11,939	13,945	17,157	19,023	22,834	
2006	6,489	9,861	12,356	14,433	17,757	19,689	23,633	
2007	6,716	10,206	12,789	14,938	18,379	20,378	24,461	
2008	6,951	10,563	13,237	15,461	19,022	21,091	25,317	
2009	7,194	10,933	13,700	16,002	19,688	21,829	26,203	
2010	7,446	11,315	14,179	16,562	20,377	22,593		
2011	7,706	11,711	14,676	17,141	21,090			
2012	7,976	12,121	15,189	17,741				
2013	8,255	12,545	15,721					
2014	8,544	12,985						
2015	8,843							

- (a) Represents average paid indemnity on closed claims only. All evaluations are brought to the accident year 2015 benefit level based on benefit factors shown in AC16-03-02, Exhibit 4.1, excluding utilization impacts.
- (b) Trend is based on an all-year exponential distribution.
- (c) Latest evaluation for each accident year is brought to the accident year 2015 benefit level based on benefit factors shown in AC16-03-02, 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 3.5%.

Incurred Indemnity Loss Development Factors Adjusted for Changes in Case Reserve Adequacy

D. Indemnity Open 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		
2000							13,507		
2001						27,297	20,932		
2002					38,689	28,564	21,745		
2003				51,055	36,281	26,670	20,405		
2004			58,495	40,945	29,124	22,273	17,807		
2005		66,350	48,281	33,470	24,755	19,275	15,329		
2006	71,964	53,808	38,323	27,581	20,486	15,909	12,641		
2007	78,183	60,659	44,629	32,593	24,543	19,174	13,919		
2008	72,650	60,073	45,251	33,396	25,000	17,958	13,439		
2009	67,119	58,680	44,882	33,203	23,801	17,599	13,101		
2010	68,069	60,187	45,775	32,281	22,981	16,716			
2011	66,931	60,037	44,361	31,311	21,973				
2012	70,057	62,436	45,470	31,446					
2013	75,539	66,000	46,783						
2014	78,401	66,934							
2015	80,556								

E. Total Indemnity Case Reserves Adjusted to Common Benefit Level and by Paid Indemnity Severity Trend (in \$000) (d)

Accident	Evaluated as of (in months)									
<u>Year</u>		<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	84			
2000							259,683			
2001						452,517	416,520			
2002					598,684	490,094	447,842			
2003				664,606	581,072	473,613	434,953			
2004			674,735	551,654	482,772	409,373	392,859			
2005		632,126	576,410	466,726	424,712	366,670	350,026			
2006	466,950	530,579	473,538	398,068	363,772	313,231	298,750			
2007	525,058	619,068	570,759	486,868	451,066	390,728	340,467			
2008	504,976	634,546	598,969	516,324	475,546	378,757	340,231			
2009	482,860	641,526	614,878	531,307	468,585	384,176	343,283			
2010	506,834	681,031	649,060	534,632	468,276	377,672				
2011	515,803	703,111	651,026	536,717	463,407					
2012	558,790	756,798	690,657	557,897						
2013	623,603	827,998	735,472							
2014	669,883	869,106								
2015	712,387									

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

Accident	Evaluated as of (in months)									
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>			
2000							2,533,824			
2001						3,538,817	3,718,943			
2002					3,407,169	3,666,961	3,837,235			
2003				2,627,013	2,964,275	3,180,178	3,318,969			
2004			1,533,844	1,900,025	2,120,749	2,276,089	2,388,486			
2005		1,138,023	1,723,126	2,129,112	2,386,829	2,575,497	2,731,725			
2006	333,350	938,097	1,426,164	1,739,659	1,966,647	2,141,402	2,286,301			
2007	378,474	1,095,633	1,690,950	2,104,218	2,398,795	2,620,719	2,793,686			
2008	367,274	1,071,416	1,688,079	2,145,953	2,470,581	2,699,556	2,862,820			
2009	331,671	1,017,182	1,641,291	2,099,751	2,427,228	2,651,457	2,812,637			
2010	328,693	1,035,172	1,681,959	2,153,628	2,468,862	2,693,865				
2011	325,919	1,041,970	1,677,143	2,123,733	2,430,461					
2012	347,199	1,090,284	1,740,269	2,198,307						
2013	367,878	1,165,784	1,872,284							
2014	352,600	1,139,138								
2015	370,744									

⁽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 2015 benefit level based on benefit factors shown in AC16-03-02, Exhibit 4.1, excluding utilization impacts.

Incurred Indemnity Loss Development Factors Adjusted for Changes in Case Reserve Adequacy

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

Accident		Evaluated as of (in months)									
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>				
2000							2,793,507				
2001						3,991,334	4,135,463				
2002					4,005,853	4,157,055	4,285,076				
2003				3,291,619	3,545,347	3,653,791	3,753,922				
2004			2,208,579	2,451,679	2,603,521	2,685,462	2,781,345				
2005		1,770,148	2,299,536	2,595,839	2,811,541	2,942,168	3,081,750				
2006	800,300	1,468,676	1,899,702	2,137,727	2,330,419	2,454,633	2,585,052				
2007	903,533	1,714,701	2,261,709	2,591,086	2,849,861	3,011,447	3,134,153				
2008	872,250	1,705,961	2,287,048	2,662,276	2,946,126	3,078,313	3,203,051				
2009	814,531	1,658,708	2,256,168	2,631,057	2,895,812	3,035,634	3,155,920				
2010	835,527	1,716,203	2,331,019	2,688,261	2,937,139	3,071,538					
2011	841,721	1,745,081	2,328,169	2,660,451	2,893,868						
2012	905,989	1,847,082	2,430,926	2,756,204							
2013	991,481	1,993,782	2,607,755								
2014	1,022,483	2,008,243									
2015	1,083,130										

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

Accident	Age-to-Age Development (in months):							
<u>Year</u>	<u>12-24</u>	24-36	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	72-84		
2001						1.036		
2002					1.038	1.031		
2003				1.077	1.031	1.027		
2004			1.110	1.062	1.031	1.036		
2005		1.299	1.129	1.083	1.046	1.047		
2006	1.835	1.293	1.125	1.090	1.053	1.053		
2007	1.898	1.319	1.146	1.100	1.057	1.041		
2008	1.956	1.341	1.164	1.107	1.045	1.041		
2009	2.036	1.360	1.166	1.101	1.048	1.040		
2010	2.054	1.358	1.153	1.093	1.046			
2011	2.073	1.334	1.143	1.088				
2012	2.039	1.316	1.134					
2013	2.011	1.308						
2014	1.964							
Latest Year	1.964	1.308	1.134	1.088	1.046	1.040		

$\underline{\text{I. Indemnity Incurred Loss Development Factors Adjusted to Common Benefit Leve}} | (g)$

Accident	Age-to-Age Development (in months):									
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	60-72	72-84				
2001						1.022				
2002					1.033	1.018				
2003				1.056	1.033	1.022				
2004			1.085	1.041	1.042	1.027				
2005		1.215	1.099	1.069	1.053	1.041				
2006	1.624	1.221	1.105	1.080	1.052	1.033				
2007	1.777	1.273	1.121	1.070	1.049	1.037				
2008	1.856	1.304	1.136	1.075	1.045	1.030				
2009	1.985	1.293	1.142	1.077	1.048	1.024				
2010	1.983	1.313	1.131	1.070	1.045					
2011	1.991	1.273	1.134	1.062						
2012	1.991	1.279	1.113							
2013	1.938	1.258								
2014	1.960									

⁽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.

Incurred Indemnity Loss Development Factors Adjusted for Changes in Case Reserve Adequacy

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

Accident	Age-to-Age Development (in months):									
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	<u>72-84</u>				
2001						1.39%				
2002					0.42%	1.26%				
2003				1.98%	-0.25%	0.58%				
2004			2.35%	2.01%	-0.98%	0.86%				
2005		6.90%	2.70%	1.36%	-0.67%	0.59%				
2006	12.99%	5.90%	1.88%	0.97%	0.16%	1.91%				
2007	6.80%	3.61%	2.20%	2.75%	0.71%	0.40%				
2008	5.36%	2.79%	2.48%	2.97%	-0.01%	1.02%				
2009	2.60%	5.22%	2.10%	2.24%	-0.01%	1.57%				
2010	3.60%	3.41%	1.95%	2.11%	0.06%					
2011	4.15%	4.77%	0.81%	2.46%						
2012	2.38%	2.88%	1.88%							
2013	3.76%	3.98%								
2014	0.21%									

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

Accident	Age-to-Age Development (in months):						
<u>Year</u>	12-24	<u>24-36</u>	<u>36-48</u>	48-60	60-72	72-84	
2001						1.035	
2002					1.037	1.031	
2003				1.077	1.030	1.027	
2004			1.108	1.063	1.031	1.035	
2005		1.302	1.128	1.083	1.046	1.046	
2006	1.910	1.321	1.132	1.090	1.055	1.055	
2007	1.905	1.319	1.145	1.099	1.056	1.041	
2008	1.958	1.338	1.164	1.106	1.045	1.041	
2009	2.035	1.361	1.166	1.100	1.048	1.040	
2010	2.066	1.360	1.153	1.092	1.046		
2011	2.080	1.338	1.142	1.088			
2012	2.039	1.316	1.135				
2013	2.004	1.310					
2014	1.965						
Latest Year	1.965	1.310	1.135	1.088	1.046	1.040	

⁽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 AC16-03-02, Exhibit 2.1.1].

Incurred Medical Loss Development Factors Adjusted for Changes in Case Reserve Adequacy

A. Medical Case Reserves Per Open 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>		
2000							36,001		
2001						26,752	34,583		
2002					20,315	26,683	33,511		
2003				17,616	21,602	28,978	36,790		
2004			14,307	18,687	24,531	30,573	39,354		
2005		13,805	17,461	21,082	25,502	34,318	42,799		
2006	12,590	16,437	21,182	25,670	32,240	39,814	47,629		
2007	12,946	16,807	20,965	26,518	32,682	40,114	51,272		
2008	14,053	17,937	22,535	27,708	33,945	42,344	51,434		
2009	14,265	18,460	23,011	28,134	34,332	42,103	49,069		
2010	14,620	18,576	23,059	28,227	34,432	40,112			
2011	15,624	20,172	24,585	30,683	37,321				
2012	15,905	20,033	24,249	28,335					
2013	15,603	19,986	22,914						
2014	15,362	18,877							
2015	15,948								

B. Average Paid Medical Loss Per Claim Adjusted to the Common Benefit Level (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	
2000							4,367	
2001						4,508	4,768	
2002					4,671	5,013	5,303	
2003				4,224	4,702	5,073	5,365	
2004			3,686	4,414	4,989	5,441	5,834	
2005		2,555	3,403	4,137	4,699	5,146	5,522	
2006	1,306	2,678	3,744	4,544	5,155	5,668	6,104	
2007	1,411	3,011	4,198	5,114	5,829	6,431	6,967	
2008	1,625	3,359	4,711	5,808	6,710	7,430	7,960	
2009	1,733	3,673	5,232	6,579	7,650	8,434	8,990	
2010	1,761	3,806	5,556	7,030	8,070	8,836		
2011	1,770	4,030	5,892	7,315	8,348			
2012	1,895	4,147	5,930	7,303				
2013	2,036	4,320	6,162					
2014	2,067	4,408						
2015	2,063							
Annual Trend (b):	5.1%	6.5%	7.4%	7.8%	7.8%	7.7%	7.4%	

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

Accident	Evaluated as of (in months)								
Year	<u>12</u>	<u>24</u>	<u>36</u>	48	<u>60</u>	<u>72</u>	84		
2000							24,269		
2001						19,780	25,968		
2002					18,349	21,165	27,786		
2003				14,057	19,633	22,646	29,731		
2004			11,999	15,041	21,007	24,231	31,812		
2005		10,341	12,839	16,094	22,478	25,928	34,039		
2006	8,675	11,065	13,738	17,221	24,051	27,742	36,422		
2007	9,282	11,840	14,699	18,426	25,735	29,684	38,971		
2008	9,932	12,669	15,728	19,716	27,536	31,762	41,699		
2009	10,627	13,556	16,829	21,096	29,464	33,986	44,618		
2010	11,371	14,504	18,007	22,573	31,526	36,365			
2011	12,167	15,520	19,268	24,153	33,733				
2012	13,018	16,606	20,617	25,844					
2013	13,930	17,769	22,060						
2014	14,905	19,012							
2015	15,948								

⁽a) Represents average paid medical on all claims. All evaluations are brought to the accident year 2015 benefit level based on benefit factors shown in AC16-03-02, Exhibit 4.4, excluding utilization impacts.

⁽b) Trend is based on an all-year exponential distribution.

⁽c) Latest evaluation for each accident year is brought to the accident year 2015 benefit level based on benefit factors shown in AC16-03-02, 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 7.0%.

Incurred Medical Loss Development Factors Adjusted for Changes in Case Reserve Adequacy

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

Accident	ent 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	
2000							327,806	
2001						539,935	543,567	
2002					709,892	604,546	604,207	
2003				717,691	712,308	603,972	606,661	
2004			701,885	615,863	611,820	539,705	566,480	
2005		686,155	619,879	538,670	556,441	499,754	521,785	
2006	624,262	595,404	526,471	474,964	492,716	441,355	460,408	
2007	725,684	718,198	656,018	600,563	631,613	569,170	542,442	
2008	721,530	761,048	711,722	658,435	688,410	570,389	560,397	
2009	713,260	795,438	755,332	700,454	701,272	598,115	584,544	
2010	773,991	872,977	824,286	728,673	724,509	607,873		
2011	814,324	931,757	854,742	756,252	741,222			
2012	912,022	1,036,818	937,437	812,678				
2013	1,052,226	1,172,723	1,032,022					
2014	1,168,539	1,272,571						
2015	1,284,704							

E. Paid Medical 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>	48	<u>60</u>	<u>72</u>	84			
2000							1,681,075			
2001						2,241,387	2,377,165			
2002					2,383,181	2,565,062	2,716,414			
2003				2,045,282	2,285,006	2,468,096	2,612,599			
2004			1,711,143	2,054,828	2,328,997	2,541,462	2,726,224			
2005		1,133,446	1,537,274	1,874,985	2,133,283	2,339,670	2,511,216			
2006	432,788	998,553	1,405,041	1,716,045	1,953,952	2,149,455	2,312,814			
2007	506,713	1,237,585	1,745,737	2,138,627	2,442,258	2,696,598	2,921,654			
2008	556,444	1,287,564	1,826,839	2,266,072	2,623,493	2,909,867	3,120,384			
2009	515,680	1,240,173	1,792,074	2,262,865	2,641,230	2,916,910	3,113,051			
2010	521,261	1,282,999	1,892,964	2,407,629	2,772,483	3,038,404				
2011	510,702	1,325,443	1,961,871	2,446,966	2,801,834					
2012	548,892	1,402,643	2,039,805	2,533,081						
2013	607,788	1,507,218	2,193,088							
2014	641,562	1,616,983								
2015	665,336									

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

Accident	Evaluated as of (in months)						
Year		<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2000							2,008,881
2001						2,781,321	2,920,732
2002					3,093,073	3,169,608	3,320,621
2003				2,762,973	2,997,314	3,072,069	3,219,261
2004			2,413,028	2,670,691	2,940,817	3,081,167	3,292,704
2005		1,819,601	2,157,153	2,413,655	2,689,724	2,839,423	3,033,000
2006	1,057,050	1,593,957	1,931,511	2,191,009	2,446,668	2,590,810	2,773,221
2007	1,232,396	1,955,783	2,401,754	2,739,191	3,073,871	3,265,768	3,464,095
2008	1,277,974	2,048,611	2,538,561	2,924,506	3,311,903	3,480,256	3,680,781
2009	1,228,940	2,035,611	2,547,407	2,963,318	3,342,502	3,515,025	3,697,595
2010	1,295,251	2,155,976	2,717,251	3,136,302	3,496,992	3,646,276	
2011	1,325,026	2,257,200	2,816,613	3,203,218	3,543,056		
2012	1,460,915	2,439,462	2,977,242	3,345,760			
2013	1,660,014	2,679,940	3,225,111				
2014	1,810,100	2,889,554					
2015	1,950,041						

⁽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 2015 benefit level based on benefit factors shown in AC16-03-02, 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).

Incurred Medical Loss Development Factors Adjusted for Changes in Case Reserve Adequacy

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

Accident		Age-to	-Age Developm	ent (in months):		
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	72-84
2001						1.050
2002					1.025	1.048
2003				1.085	1.025	1.048
2004			1.107	1.101	1.048	1.069
2005		1.186	1.119	1.114	1.056	1.068
2006	1.508	1.212	1.134	1.117	1.059	1.070
2007	1.587	1.228	1.140	1.122	1.062	1.061
2008	1.603	1.239	1.152	1.132	1.051	1.058
2009	1.656	1.251	1.163	1.128	1.052	1.052
2010	1.665	1.260	1.154	1.115	1.043	
2011	1.704	1.248	1.137	1.106		
2012	1.670	1.220	1.124			
2013	1.614	1.203				
2014	1.596					
Latest Year	1.596	1.203	1.124	1.106	1.043	1.052

$\underline{\text{H. Medical Incurred Loss Development Factors Adjusted to Common Benefit Level}} \; (g)$

Accident		Age-to	-Age Developm	ent (in months):		
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	72-84
2001						1.048
2002					1.057	1.042
2003				1.059	1.062	1.043
2004			1.111	1.082	1.060	1.064
2005		1.168	1.090	1.074	1.086	1.056
2006	1.427	1.186	1.099	1.081	1.066	1.049
2007	1.514	1.199	1.126	1.084	1.071	1.051
2008	1.526	1.214	1.128	1.092	1.061	1.041
2009	1.605	1.227	1.140	1.087	1.061	1.030
2010	1.613	1.241	1.135	1.079	1.045	
2011	1.662	1.218	1.125	1.069		
2012	1.625	1.197	1.099			
2013	1.594	1.161				
2014	1.558					

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

Accident		Age-t	o-Age Developm	ent (in months):		
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	72-84
2001						0.16%
2002					-3.04%	0.56%
2003				2.46%	-3.47%	0.50%
2004			-0.36%	1.79%	-1.19%	0.44%
2005		1.47%	2.68%	3.73%	-2.80%	1.13%
2006	5.70%	2.21%	3.22%	3.26%	-0.68%	2.05%
2007	4.81%	2.46%	1.31%	3.51%	-0.76%	0.91%
2008	5.05%	2.06%	2.13%	3.67%	-0.92%	1.61%
2009	3.19%	1.96%	2.08%	3.73%	-0.88%	2.15%
2010	3.17%	1.56%	1.72%	3.32%	-0.20%	
2011	2.48%	2.45%	1.11%	3.50%		
2012	2.76%	1.93%	2.29%			
2013	1.30%	3.63%				
2014	2.46%					

⁽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.

Incurred Medical Loss Development Factors Adjusted for Changes in Case Reserve Adequacy

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

Accident		Age-to	-Age Developn	nent (in months	s):	
Year	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	72-84
2001						1.047
2002					1.024	1.046
2003				1.085	1.023	1.047
2004			1.109	1.100	1.047	1.066
2005		1.189	1.116	1.114	1.054	1.067
2006	1.543	1.222	1.139	1.116	1.059	1.069
2007	1.591	1.234	1.139	1.119	1.062	1.060
2008	1.604	1.237	1.153	1.132	1.051	1.058
2009	1.655	1.251	1.164	1.128	1.052	1.052
2010	1.671	1.264	1.154	1.113	1.043	
2011	1.708	1.252	1.138	1.107		
2012	1.671	1.220	1.124			
2013	1.612	1.206				
2014	1.599					
Latest Year	1.599	1.206	1.124	1.107	1.043	1.052

⁽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 AC16-03-02, Exhibit 2.2.1].

Developed Loss Ratios Using Latest Year Incurred Development Factors Adjusted for Changes in Case Reserve Adequacy Based on Experience as of December 31, 2015

	(1)	(2) Indem	(3)	(4)	(5)	(6) Med	(7)	(8)	(9)
-					-				•
	Incurred	Annual	Cumulative		Incurred	Annual	Cumulative		Total
Accident	Loss Ratio	Development	Development	Developed	Loss Ratio	Development	Development	Developed	Developed
<u>Year</u>	Ex IBNR(a)	Factor(b)	<u>Factor</u>	Loss Ratio (1) x (3)	Ex IBNR(a)	Factor(c)	<u>Factor</u>	Loss Ratio (5) x (7)	Loss Ratio (4) + (8)
2005	0.121	1.006	1.026	0.124	0.182	1.010	1.115	0.203	0.327
2006	0.155	1.007	1.033	0.161	0.233	1.012	1.128	0.263	0.424
2007	0.211	1.012	1.046	0.221	0.323	1.019	1.150	0.372	0.593
2008	0.264	1.012	1.058	0.280	0.396	1.018	1.170	0.463	0.743
2009	0.301	1.019	1.078	0.325	0.451	1.026	1.201	0.542	0.867
2010	0.283	1.040	1.121	0.318	0.426	1.052	1.263	0.539	0.856
2011	0.254	1.046	1.173	0.298	0.361	1.043	1.318	0.476	0.774
2012	0.214	1.088	1.276	0.274	0.292	1.107	1.459	0.426	0.699
2013	0.167	1.135	1.448	0.242	0.222	1.124	1.640	0.364	0.606
2014	0.124	1.310	1.897	0.235	0.170	1.206	1.979	0.335	0.570
2015	0.064	1.965	3.728	0.238	0.111	1.599	3.165	0.350	0.588

⁽a) Based on AC 16-03-02, 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 2010 to 2015 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 2010 are selected as the age-to-age factors shown in AC 16-03-02, Exhibit 2.1.

⁽c) Age-to-age factors for developing accident years 2010 to 2015 were adjusted for changes in medical case reserve levels based on estimated annual medical severity trend on all claims (see Exhibit 3.8, Item J). Age-to-age factors for developing accident years prior to 2010 are selected as the age-to-age factors shown in AC 16-03-02, 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 Case Reserve Adequacy Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4) On-Level Indemnity to
Accident <u>Year</u>	Developed Indemnity Loss Ratio(a)	Composite Indemnity Adjustment Factor(b)	Composite Premium Adjustment Factor(c)	Industry Average Filed Pure Premium Ratio (1)×(2)÷(3)
2005	0.124	1.387	0.762	0.226
2006	0.161	1.370	0.979	0.225
2007	0.221	1.328	1.252	0.234
2008	0.280	1.250	1.513	0.231
2009	0.325	1.226	1.630	0.244
2010	0.318	1.209	1.482	0.259
2011	0.298	1.190	1.351	0.263
2012	0.274	1.162	1.203	0.264
2013	0.242	1.170	1.058	0.268
2014	0.235	1.061	0.978	0.255
2015	0.238	1.041	0.945	0.262
				Projections (d)

 2016
 0.256

 4/1/2017
 0.254

⁽a) See Exhibit 3.9.

⁽b) Based on AC 16-03-02, Exhibit 4.1.

⁽c) See AC 16-03-02, Exhibit 5.2.

⁽d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC 16-03-02, Exhibit 6.2, the actual frequency trend for accident year 2015 from AC 16-03-02, Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 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 Case Reserve Adequacy Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)
Accident <u>Year</u>	Developed Medical Loss Ratio(a)	Composite Medical On-Level Factor(b)	Composite Premium Adjustment Factor(c)	On-Level Medical to Industry Average Filed Pure Premium Ratio(e) (1)×(2)÷(3)
2005	0.203	0.928	0.762	0.247
2006	0.263	0.975	0.979	0.262
2007	0.372	0.957	1.252	0.284
2008	0.463	0.951	1.513	0.291
2009	0.542	0.937	1.630	0.312
2010	0.539	0.935	1.482	0.340
2011	0.476	0.932	1.351	0.328
2012	0.426	0.940	1.203	0.333
2013	0.364	0.994	1.058	0.342
2014	0.335	1.027	0.978	0.352
2015	0.350	1.020	0.945	0.378
				Projections (d)

2016 0.376 4/1/2017 0.380

- (a) See Exhibit 3.9.
- (b) Based on AC 16-03-02, Exhibit 4.4.
- (c) See AC 16-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected based on an estimated annual medical severity trend from AC 16-03-02, Exhibit 6.4, the actual frequency trend for accident year 2015 from AC 16-03-02, Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1, these trends were then separately applied to the 2014 and 2015 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.

Developed Loss Ratios Using Unadjusted 3-Year Average Paid Development Factors Based on Experience as of December 31, 2015

	(1)	(2) Indem	(3)	(4)	(5)	(6) Medio	(7)	(8)	(9)
	Reported	Annual	Cumulative		Reported	Annual	Cumulative		Total
Accident	Paid	Development	Development	Developed	Paid	Development	Development	Developed	Developed
<u>Year</u>	Loss Ratio(a)	Factor(b)	<u>Factor</u>	Loss Ratio (1) x (3)	Loss Ratio(a)	Factor(c)	<u>Factor</u>	Loss Ratio (5) x (7)	Loss Ratio (4) + (8)
2005	0.113	1.015	1.095	0.123	0.159	1.024	1.343	0.214	0.337
2006	0.143	1.020	1.117	0.160	0.202	1.032	1.386	0.280	0.440
2007	0.193	1.028	1.148	0.221	0.277	1.036	1.436	0.398	0.619
2008	0.240	1.037	1.190	0.285	0.338	1.044	1.499	0.506	0.791
2009	0.268	1.046	1.244	0.334	0.380	1.055	1.581	0.601	0.935
2010	0.248	1.062	1.322	0.328	0.355	1.071	1.694	0.602	0.930
2011	0.214	1.092	1.443	0.309	0.280	1.101	1.865	0.523	0.831
2012	0.171	1.149	1.659	0.284	0.216	1.153	2.149	0.464	0.748
2013	0.120	1.270	2.107	0.253	0.146	1.252	2.691	0.393	0.646
2014	0.070	1.606	3.384	0.238	0.090	1.461	3.930	0.355	0.592
2015	0.022	3.180	10.761	0.235	0.035	2.520	9.906	0.348	0.583

⁽a) Based on AC 16-03-02, Exhibit 1.

⁽b) Age-to-age factors are selected as three-year averages based on AC 16-03-02, Exhibit 2.5.

⁽c) Age-to-age factors are selected as three-year averages based on AC 16-03-02, Exhibit 2.6. These factors have not been adjusted for the SB 863 reforms or RBRVS.

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, 2015

	(1)	(2)	(3)	(4) On-Level Indemnity to
Accident <u>Year</u>	Developed Indemnity <u>Loss Ratio(a)</u>	Composite Indemnity Adjustment Factor(b)	Composite Premium Adjustment Factor(c)	Industry Average Filed Pure Premium Ratio (1)×(2)÷(3)
2005	0.123	1.387	0.762	0.224
2006	0.160	1.370	0.979	0.224
2007	0.221	1.328	1.252	0.235
2008	0.285	1.250	1.513	0.236
2009	0.334	1.226	1.630	0.251
2010	0.328	1.209	1.482	0.268
2011	0.309	1.190	1.351	0.272
2012	0.284	1.162	1.203	0.274
2013	0.253	1.170	1.058	0.280
2014	0.238	1.061	0.978	0.258
2015	0.235	1.041	0.945	0.258
				Projections (d)
2016				0.256
4/1/2017				0.254

⁽a) See Exhibit 4.1.

⁽b) Based on AC 16-03-02, Exhibit 4.1.

⁽c) See AC 16-03-02, Exhibit 5.2.

⁽d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC 16-03-02, Exhibit 6.2, the actual frequency trend for accident year 2015 from AC 16-03-02, Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 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, 2015

	(1)	(2)	(3)	(4) On-Level Medical to
Accident	Developed Medical	Composite Medical	Composite Premium	Industry Average Filed
<u>Year</u>	Loss Ratio(a)	On-Level Factor(b)	Adjustment Factor(c)	Pure Premium Ratio(e)
				$(1) \times (2) \div (3)$
2005	0.214	0.928	0.762	0.261
2006	0.280	0.975	0.979	0.279
2007	0.398	0.957	1.252	0.304
2008	0.506	0.951	1.513	0.318
2009	0.601	0.937	1.630	0.346
2010	0.602	0.935	1.482	0.379
2011	0.523	0.932	1.351	0.361
2012	0.464	0.940	1.203	0.363
2013	0.393	0.994	1.058	0.369
2014	0.355	1.027	0.978	0.373
2015	0.348	1.020	0.945	0.376

Projections (d) 2016 0.385 4/1/2017 0.389

- (a) See Exhibit 4.1.
- (b) Based on AC 16-03-02, Exhibit 4.4.
- (c) See AC 16-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected based on an estimated annual medical severity trend from AC 16-03-02, Exhibit 6.4, the actual frequency trend for accident year 2015 from AC 16-03-02, Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 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 Using Unadjusted Paid Development Factors Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		Indem	nity			Medical			
		Annual	Cumulative			Annual	Cumulative		Total
Accident	Paid	Development	Development	Developed	Paid	Development	Development	Developed	Developed
<u>Year</u>	Loss Ratio(a)	Factor(b)	<u>Factor</u>	Loss Ratio (1) x (3)	Loss Ratio(a)	Factor(c)	<u>Factor</u>	Loss Ratio (5) x (7)	$\frac{\text{Loss Ratio}}{(4) + (8)}$
2005	0.113	1.015	1.095	0.123	0.159	1.024	1.343	0.214	0.337
2006	0.143	1.020	1.117	0.160	0.202	1.032	1.386	0.280	0.440
2007	0.193	1.028	1.148	0.221	0.277	1.036	1.436	0.398	0.619
2008	0.240	1.033	1.186	0.284	0.338	1.041	1.495	0.505	0.789
2009	0.268	1.041	1.235	0.331	0.380	1.051	1.571	0.597	0.928
2010	0.248	1.061	1.310	0.325	0.355	1.067	1.676	0.595	0.921
2011	0.214	1.091	1.429	0.306	0.280	1.096	1.837	0.515	0.821
2012	0.171	1.145	1.636	0.280	0.216	1.146	2.105	0.455	0.735
2013	0.120	1.264	2.068	0.248	0.146	1.243	2.617	0.382	0.630
2014	0.070	1.608	3.326	0.234	0.090	1.457	3.812	0.344	0.578
2015	0.022	3.233	10.752	0.234	0.035	2.525	9.626	0.338	0.573

⁽a) Based on AC 16-03-02, Exhibit 1.

⁽b) Age-to-age factors are selected as latest year for 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 AC 16-03-02, Exhibit 2.5.

⁽c) Age-to-age factors are selected as latest year for 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 AC 16-03-02, Exhibit 2.6. These factors have not been adjusted for the SB 863 reforms or RBRVS.

Projected On-Level Accident Year Indemnity Loss to Industry Average Filed Pure Premium Ratios Based on Unadjusted Paid Selections Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)
Accident <u>Year</u>	Developed Indemnity <u>Loss Ratio(a)</u>	Composite Indemnity Adjustment Factor(b)	Composite Premium Adjustment Factor(c)	On-Level Indemnity to Industry Average Filed Pure Premium Ratio (1)×(2)÷(3)
2005	0.123	1.387	0.762	0.224
2006	0.160	1.370	0.979	0.224
2007	0.221	1.328	1.252	0.235
2008	0.284	1.250	1.513	0.235
2009	0.331	1.226	1.630	0.249
2010	0.325	1.209	1.482	0.265
2011	0.306	1.190	1.351	0.269
2012	0.280	1.162	1.203	0.270
2013	0.248	1.170	1.058	0.275
2014	0.234	1.061	0.978	0.253
2015	0.234	1.041	0.945	0.258
				Projections (d)

 2016
 0.254

 4/1/2017
 0.251

⁽a) See Exhibit 5.1.

⁽b) Based on AC 16-03-02, Exhibit 4.1.

⁽c) See AC 16-03-02, Exhibit 5.2.

⁽d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC 16-03-02, Exhibit 6.2, the actual frequency trend for accident year 2015 from AC 16-03-02, Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 on-level ratios.

Projected On-Level Accident Year Medical Loss to Industry Average Filed Pure Premium Ratios Based on Unadjusted Paid Selections Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)
				On-Level Medical to
Accident	Developed Medical	Composite Medical	Composite Premium	Industry Average Filed
<u>Year</u>	Loss Ratio(a)	On-Level Factor(b)	Adjustment Factor(c)	Pure Premium Ratio(e)
				(1)×(2)÷(3)
2005	0.214	0.928	0.762	0.261
2006	0.280	0.975	0.979	0.279
2007	0.398	0.957	1.252	0.304
2008	0.505	0.951	1.513	0.317
2009	0.597	0.937	1.630	0.343
2010	0.595	0.935	1.482	0.375
2011	0.515	0.932	1.351	0.355
2012	0.455	0.940	1.203	0.355
2013	0.382	0.994	1.058	0.359
2014	0.344	1.027	0.978	0.362
2015	0.338	1.020	0.945	0.365

Projections (d) 2016 0.374 4/1/2017 0.378

- (b) Based on AC 16-03-02, Exhibit 4.4.
- (c) See AC 16-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected based on an estimated annual medical severity trend from AC 16-03-02, Exhibit 6.4, the actual frequency trend for accident year 2015 from AC 16-03-02, Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 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.

⁽a) See Exhibit 5.1.

Developed Loss Ratios Using Unadjusted Paid Development Factors Through 372 Months Based on Experience as of December 31, 2015

	(1)	(2) Indem	(3) nitv	(4)	(5)	(6)	(7) Medical	(8)	(9)	(10)
		Annual	Cumulative				Adju	sted		Total
Accident	Paid	Development	Development	Developed	Paid	Paid	Developn	nent Factors	Developed	Developed
<u>Year</u>	Loss Ratio(a)	<u>Factor</u>	<u>Factor</u>	Loss Ratio (1) x (3)	Loss Ratio(a)	Loss Ratio(b)	<u>Annual</u>	Cumulative	Loss Ratio (5) x (7)	Loss Ratio (4) + (8)
2005	0.113	1.015	1.086	0.122	0.159	0.151	1.025	1.340	0.203	0.325
2006	0.143	1.020	1.108	0.159	0.202	0.192	1.033	1.384	0.266	0.425
2007	0.193	1.028	1.139	0.219	0.277	0.264	1.038	1.437	0.380	0.599
2008	0.240	1.033	1.177	0.282	0.338	0.322	1.044	1.500	0.484	0.766
2009	0.268	1.041	1.225	0.329	0.380	0.364	1.054	1.582	0.576	0.905
2010	0.248	1.061	1.300	0.323	0.355	0.343	1.070	1.692	0.580	0.902
2011	0.214	1.091	1.411	0.302	0.280	0.273	1.100	1.861	0.507	0.809
2012	0.171	1.145	1.615	0.276	0.216	0.213	1.151	2.143	0.456	0.732
2013	0.120	1.264	2.087	0.250	0.146	0.146	1.247	2.672	0.389	0.640
2014	0.070	1.608	3.550	0.249	0.090	0.090	1.458	3.895	0.352	0.602
2015	0.022	3.233	11.478	0.250	0.035	0.035	2.516	9.801	0.344	0.595

⁽a) Based on AC 16-03-02, Exhibit 1.

⁽b) Based on experience evaluated as of December 31, 2015. These medical paid loss ratios reflect the following: (i) an adjustment for SB 863 of -4.4% applied to payments made before January 1, 2013, (ii) an adjustment to historical outstanding medical losses paid prior to January 1, 2014 by an estimated 1.8% decrease in costs, and losses paid prior to January 1, 2015 by an estimated 0.6% increase in costs due to RBRVS.

Projected On-Level Accident Year Indemnity Loss to Industry Average Filed Pure Premium Ratios Based on Unadjusted Paid Selections Through 372 Months Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)
Accident <u>Year</u>	Developed Indemnity Loss Ratio(a)	Composite Indemnity Adjustment Factor(b)	Composite Premium Adjustment Factor(c)	On-Level Indemnity to Industry Average Filed Pure Premium Ratio (1)×(2)÷(3)
2005	0.122	1.387	0.762	0.223
2006	0.159	1.370	0.979	0.222
2007	0.219	1.328	1.252	0.233
2008	0.282	1.250	1.513	0.233
2009	0.329	1.226	1.630	0.247
2010	0.323	1.209	1.482	0.263
2011	0.302	1.196	1.351	0.267
2012	0.276	1.168	1.203	0.268
2013	0.250	1.170	1.058	0.277
2014	0.249	1.061	0.978	0.270
2015	0.250	1.041	0.945	0.276
				Projections (d)

2016 0.271 4/1/2017 0.268

⁽a) See Exhibit 6.1.

⁽b) Based on AC 16-03-02, Exhibit 4.1.

⁽c) See AC 16-03-02, Exhibit 5.2.

⁽d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC 16-03-02, Exhibit 6.2, the actual frequency trend for accident year 2015 from AC 16-03-02, Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 on-level ratios.

Projected On-Level Accident Year Medical Loss to Industry Average Filed Pure Premium Ratios Based on Unadjusted Paid Selections Through 372 Months Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)
	5		0 " 0 "	On-Level Medical to
Accident	Developed Medical	Composite Medical	Composite Premium	Industry Average Filed
<u>Year</u>	Loss Ratio(a)	On-Level Factor(b)	<u>Adjustment Factor(c)</u>	Pure Premium Ratio(e)
				$(1)\times(2)\div(3)$
2005	0.203	0.983	0.762	0.262
2006	0.266	1.033	0.979	0.281
2007	0.380	1.013	1.252	0.307
2008	0.484	1.006	1.513	0.322
2009	0.576	0.992	1.630	0.351
2010	0.580	0.989	1.482	0.387
2011	0.507	0.986	1.351	0.370
2012	0.456	0.995	1.203	0.377
2013	0.389	1.006	1.058	0.370
2014	0.352	1.021	0.978	0.368
2015	0.344	1.019	0.945	0.371

Projections (d) 2016 0.381 4/1/2017 0.384

- (a) See Exhibit 6.1.
- (b) Based on AC 16-03-02, Exhibit 4.4.
- (c) See AC 16-03-02, Exhibit 5.2.
- These on-level ratios were projected based on an estimated annual medical severity trend from AC 16-03-02, Exhibit 6.4, the actual frequency trend for accident year 2015 from AC 16-03-02, Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 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.

A. Total Reported Indemnity Claim Counts

Accident	Evaluated as of (in months)							
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>	
2006							109,719	
2007						123,992	124,046	
2008					120,138	120,508	120,712	
2009				113,694	114,344	114,734	114,966	
2010			116,659	117,967	118,711	119,149		
2011		113,818	117,477	119,057	119,975			
2012	96,927	120,507	124,692	126,504				
2013	103,408	128,407	132,859					
2014	107,284	133,655						
2015	111,170							

B. Development of Total Reported Indemnity Claim Counts

Accident		А	ge-to-Age De	evelopment (i	n months):		
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	<u>72-84</u>	84-Ultimate
2006						1.000	
2007					1.002	1.000	
2008				1.005	1.003	1.002	
2009			1.011	1.006	1.003	1.002	
2010		1.030	1.011	1.006	1.004		
2011	1.231	1.032	1.013	1.008			
2012	1.243	1.035	1.015				
2013	1.242	1.035					
2014	1.246						
Latest Year	1.246	1.035	1.015	1.008	1.004	1.002	
Cumulative	1.331	1.068	1.032	1.018	1.010	1.006	1.004
Acc. Year	2015	2014	2013	2012	2011	2010	2009
Ult. Claim Counts	147,944	142,772	137,166	128,735	121,156	119,880	115,438

C. Closed Indemnity Claim Counts

Accident	Evaluated as of (in months)							
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>	
2006							97,078	
2007						104,818	110,127	
2008					95,138	102,550	107,273	
2009				80,491	90,543	97,135	101,865	
2010			70,884	85,686	95,730	102,433		
2011		53,781	73,116	87,746	98,002			
2012	26,870	58,071	79,222	95,058				
2013	27,869	62,407	86,076					
2014	28,883	66,721						
2015	30,614							

D. Ultimate Indemnity Claim Settlement Ratio (a)

Accident	Evaluated as of (in months)								
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	84		
2006							88.2%		
2007						84.2%	88.5%		
2008					78.5%	84.6%	88.5%		
2009				69.7%	78.4%	84.1%	88.2%		
2010			59.1%	71.5%	79.9%	85.4%			
2011		44.4%	60.3%	72.4%	80.9%				
2012	20.9%	45.1%	61.5%	73.8%					
2013	20.3%	45.5%	62.8%						
2014	20.2%	46.7%							
2015	20.7%								

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

Accident		Evaluated as of (in months)								
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>			
2006							97,104			
2007						106,374	109,854			
2008					98,043	103,567	106,956			
2009				85,240	93,376	98,637	101,865			
2010			75,228	88,520	96,969	102,433				
2011		56,619	76,029	89,462	98,002					
2012	26,639	60,161	80,785	95,058						
2013	28,384	64,101	86,076							
2014	29,544	66,721								
2015	30,614									

F. Average Paid Indemnity per Closed Claim

Accident		Evaluated as of (in months)								
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>			
2006							13,293			
2007						13,510	15,103			
2008					13,272	15,573	17,043			
2009				11,345	14,328	16,396	18,100			
2010			8,207	11,897	14,688	16,725				
2011		4,619	8,689	12,241	14,977					
2012	1,889	5,081	9,165	12,637						
2013	2,177	5,445	9,586							
2014	2,231	5,698								
2015	2,405									

- (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		
2006							13,303		
2007						13,959	15,017		
2008					14,131	15,878	16,940		
2009				12,668	15,183	16,920	18,100		
2010			9,152	12,626	15,045	16,725			
2011		5,068	9,303	12,662	14,977				
2012	1,875	5,386	9,460	12,637					
2013	2,207	5,670	9,586						
2014	2,268	5,698							
2015	2,405								

H. Adjusted Paid Indemnity on Closed Claims (in \$000) (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>	<u>84</u>	
2006							1,291,784	
2007						1,484,857	1,649,664	
2008					1,385,415	1,644,488	1,811,869	
2009				1,079,812	1,417,767	1,668,903	1,843,786	
2010			688,467	1,117,639	1,458,906	1,713,241		
2011		286,930	707,266	1,132,740	1,467,733			
2012	49,959	324,038	764,264	1,201,254				
2013	62,637	363,446	825,139					
2014	66,993	380,204						
2015	73,622							

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

Accident	Evaluated as of (in months)							
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>	
2006							502,171	
2007						705,024	597,920	
2008					847,581	708,881	617,074	
2009				891,150	788,358	685,744	573,087	
2010			883,871	857,174	745,216	634,073		
2011		674,059	849,497	806,009	683,946			
2012	264,009	693,385	851,647	791,730				
2013	271,484	712,770	865,308					
2014	281,614	737,753						
2015	297,122							

- (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		
2006							39,726		
2007						36,770	42,898		
2008					33,903	39,474	46,053		
2009				26,839	33,123	38,965	45,459		
2010			19,309	26,554	32,428	38,913			
2011		11,227	19,150	25,742	32,178				
2012	3,768	11,106	18,730	24,973					
2013	3,594	10,800	16,199						
2014	3,592	7,184							
2015	3,688								

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

Accident		Evaluated as of (in months)								
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	84			
2006							-1,043			
2007						-57,198	11,698			
2008					-98,499	-40,157	14,589			
2009				-127,449	-93,849	-58,541				
2010			-83,882	-75,243	-40,194					
2011		-31,866	-55,787	-44,177						
2012	870	-23,208	-29,271							
2013	-1,850	-18,296								
2014	-2,374									

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

Accident	Evaluated as of (in months)							
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	84	
2006							501,128	
2007						647,826	609,618	
2008					749,082	668,724	631,663	
2009				763,701	694,510	627,203	573,087	
2010			799,989	781,931	705,023	634,073		
2011		642,193	793,710	761,831	683,946			
2012	264,879	670,177	822,376	791,730				
2013	269,634	694,473	865,308					
2014	279,240	737,753						
2015	297,122							

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

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

Accident	Evaluated as of (in months)								
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	84		
2006							1,792,912		
2007						2,132,683	2,259,281		
2008					2,134,497	2,313,211	2,443,532		
2009				1,843,512	2,112,277	2,296,106	2,416,873		
2010			1,488,456	1,899,570	2,163,928	2,347,314			
2011		929,122	1,500,976	1,894,572	2,151,680				
2012	314,838	994,214	1,586,640	1,992,984					
2013	332,271	1,057,919	1,690,447						
2014	346,233	1,117,956							
2015	370,744								

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

Accident	Evaluated as of (in months)								
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	72-84			
2007						1.059			
2008					1.084	1.056			
2009				1.146	1.087	1.053			
2010			1.276	1.139	1.085				
2011		1.615	1.262	1.136					
2012	3.158	1.596	1.256						
2013	3.184	1.598							
2014	3.229								
Latest Year	3.229	1.598	1.256	1.136	1.085	1.053			
3-Year Average	3.190	1.603	1.265	1.140	1.085	1.056			

O. Paid Indemnity Loss Development Factors (i)

Accident		(in months)				
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	<u>72-84</u>
2007						1.066
2008					1.093	1.060
2009				1.156	1.092	1.061
2010			1.280	1.146	1.091	
2011		1.610	1.266	1.144		
2012	3.140	1.596	1.263			
2013	3.169	1.606				
2014	3.231					

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

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

Accident	Evaluated as of (in months)										
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	72-84					
2007						-0.62%					
2008					-0.82%	-0.39%					
2009				-0.88%	-0.49%	-0.77%					
2010			-0.33%	-0.63%	-0.59%						
2011		0.37%	-0.32%	-0.76%							
2012	0.56%	-0.02%	-0.56%								
2013	0.47%	-0.51%									
2014	-0.05%										

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

Accident	Evaluated as of (in months)									
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	72-84				
2007						1.059				
2008					1.083	1.056				
2009				1.146	1.087	1.053				
2010			1.277	1.140	1.085					
2011		1.619	1.262	1.136						
2012	3.155	1.597	1.257							
2013	3.184	1.600								
2014	3.231									
Latest Year	3.231	1.600	1.257	1.136	1.085	1.053				
3-Year Average	3.190	1.605	1.265	1.141	1.085	1.056				

⁽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 AC 16-03-02, Exhibit 2.3.1].

A. Total Reported Indemnity Claim Counts

Accident	Evaluated as of (in months)								
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	84		
2006							107,695		
2007						122,056	122,117		
2008					118,426	118,796	119,003		
2009				112,337	112,985	113,370	113,607		
2010			115,254	116,567	117,309	117,749			
2011		113,818	117,477	119,057	119,975				
2012	96,927	120,507	124,692	126,504					
2013	103,408	128,407	132,859						
2014	107,284	133,655							
2015	111,170								

B. Development of Total Reported Indemnity Claim Counts

Accident		Α	ge-to-Age De	evelopment (i	n months):		
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	<u>72-84</u> 8	34-Ultimate
2007						1.000	
2008					1.003	1.002	
2009				1.006	1.003	1.002	
2010			1.011	1.006	1.004		
2011		1.032	1.013	1.008			
2012	1.243	1.035	1.015				
2013	1.242	1.035					
2014	1.246						
Latest Year	1.246	1.035	1.015	1.008	1.004	1.002	
Cumulative	1.331	1.068	1.032	1.018	1.010	1.006	1.004
Acc. Year	2015	2014	2013	2012	2011	2010	2009
Ult. Claim Counts	147,951	142,779	137,173	128,741	121,162	118,470	114,064

C. Closed Indemnity Claim Counts

Accident		Evaluated as of (in months)									
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	84				
2006							95,181				
2007						103,050	108,306				
2008					93,633	100,989	105,687				
2009				79,389	89,357	95,895	100,601				
2010			69,899	84,535	94,497	101,152					
2011		53,781	73,116	87,746	98,002						
2012	26,870	58,071	79,222	95,058							
2013	27,869	62,407	86,076								
2014	28,883	66,721									
2015	30,614										

D. Ultimate Indemnity Claim Settlement Ratio (a)

Accident	Evaluated as of (in months)							
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>	
2006							88.1%	
2007						84.1%	88.4%	
2008					78.4%	84.5%	88.5%	
2009				69.6%	78.3%	84.1%	88.2%	
2010			59.0%	71.4%	79.8%	85.4%		
2011		44.4%	60.3%	72.4%	80.9%			
2012	20.9%	45.1%	61.5%	73.8%				
2013	20.3%	45.5%	62.8%					
2014	20.2%	46.7%						
2015	20.7%							

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

Accident		Evaluated as of (in months)								
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>			
2006							95,259			
2007						104,631	108,080			
2008					96,643	102,016	105,379			
2009				84,221	92,261	97,390	100,601			
2010			74,340	87,474	95,824	101,152				
2011		56,619	76,029	89,462	98,002					
2012	26,639	60,161	80,785	95,058						
2013	28,384	64,101	86,076							
2014	29,544	66,721								
2015	30,614									

F. Average Paid Medical per Closed Indemnity Claim

Accident	ent Evaluated as of (in months)						
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>
2006							15,527
2007						15,627	18,022
2008					15,356	18,571	20,775
2009				13,292	17,215	20,115	22,627
2010			9,813	14,315	17,958	20,810	
2011		5,231	9,698	13,895	17,313		
2012	2,347	5,625	10,016	13,890			
2013	2,394	5,753	10,009				
2014	2,389	5,792					
2015	2,509						

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

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

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

Accident	Evaluated as of (in months)							
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	84	
2006							15,569	
2007						16,312	17,912	
2008					16,598	19,032	20,624	
2009				15,068	18,448	20,882	22,627	
2010			11,005	15,306	18,494	20,810		
2011		5,728	10,418	14,416	17,313			
2012	2,332	5,955	10,345	13,890				
2013	2,426	5,985	10,009					
2014	2,427	5,792						
2015	2,509							

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	
2006							1,483,077	
2007						1,706,766	1,935,983	
2008					1,604,106	1,941,608	2,173,318	
2009				1,269,018	1,701,995	2,033,676	2,276,333	
2010			818,081	1,338,841	1,772,215	2,105,021		
2011		324,292	792,078	1,289,722	1,696,710			
2012	62,126	358,278	835,710	1,320,359				
2013	68,852	383,661	861,503					
2014	71,693	386,459						
2015	76,799							

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

Accident	Evaluated as of (in months)							
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	84	
2006							768,102	
2007						1,057,309	956,853	
2008					1,165,198	1,035,406	942,573	
2009				1,186,931	1,112,894	1,020,467	885,356	
2010			1,135,150	1,161,136	1,065,351	942,182		
2011		851,972	1,068,302	1,058,153	945,857			
2012	336,787	848,316	1,015,298	984,051				
2013	360,655	839,700	978,395					
2014	350,769	826,299						
2015	363,362							

- (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	
2006							61,379	
2007						55,630	64,902	
2008					46,997	58,146	67,837	
2009				36,024	47,101	58,396	68,128	
2010			25,028	36,249	46,701	56,042		
2011		14,191	24,082	33,795	42,244			
2012	4,807	13,587	22,329	29,772				
2013	4,774	12,723	19,084					
2014	4,474	8,948						
2015	4,511							

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

Accident	Evaluated as of (in months)										
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	84				
2006							-4,793				
2007						-87,932	14,659				
2008					-141,449	-59,715	20,877				
2009				-174,073	-136,763	-87,315					
2010			-111,143	-106,543	-61,985						
2011		-40,277	-70,155	-57,997							
2012	1,110	-28,394	-34,896								
2013	-2,458	-21,555									
2014	-2,957										

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

Accident	Evaluated as of (in months)									
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	84			
2006							763,310			
2007						969,377	971,513			
2008					1,023,749	975,692	963,449			
2009				1,012,858	976,131	933,152	885,356			
2010			1,024,007	1,054,593	1,003,366	942,182				
2011		811,694	998,146	1,000,155	945,857					
2012	337,898	819,922	980,402	984,051						
2013	358,197	818,145	978,395							
2014	347,812	826,299								
2015	363,362									

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

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

Accident	Evaluated as of (in months)									
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	84			
2006							193,005			
2007						239,655	241,337			
2008					237,848	240,504	242,409			
2009				217,750	221,571	224,521	226,993			
2010			212,790	218,687	222,369	224,655				
2011		194,905	205,284	210,680	214,616					
2012	137,455	202,777	212,832	218,680						
2013	136,489	204,383	215,076							
2014	151,871	226,175								
2015	156,903									

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

Accident	Evaluated as of (in months)								
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	84		
2006							2,439,392		
2007						2,915,798	3,148,833		
2008					2,865,703	3,157,803	3,379,177		
2009				2,499,626	2,899,697	3,191,349	3,388,682		
2010			2,084,440	2,648,067	3,037,776	3,315,243			
2011		1,469,094	2,183,398	2,719,709	3,099,850				
2012	601,969	1,541,074	2,243,742	2,777,261					
2013	630,985	1,568,672	2,277,985						
2014	636,710	1,605,453							
2015	665,336								

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

Accident	Evaluated as of (in months)								
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	60-72	72-84			
2007						1.080			
2008					1.102	1.070			
2009				1.160	1.101	1.062			
2010			1.270	1.147	1.091				
2011		1.486	1.246	1.140					
2012	2.560	1.456	1.238						
2013	2.486	1.452							
2014	2.521								
Latest Year	2.521	1.452	1.238	1.140	1.091	1.062			

⁽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)]. Cumulative values of the paid cost of medical cost containment programs are also added to the totals at each valuation for accident years 2010 and subsequent in order to adjust the totals to an equivalent basis for development purposes.

P. Paid Medical 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>	<u>60-72</u>	<u>72-84</u>			
2007						1.083			
2008					1.109	1.073			
2009				1.168	1.105	1.068			
2010			1.273	1.152	1.096				
2011		1.480	1.247	1.145					
2012	2.555	1.454	1.242						
2013	2.480	1.455							
2014	2.520								

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

Accident	Evaluated as of (in months)								
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	<u>60-72</u>	72-84			
2007						-0.33%			
2008					-0.66%	-0.25%			
2009				-0.67%	-0.38%	-0.55%			
2010			-0.17%	-0.40%	-0.44%				
2011		0.41%	-0.13%	-0.46%					
2012	0.18%	0.12%	-0.33%						
2013	0.25%	-0.20%							
2014	0.04%								

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

Accident	Evaluated as of (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>			
2007						1.075			
2008					1.101	1.074			
2009				1.160	1.106	1.064			
2010			1.275	1.155	1.095				
2011		1.498	1.258	1.146					
2012	2.629	1.473	1.243						
2013	2.517	1.455							
2014	2.517								
Latest Year	2.517	1.455	1.243	1.146	1.095	1.064			
3-Year Average	2.554	1.475	1.259	1.154	1.101	1.071			

- (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 AC 16-03-02, Exhibit 2.4.1].

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, 2015

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
,		inde	emnity		-		Medical	ادمادما		Total
				Davidanad			A	djusted	Davidanad	Total
				Developed					Developed	Developed
Accident	Paid	Develop	ment Factors	Loss	Paid	Paid	Develop	ment Factors	Loss	Loss
<u>Year</u>	Loss Ratio(a)	Annual(b)	Cumulative(b)	Ratio	Loss Ratio(a)	Loss Ratio(c)	Annual(d)	Cumulative(d)	<u>Ratio</u>	<u>Ratio</u>
				(1) x (3)					(6) x (8)	(4) + (9)
2005	0.113	1.015	1.095	0.123	0.159	0.151	1.025	1.352	0.205	0.328
2006	0.143	1.020	1.117	0.160	0.202	0.192	1.033	1.397	0.268	0.429
2007	0.193	1.028	1.148	0.221	0.277	0.264	1.038	1.450	0.383	0.604
2008	0.240	1.033	1.186	0.284	0.338	0.322	1.044	1.514	0.488	0.772
2009	0.268	1.041	1.235	0.331	0.380	0.364	1.054	1.596	0.581	0.913
2010	0.248	1.056	1.304	0.324	0.355	0.343	1.071	1.710	0.586	0.909
2011	0.214	1.085	1.407	0.301	0.280	0.273	1.101	1.881	0.513	0.814
2012	0.171	1.141	1.605	0.275	0.216	0.213	1.154	2.171	0.462	0.737
2013	0.120	1.265	2.076	0.249	0.146	0.146	1.259	2.732	0.398	0.647
2014	0.070	1.605	3.525	0.247	0.090	0.090	1.475	4.031	0.365	0.612
2015	0.022	3.190	11.244	0.245	0.035	0.035	2.554	10.297	0.362	0.607

⁽a) Based on AC 16-03-02, Exhibit 1. Column 5 is shown for informational purposes only.

⁽b) Age-to-age factors for developing accident years 2010 to 2015 were adjusted for changes in claim settlement rates based on 3-year average selections (see Exhibit 7.6, Item Q). The cumulative loss development factors for developing accident years 2011 through 2015 are adjusted for the impact of SB 863 (see AC 16-03-02, Exhibit 2.5.1).

⁽c) Based on experience evaluated as of December 31, 2015. These medical paid loss ratios reflect the following: (i) an adjustment for SB 863 of -4.4% applied to payments made before January 1, 2013, (ii) an adjustment to historical outstanding medical losses paid prior to January 1, 2014 by an estimated 1.8% decrease in costs, and losses paid prior to January 1, 2015 by an estimated 0.6% increase in costs due to RBRVS.

⁽d) Age-to-age factors for developing accident years 2010 to 2015 were adjusted for changes in claim settlement rates based on 3-year average selections (see Exhibit 7.12, Item R). Age-to-age factors for developing accident years 2005 to 2015 reflect an adjustment for SB 863 of -4.4% applied to payments made before January 1, 2013 and adjustments to historical outstanding medical losses paid prior to January 1, 2014 by an estimated 1.8% decrease in costs and losses paid prior to January 1, 2015 by an estimated 0.6% increase in costs due to RBRVS.

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, 2015

Accident <u>Year</u>	(1) Developed Indemnity Loss Ratio(a)	(2) Composite Indemnity Adjustment Factor(b)	(3) Composite Premium Adjustment Factor(c)	(4) On-Level Indemnity to Industry Average Filed Pure Premium Ratio (1)×(2)÷(3)
2005	0.123	1.387	0.762	0.224
2006	0.160	1.370	0.979	0.224
2007	0.221	1.328	1.252	0.235
2008	0.284	1.250	1.513	0.235
2009	0.331	1.226	1.630	0.249
2010	0.324	1.209	1.482	0.264
2011	0.301	1.196	1.351	0.266
2012	0.275	1.168	1.203	0.266
2013	0.249	1.170	1.058	0.276
2014	0.247	1.061	0.978	0.269
2015	0.245	1.041	0.945	0.270
				Projections (d)

 2016
 0.267

 4/1/2017
 0.265

⁽a) See Exhibit 7.13.

⁽b) Based on AC 16-03-02, Exhibit 4.1.

⁽c) See AC 16-03-02, Exhibit 5.2.

⁽d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC 16-03-02, Exhibit 6.2, the actual frequency trend for accident year 2015 from AC 16-03-02, Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 on-level ratios.

0.401

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, 2015

	(1)	(2)	(3)	(4) On-Level Medical to
Accident	Developed Medical	Composite Medical	Composite Premium	Industry Average Filed
<u>Year</u>	Loss Ratio(a)	On-Level Factor(b)	Adjustment Factor(c)	Pure Premium Ratio(e)
				$(1)\times(2)\div(3)$
2005	0.205	0.983	0.762	0.264
2006	0.268	1.033	0.979	0.283
2007	0.383	1.013	1.252	0.310
2008	0.488	1.006	1.513	0.325
2009	0.581	0.992	1.630	0.354
2010	0.586	0.989	1.482	0.391
2011	0.513	0.986	1.351	0.375
2012	0.462	0.995	1.203	0.382
2013	0.398	1.006	1.058	0.379
2014	0.365	1.021	0.978	0.381
2015	0.362	1.019	0.945	0.390
				Projections (d)

(a) See Exhibit 7.13.

2016

- (b) Based on AC 16-03-02, Exhibit 4.4.
- (c) See AC 16-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected based on an estimated annual medical severity trend from AC 16-03-02, Exhibit 6.4, the actual frequency trend for accident year 2015 from AC 16-03-02, Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 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 Latest Year Selections Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
		Inde	emnity				Medical			
							Ad	djusted		Total
				Developed					Developed	Developed
Accident	Paid	Develop	ment Factors	Loss	Paid	Paid	Develop	ment Factors	Loss	Loss
<u>Year</u>	Loss Ratio(a)	Annual(b)	Cumulative(b)	Ratio	Loss Ratio(a)	Loss Ratio(c)	Annual(d)	Cumulative(d)	Ratio	<u>Ratio</u>
				(1) x (3)					(6) x (8)	(4) + (9)
2005	0.113	1.015	1.095	0.123	0.159	0.151	1.025	1.352	0.205	0.328
2006	0.143	1.020	1.117	0.160	0.202	0.192	1.033	1.397	0.268	0.429
2007	0.193	1.028	1.148	0.221	0.277	0.264	1.038	1.450	0.383	0.604
2008	0.240	1.033	1.186	0.284	0.338	0.322	1.044	1.514	0.488	0.772
2009	0.268	1.041	1.235	0.331	0.380	0.364	1.054	1.596	0.581	0.913
2010	0.248	1.053	1.300	0.323	0.355	0.343	1.064	1.698	0.582	0.904
2011	0.214	1.085	1.403	0.300	0.280	0.273	1.095	1.860	0.507	0.807
2012	0.171	1.136	1.594	0.273	0.216	0.213	1.146	2.131	0.454	0.726
2013	0.120	1.257	2.048	0.246	0.146	0.146	1.243	2.648	0.386	0.632
2014	0.070	1.600	3.466	0.243	0.090	0.090	1.455	3.854	0.349	0.592
2015	0.022	3.231	11.199	0.244	0.035	0.035	2.517	9.700	0.341	0.585

- (a) Based on AC 16-03-02, Exhibit 1. Column 5 is shown for informational purposes only.
- (b) Age-to-age factors for developing accident years 2010 to 2015 were adjusted for changes in claim settlement rates based on latest year selections (see Exhibit 7.6, Item Q). The cumulative loss development factors for developing accident years 2011 through 2015 are adjusted for the impact of SB 863 (see AC 16-03-02, Exhibit 2.5.1).
- (c) Based on experience evaluated as of December 31, 2015. These medical paid loss ratios reflect the following: (i) an adjustment for SB 863 of -4.4% applied to payments made before January 1, 2013, (ii) an adjustment to historical outstanding medical losses paid prior to January 1, 2014 by an estimated 1.8% decrease in costs, and losses paid prior to January 1, 2015 by an estimated 0.6% increase in costs due to RBRVS.
- (d) Age-to-age factors for developing accident years 2010 to 2015 were adjusted for changes in claim settlement rates based on latest year selections (see Exhibit 7.12, Item R). Age-to-age factors for developing accident years 2005 to 2015 reflect an adjustment for SB 863 of -4.4% applied to payments made before January 1, 2013 and adjustments to historical outstanding medical losses paid prior to January 1, 2014 by an estimated 1.8% decrease in costs and losses paid prior to January 1, 2015 by an estimated 0.6% increase in costs due to RBRVS.

Projections (d) 0.264

0.262

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 Latest Year Paid Selections Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4) On-Level Indemnity to
Accident	Developed Indemnity	Composite Indemnity	Composite Premium	Industry Average Filed
<u>Year</u>	Loss Ratio(a)	Adjustment Factor(b)	Adjustment Factor(c)	Pure Premium Ratio
				(1)×(2)÷(3)
2005	0.123	1.387	0.762	0.224
2006	0.160	1.370	0.979	0.224
2007	0.221	1.328	1.252	0.235
2008	0.284	1.250	1.513	0.235
2009	0.331	1.226	1.630	0.249
2010	0.323	1.209	1.482	0.263
2011	0.300	1.196	1.351	0.266
2012	0.273	1.168	1.203	0.265
2013	0.246	1.170	1.058	0.272
2014	0.243	1.061	0.978	0.264
2015	0.244	1.041	0.945	0.269

(a) See Exhibit 8.1.

⁽b) Based on AC 16-03-02, Exhibit 4.1.

⁽c) See AC 16-03-02, Exhibit 5.2.

⁽d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC 16-03-02, Exhibit 6.2, the actual frequency trend for accident year 2015 from AC 16-03-02, Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 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 Latest Year Paid Selections Based on Experience as of December 31, 2015

Accident <u>Year</u>	(1) Developed Medical Loss Ratio(a)	(2) Composite Medical On-Level Factor(b)	(3) Composite Premium Adjustment Factor(c)	(4) On-Level Medical to Industry Average Filed Pure Premium Ratio(e) (1)×(2)÷(3)
2005	0.205	0.983	0.762	0.264
2006	0.268	1.033	0.979	0.283
2007	0.383	1.013	1.252	0.310
2008	0.488	1.006	1.513	0.325
2009	0.581	0.992	1.630	0.354
2010	0.582	0.989	1.482	0.388
2011	0.507	0.986	1.351	0.370
2012	0.454	0.995	1.203	0.375
2013	0.386	1.006	1.058	0.367
2014	0.349	1.021	0.978	0.364
2015	0.341	1.019	0.945	0.368
				Projections (d)
2016				0.377

(a) See Exhibit 8.1.

- (b) Based on AC 16-03-02, Exhibit 4.4.
- (c) See AC 16-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC 16-03-02, Exhibit 6.2, the actual frequency trend for accident year 2015 from AC 16-03-02, Exhibit 12, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 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 2015 Based on Experience as of December 31, 2015

Accident <u>Year</u>	(1) Developed Indemnity Loss Ratio(a)	(2) Composite Indemnity Adjustment Factor(b)	(3) Composite Premium Adjustment Factor(c)	(4) On-Level Indemnity to Industry Average Filed Pure Premium Ratio
				(1)×(2)÷(3)
2005	0.123	1.387	0.762	0.224
2006	0.160	1.370	0.979	0.224
2007	0.221	1.328	1.252	0.235
2008	0.284	1.250	1.513	0.235
2009	0.331	1.226	1.630	0.249
2010	0.325	1.209	1.482	0.265
2011	0.304	1.196	1.351	0.269
2012	0.279	1.168	1.203	0.270
2013	0.252	1.170	1.058	0.279
2014	0.251	1.061	0.978	0.273
2015	0.252	1.041	0.945	0.278
				Projected (d)
2016				0.277

⁽a) See AC 16-03-02, Exhibit 3.1.

⁽b) See AC 16-03-02, Exhibit 4.1.

⁽c) See AC 16-03-02, Exhibit 5.2.

⁽d) These on-level ratios were projected based on an estimated annual indemnity severity trend from AC 16-03-02, Exhibit 6.2 and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then applied to the 2015 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 2015 Based on Experience as of December 31, 2015

Accident <u>Year</u>	(1) Developed Medical <u>Loss Ratio(a)</u>	(2) Composite Medical On-Level Factor(b)	(3) Composite Premium Adjustment Factor(c)	(4) On-Level Medical to Industry Average Filed Pure Premium Ratio(e)
				(1)×(2)÷(3)
2005	0.205	0.983	0.762	0.264
2006	0.268	1.033	0.979	0.283
2007	0.383	1.013	1.252	0.310
2008	0.488	1.006	1.513	0.325
2009	0.581	0.992	1.630	0.354
2010	0.585	0.989	1.482	0.390
2011	0.512	0.986	1.351	0.374
2012	0.460	0.995	1.203	0.381
2013	0.393	1.006	1.058	0.374
2014	0.356	1.021	0.978	0.371
2015	0.347	1.019	0.945	0.375
				Projected (d)
2016				0.383

⁽a) See AC 16-03-02, Exhibit 3.2.

⁽b) See AC 16-03-02, Exhibit 4.4.

⁽c) See AC 16-03-02, Exhibit 5.2.

⁽d) These on-level ratios were projected based on an estimated annual medical severity trend from AC 16-03-02, Exhibit 6.4 and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then applied to the 2015 on-level ratio.

⁽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 Trend and 0% Severity Trend Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)
Accident <u>Year</u>	Developed Indemnity <u>Loss Ratio(a)</u>	Composite Indemnity Adjustment Factor(b)	Composite Premium Adjustment Factor(c)	On-Level Indemnity to Industry Average Filed <u>Pure Premium Ratio</u> (1)×(2)÷(3)
2005	0.123	1.387	0.762	0.224
2006	0.160	1.370	0.979	0.224
2007	0.221	1.328	1.252	0.235
2008	0.284	1.250	1.513	0.235
2009	0.331	1.226	1.630	0.249
2010	0.325	1.209	1.482	0.265
2011	0.304	1.196	1.351	0.269
2012	0.279	1.168	1.203	0.270
2013	0.252	1.170	1.058	0.279
2014	0.251	1.061	0.978	0.273
2015	0.252	1.041	0.945	0.278
				Projected (d)
2016				0.273

⁽a) See AC 16-03-02, Exhibit 3.1.

⁽b) See AC 16-03-02, Exhibit 4.1.

⁽c) See AC 16-03-02, Exhibit 5.2.

⁽d) These on-level ratios were projected based on an estimated annual indemnity severity trend of 0.0% based on an average exponential trend of the 2005-2015 and 2010-2015 severities, the actual frequency trend for accident year 2015, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 on-level ratios.

Projected On-Level Accident Year Medical Loss to Industry Average Filed Pure Premium Ratios Separate Applications of Frequency Trend and 1% Severity Trend Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)
Accident <u>Year</u>	Developed Medical Loss Ratio(a)	Composite Medical On-Level Factor(b)	Composite Premium Adjustment Factor(c)	On-Level Medical to Industry Average Filed Pure Premium Ratio(e)
<u></u>	<u>=====,===,==,</u>	<u></u>	<u>,</u>	(1)×(2)÷(3)
2005	0.205	0.983	0.762	0.264
2006	0.268	1.033	0.979	0.283
2007	0.383	1.013	1.252	0.310
2008	0.488	1.006	1.513	0.325
2009	0.581	0.992	1.630	0.354
2010	0.585	0.989	1.482	0.390
2011	0.512	0.986	1.351	0.374
2012	0.460	0.995	1.203	0.381
2013	0.393	1.006	1.058	0.374
2014	0.356	1.021	0.978	0.371
2015	0.347	1.019	0.945	0.375
				5 1 . 1 ()

Projected (d) 2016 0.376 4/1/2017 0.375

- (a) See AC 16-03-02, Exhibit 3.2.
- (b) See AC 16-03-02, Exhibit 4.4.
- (c) See AC 16-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected based on an estimated annual medical severity trend of 1.0% based on an average exponential trend of the 2005-2015 and 2010-2015 severities, the actual frequency trend for accident year 2015, and projected frequency trends for accident years 2016 and 2017 from AC 16-03-02, Exhibit 6.1; these trends were then separately applied to the 2014 and 2015 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 Post-2005 Exponential Trend Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)
Accident <u>Year</u>	Developed Indemnity <u>Loss Ratio(a)</u>	Composite Indemnity Adjustment Factor(b)	Composite Premium Adjustment Factor(c)	On-Level Indemnity to Industry Average Filed <u>Pure Premium Ratio</u> (1)×(2)÷(3)
2005	0.123	1.387	0.762	0.224
2006	0.160	1.370	0.979	0.224
2007	0.221	1.328	1.252	0.235
2008	0.284	1.250	1.513	0.235
2009	0.331	1.226	1.630	0.249
2010	0.325	1.209	1.482	0.265
2011	0.304	1.196	1.351	0.269
2012	0.279	1.168	1.203	0.270
2013	0.252	1.170	1.058	0.279
2014	0.251	1.061	0.978	0.273
2015	0.252	1.041	0.945	0.278

Projected (d) 2016 0.286 4/1/2017 0.291

⁽a) See AC 16-03-02, Exhibit 3.1.

⁽b) See AC 16-03-02, Exhibit 4.1.

⁽c) See AC 16-03-02, Exhibit 5.2.

⁽d) These on-level ratios were projected by separately applying an exponential trend of approximately 2.5% based on the 2005 to 2015 on-level indemnity to industry average filed pure premium ratios to each of the 2014 and 2015 on-level 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 Post-2005 Exponential Trend Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)
Accident <u>Year</u>	Developed Medical Loss Ratio(a)	Composite Medical On-Level Factor(b)	Composite Premium Adjustment Factor(c)	On-Level Medical to Industry Average Filed Pure Premium Ratio(e) (1)×(2)÷(3)
2005	0.205	0.983	0.762	0.264
2006	0.268	1.033	0.979	0.283
2007	0.383	1.013	1.252	0.310
2008	0.488	1.006	1.513	0.325
2009	0.581	0.992	1.630	0.354
2010	0.585	0.989	1.482	0.390
2011	0.512	0.986	1.351	0.374
2012	0.460	0.995	1.203	0.381
2013	0.393	1.006	1.058	0.374
2014	0.356	1.021	0.978	0.371
2015	0.347	1.019	0.945	0.375
				Projected (d)
2016				0.401

- (a) See AC 16-03-02, Exhibit 3.2.
- (b) See AC 16-03-02, Exhibit 4.4.
- (c) See AC 16-03-02, Exhibit 5.2.
- (d) These on-level ratios were projected by separately applying an exponential trend of approximately 5.0% based on the 2005 to 2015 on-level medical to industry average filed pure premium ratios including MCCP costs to each of the 2014 and 2015 on-level 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 Trend Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)
Accident <u>Year</u>	Developed Indemnity <u>Loss Ratio(a)</u>	Composite Indemnity Adjustment Factor(b)	Composite Premium Adjustment Factor(c)	On-Level Indemnity to Industry Average Filed <u>Pure Premium Ratio</u> (1)×(2)÷(3)
2005	0.123	1.387	0.762	0.224
2006	0.160	1.370	0.979	0.224
2007	0.221	1.328	1.252	0.235
2008	0.284	1.250	1.513	0.235
2009	0.331	1.226	1.630	0.249
2010	0.325	1.209	1.482	0.265
2011	0.304	1.196	1.351	0.269
2012	0.279	1.168	1.203	0.270
2013	0.252	1.170	1.058	0.279
2014	0.251	1.061	0.978	0.273
2015	0.252	1.041	0.945	0.278

Projected (d) 2016 0.279 4/1/2017 0.281

⁽a) See AC 16-03-02, Exhibit 3.1.

⁽b) See AC 16-03-02, Exhibit 4.1.

⁽c) See AC 16-03-02, Exhibit 5.2.

⁽d) These on-level ratios were projected by separately applying an exponential trend of approximately 0.9% based on the 2010 to 2015 on-level indemnity to industry average filed pure premium ratios to each of the 2014 and 2015 on-level 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 Trend Based on Experience as of December 31, 2015

	(1)	(2)	(3)	(4)
				On-Level Medical to
Accident	Developed Medical	Composite Medical	Composite Premium	Industry Average Filed
<u>Year</u>	Loss Ratio(a)	On-Level Factor(b)	Adjustment Factor(c)	Pure Premium Ratio(e)
				(1)×(2)÷(3)
2005	0.205	0.983	0.762	0.264
2006	0.268	1.033	0.979	0.283
2007	0.383	1.013	1.252	0.310
2008	0.488	1.006	1.513	0.325
2009	0.581	0.992	1.630	0.354
2010	0.585	0.989	1.482	0.390
2011	0.512	0.986	1.351	0.374
2012	0.460	0.995	1.203	0.381
2013	0.393	1.006	1.058	0.374
2014	0.356	1.021	0.978	0.371
2015	0.347	1.019	0.945	0.375
				Projected (d)
2016				0.379

(a) See AC 16-03-02, Exhibit 3.2.

⁽b) See AC 16-03-02, Exhibit 4.4.

⁽c) See AC 16-03-02, Exhibit 5.2.

⁽d) These on-level ratios were projected by separately applying an exponential trend of approximately 1.0% based on the 2010 to 2015 on-level medical to industry average filed pure premium ratios including MCCP costs to each of the 2014 and 2015 on-level 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.

Item AC16-04-03 Computation of Industry Average Filed Rates as of 1/1/2016

In 2011, the WCIRB was directed by the California Insurance Commissioner to modify the manner in which it presents its proposed advisory pure premium rates to benchmark the average proposed pure premium rate against the industry average filed pure premium rate rather than the average of the advisory pure premium rates currently in effect. As a result, since that time the WCIRB, using a process developed in consultation with California Department of Insurance (CDI) staff, has been computing the industry average filed pure premium rate and using that as a benchmark to use in comparison to the filed advisory pure premium rate indication. In the January 1, 2016 Pure Premium Rate Filing, the WCIRB compared the average proposed January 1, 2016 advisory pure premium rate to the average industry filed pure premium rate as of July 1, 2015.

The approach staff uses to compute the January 1 industry average filed pure premium rate for inclusion in a potential mid-year rate filing is based on rolling the July 1 industry average filed rates forward by adjusting the average insurer rate of each insurer to reflect additional rate filing activity though January 1. Based on this approach, staff has updated the industry average filed pure premium rate and industry average filed manual rate as of January 1, 2016. The industry average filed pure premium rate as of January 1, 2016 is \$2.57 per \$100 of payroll, and the corresponding industry average filed manual rate is \$3.79. The comparable industry average filed rates as of July 1, 2015 were \$2.66 and \$3.89, respectively.