

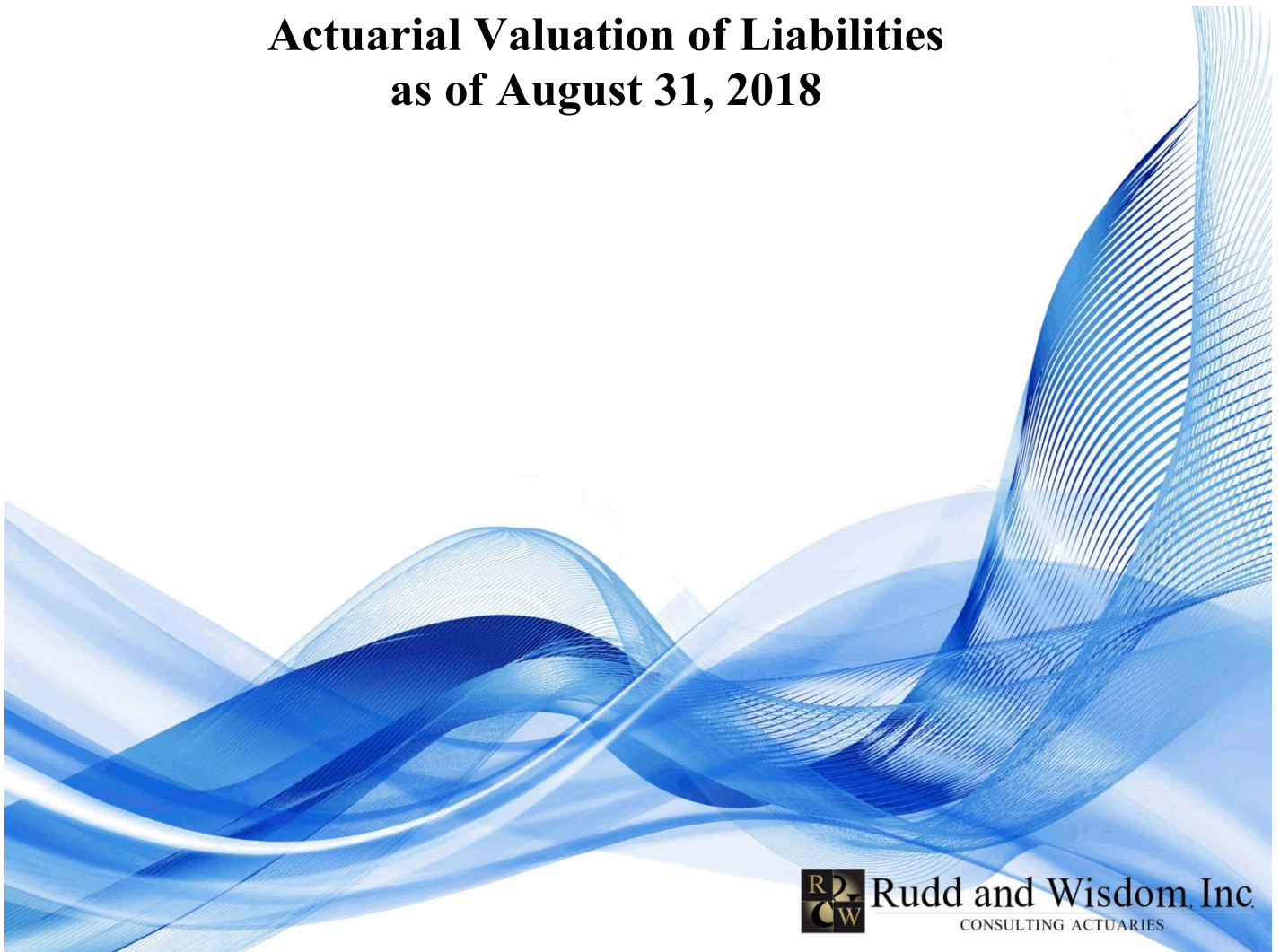


Rudd and Wisdom, Inc.
CONSULTING ACTUARIES

**State Office of Risk Management
SORM**

**Workers' Compensation,
Self-Insurance Program**

**Actuarial Valuation of Liabilities
as of August 31, 2018**



Rudd and Wisdom, Inc.
CONSULTING ACTUARIES

December 21, 2018

Rudd and Wisdom, Inc.

CONSULTING ACTUARIES

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December 21, 2018

Mr. Stephen Vollbrecht
State Risk Manager and Executive Director
State Office of Risk Management
Post Office Box 13777
Austin, Texas 78711-3777

Re: Liability for Unpaid Workers' Compensation
Claims as of August 31, 2018

Dear Mr. Vollbrecht:

I, Charles V. Faerber, am associated with the firm of Rudd and Wisdom, Inc. I am a member of the American Academy of Actuaries and an Associate of the Casualty Actuarial Society. As such, I meet the Academy's qualification standards to render the actuarial opinion contained herein.

Please note that on certain exhibits that the values for the earlier years are not displayed. We have done this in an effort to focus on the years that contribute to the calculations being made and to allow the exhibits to fit more efficiently on their pages.

At your request, we have performed an actuarial analysis of the State of Texas' workers' compensation program administered by the State Office of Risk Management (SORM). This study has been based mainly on the experience of the State's workers' compensation claims incurred between September 1, 1975 and August 31, 2018. The purpose of this analysis is to determine the State's liability for unpaid workers' compensation claims as of August 31, 2018. As a result of this study, we estimate that the ultimate value of claims incurred, as of August 31, 2018, is approximately \$1.65 billion. Given that approximately \$1.58 billion has been paid through that date, the liability for unpaid claims is approximately \$75.32 million. Included in these amounts is a provision for IBNR. IBNR is the common term for claims, which have been incurred but not reported. This provision is equal to approximately \$967,300.

We were also asked to provide estimates at 50%, 60%, 75%, and 90% confidence levels and to discount the liabilities. In prior studies, we have used all of the Program's history from 1975 through 2018 to derive the statistics needed to determine these confidence levels. Those statistics displayed a higher level of volatility and produced higher liability values. For this study, we have limited the experience to the most recent 15 years. We believe that the more recent experience better represents the current state of the Program and the exposures it insures. We have discounted these amounts at 2%, 3%, and 4%. We believe that the "Indicated Amounts" are our best estimate of the program's anticipated future experience. The table below summarizes the results of our analysis:

Summary of Incurred Claims as of August 31, 2018
Amounts in Thousands of Dollars

<i>Description</i>	<i>Undiscounted Amounts</i>	<i>Discounted @ 2%</i>	<i>Discounted @ 3%</i>	<i>Discounted @ 4%</i>
Ultimate Incurred Claims	\$1,654,740			
Claims Paid	<u>1,579,423</u>			
Liability for Unpaid Claims				
- Indicated Amount	\$ 75,318	\$ 69,216	\$ 66,601	\$ 64,227
- 50% Confidence	85,384	78,454	75,483	72,784
- 60% Confidence	93,643	86,027	82,759	79,790
- 75% Confidence	108,474	99,610	95,803	92,343
- 90% Confidence	131,145	120,383	115,756	111,548

At this time, last year, we projected that the fiscal year ending August 31, 2018 would produce approximately \$40.46 million in claim payments. Actual payments proved to be slightly less than expected at \$39.75 million. We now anticipate approximately \$39.74 million in claim payments for the fiscal year ending August 31, 2019, approximately \$40.67 million in claim payments for the fiscal year ending August 31, 2020, and approximately \$41.82 million in claim payments for the fiscal year ending August 31, 2021. The table below reveals that our current cash flow projections are somewhat lower than the corresponding estimates at this time in 2017. The claim payment projection is influenced by the expected claims for the 2019 and 2020 fiscal years. These values are a function of covered payroll and the payroll has increased 8% in the last three years. Claim cost trends have been negative over the past 25 years. Claim costs are generally expressed in terms of dollars per \$100 of payroll. This is a function of two changes that have been implemented in the past 17 years. The 77th Legislature in 2001 authorized the Workers Compensation Cost Allocation Program, which is having the effect of reducing the number of claims and lowering total paid expenditures on these claims.

It appears that the allocation program is giving agencies an incentive to make their working environments safer. The second modification to the program occurred when the SORM staff implemented claims auditing and adjusting procedures that have prevented and eliminated payments on claims that are unreasonable or not medically necessary. It appears that these two actions have had a dramatic effect on the workers' compensation program. The cost allocation program and SORM's investment in the claim auditing process are paying dividends in the form of fewer claims and lower-than-expected claim payments.

Summary of Paid Claim Estimates as of August 31, 2018
Amounts in Thousands of Dollars

<i>Claim Payments</i>	<i>Fiscal Year Ending 8/31/18</i>	<i>Fiscal Year Ending 8/31/19</i>	<i>Fiscal Year Ending 8/31/20</i>	<i>Fiscal Year Ending 8/31/21</i>
<i>Estimate From 8/31/17 Actuarial Analysis</i>	\$ 40,455	\$ 41,759	\$ 42,996	N/A
<i>Actual Claims Paid</i>	\$ 39,747			
<i>Estimate From 8/31/18 Actuarial Analysis</i>		\$ 39,737	\$ 40,674	\$ 41,817

We were asked to forecast incurred claims and recommend funding levels for the fiscal years ending August 31 of 2019, 2020, and 2021. The values displayed below are forecasts of future workers' compensation claim costs. These values represent the anticipated ultimate incurred value of claims to be incurred during the three years cited above. However, they do not contain any provision for administrative expenses or for allocated or unallocated loss adjustment expenses. We expect approximately 90% of the claim payments to occur within five years of the claims' occurrence. We also expect payments on the remaining 10% to extend for 20 years or more. We expect future payroll to grow 2% per year. Future indemnity claim costs are assumed to increase 2% per year and future medical claim costs are assumed to increase 3% per year. A summary of these results is displayed in the table below:

Projection of Future Incurred Claims

<i>Fiscal Year Ending</i>	<i>Projected Payroll (000)</i>	<i>Projected Loss Rate Per \$100 Payroll</i>			<i>Projected Incurred Claims (000)</i>
		<i>Indemnity</i>	<i>Medical</i>	<i>Total</i>	
August 31, 2019	\$ 8,821,003	\$.1850	\$ 0.2700	\$ 0.4550	\$ 40,136
August 31, 2020	8,997,423	.1859	0.2753	0.4612	41,496
August 31, 2020	9,177,371	.1868	0.2807	0.4675	42,905

The projected loss rate for FY 2019 is approximately 2% lower than the corresponding rate in the 2017 report. Much of this is attributable to payroll increases that have been greater than the 2% annual growth we have assumed in the past. Note that payroll is the denominator in the calculation of these claim cost rates. While these projections are coming in lower than the corresponding values from last year, they nevertheless represent increases in the claim cost rates from their current levels. Both indemnity and medical costs have increased moderately with medical care costs increasing slightly more than indemnity costs. It is fair to say that medical costs are generally higher for all types of health insurance plans. Workers' compensation plans have not been immune to these cost increases. Because of the cost allocation program and the claim audits, SORM's workers' compensation claim costs have generally decreased since FY 2002. The FY 2008 claim cost is higher than its counterparts from other years since 2006, but still lower than the corresponding values from FY 2005 and earlier years. The early indication for FY2018 is that claim costs will be lower than expected. However, that data is new and may not develop as indicated. While the experience has been good, it is not prudent to count on decreasing claim costs to continue indefinitely.

Data

We have relied on claim, employee, and financial data provided by the SORM staff. While we have not verified or audited the data, we did perform some checks for reasonableness. These tests revealed some anomalies, which we will address here.

Claims

The claim data appeared to be reasonably good. The information provided is reasonably consistent with the claim data used for the 2017 actuarial study. Exhibit 10 displays a summary comparison of the claim data used for the current and prior studies. Exhibit 12 shows a distribution of the State's claims by size. The State has had only 10 claims, which have exceeded \$1 million and 57 other claims, which have exceeded \$500,000. Since there were so few of these large claims, we did not believe that they would distort the results. Thus, we have not treated them differently from the other claims and have included them in the study. The claim data did have some minor inconsistencies. These inconsistencies were also present in the prior fiscal year data. Their effects are immaterial to the projections made and will have a diminishing impact upon future year projections. These problems were treated as described below:

1. There are approximately 19,000 claims that are coded as "Opened in Error" or "Denied." Payments have been made on four of these claims. For purposes of this study, we have excluded all of these claims.

2. A number of claims had injury dates, which were blank or inconsistent with the payment data (i.e., there were payments prior to the injury date). For the injury dates that were blank, we used the report date. For the claims with inconsistent data, we assumed that the injury occurred in the same period as the first payment.

Payroll

We received covered payroll data from two sources. For fiscal years 1990 through 1996, we were provided Texas State Employee Workers' Compensation Unit Statistical Reports. For fiscal years 1996 through 2018, we used payroll files by agency provided by the SORM staff. We were able to compare the two sources for the 1996 fiscal year. The Unit Statistical Reports do not report payroll for all covered agencies. For the 1996 fiscal year, the payroll from the Unit Statistical Report is approximately 9% less than that from the payroll list. Therefore, we have adjusted the payroll upward for the 1990 through 1995 fiscal years to compensate for the apparent understatement in the Unit Statistical Reports

Methodology

Paid Claim Development

We have used a paid claim development methodology to determine the reserves for unpaid workers' compensation claims reported as of August 31, 2018. Our analysis is based on claims data provided by the SORM staff. Briefly, the paid claim development methodology is used to determine the amount by which ultimate incurred claims can be expected to differ from the paid amounts as of August 31, 2018. This determination is made by analyzing the actual periodic changes (measured at annual intervals) in the paid amounts for each State of Texas claim reported through August 31, 2018. The purpose of this approach is to take advantage of our knowledge of historical payment patterns to estimate the value of incurred but unpaid claims. The selection of paid claim development factors is displayed in Exhibits 17, 18 and 19. The claim development factors are applied to paid losses in Exhibit 5.

Expected Losses

In Exhibit 6 the Bornheutter-Ferguson Method relies on an initial estimate of expected incurred losses by claim year. For this study, we have used the Selected Ultimate Incurred values from Exhibit 2 of the previous actuarial report. The columns from which those values are taken are labeled "Indicated Amounts." So, the Selected Loss Rate for all years through 8/31/2017 is determined by dividing the Expected Ultimate Loss in Column 3 by the Payroll in Column 1. For the 2018 claim year, I have used the projected claim costs from Exhibit 6 of that report for the Selected Loss Rate. The Expected Ultimate Loss in Column 3 is then the

product of multiplying the Payroll in Column 1 times the Selected Loss Rate in Column 2.

Paid Bornheutter-Ferguson Method

This approach relies on the estimate of expected losses discussed above. For this method, the inverse of a paid loss development factor (1/LDF) represents an estimate of the percentage of the expected losses paid to date. The compliment of this number [1-(1/LDF)] is the estimate of the unpaid percentage. This unpaid factor multiplied by the expected loss yields the estimated Unpaid Loss. The sum of the actual Paid Loss with the estimated Unpaid Loss produces this method's estimate of ultimate incurred loss and ALAE. Exhibit 6 displays this work.

Selection of Ultimate Incurred Losses

The selection of Ultimate Incurred Losses is displayed in Exhibit 4. The Ultimate Incurred Losses are the average of the results obtained from the Paid Claim Development Method in Exhibit 5 and the Bornheutter-Ferguson Method in Exhibit 6.

Estimates at 50%, 60%, 75%, and 90% Confidence

To determine the 50%, 60%, 75%, and 90% confidence levels of the liabilities for unpaid claims we calculated the mean and standard deviation of the age-to-ultimate development factors at all durations for the most recent 15 years. Using Student's t-Distribution we obtained 50%, 60%, 75%, and 90% probability factors to apply to the standard deviations. These factors indicate the number of standard deviations above the mean that represent the various confidence levels. Application of these adjusted development factors to paid claims yields a value of ultimate incurred claims that we believe will not be exceeded 50%, 60%, 75% and 90% of the time. These calculations are also displayed in Exhibits 17, 18 and 19.

Projections of Incurred Claims and Claim Payments

Exhibit 3 displays a summary of the claim payments expected to be made during the fiscal years ending August 31 of 2019, 2020, and 2021. These projections are derived from the paid claim development factors used to perform the actuarial valuation:

1. Paid losses are developed to ultimate as selected in Exhibit 4.
2. The ultimate incurred losses for each claim year are divided by payroll (Exhibit 8) to derive historical loss (i.e., claim cost) rates. These loss rates are trended to March 31, 2019, the midpoint of the 2018-19 fiscal year. These trended loss rates

are then used to select appropriate loss rates for Fiscal Years 2019 through 2021. Derivation of the appropriate trend rates is accomplished in Exhibit 9. For Fiscal Year 2019, the value of indemnity claims is assumed to increase 2.00%, and the value of medical claims is expected to increase 3.00%. We have assumed that the State's payroll will increase 2% per year.

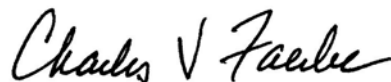
Exhibit 3 reveals that we expect the State to pay approximately \$39.7 million in the 2018–19 fiscal year, \$40.7 million in the 2019–20 fiscal year and \$41.8 million in the 2020–21 fiscal year.

Other Considerations

It should be noted that these estimates do not include a provision for either defense and cost containment (DCCE) or adjusting and other expenses (AOE). The State does not keep records of DCCE in its claim database. DCCE are direct settlement expenses attributable to specific claims. These are primarily legal expenses. DCCE normally accounts for 5% to 10% of incurred claims. Most insurance companies, which are regulated in a conservative manner by the State, hold a reserve for AOE, which is the anticipated administrative expense needed to run off claims should the operation shut down. Most self-insured entities, however, do not make a provision for AOE. For those that do make a provision for AOE, we believe that 5 to 10% of the claim reserve is adequate.

I have enjoyed working with you on this project. I look forward to any comments or questions you may have regarding this report.

Sincerely,



Charles V. Faerber, F.S.A., A.C.A.S.

CVF: ms

Enclosures

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Exhibit 1

State Office of Risk Management

Workers Compensation Program

Summary of Unpaid Claims (000's) as of 8/31/18

Indemnity and Medical Claims Valued Separately

Fiscal Year Ending	Total Claims										Liability for Unpaid Claims Discounted @ 2%									
	08/31/18					Ultimate Incurred Amounts					Undiscounted Liability for Unpaid Claims					Indicated				
	Paid Amounts	Indicated Amounts	50% Confidence	60% Confidence	90% Confidence	50% Confidence	60% Confidence	75% Confidence	90% Confidence	Indicated Amounts	50% Confidence	60% Confidence	75% Confidence	90% Confidence	Indicated Amounts	50% Confidence	60% Confidence	75% Confidence	90% Confidence	
8/31/82	12,503	12,503	12,503	12,503	12,503	12,503	12,503	12,503	12,503	0	0	0	0	0	0	0	0	0	0	
8/31/83	14,179	14,179	14,179	14,179	14,179	14,179	14,179	14,179	14,179	0	0	0	0	0	0	0	0	0	0	
8/31/84	21,778	21,778	21,778	21,778	21,778	21,778	21,778	21,778	21,778	0	0	0	0	0	0	0	0	0	0	
8/31/85	23,186	23,186	23,186	23,186	23,186	23,186	23,186	23,186	23,186	0	0	0	0	0	0	0	0	0	0	
8/31/86	29,362	29,362	29,362	29,362	29,362	29,362	29,362	29,362	29,362	0	0	0	0	0	0	0	0	0	0	
8/31/87	32,873	32,873	32,873	32,873	32,873	32,873	32,873	32,873	32,873	0	0	0	0	0	0	0	0	0	0	
8/31/88	48,087	48,087	48,087	48,087	48,087	48,087	48,087	48,087	48,087	0	0	0	0	0	0	0	0	0	0	
8/31/89	51,382	51,382	51,382	51,382	51,382	51,382	51,382	51,382	51,382	0	0	0	0	0	0	0	0	0	0	
8/31/90	59,547	59,547	59,547	59,547	59,547	59,547	59,547	59,547	59,547	0	0	0	0	0	0	0	0	0	0	
8/31/91	52,530	52,530	52,530	52,530	52,530	52,530	52,530	52,530	52,530	0	0	0	0	0	0	0	0	0	0	
8/31/92	53,775	53,775	53,775	53,775	53,775	53,775	53,775	53,775	53,775	0	0	0	0	0	0	0	0	0	0	
8/31/93	50,129	50,129	50,129	50,129	50,129	50,129	50,129	50,129	50,129	0	0	0	0	0	0	0	0	0	0	
8/31/94	55,110	55,110	55,110	55,110	55,110	55,110	55,110	55,110	55,110	0	0	0	0	0	0	0	0	0	0	
8/31/95	55,540	55,540	55,540	55,540	55,540	55,540	55,540	55,540	55,540	0	0	0	0	0	0	0	0	0	0	
8/31/96	54,187	54,187	54,187	54,187	54,187	54,187	54,187	54,187	54,187	0	0	0	0	0	0	0	0	0	0	
8/31/97	57,297	57,297	57,831	58,118	57,433	58,118	58,601	59,326	59,326	285	819	1,106	1,589	2,314	283	811	1,095	1,573	2,292	
8/31/98	56,277	56,710	60,304	60,717	61,061	61,639	62,508	66,520	66,520	432	872	1,156	1,632	2,349	423	853	1,130	1,596	2,296	
8/31/99	59,655	63,174	64,065	64,527	64,910	65,553	66,520	66,520	66,520	649	1,063	1,406	1,984	2,853	628	1,028	1,361	1,920	2,760	
8/31/00	61,958	63,143	63,625	64,025	64,741	65,817	66,520	66,520	66,520	892	1,354	1,736	2,380	3,347	854	1,297	1,664	2,280	3,207	
8/31/01	60,399	61,809	62,235	62,676	63,442	64,594	65,817	66,520	66,520	1,186	1,667	2,067	2,783	3,859	1,129	1,587	1,968	2,649	3,673	
8/31/02	60,177	61,832	61,914	62,086	62,403	63,442	64,594	65,817	65,817	1,410	1,836	2,277	3,043	4,195	1,330	1,732	2,147	2,870	3,957	
8/31/03	40,606	41,921	41,956	42,092	42,342	43,119	43,593	43,593	43,593	1,655	1,737	1,908	2,226	2,702	1,546	1,622	1,782	2,079	2,524	
8/31/04	41,031	42,555	42,631	42,804	43,119	43,593	43,593	43,593	43,593	1,524	1,599	1,773	2,088	2,562	1,402	1,471	1,631	1,921	2,357	
8/31/05	32,218	33,587	33,717	33,896	34,210	34,682	34,682	34,682	34,682	1,369	1,499	1,677	1,991	2,464	1,249	1,368	1,531	1,817	2,248	
8/31/06	34,288	35,892	36,045	36,243	36,608	37,155	37,155	37,155	37,155	1,603	1,757	1,955	2,319	2,867	1,449	1,589	1,767	2,097	2,592	
8/31/07	37,887	39,845	40,081	40,337	40,809	41,517	41,517	41,517	41,517	1,958	2,194	2,450	2,921	3,630	1,753	1,964	2,193	2,615	3,250	
8/31/08	35,148	37,162	37,441	37,727	38,243	39,019	39,019	39,019	39,019	2,013	2,293	2,579	3,095	3,871	1,788	2,037	2,291	2,749	3,438	
8/31/09	38,636	41,063	41,567	41,931	43,588	44,227	44,227	44,227	44,227	2,427	2,931	3,295	3,957	4,951	2,136	2,580	2,901	3,483	4,359	
8/31/10	37,978	40,719	41,241	41,632	42,349	43,428	43,428	43,428	43,428	2,740	3,263	3,653	4,371	5,450	2,408	2,868	3,211	3,842	4,789	
8/31/11	31,699	34,289	34,697	35,025	35,631	36,540	36,540	36,540	36,540	2,590	2,998	3,326	3,931	4,841	2,265	2,622	2,910	3,439	4,234	
8/31/12	31,120	34,072	34,515	34,909	35,614	36,673	36,673	36,673	36,673	2,953	3,395	3,789	4,494	5,553	2,575	2,962	3,305	3,920	4,844	
8/31/13	32,509	36,114	36,673	37,185	38,085	39,437	39,437	39,437	39,437	3,605	4,164	4,677	5,576	6,929	3,154	3,643	4,091	4,879	6,062	
8/31/14	31,180	35,340	36,107	36,627	37,624	39,136	39,136	39,136	39,136	4,160	4,927	5,448	6,444	7,956	3,648	4,321	4,777	5,651	6,977	
8/31/15	34,125	40,405	41,475	42,124	43,355	45,261	45,261	45,261	45,261	6,279	7,350	7,999	9,309	11,136	5,605	6,561	7,140	8,239	9,940	
8/31/16	26,876	36,753	37,757	38,517	39,975	42,201	42,201	42,201	42,201	9,876	10,880	11,641	13,099	15,325	9,109	10,035	10,736	12,080	14,134	
8/31/17	14,475	38,872	39,912	40,712	42,059	44,357	44,357	44,357	44,357	24,397	25,436	26,237	27,583	29,882	23,262	24,253	25,017	26,300	28,492	
8/31/18	1,579,423	1,654,740	1,664,807	1,673,065	1,687,897	1,710,568	1,710,568	1,710,568	1,710,568	75,318	85,384	93,643	108,474	131,145	69,216	78,454	86,027	99,610	120,383	
Totals																				

Exhibit 1

State Office of Risk Management

Workers Compensation Program

Summary of Unpaid Claims (000's) as of 8/31/18

Indemnity and Medical Claims Valued Separately

Fiscal Year Ending	Total Claims																	
	Ultimate Incurred Amounts						Liability for Unpaid Claims Discounted @ 3%						Liability for Unpaid Claims Discounted @ 4%					
	08/31/18	Indicated Amounts	50% Confidence	60% Confidence	75% Confidence	90% Confidence	Indicated Amounts	50% Confidence	60% Confidence	75% Confidence	90% Confidence	Indicated Amounts	50% Confidence	60% Confidence	75% Confidence	90% Confidence		
8/31/82	12,503	12,503	12,503	12,503	12,503	12,503	0	0	0	0	0	0	0	0	0	0	0	
8/31/83	14,179	14,179	14,179	14,179	14,179	14,179	0	0	0	0	0	0	0	0	0	0	0	
8/31/84	21,778	21,778	21,778	21,778	21,778	21,778	0	0	0	0	0	0	0	0	0	0	0	
8/31/85	23,186	23,186	23,186	23,186	23,186	23,186	0	0	0	0	0	0	0	0	0	0	0	
8/31/86	29,362	29,362	29,362	29,362	29,362	29,362	0	0	0	0	0	0	0	0	0	0	0	
8/31/87	32,873	32,873	32,873	32,873	32,873	32,873	0	0	0	0	0	0	0	0	0	0	0	
8/31/88	48,087	48,087	48,087	48,087	48,087	48,087	0	0	0	0	0	0	0	0	0	0	0	
8/31/89	51,382	51,382	51,382	51,382	51,382	51,382	0	0	0	0	0	0	0	0	0	0	0	
8/31/90	59,547	59,547	59,547	59,547	59,547	59,547	0	0	0	0	0	0	0	0	0	0	0	
8/31/91	52,530	52,530	52,530	52,530	52,530	52,530	0	0	0	0	0	0	0	0	0	0	0	
8/31/92	53,775	53,775	53,775	53,775	53,775	53,775	0	0	0	0	0	0	0	0	0	0	0	
8/31/93	50,129	50,129	50,129	50,129	50,129	50,129	0	0	0	0	0	0	0	0	0	0	0	
8/31/94	55,110	55,110	55,110	55,110	55,110	55,110	0	0	0	0	0	0	0	0	0	0	0	
8/31/95	55,540	55,540	55,540	55,540	55,540	55,540	0	0	0	0	0	0	0	0	0	0	0	
8/31/96	54,187	54,187	54,187	54,187	54,187	54,187	0	0	0	0	0	0	0	0	0	0	0	
8/31/97	57,012	57,297	57,831	58,118	58,601	59,326	281	807	1,090	1,566	2,280	280	803	1,085	1,558	2,269	2,269	
8/31/98	56,277	56,710	57,150	57,433	57,910	58,626	418	843	1,117	1,578	2,270	413	834	1,105	1,560	2,245	2,245	
8/31/99	59,655	60,304	60,717	61,061	61,639	62,508	618	1,012	1,339	1,889	2,716	608	996	1,318	1,859	2,673	2,673	
8/31/00	63,174	64,065	64,527	64,910	65,553	66,520	837	1,270	1,629	2,233	3,141	820	1,245	1,596	2,188	3,077	3,077	
8/31/01	61,958	63,143	63,625	64,025	64,741	65,817	1,102	1,549	1,921	2,587	3,586	1,076	1,513	1,877	2,527	3,503	3,503	
8/31/02	60,399	61,809	62,235	62,676	63,442	64,594	1,293	1,684	2,087	2,790	3,847	1,257	1,637	2,030	2,714	3,741	3,741	
8/31/03	60,177	61,832	61,914	62,086	62,403	62,880	1,496	1,569	1,725	2,011	2,442	1,448	1,519	1,670	1,947	2,364	2,364	
8/31/04	40,606	41,921	41,956	42,092	42,342	42,716	1,177	1,208	1,330	1,553	1,888	1,136	1,166	1,284	1,499	1,823	1,823	
8/31/05	41,031	42,555	42,631	42,804	43,119	43,593	1,347	1,414	1,567	1,846	2,265	1,296	1,360	1,507	1,775	2,178	2,178	
8/31/06	32,218	33,587	33,717	33,896	34,210	34,682	1,196	1,309	1,465	1,740	2,152	1,146	1,255	1,404	1,667	2,062	2,062	
8/31/07	34,288	35,892	36,045	36,243	36,608	37,155	1,381	1,514	1,684	1,998	2,470	1,318	1,445	1,607	1,907	2,357	2,357	
8/31/08	37,887	39,845	40,081	40,337	40,809	41,517	1,663	1,863	2,081	2,481	3,083	1,580	1,770	1,977	2,357	2,929	2,929	
8/31/09	35,148	37,162	37,441	37,727	38,243	39,019	1,690	1,925	2,165	2,599	3,250	1,601	1,823	2,051	2,461	3,077	3,077	
8/31/10	38,636	41,063	41,567	41,931	42,593	43,588	2,011	2,428	2,731	3,279	4,103	1,897	2,290	2,576	3,093	3,870	3,870	
8/31/11	37,978	40,719	41,241	41,632	42,349	43,428	2,266	2,699	3,021	3,615	4,507	2,138	2,545	2,850	3,409	4,251	4,251	
8/31/12	31,699	34,289	34,697	35,025	35,631	36,540	2,127	2,462	2,732	3,230	3,977	2,003	2,319	2,573	3,041	3,744	3,744	
8/31/13	31,120	34,072	34,515	34,909	35,614	36,673	2,416	2,779	3,101	3,678	4,545	2,274	2,615	2,918	3,460	4,276	4,276	
8/31/14	32,509	36,114	36,673	37,185	38,085	39,437	2,965	3,424	3,846	4,586	5,698	2,795	3,229	3,626	4,324	5,373	5,373	
8/31/15	31,180	35,340	36,107	36,627	37,624	39,136	3,434	4,068	4,497	5,320	6,568	3,244	3,842	4,248	5,025	6,204	6,204	
8/31/16	34,125	40,405	41,475	42,124	43,355	45,261	5,324	6,231	6,782	7,825	9,441	5,073	5,938	6,462	7,457	8,996	8,996	
8/31/17	26,876	36,753	37,757	38,517	39,975	42,201	8,786	9,679	10,356	11,653	13,634	8,497	9,361	10,015	11,269	13,185	13,185	
8/31/18	14,475	38,872	39,912	40,712	42,059	44,357	22,774	23,744	24,491	25,748	27,894	22,328	23,280	24,012	25,245	27,348	27,348	
Totals	\$ 1,579,423	\$ 1,654,740	\$ 1,664,807	\$ 1,673,065	\$ 1,687,897	\$ 1,710,568	\$ 66,601	\$ 75,483	\$ 82,759	\$ 95,803	\$ 115,756	\$ 64,227	\$ 72,784	\$ 79,790	\$ 92,343	\$ 111,548	\$ 111,548	

Exhibit 1

State Office of Risk Management

Workers Compensation Program

Summary of Unpaid Claims (000's) as of 8/31/18

Indemnity and Medical Claims Valued Together

Fiscal Year Ending	Total Claims																	
	08/31/16				Ultimate Incurred Amounts				Undiscounted Liability for Unpaid Claims				Liability for Unpaid Claims Discounted @ 2%					
	Paid Amounts	Indicated Amounts	50% Confidence	90% Confidence	50% Confidence	60% Confidence	75% Confidence	90% Confidence	Indicated Amounts	50% Confidence	60% Confidence	75% Confidence	90% Confidence	Indicated Amounts	50% Confidence	60% Confidence	75% Confidence	90% Confidence
8/31/82	12,503	12,503	12,503	12,503	12,503	12,503	12,503	12,503	0	0	0	0	0	0	0	0	0	0
8/31/83	14,179	14,179	14,179	14,179	14,179	14,179	14,179	14,179	0	0	0	0	0	0	0	0	0	0
8/31/84	21,778	21,778	21,778	21,778	21,778	21,778	21,778	21,778	0	0	0	0	0	0	0	0	0	0
8/31/85	23,186	23,186	23,186	23,186	23,186	23,186	23,186	23,186	0	0	0	0	0	0	0	0	0	0
8/31/86	29,362	29,362	29,362	29,362	29,362	29,362	29,362	29,362	0	0	0	0	0	0	0	0	0	0
8/31/87	32,873	32,873	32,873	32,873	32,873	32,873	32,873	32,873	0	0	0	0	0	0	0	0	0	0
8/31/88	48,087	48,087	48,087	48,087	48,087	48,087	48,087	48,087	0	0	0	0	0	0	0	0	0	0
8/31/89	51,382	51,382	51,382	51,382	51,382	51,382	51,382	51,382	0	0	0	0	0	0	0	0	0	0
8/31/90	59,547	59,547	59,547	59,547	59,547	59,547	59,547	59,547	0	0	0	0	0	0	0	0	0	0
8/31/91	52,530	52,530	52,530	52,530	52,530	52,530	52,530	52,530	0	0	0	0	0	0	0	0	0	0
8/31/92	53,775	53,775	53,775	53,775	53,775	53,775	53,775	53,775	0	0	0	0	0	0	0	0	0	0
8/31/93	50,129	50,129	50,129	50,129	50,129	50,129	50,129	50,129	0	0	0	0	0	0	0	0	0	0
8/31/94	55,110	55,110	55,110	55,110	55,110	55,110	55,110	55,110	0	0	0	0	0	0	0	0	0	0
8/31/95	55,540	55,540	55,540	55,540	55,540	55,540	55,540	55,540	0	0	0	0	0	0	0	0	0	0
8/31/96	54,187	54,187	54,187	54,187	54,187	54,187	54,187	54,187	0	0	0	0	0	0	0	0	0	0
8/31/97	57,298	57,298	57,298	57,298	57,298	57,298	57,298	57,298	287	750	961	1,316	1,849	284	743	952	1,303	1,830
8/31/98	56,277	56,713	57,075	57,075	57,293	58,327	58,327	58,207	436	798	1,015	1,381	1,930	426	780	993	1,350	1,887
8/31/99	59,655	60,308	60,633	60,894	61,332	61,991	61,991	61,991	653	979	1,239	1,678	2,336	632	947	1,199	1,623	2,261
8/31/00	63,174	64,084	64,469	64,768	65,270	66,024	66,024	66,024	911	1,296	1,594	2,096	2,851	873	1,242	1,528	2,009	2,732
8/31/01	61,958	63,141	63,459	63,782	64,324	65,139	65,139	65,139	1,184	1,501	1,824	2,366	3,181	1,127	1,429	1,736	2,252	3,028
8/31/02	60,399	61,809	62,104	62,451	63,033	63,909	63,909	63,909	1,409	1,705	2,051	2,634	3,509	1,329	1,608	1,935	2,484	3,310
8/31/03	60,177	61,801	61,817	61,969	62,224	62,607	62,607	62,607	1,624	1,640	1,791	2,046	2,429	1,516	1,531	1,673	1,911	2,269
8/31/04	40,606	41,943	41,946	42,068	42,274	42,583	42,583	42,583	1,337	1,340	1,462	1,668	1,977	1,241	1,243	1,357	1,548	1,835
8/31/05	41,031	42,597	42,644	42,801	43,065	43,461	43,461	43,461	1,565	1,613	1,770	2,033	2,430	1,441	1,485	1,629	1,872	2,237
8/31/06	32,218	33,627	33,737	33,895	34,159	34,556	34,556	34,556	1,409	1,519	1,676	1,941	2,338	1,287	1,387	1,531	1,772	2,135
8/31/07	34,288	35,959	36,086	36,265	36,567	37,021	37,021	37,021	1,671	1,798	1,977	2,279	2,733	1,512	1,626	1,789	2,062	2,472
8/31/08	37,887	39,916	40,119	40,349	40,735	41,316	41,316	41,316	2,029	2,232	2,462	2,848	3,428	1,818	2,000	2,205	2,551	3,071
8/31/09	35,148	37,239	37,494	37,742	38,159	38,786	38,786	38,786	2,091	2,346	2,594	3,011	3,638	1,858	2,085	2,305	2,676	3,233
8/31/10	38,636	41,149	41,604	41,917	42,445	43,237	43,237	43,237	2,513	2,968	3,281	3,809	4,601	2,215	2,616	2,892	3,357	4,056
8/31/11	37,978	40,817	41,288	41,645	42,245	43,147	43,147	43,147	2,839	3,310	3,667	4,267	5,169	2,496	2,910	3,223	3,751	4,544
8/31/12	31,699	34,362	34,710	35,001	35,492	36,230	36,230	36,230	2,663	3,011	3,302	3,793	4,531	2,331	2,635	2,890	3,319	3,965
8/31/13	31,120	34,139	34,502	34,841	35,412	36,269	36,269	36,269	3,019	3,382	3,721	4,292	5,149	2,638	2,955	3,252	4,499	4,499
8/31/14	32,509	36,197	36,705	37,149	37,896	39,018	39,018	39,018	3,688	4,196	4,640	5,387	6,509	3,225	3,669	4,058	5,692	5,692
8/31/15	31,180	35,427	36,031	36,531	37,372	38,635	38,635	38,635	4,247	4,851	5,351	6,192	7,456	3,726	4,256	4,695	6,541	6,541
8/31/16	34,125	40,499	41,357	41,992	43,060	44,665	44,665	44,665	6,374	7,232	7,867	8,935	10,540	5,685	6,450	7,016	9,400	9,400
8/31/17	26,876	36,848	37,596	38,370	39,673	41,630	41,630	41,630	9,972	10,720	11,494	12,779	14,754	9,189	9,879	10,592	13,596	13,596
8/31/18	14,475	39,006	39,367	40,217	41,645	43,793	43,793	43,793	24,531	24,892	25,741	27,170	29,317	23,379	23,723	24,533	27,941	27,941
Totals	\$ 1,579,423	\$ 1,655,874	\$ 1,663,499	\$ 1,670,905	\$ 1,683,359	\$ 1,702,078	\$ 1,702,078	\$ 1,702,078	\$ 76,451	\$ 84,076	\$ 91,483	\$ 103,937	\$ 122,655	\$ 70,228	\$ 77,199	\$ 83,983	\$ 103,511	\$ 112,535

Exhibit 1

State Office of Risk Management

Workers Compensation Program

Summary of Unpaid Claims (000's) as of 8/31/18

Indemnity and Medical Claims Valued Together

Fiscal Year Ending	Total Claims										Liability for Unpaid Claims Discounted @ 3%					Liability for Unpaid Claims Discounted @ 4%				
	Ultimate Incurred Amounts					Ultimate Incurred Amounts					Indicated Amounts					Indicated Amounts				
	08/31/16	50%	60%	75%	90%	08/31/16	50%	60%	75%	90%	Indicated Amounts	50% Confidence	60% Confidence	75% Confidence	90% Confidence	Indicated Amounts	50% Confidence	60% Confidence	75% Confidence	90% Confidence
8/31/82	12,503	12,503	12,503	12,503	12,503	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/83	14,179	14,179	14,179	14,179	14,179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/84	21,778	21,778	21,778	21,778	21,778	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/85	23,186	23,186	23,186	23,186	23,186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/86	29,362	29,362	29,362	29,362	29,362	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/87	32,873	32,873	32,873	32,873	32,873	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/88	48,087	48,087	48,087	48,087	48,087	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/89	51,382	51,382	51,382	51,382	51,382	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/90	59,547	59,547	59,547	59,547	59,547	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/91	52,530	52,530	52,530	52,530	52,530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/92	53,775	53,775	53,775	53,775	53,775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/93	50,129	50,129	50,129	50,129	50,129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/94	55,110	55,110	55,110	55,110	55,110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/95	55,540	55,540	55,540	55,540	55,540	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/96	54,187	54,187	54,187	54,187	54,187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/97	57,012	57,298	57,602	57,973	58,327	283	739	947	947	947	283	739	947	947	1,296	281	736	942	1,290	1,813
8/31/98	56,277	56,713	57,075	57,293	57,658	421	772	982	982	982	421	772	982	982	1,296	417	763	971	1,320	1,845
8/31/99	59,655	60,308	60,633	60,894	61,332	622	932	1,180	1,180	1,180	622	932	1,180	1,180	1,335	612	917	1,161	1,572	2,189
8/31/00	63,174	64,084	64,469	64,768	65,270	855	1,216	1,497	1,497	1,497	855	1,216	1,497	1,497	1,968	838	1,192	1,467	1,928	2,622
8/31/01	61,958	63,141	63,459	63,782	64,324	1,100	1,395	1,695	1,695	1,695	1,100	1,395	1,695	1,695	2,199	1,074	1,363	1,656	2,148	2,888
8/31/02	60,399	61,809	62,104	62,451	63,033	1,292	1,563	1,881	1,881	1,881	1,292	1,563	1,881	1,881	2,415	1,257	1,521	1,829	2,349	3,130
8/31/03	60,177	61,801	61,817	61,969	62,224	1,467	1,482	1,619	1,619	1,619	1,467	1,482	1,619	1,619	1,849	1,420	1,434	1,567	1,790	2,125
8/31/04	40,606	41,943	41,946	42,068	42,274	1,197	1,200	1,309	1,309	1,309	1,197	1,200	1,309	1,309	1,493	1,156	1,158	1,264	1,442	1,709
8/31/05	41,031	42,597	42,644	42,801	43,065	1,385	1,427	1,566	1,566	1,566	1,385	1,427	1,566	1,566	1,799	1,332	1,373	1,506	1,731	2,068
8/31/06	32,218	33,627	33,737	33,895	34,159	1,232	1,328	1,466	1,466	1,466	1,232	1,328	1,466	1,466	1,697	1,181	1,274	1,405	1,627	1,960
8/31/07	34,288	35,959	36,086	36,265	36,567	1,441	1,550	1,705	1,705	1,705	1,441	1,550	1,705	1,705	1,966	1,376	1,480	1,628	1,876	2,250
8/31/08	37,887	39,916	40,119	40,349	40,735	1,725	1,897	2,093	2,093	2,093	1,725	1,897	2,093	2,093	2,421	1,639	1,803	1,989	2,301	2,770
8/31/09	35,148	37,239	37,494	37,742	38,159	1,757	1,971	2,179	2,179	2,179	1,757	1,971	2,179	2,179	2,530	1,664	1,867	2,064	2,396	2,895
8/31/10	38,636	41,149	41,604	41,917	42,445	2,086	2,464	2,724	2,724	2,724	2,086	2,464	2,724	2,724	3,162	1,969	2,326	2,571	2,985	3,606
8/31/11	37,978	40,817	41,288	41,645	42,245	2,349	2,738	3,034	3,034	3,034	2,349	2,738	3,034	3,034	3,530	2,216	2,583	2,862	3,330	4,034
8/31/12	31,699	34,362	34,710	35,001	35,492	2,189	2,475	2,714	2,714	2,714	2,189	2,475	2,714	2,714	3,118	2,062	2,330	2,556	2,936	3,507
8/31/13	31,120	34,139	34,502	34,841	35,412	2,477	2,775	3,053	3,053	3,053	2,477	2,775	3,053	3,053	4,225	2,333	2,613	2,875	3,979	3,979
8/31/14	32,509	36,197	36,705	37,149	37,896	3,031	3,448	3,813	3,813	3,813	3,031	3,448	3,813	3,813	5,349	2,857	3,250	3,594	5,042	5,042
8/31/15	31,180	35,427	36,031	36,531	37,372	3,509	4,007	4,420	4,420	4,420	3,509	4,007	4,420	4,420	6,159	3,315	3,786	4,176	5,818	5,818
8/31/16	34,125	40,499	41,357	41,992	43,060	5,398	6,124	6,662	6,662	6,662	5,398	6,124	6,662	6,662	8,925	5,141	5,833	6,345	8,501	8,501
8/31/17	26,876	36,848	37,596	38,370	39,673	8,861	9,526	10,214	10,214	10,214	8,861	9,526	10,214	10,214	13,110	8,566	9,209	9,874	12,675	12,675
8/31/18	14,475	39,006	39,367	40,217	41,645	22,884	23,220	24,013	24,013	24,013	22,884	23,220	24,013	24,013	27,349	22,432	22,762	23,539	26,809	26,809
Totals	\$ 1,579,423	\$ 1,655,874	\$ 1,663,499	\$ 1,670,905	\$ 1,683,359	\$ 67,560	\$ 74,250	\$ 80,765	\$ 80,765	\$ 80,765	\$ 67,560	\$ 74,250	\$ 80,765	\$ 80,765	\$ 99,492	\$ 65,137	\$ 71,572	\$ 77,842	\$ 95,844	\$ 104,233

Exhibit 2

State Office of Risk Management

Workers Compensation Program

Summary of Incurred Claims (000's) as of 8/31/18

Indemnity and Medical Claims Valued Separately

Fiscal Year Ending	Indemnity Claims						Medical Claims						
	08/31/18			Ultimate Incurred Amounts			08/31/18			Ultimate Incurred Amounts			
	Paid Amounts	Liability for Unpaid	Indicated Amounts	50% Confidence	75% Confidence	90% Confidence	Paid Amounts	Liability for Unpaid	Indicated Amounts	50% Confidence	60% Confidence	75% Confidence	90% Confidence
8/31/82	7,498	0	7,498	7,498	7,498	7,498	5,005	0	5,005	5,005	5,005	5,005	5,005
8/31/83	7,762	0	7,762	7,762	7,762	7,762	6,417	0	6,417	6,417	6,417	6,417	6,417
8/31/84	11,838	0	11,838	11,838	11,838	11,838	9,940	0	9,940	9,940	9,940	9,940	9,940
8/31/85	13,266	0	13,266	13,266	13,266	13,266	9,920	0	9,920	9,920	9,920	9,920	9,920
8/31/86	17,191	0	17,191	17,191	17,191	17,191	12,170	0	12,170	12,170	12,170	12,170	12,170
8/31/87	18,003	0	18,003	18,003	18,003	18,003	14,870	0	14,870	14,870	14,870	14,870	14,870
8/31/88	22,459	0	22,459	22,459	22,459	22,459	25,628	0	25,628	25,628	25,628	25,628	25,628
8/31/89	27,653	0	27,653	27,653	27,653	27,653	23,728	0	23,728	23,728	23,728	23,728	23,728
8/31/90	32,736	0	32,736	32,736	32,736	32,736	26,811	0	26,811	26,811	26,811	26,811	26,811
8/31/91	24,424	0	24,424	24,424	24,424	24,424	28,106	0	28,106	28,106	28,106	28,106	28,106
8/31/92	22,261	0	22,261	22,261	22,261	22,261	31,514	0	31,514	31,514	31,514	31,514	31,514
8/31/93	21,302	0	21,302	21,302	21,302	21,302	28,827	0	28,827	28,827	28,827	28,827	28,827
8/31/94	23,876	0	23,876	23,876	23,876	23,876	31,233	0	31,233	31,233	31,233	31,233	31,233
8/31/95	24,305	0	24,305	24,305	24,305	24,305	31,235	0	31,235	31,235	31,235	31,235	31,235
8/31/96	20,990	0	20,990	20,990	20,990	20,990	33,197	0	33,197	33,197	33,197	33,197	33,197
8/31/97	22,438	114	22,551	22,621	22,673	22,760	34,574	172	34,746	35,209	35,445	35,841	36,436
8/31/98	23,121	158	23,279	23,298	23,337	23,403	33,157	274	33,431	33,852	34,096	34,507	35,124
8/31/99	24,302	201	24,504	24,512	24,557	24,632	35,352	448	35,800	36,205	36,504	37,007	37,762
8/31/00	27,667	266	27,932	27,959	28,011	28,100	35,507	626	36,133	36,569	36,899	37,454	38,288
8/31/01	24,445	300	24,745	24,745	24,759	24,825	37,512	886	38,398	38,879	39,266	39,916	40,893
8/31/02	23,896	360	24,256	24,256	24,281	24,348	36,504	1,050	37,553	37,979	38,395	39,095	40,146
8/31/03	21,705	385	22,089	22,090	22,116	22,188	38,473	1,270	39,743	39,824	39,970	40,215	40,583
8/31/04	17,042	350	17,392	17,392	17,421	17,489	23,564	965	24,529	24,564	24,672	24,852	25,124
8/31/05	18,875	418	19,293	19,293	19,322	19,390	23,347	1,106	24,453	24,528	24,665	24,896	25,243
8/31/06	13,877	373	14,250	14,250	14,287	14,363	18,341	996	19,338	19,467	19,608	19,847	20,205
8/31/07	15,404	463	15,867	15,867	15,905	15,999	18,884	1,141	20,025	20,178	20,339	20,608	21,013
8/31/08	16,761	566	17,327	17,328	17,375	17,494	21,127	1,391	22,518	22,753	22,963	23,314	23,844
8/31/09	15,701	607	16,308	16,309	16,366	16,499	19,447	1,406	20,853	21,133	21,361	21,745	22,321
8/31/10	16,711	737	17,448	17,458	17,520	17,672	21,925	1,689	23,615	24,108	24,411	24,921	25,686
8/31/11	16,788	948	17,736	17,743	17,799	17,955	21,190	1,792	22,982	23,499	23,832	24,394	25,237
8/31/12	13,437	937	14,375	14,379	14,425	14,555	18,262	1,653	19,914	20,318	20,600	21,075	21,789
8/31/13	12,074	1,066	13,140	13,140	13,194	13,328	19,045	1,887	20,932	21,375	21,715	22,286	23,144
8/31/14	13,784	1,508	15,291	15,297	15,386	15,575	18,725	2,097	20,822	21,376	21,799	22,510	23,580
8/31/15	12,421	1,688	14,109	14,126	14,126	14,247	18,759	2,472	21,231	21,981	22,502	23,377	24,691
8/31/16	13,840	2,799	16,639	16,669	16,669	16,809	20,285	3,481	23,766	24,806	25,455	26,547	28,187
8/31/17	10,338	4,875	15,213	15,267	15,267	15,446	16,538	5,001	21,539	22,490	23,250	24,528	26,450
8/31/18	4,142	11,414	15,556	15,556	15,556	15,556	10,334	12,982	23,316	24,356	25,156	26,503	28,527
Totals	\$ 700,418	\$ 30,533	\$ 730,951	\$ 731,204	\$ 732,010	\$ 734,309	\$ 879,005	\$ 44,785	\$ 923,790	\$ 933,603	\$ 941,055	\$ 953,588	\$ 972,424

Exhibit 2

State Office of Risk Management

Workers Compensation Program

Summary of Incurred Claims (000's) as of 8/31/18

Fiscal Year Ending	Indemnity and Medical Claims Valued Separately										Total Claims										
	08/31/18					Ultimate Incurred Amounts					08/31/18					Ultimate Incurred Amounts					
	Paid Amounts	Liability for Unpaid	Indicated Amounts	50% Confidence	90% Confidence	Paid Amounts	Liability for Unpaid	Incurred Amounts	50% Confidence	90% Confidence	Paid Amounts	Liability for Unpaid	Incurred Amounts	50% Confidence	90% Confidence	Paid Amounts	Liability for Unpaid	Incurred Amounts	50% Confidence	90% Confidence	
8/31/82	12,503	0	12,503	12,503	12,503	12,503	0	12,503	12,503	12,503	12,503	0	12,503	12,503	12,503	12,503	0	12,503	12,503	12,503	12,503
8/31/83	14,179	0	14,179	14,179	14,179	14,179	0	14,179	14,179	14,179	14,179	0	14,179	14,179	14,179	14,179	0	14,179	14,179	14,179	14,179
8/31/84	21,778	0	21,778	21,778	21,778	21,778	0	21,778	21,778	21,778	21,778	0	21,778	21,778	21,778	21,778	0	21,778	21,778	21,778	21,778
8/31/85	23,186	0	23,186	23,186	23,186	23,186	0	23,186	23,186	23,186	23,186	0	23,186	23,186	23,186	23,186	0	23,186	23,186	23,186	23,186
8/31/86	29,362	0	29,362	29,362	29,362	29,362	0	29,362	29,362	29,362	29,362	0	29,362	29,362	29,362	29,362	0	29,362	29,362	29,362	29,362
8/31/87	32,873	0	32,873	32,873	32,873	32,873	0	32,873	32,873	32,873	32,873	0	32,873	32,873	32,873	32,873	0	32,873	32,873	32,873	32,873
8/31/88	48,087	0	48,087	48,087	48,087	48,087	0	48,087	48,087	48,087	48,087	0	48,087	48,087	48,087	48,087	0	48,087	48,087	48,087	48,087
8/31/89	51,382	0	51,382	51,382	51,382	51,382	0	51,382	51,382	51,382	51,382	0	51,382	51,382	51,382	51,382	0	51,382	51,382	51,382	51,382
8/31/90	59,547	0	59,547	59,547	59,547	59,547	0	59,547	59,547	59,547	59,547	0	59,547	59,547	59,547	59,547	0	59,547	59,547	59,547	59,547
8/31/91	52,530	0	52,530	52,530	52,530	52,530	0	52,530	52,530	52,530	52,530	0	52,530	52,530	52,530	52,530	0	52,530	52,530	52,530	52,530
8/31/92	53,775	0	53,775	53,775	53,775	53,775	0	53,775	53,775	53,775	53,775	0	53,775	53,775	53,775	53,775	0	53,775	53,775	53,775	53,775
8/31/93	50,129	0	50,129	50,129	50,129	50,129	0	50,129	50,129	50,129	50,129	0	50,129	50,129	50,129	50,129	0	50,129	50,129	50,129	50,129
8/31/94	55,110	0	55,110	55,110	55,110	55,110	0	55,110	55,110	55,110	55,110	0	55,110	55,110	55,110	55,110	0	55,110	55,110	55,110	55,110
8/31/95	55,540	0	55,540	55,540	55,540	55,540	0	55,540	55,540	55,540	55,540	0	55,540	55,540	55,540	55,540	0	55,540	55,540	55,540	55,540
8/31/96	54,187	0	54,187	54,187	54,187	54,187	0	54,187	54,187	54,187	54,187	0	54,187	54,187	54,187	54,187	0	54,187	54,187	54,187	54,187
8/31/97	57,012	285	57,297	57,831	58,118	58,601	287	57,012	57,012	57,012	57,012	287	57,298	57,762	57,973	58,327	287	57,298	57,762	58,327	58,860
8/31/98	56,277	432	56,710	57,150	57,433	57,910	436	56,277	56,277	56,277	56,277	436	56,713	57,075	57,293	57,658	436	56,713	57,075	57,658	58,207
8/31/99	59,655	649	60,304	60,717	61,061	61,639	653	59,655	59,655	59,655	59,655	653	60,308	60,633	60,894	61,332	653	60,308	60,633	61,332	61,991
8/31/00	63,174	892	64,065	64,527	64,910	65,553	911	63,174	63,174	63,174	63,174	911	64,084	64,469	64,768	65,270	911	64,084	64,469	65,270	66,024
8/31/01	61,958	1,186	63,143	63,625	64,025	64,741	1,184	61,958	61,958	61,958	61,958	1,184	63,141	63,459	63,782	64,324	1,184	63,141	63,459	63,782	65,139
8/31/01	60,399	1,410	61,809	62,235	62,676	63,442	1,409	60,399	60,399	60,399	60,399	1,409	61,809	62,104	62,451	63,033	1,409	61,809	62,104	63,033	63,909
8/31/01	60,177	1,655	61,832	61,914	62,086	62,403	1,624	60,177	60,177	60,177	60,177	1,624	61,801	61,969	62,224	62,607	1,624	61,801	61,969	62,224	62,607
8/31/01	40,606	1,315	41,921	41,956	42,092	42,342	1,337	40,606	40,606	40,606	40,606	1,337	41,943	41,946	42,068	42,583	1,337	41,943	41,946	42,274	42,583
8/31/01	41,031	1,524	42,555	42,631	42,804	43,119	1,565	41,031	41,031	41,031	41,031	1,565	42,597	42,644	42,801	43,461	1,565	42,597	42,644	43,065	43,461
8/31/01	32,218	1,369	33,587	33,717	33,896	34,210	1,409	32,218	32,218	32,218	32,218	1,409	33,627	33,737	33,895	34,556	1,409	33,627	33,737	34,159	34,556
8/31/07	34,288	1,603	35,892	36,045	36,243	36,608	1,671	34,288	34,288	34,288	34,288	1,671	35,959	36,086	36,265	37,021	1,671	35,959	36,086	36,567	37,021
8/31/08	37,887	1,958	39,845	40,081	40,337	40,809	2,029	37,887	37,887	37,887	37,887	2,029	39,916	40,119	40,349	41,316	2,029	39,916	40,119	40,735	41,316
8/31/09	35,148	2,013	37,162	37,441	37,727	38,243	2,091	35,148	35,148	35,148	35,148	2,091	37,239	37,494	37,742	38,786	2,091	37,239	37,494	38,159	38,786
8/31/10	38,636	2,427	41,063	41,567	41,931	42,593	2,513	38,636	38,636	38,636	38,636	2,513	41,149	41,604	41,917	43,237	2,513	41,149	41,604	42,445	43,237
8/31/11	37,978	2,740	40,719	41,241	41,632	42,349	2,839	37,978	37,978	37,978	37,978	2,839	40,817	41,288	41,645	43,147	2,839	40,817	41,288	42,245	43,147
8/31/12	31,699	2,590	34,289	34,697	35,025	35,631	2,663	31,699	31,699	31,699	31,699	2,663	34,362	34,710	35,001	36,230	2,663	34,362	34,710	35,492	36,230
8/31/13	31,120	2,953	34,072	34,515	34,909	35,614	3,019	31,120	31,120	31,120	31,120	3,019	34,139	34,502	34,841	36,269	3,019	34,139	34,502	35,412	36,269
8/31/14	32,509	3,605	36,114	36,673	37,185	38,085	3,688	32,509	32,509	32,509	32,509	3,688	36,197	36,705	37,149	39,018	3,688	36,197	36,705	37,896	39,018
8/31/15	31,180	4,160	35,340	36,107	36,627	37,620	4,247	31,180	31,180	31,180	31,180	4,247	35,427	36,031	36,531	38,635	4,247	35,427	36,031	37,372	38,635
8/31/16	34,125	6,279	40,405	41,475	42,124	43,355	6,374	34,125	34,125	34,125	34,125	6,374	40,499	41,357	41,992	44,665	6,374	40,499	41,357	43,060	44,665
8/31/17	26,876	9,876	36,753	37,757	38,517	39,975	9,972	26,876	26,876	26,876	26,876	9,972	36,848	37,596	38,370	41,630	9,972	36,848	37,596	39,673	41,630
8/31/18	14,475	24,397	38,872	39,912	40,712	42,059	24,531	14,475	14,475	14,475	14,475	24,531	39,006	39,367	40,217	43,793	24,531	39,006	39,367	41,645	43,793
Totals	\$ 1,579,423	\$ 75,318	\$ 1,654,740	\$ 1,664,807	\$ 1,673,065	\$ 1,687,897	\$ 76,451	\$ 1,579,423	\$ 1,579,423	\$ 1,579,423	\$ 1,579,423	\$ 76,451	\$ 1,655,874	\$ 1,663,499	\$ 1,670,905	\$ 1,702,078	\$ 76,451	\$ 1,655,874	\$ 1,663,499	\$ 1,683,359	\$ 1,702,078

Exhibit 3

State Office of Risk Management

Workers Compensation Program

Summary of Paid Claims Projection (000's) as of 8/31/18

<i>Claims Incurred in Fiscal Year Ending</i>	<i>Total Claims: Sum of Indemnity and Medical Claims</i>						
	<i>Liability for Unpaid Claims @ 8/31/18</i>	<i>To Be Paid Between 9/1/18 and 8/31/19</i>		<i>To Be Paid Between 9/1/19 and 8/31/20</i>		<i>To Be Paid Between 9/1/20 and 8/31/21</i>	
		<i>Percent of Unpaid</i>	<i>Dollars</i>	<i>Percent of Unpaid</i>	<i>Dollars</i>	<i>Percent of Unpaid</i>	<i>Dollars</i>
8/31/97	285	100.00%	285	0.00%	0	0.00%	0
8/31/98	432	34.63%	150	65.37%	283	0.00%	0
8/31/99	649	28.94%	188	24.66%	160	46.40%	301
8/31/00	892	23.62%	211	21.77%	194	18.73%	167
8/31/01	1,186	24.01%	285	18.33%	217	16.81%	199
8/31/02	1,410	17.61%	248	19.78%	279	15.10%	213
8/31/03	1,655	13.85%	229	15.15%	251	17.11%	283
8/31/04	1,315	16.63%	219	11.59%	152	12.65%	166
8/31/05	1,524	12.98%	198	14.44%	220	10.10%	154
8/31/06	1,369	12.07%	165	11.41%	156	12.70%	174
8/31/07	1,603	9.83%	158	10.88%	174	10.29%	165
8/31/08	1,958	8.62%	169	8.98%	176	9.95%	195
8/31/09	2,013	9.35%	188	7.82%	158	8.14%	164
8/31/10	2,427	7.96%	193	8.56%	208	7.17%	174
8/31/11	2,740	12.36%	339	7.04%	193	7.53%	206
8/31/12	2,590	10.42%	270	10.92%	283	6.24%	162
8/31/13	2,953	11.81%	349	8.87%	262	9.38%	277
8/31/14	3,605	13.59%	490	10.57%	381	7.93%	286
8/31/15	4,160	15.28%	636	11.35%	472	8.76%	364
8/31/16	6,279	24.79%	1,557	11.55%	725	8.60%	540
8/31/17	9,876	41.11%	4,060	14.58%	1,440	6.79%	671
8/31/18	24,397	57.48%	14,023	17.44%	4,256	6.20%	1,511
8/31/19	40,136	*	15,129	35.80%	14,367	10.90%	4,376
8/31/20	41,496	*		37.76%	15,668	35.77%	14,842
8/31/21	42,905	*				37.82%	16,227
Totals	\$ 199,854		\$ 39,737		\$ 40,674		\$ 41,817

*Amounts expected to be incurred for fiscal years ending 8/31/18, 8/31/19 and 8/31/20, respectively

Exhibit 3

State Office of Risk Management

Workers Compensation Program Summary of Paid Claims Projection (000's) as of 8/31/18

<i>Claims Incurred in Fiscal Year Ending</i>	<i>Indemnity Claims</i>						
	<i>Liability for Unpaid Claims @ 8/31/18</i>	<i>To Be Paid Between 9/1/18 and 8/31/19</i>		<i>To Be Paid Between 9/1/19 and 8/31/20</i>		<i>To Be Paid Between 9/1/20 and 8/31/21</i>	
		<i>Percent of Unpaid</i>	<i>Dollars</i>	<i>Percent of Unpaid</i>	<i>Dollars</i>	<i>Percent of Unpaid</i>	<i>Dollars</i>
8/31/97	114	100.00%	114	0.00%	0	0.00%	\$ 0
8/31/98	158	25.58%	40	74.42%	118	0.00%	0
8/31/99	201	17.44%	35	21.12%	43	61.44%	124
8/31/00	266	13.81%	37	15.03%	40	18.20%	48
8/31/01	300	21.28%	64	10.87%	33	11.83%	35
8/31/02	360	18.36%	66	17.37%	63	8.88%	32
8/31/03	385	14.83%	57	15.64%	60	14.80%	57
8/31/04	350	13.45%	47	12.83%	45	13.54%	47
8/31/05	418	12.84%	54	11.72%	49	11.19%	47
8/31/06	373	11.89%	44	11.31%	42	10.33%	39
8/31/07	463	10.15%	47	10.68%	49	10.16%	47
8/31/08	566	10.92%	62	9.04%	51	9.52%	54
8/31/09	607	12.08%	73	9.60%	58	7.95%	48
8/31/10	737	12.98%	96	10.51%	77	8.35%	62
8/31/11	948	20.43%	194	10.32%	98	8.36%	79
8/31/12	937	17.83%	167	16.79%	157	8.48%	80
8/31/13	1,066	19.23%	205	14.40%	153	13.56%	145
8/31/14	1,508	18.04%	272	15.76%	238	11.80%	178
8/31/15	1,688	18.05%	305	14.79%	250	12.91%	218
8/31/16	2,799	28.88%	808	12.84%	359	10.52%	294
8/31/17	4,875	47.43%	2,312	15.18%	740	6.75%	329
8/31/18	11,414	55.73%	6,362	21.00%	2,397	6.72%	767
8/31/19	16,319	*	4,417	40.65%	6,634	15.31%	2,499
8/31/20	16,727	*		27.07%	4,527	40.65%	6,799
8/31/21	17,145	*				27.07%	4,640
Totals	\$ 80,723		\$ 15,878		\$ 16,281		\$ 16,668

*Amounts expected to be incurred for fiscal years ending 8/31/18, 8/31/19 and 8/31/20, respectively

Exhibit 3

State Office of Risk Management

Workers Compensation Program

Summary of Paid Claims Projection (000's) as of 8/31/18

<i>Claims Incurred in Fiscal Year Ending</i>	<i>Medical Claims</i>						
	<i>Liability for Unpaid Claims @ 8/31/18</i>	<i>To Be Paid Between 9/1/18 and 8/31/19</i>		<i>To Be Paid Between 9/1/19 and 8/31/20</i>		<i>To Be Paid Between 9/1/20 and 8/31/21</i>	
		<i>Percent of Unpaid</i>	<i>Dollars</i>	<i>Percent of Unpaid</i>	<i>Dollars</i>	<i>Percent of Unpaid</i>	<i>Dollars</i>
8/31/97	172	100.00%	172	0.00%	\$ 0	0.00%	\$ 0
8/31/98	274	39.84%	109	60.16%	165	0.00%	\$ 0
8/31/99	448	34.11%	153	26.25%	118	39.64%	178
8/31/00	626	27.78%	174	24.64%	154	18.96%	119
8/31/01	886	24.93%	221	20.85%	185	18.49%	164
8/31/02	1,050	17.35%	182	20.60%	216	17.23%	181
8/31/03	1,270	13.55%	172	15.00%	191	17.81%	226
8/31/04	965	17.79%	172	11.14%	107	12.33%	119
8/31/05	1,106	13.03%	144	15.47%	171	9.69%	107
8/31/06	996	12.14%	121	11.45%	114	13.59%	135
8/31/07	1,141	9.70%	111	10.96%	125	10.34%	118
8/31/08	1,391	7.68%	107	8.96%	125	10.12%	141
8/31/09	1,406	8.18%	115	7.06%	99	8.22%	116
8/31/10	1,689	5.77%	97	7.71%	130	6.65%	112
8/31/11	1,792	8.09%	145	5.30%	95	7.08%	127
8/31/12	1,653	6.21%	103	7.59%	125	4.97%	82
8/31/13	1,887	7.63%	144	5.74%	108	7.01%	132
8/31/14	2,097	10.39%	218	6.84%	143	5.14%	108
8/31/15	2,472	13.39%	331	9.00%	222	5.92%	146
8/31/16	3,481	21.50%	748	10.51%	366	7.06%	246
8/31/17	5,001	34.94%	1,747	13.99%	700	6.84%	342
8/31/18	12,982	59.01%	7,661	14.32%	1,859	5.73%	744
8/31/19	23,817	*	10,712	32.47%	7,733	7.88%	1,877
8/31/20	24,769	*		44.98%	11,141	32.47%	8,043
8/31/21	25,760	*				44.98%	11,586
Totals	\$ 119,131		\$ 23,859		\$ 24,393		\$ 25,149

*Amounts expected to be incurred for fiscal years ending 8/31/18, 8/31/19 and 8/31/20, respectively

Exhibit 4

State Office of Risk Management

**Workers Compensation Program
Derivation of Ultimate Incurred Claims as of 8/31/18**

Indemnity and Medical Claims Valued Separately

<i>Fiscal Year Ending</i>	<i>Indemnity Claims</i>			<i>Medical Claims</i>			<i>Total Claims</i>		
	<i>Developed From Paid (1)</i>	<i>Bornhuetter Ferguson (2)</i>	<i>Ultimate Incurred Selected Avg 1 & 2</i>	<i>Developed From Paid (3)</i>	<i>Bornhuetter Ferguson (4)</i>	<i>Ultimate Incurred Selected Avg 3 & 4</i>	<i>Developed From Paid (5)</i>	<i>Bornhuetter Ferguson (6)</i>	<i>Ultimate Incurred Selected Avg 5 & 6</i>
8/31/75	186		186	188		188	374		374
8/31/76	2,430		2,430	1,130		1,130	3,560		3,560
8/31/77	3,665		3,665	2,010		2,010	5,676		5,676
8/31/78	4,750		4,750	3,105		3,105	7,855		7,855
8/31/79	5,028		5,028	4,051		4,051	9,079		9,079
8/31/80	5,360		5,360	4,749		4,749	10,109		10,109
8/31/81	5,855		5,855	4,318		4,318	10,173		10,173
8/31/82	7,498		7,498	5,005		5,005	12,503		12,503
8/31/83	7,762		7,762	6,417		6,417	14,179		14,179
8/31/84	11,838		11,838	9,940		9,940	21,778		21,778
8/31/85	13,266		13,266	9,920		9,920	23,186		23,186
8/31/86	17,191		17,191	12,170		12,170	29,362		29,362
8/31/87	18,003		18,003	14,870		14,870	32,873		32,873
8/31/88	22,459		22,459	25,628		25,628	48,087		48,087
8/31/89	27,653		27,653	23,728		23,728	51,382		51,382
8/31/90	32,736		32,736	26,811		26,811	59,547		59,547
8/31/91	24,424	24,424	24,424	28,106	28,106	28,106	52,530	52,530	52,530
8/31/92	22,261	22,261	22,261	31,514	31,514	31,514	53,775	53,775	53,775
8/31/93	21,302	21,302	21,302	28,827	28,827	28,827	50,129	50,129	50,129
8/31/94	23,876	23,876	23,876	31,233	31,233	31,233	55,110	55,110	55,110
8/31/95	24,305	24,305	24,305	31,235	31,235	31,235	55,540	55,540	55,540
8/31/96	20,990	20,990	20,990	33,197	33,197	33,197	54,187	54,187	54,187
8/31/97	22,551	22,551	22,551	34,746	34,745	34,746	57,298	57,296	57,297
8/31/98	23,279	23,279	23,279	33,432	33,430	33,431	56,710	56,709	56,710
8/31/99	24,504	24,504	24,504	35,800	35,801	35,800	60,303	60,305	60,304
8/31/00	27,933	27,932	27,932	36,132	36,134	36,133	64,065	64,065	64,065
8/31/01	24,745	24,745	24,745	38,397	38,399	38,398	63,142	63,145	63,143
8/31/02	24,256	24,257	24,256	37,551	37,556	37,553	61,806	61,812	61,809
8/31/03	22,090	22,089	22,089	39,755	39,731	39,743	61,844	61,820	61,832
8/31/04	17,392	17,391	17,392	24,526	24,532	24,529	41,918	41,923	41,921
8/31/05	18,103	18,102	18,103	24,449	24,456	24,453	42,552	42,558	42,555
8/31/06	14,250	14,249	14,250	19,334	19,341	19,338	33,584	33,590	33,587
8/31/07	15,867	15,866	15,867	20,023	20,027	20,025	35,890	35,893	35,892
8/31/08	17,328	17,326	17,327	22,513	22,523	22,518	39,842	39,849	39,845
8/31/09	16,309	16,308	16,308	20,845	20,861	20,853	37,154	37,169	37,162
8/31/10	17,458	17,438	17,448	23,605	23,624	23,615	41,064	41,062	41,063
8/31/11	17,743	17,730	17,736	22,969	22,995	22,982	40,711	40,726	40,719
8/31/12	14,379	14,370	14,375	19,905	19,923	19,914	34,284	34,293	34,289
8/31/13	13,140	13,141	13,140	20,915	20,949	20,932	34,055	34,090	34,072
8/31/14	15,297	15,286	15,291	20,800	20,845	20,822	36,097	36,131	36,114
8/31/15	14,126	14,091	14,109	21,201	21,261	21,231	35,327	35,353	35,340
8/31/16	16,669	16,608	16,639	23,773	23,758	23,766	40,442	40,367	40,405
8/31/17	15,267	15,159	15,213	21,354	21,725	21,539	36,621	36,885	36,753
8/31/18	15,302	15,810	15,556	22,975	23,657	23,316	38,277	39,467	38,872
Totals	\$ 730,826		\$ 730,951	\$ 923,153		\$ 923,790	\$ 1,653,979		\$ 1,654,740

Exhibit 4

State Office of Risk Management

Workers Compensation Program Derivation of Ultimate Incurred Claims as of 8/31/18

<i>Fiscal Year Ending</i>	<i>Indemnity and Medical Claims Combined</i>		<i>Ultimate Incurred Selected (9)</i>
	<i>Developed From Paid (7)</i>	<i>Bornhuetter Ferguson (8)</i>	
8/31/75	374		374
8/31/76	3,560		3,560
8/31/77	5,676		5,676
8/31/78	7,855		7,855
8/31/79	9,079		9,079
8/31/80	10,109		10,109
8/31/81	10,173		10,173
8/31/82	12,503		12,503
8/31/83	14,179		14,179
8/31/84	21,778		21,778
8/31/85	23,186		23,186
8/31/86	29,362		29,362
8/31/87	32,873		32,873
8/31/88	48,087		48,087
8/31/89	51,382		51,382
8/31/90	59,547		59,547
8/31/91	52,530	52,530	52,530
8/31/92	53,775	53,775	53,775
8/31/93	50,129	50,129	50,129
8/31/94	55,110	55,110	55,110
8/31/95	55,540	55,540	55,540
8/31/96	54,187	54,187	54,187
8/31/97	57,299	57,298	57,298
8/31/98	56,714	56,712	56,713
8/31/99	60,308	60,309	60,308
8/31/00	64,085	64,084	64,084
8/31/01	63,140	63,142	63,141
8/31/02	61,806	61,811	61,809
8/31/03	61,811	61,791	61,801
8/31/04	41,942	41,945	41,943
8/31/05	42,595	42,599	42,597
8/31/06	33,625	33,628	33,627
8/31/07	35,958	35,960	35,959
8/31/08	39,914	39,918	39,916
8/31/09	37,232	37,245	37,239
8/31/10	41,157	41,141	41,149
8/31/11	40,814	40,819	40,817
8/31/12	34,360	34,364	34,362
8/31/13	34,123	34,154	34,139
8/31/14	36,181	36,213	36,197
8/31/15	35,415	35,440	35,427
8/31/16	40,537	40,461	40,499
8/31/17	36,660	37,036	36,848
8/31/18	38,459	39,553	39,006
Totals	\$ 1,655,130		\$ 1,655,874

Exhibit 5

State Office of Risk Management

**Workers Compensation Program
Development Factors Applied to Paid Losses**

<i>Fiscal Year Ending</i>	<i>Lag Period</i>	<i>Months Since Inception</i>	<i>Indemnity Claims</i>				<i>Average Claim Size (000)</i>
			<i>Paid Claims (000)</i>	<i>Claim Development Factor</i>	<i>Ultimate Incurred Claims (000)</i>	<i>Number of Incurred Claims</i>	
	<i>(1)</i>	<i>(2)</i>	<i>(3)</i>	<i>(4)</i>	<i>(5) = (3)*(4)</i>	<i>(6)</i>	<i>(7) = (5) ÷ (6)</i>
FY 75 - 80	38	468	21,419	1.0000	21,419	29,261	0.732
8/31/81	37	456	5,855	1.0000	5,855	6,330	0.925
8/31/82	36	444	7,498	1.0000	7,498	6,270	1.196
8/31/83	35	432	7,762	1.0000	7,762	6,205	1.251
8/31/84	34	420	11,838	1.0000	11,838	6,642	1.782
8/31/85	33	408	13,266	1.0000	13,266	7,185	1.846
8/31/86	32	396	17,191	1.0000	17,191	7,137	2.409
8/31/87	31	384	18,003	1.0000	18,003	6,826	2.637
8/31/88	30	372	22,459	1.0000	22,459	7,419	3.027
8/31/89	29	360	27,653	1.0000	27,653	8,015	3.450
8/31/90	28	348	32,736	1.0000	32,736	7,998	4.093
8/31/91	27	336	24,424	1.0000	24,424	8,658	2.821
8/31/92	26	324	22,261	1.0000	22,261	9,182	2.424
8/31/93	25	312	21,302	1.0000	21,302	9,192	2.317
8/31/94	24	300	23,876	1.0000	23,876	10,123	2.359
8/31/95	23	288	24,305	1.0000	24,305	10,352	2.348
8/31/96	22	276	20,990	1.0000	20,990	9,526	2.203
8/31/97	21	264	22,438	1.0051	22,551	8,680	2.598
8/31/98	20	252	23,121	1.0068	23,279	8,353	2.787
8/31/99	19	240	24,302	1.0083	24,504	8,294	2.954
8/31/00	18	228	27,667	1.0096	27,933	8,347	3.346
8/31/01	17	216	24,445	1.0123	24,745	8,156	3.034
8/31/02	16	204	23,896	1.0151	24,256	8,549	2.837
8/31/03	15	192	21,705	1.0177	22,090	7,518	2.938
8/31/04	14	180	17,042	1.0205	17,392	7,207	2.413
8/31/05	13	168	17,685	1.0236	18,103	7,422	2.439
8/31/06	12	156	13,877	1.0269	14,250	6,825	2.088
8/31/07	11	144	15,404	1.0301	15,867	7,000	2.267
8/31/08	10	132	16,761	1.0339	17,328	7,311	2.370
8/31/09	9	120	15,701	1.0387	16,309	7,363	2.215
8/31/10	8	108	16,711	1.0447	17,458	7,512	2.324
8/31/11	7	96	16,788	1.0569	17,743	7,647	2.320
8/31/12	6	84	13,437	1.0701	14,379	7,169	2.006
8/31/13	5	72	12,074	1.0882	13,140	7,021	1.871
8/31/14	4	60	13,784	1.1098	15,297	6,899	2.217
8/31/15	3	48	12,421	1.1373	14,126	6,814	2.073
8/31/16	2	36	13,840	1.2044	16,669	6,731	2.476
8/31/17	1	24	10,338	1.4768	15,267	6,876	2.220
8/31/18	0	12	4,142	3.6947	15,302	6,406	2.389
			\$ 700,418		\$ 730,826		

Exhibit 5

State Office of Risk Management

**Workers Compensation Program
Development Factors Applied to Paid Losses**

<i>Fiscal Year Ending</i>	<i>Lag Period</i>	<i>Months Since Inception</i>	<i>Medical Claims</i>				
			<i>Paid Claims (000)</i>	<i>Claim Development Factor</i>	<i>Ultimate Incurred Claims (000)</i>	<i>Number of Incurred Claims</i>	<i>Average Claim Size (000)</i>
	<i>(1)</i>	<i>(2)</i>	<i>(3)</i>	<i>(4)</i>	<i>(5) = (3)*(4)</i>	<i>(6)</i>	<i>(7) = (5) ÷ (6)</i>
FY 75 - 80	38	468	15,234	1.0000	15,234	29,261	0.521
8/31/81	37	456	4,318	1.0000	4,318	6,330	0.682
8/31/82	36	444	5,005	1.0000	5,005	6,270	0.798
8/31/83	35	432	6,417	1.0000	6,417	6,205	1.034
8/31/84	34	420	9,940	1.0000	9,940	6,642	1.497
8/31/85	33	408	9,920	1.0000	9,920	7,185	1.381
8/31/86	32	396	12,170	1.0000	12,170	7,137	1.705
8/31/87	31	384	14,870	1.0000	14,870	6,826	2.178
8/31/88	30	372	25,628	1.0000	25,628	7,419	3.454
8/31/89	29	360	23,728	1.0000	23,728	8,015	2.960
8/31/90	28	348	26,811	1.0000	26,811	7,998	3.352
8/31/91	27	336	28,106	1.0000	28,106	8,658	3.246
8/31/92	26	324	31,514	1.0000	31,514	9,182	3.432
8/31/93	25	312	28,827	1.0000	28,827	9,192	3.136
8/31/94	24	300	31,233	1.0000	31,233	10,123	3.085
8/31/95	23	288	31,235	1.0000	31,235	10,352	3.017
8/31/96	22	276	33,197	1.0000	33,197	9,526	3.485
8/31/97	21	264	34,574	1.0050	34,746	8,680	4.003
8/31/98	20	252	33,157	1.0083	33,432	8,353	4.002
8/31/99	19	240	35,352	1.0127	35,800	8,294	4.316
8/31/00	18	228	35,507	1.0176	36,132	8,347	4.329
8/31/01	17	216	37,512	1.0236	38,397	8,156	4.708
8/31/02	16	204	36,504	1.0287	37,551	8,549	4.392
8/31/03	15	192	38,473	1.0333	39,755	7,518	5.288
8/31/04	14	180	23,564	1.0408	24,526	7,207	3.403
8/31/05	13	168	23,347	1.0472	24,449	7,422	3.294
8/31/06	12	156	18,341	1.0541	19,334	6,825	2.833
8/31/07	11	144	18,884	1.0603	20,023	7,000	2.860
8/31/08	10	132	21,127	1.0656	22,513	7,311	3.079
8/31/09	9	120	19,447	1.0719	20,845	7,363	2.831
8/31/10	8	108	21,925	1.0766	23,605	7,512	3.142
8/31/11	7	96	21,190	1.0839	22,969	7,647	3.004
8/31/12	6	84	18,262	1.0900	19,905	7,169	2.777
8/31/13	5	72	19,045	1.0982	20,915	7,021	2.979
8/31/14	4	60	18,725	1.1108	20,800	6,899	3.015
8/31/15	3	48	18,759	1.1302	21,201	6,814	3.111
8/31/16	2	36	20,285	1.1720	23,773	6,731	3.532
8/31/17	1	24	16,538	1.2912	21,354	6,876	3.106
8/31/18	0	12	10,334	2.2233	22,975	6,406	3.587
			\$ 879,005		\$ 923,153		

Exhibit 5

State Office of Risk Management

**Workers Compensation Program
Development Factors Applied to Paid Losses**

<i>Fiscal Year Ending</i>	<i>Lag Period</i>	<i>Months Since Inception</i>	<i>Paid Claims (000)</i>	<i>Claim Development Factor</i>	<i>Total Claims</i>		<i>Average Claim Size (000)</i>
					<i>Incurred Claims (000)</i>	<i>Number of Incurred Claims</i>	
	<i>(1)</i>	<i>(2)</i>	<i>(3)</i>	<i>(4)</i>	<i>(5) = (3)*(4)</i>	<i>(6)</i>	<i>(7) = (5) ÷ (6)</i>
FY 75 - 80	38	468	36,653	1.0000	36,653	29,261	1.253
8/31/81	37	456	10,173	1.0000	10,173	6,330	1.607
8/31/82	36	444	12,503	1.0000	12,503	6,270	1.994
8/31/83	35	432	14,179	1.0000	14,179	6,205	2.285
8/31/84	34	420	21,778	1.0000	21,778	6,642	3.279
8/31/85	33	408	23,186	1.0000	23,186	7,185	3.227
8/31/86	32	396	29,362	1.0000	29,362	7,137	4.114
8/31/87	31	384	32,873	1.0000	32,873	6,826	4.816
8/31/88	30	372	48,087	1.0000	48,087	7,419	6.482
8/31/89	29	360	51,382	1.0000	51,382	8,015	6.411
8/31/90	28	348	59,547	1.0000	59,547	7,998	7.445
8/31/91	27	336	52,530	1.0000	52,530	8,658	6.067
8/31/92	26	324	53,775	1.0000	53,775	9,182	5.857
8/31/93	25	312	50,129	1.0000	50,129	9,192	5.454
8/31/94	24	300	55,110	1.0000	55,110	10,123	5.444
8/31/95	23	288	55,540	1.0000	55,540	10,352	5.365
8/31/96	22	276	54,187	1.0000	54,187	9,526	5.688
8/31/97	21	264	57,012	1.0050	57,299	8,680	6.601
8/31/98	20	252	56,277	1.0078	56,714	8,353	6.790
8/31/99	19	240	59,655	1.0109	60,308	8,294	7.271
8/31/00	18	228	63,174	1.0144	64,085	8,347	7.678
8/31/01	17	216	61,958	1.0191	63,140	8,156	7.742
8/31/02	16	204	60,399	1.0233	61,806	8,549	7.230
8/31/03	15	192	60,177	1.0271	61,811	7,518	8.222
8/31/04	14	180	40,606	1.0329	41,942	7,207	5.820
8/31/05	13	168	41,031	1.0381	42,595	7,422	5.739
8/31/06	12	156	32,218	1.0437	33,625	6,825	4.927
8/31/07	11	144	34,288	1.0487	35,958	7,000	5.137
8/31/08	10	132	37,887	1.0535	39,914	7,311	5.460
8/31/09	9	120	35,148	1.0593	37,232	7,363	5.057
8/31/10	8	108	38,636	1.0652	41,157	7,512	5.479
8/31/11	7	96	37,978	1.0747	40,814	7,647	5.337
8/31/12	6	84	31,699	1.0839	34,360	7,169	4.793
8/31/13	5	72	31,120	1.0965	34,123	7,021	4.860
8/31/14	4	60	32,509	1.1130	36,181	6,899	5.244
8/31/15	3	48	31,180	1.1358	35,415	6,814	5.197
8/31/16	2	36	34,125	1.1879	40,537	6,731	6.023
8/31/17	1	24	26,876	1.3640	36,660	6,876	5.332
8/31/18	0	12	14,475	2.6569	38,459	6,406	6.004
			\$ 1,579,423		\$ 1,655,130		

Exhibit 6

State Office of Risk Management

Workers Compensation Program Bornheutter-Ferguson Method Development Factors Applied to Paid Losses

Indemnity Claims

Fiscal Year Ending	Exposure Payroll (000) (1)	Selected Loss Rate Per \$100 (2)	Expected Ult Loss (000) (3) = (1) x (2)	Loss					Ultimate Loss (000) (8) = (6) + (7)
				Develop- ment Factor (4)	Unpaid Loss Factor (5) = 1 - [1/(4)]	Unpaid Loss (000) (6) = (3) x (5)	Paid Loss (000) (7)		
8/31/91	3,499,122	0.6977	24,415	1.0000	0.0000	0	24,424	24,424	
8/31/92	3,857,167	0.5754	22,196	1.0000	0.0000	0	22,261	22,261	
8/31/93	4,191,907	0.5079	21,290	1.0000	0.0000	0	21,302	21,302	
8/31/94	4,792,296	0.4982	23,876	1.0000	0.0000	0	23,876	23,876	
8/31/95	4,887,812	0.4963	24,261	1.0000	0.0000	0	24,305	24,305	
8/31/96	5,034,559	0.4190	21,093	1.0000	0.0000	0	20,990	20,990	
8/31/97	4,651,803	0.4842	22,523	1.0051	0.0051	114	22,438	22,551	
8/31/98	4,901,972	0.4749	23,281	1.0068	0.0068	158	23,121	23,279	
8/31/99	4,943,025	0.4959	24,512	1.0083	0.0082	201	24,302	24,504	
8/31/00	5,263,935	0.5276	27,775	1.0096	0.0095	265	27,667	27,932	
8/31/01	5,407,454	0.4580	24,768	1.0123	0.0121	300	24,445	24,745	
8/31/02	5,532,344	0.4393	24,303	1.0151	0.0148	361	23,896	24,257	
8/31/03	5,668,640	0.3893	22,066	1.0177	0.0174	384	21,705	22,089	
8/31/04	5,442,937	0.3187	17,347	1.0205	0.0201	349	17,042	17,391	
8/31/05	5,473,674	0.3302	18,073	1.0236	0.0231	417	17,685	18,102	
8/31/06	5,829,323	0.2435	14,192	1.0269	0.0262	372	13,877	14,249	
8/31/07	6,247,352	0.2536	15,843	1.0301	0.0292	462	15,404	15,866	
8/31/08	6,477,872	0.2664	17,255	1.0339	0.0328	565	16,761	17,326	
8/31/09	6,958,328	0.2343	16,306	1.0387	0.0373	607	15,701	16,308	
8/31/10	7,194,186	0.2362	16,989	1.0447	0.0428	727	16,711	17,438	
8/31/11	7,162,220	0.2445	17,509	1.0569	0.0538	942	16,788	17,730	
8/31/12	7,047,697	0.2022	14,247	1.0701	0.0655	933	13,437	14,370	
8/31/13	7,325,327	0.1795	13,152	1.0882	0.0811	1,066	12,074	13,141	
8/31/14	7,705,345	0.1971	15,190	1.1098	0.0989	1,502	13,784	15,286	
8/31/15	8,013,889	0.1727	13,842	1.1373	0.1207	1,671	12,421	14,091	
8/31/16	8,461,320	0.1928	16,313	1.2044	0.1697	2,768	13,840	16,608	
8/31/17	8,643,615	0.1728	14,934	1.4768	0.3228	4,821	10,338	15,159	
8/31/18	8,648,042	0.1850	15,999	3.6947	0.7293	11,669	4,142	15,810	
			\$ 543,550			\$ 30,657	\$ 514,736	\$ 545,393	

Exhibit 6

State Office of Risk Management

Workers Compensation Program Bornheutter-Ferguson Method Development Factors Applied to Paid Losses

Medical Claims

Fiscal Year Ending	Exposure Payroll (000) (1)	Selected Loss Rate Per \$100 (2)	Loss					
			Expected Ult Loss (000) (3) = (1) x (2)	Develop- ment Factor (4)	Unpaid Loss Factor (5) = 1 - [1/(4)]	Unpaid Loss (000) (6) = (3) x (5)	Paid Loss (000) (7)	Ultimate Loss (000) (8) = (6) + (7)
8/31/91	3,499,122	0.8031	28,100	1.0000	0.0000	0	28,106	28,106
8/31/92	3,857,167	0.8157	31,462	1.0000	0.0000	0	31,514	31,514
8/31/93	4,191,907	0.6871	28,803	1.0000	0.0000	0	28,827	28,827
8/31/94	4,792,296	0.6515	31,220	1.0000	0.0000	0	31,233	31,233
8/31/95	4,887,812	0.6387	31,216	1.0000	0.0000	0	31,235	31,235
8/31/96	5,034,559	0.6599	33,223	1.0000	0.0000	0	33,197	33,197
8/31/97	4,651,803	0.7422	34,526	1.0050	0.0050	171	34,574	34,745
8/31/98	4,901,972	0.6781	33,242	1.0083	0.0082	274	33,157	33,430
8/31/99	4,943,025	0.7262	35,899	1.0127	0.0125	448	35,352	35,801
8/31/00	5,263,935	0.6883	36,231	1.0176	0.0173	627	35,507	36,134
8/31/01	5,407,454	0.7118	38,492	1.0236	0.0230	887	37,512	38,399
8/31/02	5,532,344	0.6821	37,737	1.0287	0.0279	1,052	36,504	37,556
8/31/03	5,668,640	0.6884	39,022	1.0333	0.0322	1,258	38,473	39,731
8/31/04	5,442,937	0.4532	24,666	1.0408	0.0392	968	23,564	24,532
8/31/05	5,473,674	0.4493	24,595	1.0472	0.0451	1,109	23,347	24,456
8/31/06	5,829,323	0.3340	19,473	1.0541	0.0513	1,000	18,341	19,341
8/31/07	6,247,352	0.3217	20,099	1.0603	0.0569	1,143	18,884	20,027
8/31/08	6,477,872	0.3499	22,668	1.0656	0.0616	1,396	21,127	22,523
8/31/09	6,958,328	0.3029	21,079	1.0719	0.0671	1,414	19,447	20,861
8/31/10	7,194,186	0.3317	23,865	1.0766	0.0712	1,699	21,925	23,624
8/31/11	7,162,220	0.3255	23,314	1.0839	0.0774	1,806	21,190	22,995
8/31/12	7,047,697	0.2855	20,120	1.0900	0.0826	1,661	18,262	19,923
8/31/13	7,325,327	0.2908	21,300	1.0982	0.0894	1,904	19,045	20,949
8/31/14	7,705,345	0.2758	21,249	1.1108	0.0998	2,120	18,725	20,845
8/31/15	8,013,889	0.2711	21,725	1.1302	0.1152	2,502	18,759	21,261
8/31/16	8,461,320	0.2798	23,673	1.1720	0.1467	3,473	20,285	23,758
8/31/17	8,643,615	0.2661	23,001	1.2912	0.2255	5,187	16,538	21,725
8/31/18	8,648,042	0.2800	24,215	2.2233	0.5502	13,323	10,334	23,657
			\$ 774,213			\$ 45,422	\$ 724,964	\$ 770,386

Exhibit 6

State Office of Risk Management

Workers Compensation Program Bornheutter-Ferguson Method Development Factors Applied to Paid Losses

All Claims

Fiscal Year Ending	Exposure Payroll (000) (1)	Selected Loss Rate Per \$100 (2)	Loss					
			Expected Ult Loss (000) (3) = (1) x (2)	Develop- ment Factor (4)	Unpaid Loss Factor (5) = 1 - [1/(4)]	Unpaid Loss (000) (6) = (3) x (5)	Paid Loss (000) (7)	Ultimate Loss (000) (8) = (6) + (7)
8/31/91	3,499,122	1.5008	52,515	1.0000	0.0000	0	52,530	52,530
8/31/92	3,857,167	1.3911	53,657	1.0000	0.0000	0	53,775	53,775
8/31/93	4,191,907	1.1950	50,093	1.0000	0.0000	0	50,129	50,129
8/31/94	4,792,296	1.1497	55,096	1.0000	0.0000	0	55,110	55,110
8/31/95	4,887,812	1.1350	55,477	1.0000	0.0000	0	55,540	55,540
8/31/96	5,034,559	1.0789	54,315	1.0000	0.0000	0	54,187	54,187
8/31/97	4,651,803	1.2263	57,047	1.0050	0.0050	286	57,012	57,298
8/31/98	4,901,972	1.1531	56,524	1.0078	0.0077	435	56,277	56,712
8/31/99	4,943,025	1.2221	60,409	1.0109	0.0108	654	59,655	60,309
8/31/00	5,263,935	1.2163	64,025	1.0144	0.0142	910	63,174	64,084
8/31/01	5,407,454	1.1697	63,250	1.0191	0.0187	1,185	61,958	63,142
8/31/02	5,532,344	1.1212	62,030	1.0233	0.0228	1,412	60,399	61,811
8/31/03	5,668,640	1.0769	61,045	1.0271	0.0264	1,613	60,177	61,791
8/31/04	5,442,937	0.7722	42,031	1.0329	0.0318	1,338	40,606	41,945
8/31/05	5,473,674	0.7802	42,708	1.0381	0.0367	1,567	41,031	42,599
8/31/06	5,829,323	0.5781	33,699	1.0437	0.0418	1,410	32,218	33,628
8/31/07	6,247,352	0.5764	36,008	1.0487	0.0464	1,672	34,288	35,960
8/31/08	6,477,872	0.6173	39,989	1.0535	0.0508	2,031	37,887	39,918
8/31/09	6,958,328	0.5384	37,461	1.0593	0.0560	2,097	35,148	37,245
8/31/10	7,194,186	0.5686	40,905	1.0652	0.0612	2,505	38,636	41,141
8/31/11	7,162,220	0.5709	40,890	1.0747	0.0695	2,841	37,978	40,819
8/31/12	7,047,697	0.4883	34,413	1.0839	0.0774	2,665	31,699	34,364
8/31/13	7,325,327	0.4707	34,479	1.0965	0.0880	3,035	31,120	34,154
8/31/14	7,705,345	0.4736	36,493	1.1130	0.1015	3,704	32,509	36,213
8/31/15	8,013,889	0.4446	35,627	1.1358	0.1196	4,260	31,180	35,440
8/31/16	8,461,320	0.4734	40,057	1.1879	0.1582	6,336	34,125	40,461
8/31/17	8,643,615	0.4404	38,068	1.3640	0.2669	10,160	26,876	37,036
8/31/18	8,648,042	0.4650	40,213	2.6569	0.6236	25,078	14,475	39,553
			\$ 1,318,523			\$ 77,196	\$ 1,239,700	\$ 1,316,896

Exhibit 7

State Office of Risk Management

Bornhuetter-Ferguson Method Applied to Fiscal Years 2014 Through 2018

Fiscal Year Ending	On-level				Indemnity Claims				Ultimate Loss (000)	
	Loss Rate Per \$100 Payroll @ FY19 Level (1)	Cumulative Net Trend (2)	On-level Net Trend (3) = 1 / (2)	Loss Rate Per \$100 Payroll (4) = (1) * (3)	Payroll (000) (5)	Expected Loss (000) (Prior Study)	Unpaid Claims Factor (7)	Liability for Unpaid Claims (8) = (6) * (7)		Paid Loss (000) (9)
8/31/14					7,705,345	15,190	0.0989	1,502	12,074	13,577
8/31/15					8,013,889	13,842	0.1207	1,671	13,784	15,454
8/31/16					8,461,320	16,313	0.1697	2,768	12,421	15,189
8/31/17					8,643,615	14,934	0.3228	4,821	13,840	18,661
8/31/18					8,648,042	15,999	0.7293	11,669	10,338	22,007
					41,472,210	76,277		22,431	62,457	84,888
8/31/19	0.1850	1.0000	1.0000	0.1850	8,821,003	16,319	N/A	N/A	N/A	16,319
8/31/20	0.1850	0.9951	1.0049	0.1859	8,997,423	16,727	N/A	N/A	N/A	16,727
8/31/21	0.1850	0.9903	1.0098	0.1868	9,177,371	17,145	N/A	N/A	N/A	17,145
Medical Claims										
Fiscal Year Ending	On-level				Indemnity Claims				Ultimate Loss (000)	
	Loss Rate Per \$100 Payroll @ FY19 Level (1)	Cumulative Net Trend (2)	On-level Net Trend (3) = 1 / (2)	Loss Rate Per \$100 Payroll (4) = (1) * (3)	Payroll (000) (5)	Expected Loss (000) (Prior Study)	Unpaid Claims Factor (7)	Liability for Unpaid Claims (8) = (6) * (7)		Paid Loss (000) (9)
8/31/14					7,705,345	21,249	0.0998	2,120	19,045	21,165
8/31/15					8,013,889	21,725	0.1152	2,502	18,725	21,227
8/31/16					8,461,320	23,673	0.1467	3,473	18,759	22,232
8/31/17					8,643,615	23,001	0.2255	5,187	20,285	25,472
8/31/18					8,648,042	24,215	0.5502	13,323	16,538	29,861
					41,472,210	113,862		26,606	93,353	119,959
8/31/19	0.2700	1.0000	1.0000	0.2700	8,821,003	23,817	N/A	N/A	N/A	23,817
8/31/20	0.2700	0.9808	1.0196	0.2753	8,997,423	24,769	N/A	N/A	N/A	24,769
8/31/21	0.2700	0.9619	1.0396	0.2807	9,177,371	25,760	N/A	N/A	N/A	25,760
Total of Indemnity and Medical Claims										
8/31/19	0.4550	1.0000	1.0000	0.4550	8,821,003	40,136	N/A	N/A	N/A	40,136
8/31/20	0.4550	0.9866	1.0136	0.4612	8,997,423	41,496	N/A	N/A	N/A	41,496
8/31/21	0.4550	0.9732	1.0275	0.4675	9,177,371	42,905	N/A	N/A	N/A	42,905

Exhibit 7

State Office of Risk Management

Bornhuetter-Ferguson Method Applied to Fiscal Years 2014 Through 2018

Fiscal Year Ending	Loss Rate		On-level		Total Claims			Liability for Unpaid Claims		Ultimate Loss (000)
	Per \$100 Payroll @ FY19 Level (1)	Cumulative Net Trend (2)	On-level Net Trend (3) = 1 / (2)	Loss Rate Per \$100 Payroll (4) = (1) * (3)	Payroll (000) (5)	Expected Loss (000) (Prior Study)	Unpaid Claims Factor (7)	(8) = (6) * (7)	Paid Loss (000) (9)	
8/31/14					7,705,345	36,493	0.1015	3,704	31,120	34,824
8/31/15					8,013,889	35,627	0.1196	4,260	32,509	36,769
8/31/16					8,461,320	40,057	0.1582	6,336	31,180	37,516
8/31/17					8,643,615	38,068	0.2669	10,160	34,125	44,285
8/31/18					8,648,042	40,213	0.6236	25,078	26,876	51,954
					41,472,210	190,458		49,538	155,810	205,348
8/31/19	0.4550	1.0000	1.0000	0.4550	8,821,003	40,136	N/A	N/A	N/A	40,136
8/31/20	0.4550	0.9855	1.0147	0.4617	8,997,423	41,540	N/A	N/A	N/A	41,540
8/31/21	0.4550	0.9712	1.0296	0.4685	9,177,371	42,994	N/A	N/A	N/A	42,994

Notes:

1. Loss Rate per \$100 Payroll @ FY19 Level (Column 1) is the Selected Loss Rate From Exhibit 8.
2. Cumulative Net Trend (Column 2) is derived in Exhibit 9.
3. Unpaid Claims Factors (Column 7) are derived from the Percentage Paid factors in Exhibits 16, 17 and 18.

Exhibit 8

State Office of Risk Management

Derivation of Trended Loss Rates

<i>Fiscal Year Ending</i>	<i>Indemnity Claims</i>				<i>Trended Loss Rate Per \$100 Payroll^c</i>
	<i>Ultimate Incurred Claims (000)</i>	<i>Payroll (000)</i>	<i>Loss Rate Per \$100 Payroll</i>	<i>Net Trend to 3/19^a</i>	
8/31/91	24,424	3,499,122	0.6980	0.7589	0.5297
8/31/92	22,261	3,857,167	0.5771	0.7664	0.4423
8/31/93	21,302	4,191,907	0.5082	0.7740	0.3933
8/31/94	23,876	4,792,296	0.4982	0.7817	0.3895
8/31/95	24,305	4,887,812	0.4973	0.7894	0.3925
8/31/96	20,990	5,034,559	0.4169	0.7972	0.3324
8/31/97	22,551	4,651,803	0.4848	0.8051	0.3903
8/31/98	23,279	4,901,972	0.4749	0.8131	0.3861
8/31/99	24,504	4,943,025	0.4957	0.8212	0.4071
8/31/00	27,932	5,263,935	0.5306	0.8293	0.4400
8/31/01	24,745	5,407,454	0.4576	0.8375	0.3832
8/31/02	24,256	5,532,344	0.4384	0.8458	0.3708
8/31/03	22,089	5,668,640	0.3897	0.8542	0.3328
8/31/04	17,392	5,442,937	0.3195	0.8626	0.2756
8/31/05	18,103	5,473,674	0.3307	0.8712	0.2881
8/31/06	14,250	5,829,323	0.2444	0.8798	0.2151
8/31/07	15,867	6,247,352	0.2540	0.8885	0.2257
8/31/08	17,327	6,477,872	0.2675	0.8973	0.2400
8/31/09	16,308	6,958,328	0.2344	0.9062	0.2124
8/31/10	17,448	7,194,186	0.2425	0.9151	0.2220
8/31/11	17,736	7,162,220	0.2476	0.9242	0.2289
8/31/12	14,375	7,047,697	0.2040	0.9334	0.1904
8/31/13	13,140	7,325,327	0.1794	0.9426	0.1691
8/31/14	15,291	7,705,345	0.1985	0.9519	0.1889
8/31/15	14,109	8,013,889	0.1761	0.9614	0.1692
8/31/16	16,639	8,461,320	0.1966	0.9709	0.1909
8/31/17	15,213	8,643,615	0.1760	0.9805	0.1726
8/31/18	15,556	8,648,042	0.1799	0.9902	0.1781
Average:			0.3542		0.2985
Three Year Average:			0.1842		0.1805
Five Year Average:			0.1854		0.1800
Selected Loss Rate:					0.1850

Notes:

1. The Net Trend to 3/19 is the factor needed to express prior year loss rates in terms of Fiscal Year 2018-19 dollars.
2. The Trended Loss Rate per \$100 Payroll is the loss rate for each claim year expressed in terms of Fiscal Year 2018-19 dollars. Expressing prior years' loss rates in terms of current dollars allows us to use various averages of prior trended loss rates as a benchmark in estimating the current expected loss rate.

Exhibit 8

State Office of Risk Management

Derivation of Trended Loss Rates

<i>Medical Claims</i>					
<i>Fiscal Year Ending</i>	<i>Ultimate Incurred Claims (000)</i>	<i>Payroll (000)</i>	<i>Loss Rate Per \$100 Payroll</i>	<i>Net Trend to 3/19¹</i>	<i>Trended Loss Rate Per \$100 Payroll²</i>
8/31/91	28,106	3,499,122	0.8032	1.0000	0.8032
8/31/92	31,514	3,857,167	0.8170	1.0000	0.8170
8/31/93	28,827	4,191,907	0.6877	1.0000	0.6877
8/31/94	31,233	4,792,296	0.6517	1.0000	0.6517
8/31/95	31,235	4,887,812	0.6390	1.0000	0.6390
8/31/96	33,197	5,034,559	0.6594	1.0000	0.6594
8/31/97	34,746	4,651,803	0.7469	1.0000	0.7469
8/31/98	33,431	4,901,972	0.6820	1.0000	0.6820
8/31/99	35,800	4,943,025	0.7243	1.0000	0.7243
8/31/00	36,133	5,263,935	0.6864	1.0000	0.6864
8/31/01	38,398	5,407,454	0.7101	1.0000	0.7101
8/31/02	37,553	5,532,344	0.6788	1.0000	0.6788
8/31/03	39,743	5,668,640	0.7011	1.0000	0.7011
8/31/04	24,529	5,442,937	0.4507	1.0000	0.4507
8/31/05	24,453	5,473,674	0.4467	1.0000	0.4467
8/31/06	19,338	5,829,323	0.3317	1.0000	0.3317
8/31/07	20,025	6,247,352	0.3205	1.0000	0.3205
8/31/08	22,518	6,477,872	0.3476	1.0000	0.3476
8/31/09	20,853	6,958,328	0.2997	1.0000	0.2997
8/31/10	23,615	7,194,186	0.3282	1.0000	0.3282
8/31/11	22,982	7,162,220	0.3209	1.0000	0.3209
8/31/12	19,914	7,047,697	0.2826	1.0000	0.2826
8/31/13	20,932	7,325,327	0.2858	1.0000	0.2858
8/31/14	20,822	7,705,345	0.2702	1.0000	0.2702
8/31/15	21,231	8,013,889	0.2649	1.0000	0.2649
8/31/16	23,766	8,461,320	0.2809	1.0000	0.2809
8/31/17	21,539	8,643,615	0.2492	1.0000	0.2492
8/31/18	23,316	8,648,042	0.2696	1.0000	0.2696
Average:			0.4977		0.4977
Three Year Average:			0.2666		0.2666
Five Year Average:			0.2670		0.2670
Selected Loss Rate:					0.2700

Notes:

1. The Net Trend to 3/19 is the factor needed to express prior year loss rates in terms of Fiscal Year 2018-19 dollars.
2. The Trended Loss Rate per \$100 Payroll is the loss rate for each claim year expressed in terms of Fiscal Year 2018-19 dollars. Expressing prior years' loss rates in terms of current dollars allows us to use various averages of prior trended loss rates as a benchmark in estimating the current expected loss rate.

Exhibit 8

State Office of Risk Management

Derivation of Trended Loss Rates

<i>Fiscal Year Ending</i>	<i>Total Claims</i>				<i>Trended Loss Rate Per \$100 Payroll^c</i>
	<i>Ultimate Incurred Claims (000)</i>	<i>Payroll (000)</i>	<i>Loss Rate Per \$100 Payroll</i>	<i>Net Trend to 3/19^a</i>	
8/31/91	52,530	3,499,122	1.5012	0.8715	1.3083
8/31/92	53,775	3,857,167	1.3942	0.8757	1.2209
8/31/93	50,129	4,191,907	1.1958	0.8801	1.0524
8/31/94	55,110	4,792,296	1.1500	0.8844	1.0170
8/31/95	55,540	4,887,812	1.1363	0.8888	1.0099
8/31/96	54,187	5,034,559	1.0763	0.8931	0.9613
8/31/97	57,298	4,651,803	1.2317	0.8975	1.1055
8/31/98	56,713	4,901,972	1.1569	0.9020	1.0435
8/31/99	60,308	4,943,025	1.2201	0.9064	1.1059
8/31/00	64,084	5,263,935	1.2174	0.9109	1.1089
8/31/01	63,141	5,407,454	1.1677	0.9153	1.0688
8/31/02	61,809	5,532,344	1.1172	0.9199	1.0277
8/31/03	61,801	5,668,640	1.0902	0.9244	1.0078
8/31/04	41,943	5,442,937	0.7706	0.9289	0.7158
8/31/05	42,597	5,473,674	0.7782	0.9335	0.7265
8/31/06	33,627	5,829,323	0.5769	0.9381	0.5412
8/31/07	35,959	6,247,352	0.5756	0.9427	0.5426
8/31/08	39,916	6,477,872	0.6162	0.9474	0.5838
8/31/09	37,239	6,958,328	0.5352	0.9520	0.5095
8/31/10	41,149	7,194,186	0.5720	0.9567	0.5472
8/31/11	40,817	7,162,220	0.5699	0.9615	0.5479
8/31/12	34,362	7,047,697	0.4876	0.9662	0.4711
8/31/13	34,139	7,325,327	0.4660	0.9709	0.4525
8/31/14	36,197	7,705,345	0.4698	0.9757	0.4584
8/31/15	35,427	8,013,889	0.4421	0.9805	0.4335
8/31/16	40,499	8,461,320	0.4786	0.9854	0.4716
8/31/17	36,848	8,643,615	0.4263	0.9902	0.4221
8/31/18	39,006	8,648,042	0.4510	0.9951	0.4488
Average:			0.8525		0.7825
Three Year Average:			0.4520		0.4475
Five Year Average:			0.4536		0.4469
Selected Loss Rate:					0.4550

Notes:

1. The Net Trend to 3/19 is the factor needed to express prior year loss rates in terms of Fiscal Year 2018-19 dollars.
2. The Trended Loss Rate per \$100 Payroll is the loss rate for each claim year expressed in terms of Fiscal Year 2018-19 dollars. Expressing prior years' loss rates in terms of current dollars allows us to use various averages of prior trended loss rates as a benchmark in estimating the current expected loss rate.

Exhibit 9
State Office of Risk Management

Calculation of Trend on Claim Severity at August 31, 2018

<i>Indemnity Claims</i>								
<i>Fiscal Year Ending</i>	<i>Ultimate Incurred Claims (000)</i>	<i>No of Claims</i>	<i>Average Claim Severity</i>	<i>x</i>	<i>ln(Size) y</i>	<i>x²</i>	<i>xy</i>	<i>exp(y')</i>
08/94	23,876	10,123	2,359	1	7.7658	1	7.7658	2,715
08/95	24,305	10,352	2,348	2	7.7613	4	15.5225	2,689
08/96	20,990	9,526	2,203	3	7.6978	9	23.0934	2,663
08/97	22,551	8,680	2,598	4	7.8625	16	31.4501	2,638
08/98	23,279	8,353	2,787	5	7.9327	25	39.6634	2,613
08/99	24,504	8,294	2,954	6	7.9911	36	47.9463	2,588
08/00	27,932	8,347	3,346	7	8.1156	49	56.8095	2,564
08/01	24,745	8,156	3,034	8	8.0176	64	64.1411	2,539
08/02	24,256	8,549	2,837	9	7.9506	81	71.5555	2,515
08/03	22,089	7,518	2,938	10	7.9855	100	79.8555	2,491
08/04	17,392	7,207	2,413	11	7.7887	121	85.6756	2,468
08/05	18,103	7,422	2,439	12	7.7994	144	93.5923	2,444
08/06	14,250	6,825	2,088	13	7.6439	169	99.3706	2,421
08/07	15,867	7,000	2,267	14	7.7261	196	108.1650	2,398
08/08	17,327	7,311	2,370	15	7.7706	225	116.5595	2,375
08/09	16,308	7,363	2,215	16	7.7030	256	123.2476	2,353
08/10	17,448	7,512	2,323	17	7.7505	289	131.7583	2,330
08/11	17,736	7,647	2,319	18	7.7491	324	139.4831	2,308
08/12	14,375	7,169	2,005	19	7.6034	361	144.4655	2,286
08/13	13,140	7,021	1,872	20	7.5345	400	150.6904	2,265
08/14	15,291	6,899	2,216	21	7.7037	441	161.7770	2,243
08/15	14,109	6,814	2,071	22	7.6356	484	167.9823	2,222
08/16	16,639	6,731	2,472	23	7.8128	529	179.6935	2,201
08/17	15,213	6,876	2,213	24	7.7019	576	184.8452	2,180
08/18	15,556	6,406	2,428	25	7.7950	625	194.8741	2,159
				325	194.7985	5525	2519.9830	

a= 7.9159 b= -0.0095
Trend: -0.95%
Geometric Mean: 0.12%
Selected: Past 1.00%
 Future 2.00%

Exhibit 9
State Office of Risk Management

Calculation of Trend on Claim Severity at August 31, 2018

<i>Medical Claims</i>								
<i>Fiscal Year Ending</i>	<i>Ultimate Incurred Claims (000)</i>	<i>No of Claims</i>	<i>Average Claim Severity</i>	<i>x</i>	<i>ln(Size) y</i>	<i>x²</i>	<i>xy</i>	<i>exp(y')</i>
08/94	31,233	10,123	3,085	1	8.0344	1	8.0344	3,874
08/95	31,235	10,352	3,017	2	8.0121	4	16.0242	3,835
08/96	33,197	9,526	3,485	3	8.1562	9	24.4685	3,797
08/97	34,746	8,680	4,003	4	8.2948	16	33.1791	3,759
08/98	33,431	8,353	4,002	5	8.2946	25	41.4731	3,721
08/99	35,800	8,294	4,316	6	8.3702	36	50.2210	3,684
08/00	36,133	8,347	4,329	7	8.3731	49	58.6114	3,648
08/01	38,398	8,156	4,708	8	8.4570	64	67.6561	3,611
08/02	37,553	8,549	4,393	9	8.3877	81	75.4893	3,575
08/03	39,743	7,518	5,286	10	8.5729	100	85.7289	3,539
08/04	24,529	7,207	3,404	11	8.1326	121	89.4582	3,504
08/05	24,453	7,422	3,295	12	8.1000	144	97.2006	3,469
08/06	19,338	6,825	2,833	13	7.9492	169	103.3398	3,435
08/07	20,025	7,000	2,861	14	7.9588	196	111.4234	3,400
08/08	22,518	7,311	3,080	15	8.0327	225	120.4905	3,366
08/09	20,853	7,363	2,832	16	7.9488	256	127.1806	3,333
08/10	23,615	7,512	3,144	17	8.0531	289	136.9030	3,300
08/11	22,982	7,647	3,005	18	8.0082	324	144.1469	3,267
08/12	19,914	7,169	2,778	19	7.9294	361	150.6591	3,234
08/13	20,932	7,021	2,981	20	8.0001	400	160.0028	3,202
08/14	20,822	6,899	3,018	21	8.0124	441	168.2606	3,170
08/15	21,231	6,814	3,116	22	8.0442	484	176.9734	3,138
08/16	23,766	6,731	3,531	23	8.1693	529	187.8935	3,107
08/17	21,539	6,876	3,133	24	8.0496	576	193.1904	3,076
08/18	23,316	6,406	3,640	25	8.1997	625	204.9917	3,045
				325	203.5411	5525	2633.0006	

a= 8.2720 b= -0.0100
Trend: -1.00%
Geometric Mean: 0.66%
Selected: Past 2.00%
 Future 3.00%

Exhibit 9
State Office of Risk Management

Calculation of Trend on Claim Severity at August 31, 2018

<i>Fiscal Year Ending</i>	<i>Ultimate Incurred Claims (000)</i>		<i>Average Claim Severity</i>	<i>Total Claims</i>				
	<i>No of Claims</i>			<i>x</i>	<i>ln(Size) y</i>	<i>x²</i>	<i>xy</i>	<i>exp(y')</i>
08/94	55,110	10,123	5,444	1	8.6023	1	8.6023	6,593
08/95	55,540	10,352	5,365	2	8.5877	4	17.1754	6,530
08/96	54,187	9,526	5,688	3	8.6462	9	25.9385	6,466
08/97	57,298	8,680	6,601	4	8.7950	16	35.1800	6,404
08/98	56,713	8,353	6,790	5	8.8231	25	44.1157	6,342
08/99	60,308	8,294	7,271	6	8.8917	36	53.3501	6,281
08/00	64,084	8,347	7,678	7	8.9461	49	62.6224	6,220
08/01	63,141	8,156	7,742	8	8.9544	64	71.6350	6,160
08/02	61,809	8,549	7,230	9	8.8860	81	79.9739	6,100
08/03	61,801	7,518	8,220	10	9.0144	100	90.1437	6,041
08/04	41,943	7,207	5,820	11	8.6690	121	95.3592	5,983
08/05	42,597	7,422	5,739	12	8.6551	144	103.8610	5,925
08/06	33,627	6,825	4,927	13	8.5025	169	110.5324	5,868
08/07	35,959	7,000	5,137	14	8.5442	196	119.6193	5,811
08/08	39,916	7,311	5,460	15	8.6052	225	129.0774	5,755
08/09	37,239	7,363	5,058	16	8.5286	256	136.4582	5,699
08/10	41,149	7,512	5,478	17	8.6085	289	146.3437	5,644
08/11	40,817	7,647	5,338	18	8.5825	324	154.4857	5,590
08/12	34,362	7,169	4,793	19	8.4749	361	161.0240	5,536
08/13	34,139	7,021	4,862	20	8.4893	400	169.7856	5,482
08/14	36,197	6,899	5,247	21	8.5654	441	179.8726	5,429
08/15	35,427	6,814	5,199	22	8.5563	484	188.2377	5,377
08/16	40,499	6,731	6,017	23	8.7023	529	200.1533	5,325
08/17	36,848	6,876	5,359	24	8.5865	576	206.0765	5,273
08/18	39,006	6,406	6,089	25	8.7142	625	217.8560	5,222
				325	216.9313	5525	2807.4796	

a= 8.8035 b= -0.0097
Trend: -0.97%
Geometric Mean: 0.45%
Selected: Past 1.50%
 Future 2.50%

Exhibit 10

**State Office of Risk Management
Summary of Paid Loss Emergence and Change in Ultimate Incurred Claims**

<i>Fiscal Year Ending</i>	<i>Paid Indemnity Claims</i>			<i>Ultimate Incurred Indemnity Claims</i>			
	<i>as of at 8/31/17</i>	<i>as of at 8/31/18</i>	<i>Emergence</i>	<i>as of at 8/31/17</i>	<i>as of at 8/31/18</i>	<i>Dollar Change</i>	<i>Percent Change</i>
8/31/75	186	186	0	186	186	0	0.00%
8/31/76	2,430	2,430	0	2,430	2,430	0	0.00%
8/31/77	3,661	3,665	4	3,661	3,665	4	0.11%
8/31/78	4,745	4,750	5	4,745	4,750	5	0.10%
8/31/79	5,028	5,028	0	5,028	5,028	0	0.00%
8/31/80	5,360	5,360	0	5,360	5,360	0	0.00%
8/31/81	5,848	5,855	7	5,848	5,855	7	0.12%
8/31/82	7,498	7,498	0	7,498	7,498	0	0.00%
8/31/83	7,753	7,762	9	7,753	7,762	9	0.12%
8/31/84	11,830	11,838	8	11,830	11,838	8	0.06%
8/31/85	13,266	13,266	0	13,266	13,266	0	0.00%
8/31/86	17,157	17,191	35	17,157	17,191	35	0.20%
8/31/87	18,003	18,003	0	18,003	18,003	0	0.00%
8/31/88	22,438	22,459	21	22,438	22,459	21	0.09%
8/31/89	27,633	27,653	20	27,633	27,653	20	0.07%
8/31/90	32,699	32,736	37	32,699	32,736	37	0.11%
8/31/91	24,415	24,424	9	24,415	24,424	9	0.04%
8/31/92	22,196	22,261	65	22,196	22,261	65	0.29%
8/31/93	21,290	21,302	12	21,290	21,302	12	0.06%
8/31/94	23,876	23,876	0	23,876	23,876	0	0.00%
8/31/95	24,261	24,305	45	24,261	24,305	45	0.18%
8/31/96	20,990	20,990	0	21,093	20,990	-103	-0.49%
8/31/97	22,380	22,438	58	22,523	22,551	29	0.13%
8/31/98	23,094	23,121	27	23,281	23,279	-3	-0.01%
8/31/99	24,279	24,302	23	24,512	24,504	-8	-0.03%
8/31/00	27,467	27,667	200	27,775	27,932	157	0.57%
8/31/01	24,418	24,445	28	24,768	24,745	-23	-0.09%
8/31/02	23,896	23,896	0	24,303	24,256	-46	-0.19%
8/31/03	21,639	21,705	65	22,066	22,089	23	0.11%
8/31/04	16,967	17,042	75	17,347	17,392	44	0.26%
8/31/05	17,624	17,685	61	18,073	18,103	30	0.16%
8/31/06	13,792	13,877	84	14,192	14,250	57	0.40%
8/31/07	15,346	15,404	58	15,843	15,867	23	0.15%
8/31/08	16,656	16,761	104	17,255	17,327	72	0.42%
8/31/09	15,629	15,701	72	16,306	16,308	2	0.01%
8/31/10	16,160	16,711	551	16,989	17,448	459	2.70%
8/31/11	16,468	16,788	320	17,509	17,736	227	1.30%
8/31/12	13,191	13,437	246	14,247	14,375	127	0.89%
8/31/13	11,929	12,074	146	13,152	13,140	-12	-0.09%
8/31/14	13,449	13,784	334	15,190	15,291	101	0.66%
8/31/15	11,624	12,421	796	13,842	14,109	267	1.93%
8/31/16	11,258	13,840	2,582	16,313	16,639	326	2.00%
8/31/17	4,010	10,338	6,328	14,934	15,213	279	1.87%
8/31/18		4,142	4,142	16,462	15,556	-906	-5.50%
	683,841	700,418	16,577	729,550	730,951	1,401	0.19%

Exhibit 10

**State Office of Risk Management
Summary of Paid Loss Emergence and Change in Ultimate Incurred Claims**

<i>Fiscal Year Ending</i>	<i>Paid Medical Claims</i>			<i>Ultimate Incurred Medical Claims</i>			
	<i>as of at 8/31/17</i>	<i>as of at 8/31/18</i>	<i>Emergence</i>	<i>as of at 8/31/17</i>	<i>as of at 8/31/18</i>	<i>Dollar Change</i>	<i>Percent Change</i>
8/31/75	186	188	3	186	188	3	1.42%
8/31/76	1,130	1,130	0	1,130	1,130	0	0.00%
8/31/77	2,010	2,010	0	2,010	2,010	0	0.00%
8/31/78	3,105	3,105	0	3,105	3,105	0	0.00%
8/31/79	4,046	4,051	5	4,046	4,051	5	0.13%
8/31/80	4,749	4,749	0	4,749	4,749	0	0.00%
8/31/81	4,318	4,318	0	4,318	4,318	0	0.00%
8/31/82	5,005	5,005	0	5,005	5,005	0	0.00%
8/31/83	6,413	6,417	3	6,413	6,417	3	0.05%
8/31/84	9,930	9,940	10	9,930	9,940	10	0.10%
8/31/85	9,920	9,920	0	9,920	9,920	0	0.00%
8/31/86	12,150	12,170	20	12,150	12,170	20	0.16%
8/31/87	14,821	14,870	49	14,821	14,870	49	0.33%
8/31/88	25,312	25,628	316	25,312	25,628	316	1.25%
8/31/89	23,717	23,728	11	23,717	23,728	11	0.05%
8/31/90	26,801	26,811	10	26,801	26,811	10	0.04%
8/31/91	28,100	28,106	6	28,100	28,106	6	0.02%
8/31/92	31,462	31,514	52	31,462	31,514	52	0.17%
8/31/93	28,803	28,827	24	28,803	28,827	24	0.08%
8/31/94	31,220	31,233	14	31,220	31,233	14	0.04%
8/31/95	31,216	31,235	19	31,216	31,235	19	0.06%
8/31/96	33,068	33,197	129	33,223	33,197	-27	-0.08%
8/31/97	34,286	34,574	288	34,526	34,746	220	0.64%
8/31/98	32,889	33,157	267	33,242	33,431	189	0.57%
8/31/99	35,306	35,352	47	35,899	35,800	-98	-0.27%
8/31/00	35,415	35,507	92	36,231	36,133	-98	-0.27%
8/31/01	37,436	37,512	76	38,492	38,398	-94	-0.24%
8/31/02	36,491	36,504	13	37,737	37,553	-183	-0.49%
8/31/03	37,550	38,473	923	39,022	39,743	721	1.85%
8/31/04	23,546	23,564	18	24,666	24,529	-137	-0.56%
8/31/05	23,309	23,347	38	24,595	24,453	-143	-0.58%
8/31/06	18,322	18,341	19	19,473	19,338	-135	-0.69%
8/31/07	18,805	18,884	80	20,099	20,025	-75	-0.37%
8/31/08	21,076	21,127	51	22,668	22,518	-150	-0.66%
8/31/09	19,417	19,447	30	21,079	20,853	-226	-1.07%
8/31/10	21,817	21,925	109	23,865	23,615	-251	-1.05%
8/31/11	21,155	21,190	35	23,314	22,982	-332	-1.42%
8/31/12	18,123	18,262	139	20,120	19,914	-206	-1.02%
8/31/13	18,929	19,045	117	21,300	20,932	-368	-1.73%
8/31/14	18,497	18,725	228	21,249	20,822	-427	-2.01%
8/31/15	18,203	18,759	557	21,725	21,231	-494	-2.27%
8/31/16	17,974	20,285	2,311	23,673	23,766	93	0.39%
8/31/17	9,808	16,538	6,730	23,001	21,539	-1,461	-6.35%
8/31/18		10,334	10,334	24,916	23,316	-1,599	-6.42%
	855,835	879,005	23,170	928,528	923,790	-4,738	-0.51%

Exhibit 10

**State Office of Risk Management
Summary of Paid Loss Emergence and Change in Ultimate Incurred Claims**

<i>Fiscal Year Ending</i>	<i>Total Paid Claims</i>			<i>Total Ultimate Incurred Claims as of 8/31/18</i>			
	<i>as of 08/31/17</i>	<i>as of 08/31/18</i>	<i>Emergence</i>	<i>as of 08/31/17</i>	<i>Components Separately</i>	<i>Change</i>	<i>% Change</i>
	8/31/75	371	374	3	371	374	3
8/31/76	3,560	3,560	0	3,560	3,560	0	0.00%
8/31/77	5,672	5,676	4	5,672	5,676	4	0.07%
8/31/78	7,850	7,855	5	7,850	7,855	5	0.06%
8/31/79	9,074	9,079	5	9,074	9,079	5	0.06%
8/31/80	10,109	10,109	0	10,109	10,109	0	0.00%
8/31/81	10,166	10,173	7	10,166	10,173	7	0.07%
8/31/82	12,503	12,503	0	12,503	12,503	0	0.00%
8/31/83	14,166	14,179	13	14,166	14,179	13	0.09%
8/31/84	21,761	21,778	17	21,761	21,778	17	0.08%
8/31/85	23,186	23,186	0	23,186	23,186	0	0.00%
8/31/86	29,307	29,362	54	29,307	29,362	54	0.19%
8/31/87	32,823	32,873	49	32,823	32,873	49	0.15%
8/31/88	47,751	48,087	337	47,751	48,087	337	0.71%
8/31/89	51,350	51,382	31	51,350	51,382	31	0.06%
8/31/90	59,500	59,547	47	59,500	59,547	47	0.08%
8/31/91	52,515	52,530	15	52,515	52,530	15	0.03%
8/31/92	53,657	53,775	117	53,657	53,775	117	0.22%
8/31/93	50,093	50,129	36	50,093	50,129	36	0.07%
8/31/94	55,096	55,110	14	55,096	55,110	14	0.02%
8/31/95	55,477	55,540	64	55,477	55,540	64	0.11%
8/31/96	54,058	54,187	129	54,317	54,187	-130	-0.24%
8/31/97	56,666	57,012	345	57,049	57,297	248	0.44%
8/31/98	55,983	56,277	294	56,523	56,710	187	0.33%
8/31/99	59,585	59,655	70	60,411	60,304	-107	-0.18%
8/31/00	62,882	63,174	292	64,006	64,065	60	0.09%
8/31/01	61,854	61,958	104	63,260	63,143	-117	-0.18%
8/31/02	60,386	60,399	13	62,039	61,809	-230	-0.37%
8/31/03	59,189	60,177	988	61,088	61,832	744	1.22%
8/31/04	40,513	40,606	93	42,014	41,921	-93	-0.22%
8/31/05	40,933	41,031	98	42,668	42,555	-113	-0.26%
8/31/06	32,115	32,218	104	33,665	33,587	-78	-0.23%
8/31/07	34,151	34,288	137	35,943	35,892	-51	-0.14%
8/31/08	37,732	37,887	155	39,922	39,845	-77	-0.19%
8/31/09	35,046	35,148	103	37,385	37,162	-224	-0.60%
8/31/10	37,976	38,636	660	40,854	41,063	208	0.51%
8/31/11	37,623	37,978	355	40,823	40,719	-105	-0.26%
8/31/12	31,314	31,699	385	34,367	34,289	-78	-0.23%
8/31/13	30,857	31,120	263	34,452	34,072	-380	-1.10%
8/31/14	31,946	32,509	562	36,440	36,114	-326	-0.89%
8/31/15	29,827	31,180	1,353	35,567	35,340	-227	-0.64%
8/31/16	29,232	34,125	4,893	39,985	40,405	419	1.05%
8/31/17	13,818	26,876	13,058	37,935	36,753	-1,182	-3.12%
8/31/18		14,475	14,475	41,378	38,872	-2,505	-6.06%
	1,539,676	1,579,423	39,747	1,658,078	1,654,740	-3,337	-0.20%

Exhibit 10

**State Office of Risk Management
Summary of Paid Loss Emergence and Change in Ultimate Incurred Claims**

<i>Fiscal Year Ending</i>	<i>Total Paid Claims</i>			<i>Total Ultimate Incurred Claims as of 8/31/18</i>			
	<i>as of 08/31/17</i>	<i>as of 08/31/18</i>	<i>Emergence</i>	<i>as of 08/31/17</i>	<i>Components Combined</i>	<i>Change</i>	<i>% Change</i>
	8/31/75	371	374	3	371	374	3
8/31/76	3,560	3,560	0	3,560	3,560	0	0.00%
8/31/77	5,672	5,676	4	5,672	5,676	4	0.07%
8/31/78	7,850	7,855	5	7,850	7,855	5	0.06%
8/31/79	9,074	9,079	5	9,074	9,079	5	0.06%
8/31/80	10,109	10,109	0	10,109	10,109	0	0.00%
8/31/81	10,166	10,173	7	10,166	10,173	7	0.07%
8/31/82	12,503	12,503	0	12,503	12,503	0	0.00%
8/31/83	14,166	14,179	13	14,166	14,179	13	0.09%
8/31/84	21,761	21,778	17	21,761	21,778	17	0.08%
8/31/85	23,186	23,186	0	23,186	23,186	0	0.00%
8/31/86	29,307	29,362	54	29,307	29,362	54	0.19%
8/31/87	32,823	32,873	49	32,823	32,873	49	0.15%
8/31/88	47,751	48,087	337	47,751	48,087	337	0.71%
8/31/89	51,350	51,382	31	51,350	51,382	31	0.06%
8/31/90	59,500	59,547	47	59,500	59,547	47	0.08%
8/31/91	52,515	52,530	15	52,515	52,530	15	0.03%
8/31/92	53,657	53,775	117	53,657	53,775	117	0.22%
8/31/93	50,093	50,129	36	50,093	50,129	36	0.07%
8/31/94	55,096	55,110	14	55,096	55,110	14	0.02%
8/31/95	55,477	55,540	64	55,477	55,540	64	0.11%
8/31/96	54,058	54,187	129	54,315	54,187	-130	-0.24%
8/31/97	56,666	57,012	345	57,047	57,298	250	0.44%
8/31/98	55,983	56,277	294	56,524	56,713	190	0.34%
8/31/99	59,585	59,655	70	60,409	60,308	-103	-0.17%
8/31/00	62,882	63,174	292	64,025	64,084	79	0.12%
8/31/01	61,854	61,958	104	63,250	63,141	-119	-0.19%
8/31/02	60,386	60,399	13	62,030	61,809	-230	-0.37%
8/31/03	59,189	60,177	988	61,045	61,801	713	1.17%
8/31/04	40,513	40,606	93	42,031	41,943	-70	-0.17%
8/31/05	40,933	41,031	98	42,708	42,597	-72	-0.17%
8/31/06	32,115	32,218	104	33,699	33,627	-38	-0.11%
8/31/07	34,151	34,288	137	36,008	35,959	17	0.05%
8/31/08	37,732	37,887	155	39,989	39,916	-6	-0.02%
8/31/09	35,046	35,148	103	37,461	37,239	-146	-0.39%
8/31/10	37,976	38,636	660	40,905	41,149	295	0.72%
8/31/11	37,623	37,978	355	40,890	40,817	-6	-0.02%
8/31/12	31,314	31,699	385	34,413	34,362	-5	-0.01%
8/31/13	30,857	31,120	263	34,479	34,139	-314	-0.91%
8/31/14	31,946	32,509	562	36,493	36,197	-242	-0.67%
8/31/15	29,827	31,180	1,353	35,627	35,427	-140	-0.39%
8/31/16	29,232	34,125	4,893	40,057	40,499	514	1.29%
8/31/17	13,818	26,876	13,058	38,068	36,848	-1,086	-2.86%
8/31/18		14,475	14,475	41,378	0	-41,378	-100.00%
	<u>1,539,676</u>	<u>1,579,423</u>	<u>39,747</u>	<u>1,658,837</u>	<u>1,616,868</u>	<u>-41,210</u>	<u>-2.48%</u>

Exhibit 11

State Office of Risk Management

Analysis of Paid Loss Emergence Compared to Projected Payment Amounts in Previous Actuarial Analysis

Fiscal Year Ending	Cumulative Paid Indemnity Claims				Indemnity Claims Paid During Year Ending				Anticipated Indemnity Claim Payments During Year Ending				
	as of 8/31/14	as of 8/31/15	as of 8/31/16	as of 8/31/17	as of 8/31/18	8/31/15	8/31/16	8/31/17	8/31/18	8/31/15	8/31/16	8/31/17	8/31/18
8/31/75	186	186	186	186	186	0	0	0	0	0	0	0	0
8/31/76	2,427	2,430	2,430	2,430	2,430	3	0	0	0	0	0	0	0
8/31/77	3,649	3,657	3,657	3,661	3,665	8	0	4	4	0	0	0	0
8/31/78	4,720	4,740	4,740	4,745	4,750	19	0	6	5	0	0	0	0
8/31/79	5,028	4,840	5,028	5,028	5,028	-188	188	0	0	0	0	0	0
8/31/80	5,360	5,231	5,360	5,360	5,360	-129	129	0	0	0	0	0	0
8/31/81	5,827	5,776	5,841	5,848	5,855	-51	65	7	7	0	0	0	0
8/31/82	7,498	7,362	7,498	7,498	7,498	-136	136	0	0	0	0	0	0
8/31/83	7,724	7,743	7,743	7,753	7,762	20	0	9	9	0	0	0	0
8/31/84	11,808	11,794	11,823	11,830	11,838	-14	29	7	8	0	0	0	0
8/31/85	13,266	13,266	13,266	13,266	13,266	0	0	0	0	0	0	0	0
8/31/86	17,055	17,123	17,123	17,157	17,191	68	0	34	35	0	0	0	0
8/31/87	18,003	18,003	18,003	18,003	18,003	0	0	0	0	0	0	0	0
8/31/88	22,376	22,418	22,418	22,438	22,459	42	0	21	21	0	0	0	0
8/31/89	27,573	27,613	27,613	27,633	27,653	41	0	20	20	0	0	0	0
8/31/90	32,589	32,662	32,662	32,699	32,736	73	0	36	37	0	0	0	0
8/31/91	24,346	24,392	24,392	24,415	24,424	47	0	22	9	0	0	0	0
8/31/92	22,003	22,132	22,132	22,196	22,261	129	0	64	65	0	0	0	0
8/31/93	21,215	21,277	21,277	21,290	21,302	62	0	13	12	55	0	0	0
8/31/94	23,763	23,803	23,843	23,876	23,876	40	40	33	0	32	62	0	0
8/31/95	24,129	24,173	24,217	24,261	24,305	45	44	44	45	36	33	109	0
8/31/96	20,990	20,990	20,990	20,990	20,990	0	0	0	0	35	31	35	103
8/31/97	22,216	22,270	22,324	22,380	22,438	54	54	56	58	40	37	33	33
8/31/98	22,943	23,016	23,065	23,094	23,121	72	50	28	27	48	42	40	40
8/31/99	24,143	24,197	24,247	24,279	24,302	54	50	32	23	47	51	43	35
8/31/00	26,817	27,039	27,252	27,467	27,667	222	213	215	200	54	52	55	45
8/31/01	24,334	24,362	24,389	24,418	24,445	28	28	28	28	90	49	71	75
8/31/02	23,896	23,896	23,896	23,896	23,896	0	0	0	0	71	88	64	63
8/31/03	21,450	21,512	21,575	21,639	21,705	63	63	64	65	70	64	70	58
8/31/04	16,748	16,821	16,894	16,967	17,042	73	73	73	75	50	55	44	45
8/31/05	17,423	17,490	17,557	17,624	17,685	67	67	67	61	73	52	56	52
8/31/06	13,534	13,623	13,708	13,792	13,877	89	85	84	84	53	57	50	48
8/31/07	15,085	15,193	15,294	15,346	15,404	108	101	53	58	88	59	49	50
8/31/08	16,106	16,285	16,415	16,656	16,761	179	130	241	104	168	95	75	60
8/31/09	15,073	15,337	15,529	15,629	15,701	265	192	99	72	209	160	120	110
8/31/10	15,417	15,748	15,963	16,160	16,711	331	215	197	551	242	217	176	124
8/31/11	15,110	15,539	16,037	16,468	16,788	429	497	432	320	343	243	220	191
8/31/12	11,911	12,623	12,960	13,191	13,437	712	336	231	246	633	288	253	204
8/31/13	8,867	11,120	11,726	11,929	12,074	2,254	605	203	146	2,023	645	289	247
8/31/14	4,152	10,297	12,761	13,449	13,784	6,145	2,464	689	334	6,868	2,375	741	327
8/31/15		3,449	9,171	11,624	12,421	3,449	5,723	2,453	796	4,545	2,147	640	640
8/31/16			4,409	11,258	13,840	4,409	4,409	6,849	2,582	4,659	6,768	2,437	640
8/31/17				4,010	10,338			4,010	6,328		4,687	6,197	640
8/31/18					4,142				4,142			4,630	640
	636,760	651,430	667,416	683,841	700,418	14,670	15,986	16,426	16,577	15,874	15,410	16,195	15,813

Exhibit 11

**State Office of Risk Management
Analysis of Paid Loss Emergence and Change in Ultimate Incurred Claims**

Fiscal Year Ending	Cumulative Paid Medical Claims				Medical Claims Paid During Year Ending				Anticipated Medical Claim Payments During Year Ending				
	as of 8/31/14	as of 8/31/15	as of 8/31/16	as of 8/31/17	as of 8/31/18	8/31/15	8/31/16	8/31/17	8/31/18	8/31/15	8/31/16	8/31/17	8/31/18
8/31/75	182	184	184	186	188	2	0	2	3	0	0	0	0
8/31/76	1,130	1,130	1,130	1,130	1,130	0	0	0	0	0	0	0	0
8/31/77	2,010	2,010	2,010	2,010	2,010	0	0	0	0	0	0	0	0
8/31/78	3,105	3,105	3,105	3,105	3,105	0	0	0	0	0	0	0	0
8/31/79	3,970	3,790	4,020	4,046	4,051	-180	230	26	5	0	0	0	0
8/31/80	4,749	4,650	4,749	4,749	4,749	-100	100	0	0	0	0	0	0
8/31/81	4,318	4,280	4,318	4,318	4,318	-38	38	0	0	0	0	0	0
8/31/82	5,005	4,929	5,005	5,005	5,005	-75	75	0	0	0	0	0	0
8/31/83	6,394	6,408	6,408	6,413	6,417	15	0	5	3	0	0	0	0
8/31/84	9,877	9,892	9,911	9,930	9,940	15	19	19	10	0	0	0	0
8/31/85	9,910	9,920	9,920	9,920	9,920	10	0	0	0	0	0	0	0
8/31/86	12,102	12,130	12,130	12,150	12,170	28	0	20	20	0	0	0	0
8/31/87	14,653	14,767	14,767	14,821	14,870	114	0	53	49	0	0	0	0
8/31/88	24,537	25,045	25,045	25,312	25,628	509	0	267	316	0	0	0	0
8/31/89	23,584	23,664	23,664	23,717	23,728	79	0	53	11	0	0	0	0
8/31/90	26,737	26,786	26,786	26,801	26,811	48	0	16	10	0	0	0	0
8/31/91	28,047	28,076	28,076	28,100	28,106	29	0	25	6	0	0	0	0
8/31/92	31,250	31,387	31,387	31,462	31,514	137	0	74	52	0	0	0	0
8/31/93	28,618	28,759	28,759	28,803	28,827	140	0	44	24	288	0	0	0
8/31/94	31,139	31,179	31,202	31,220	31,233	40	24	17	14	125	315	0	0
8/31/95	31,144	31,174	31,198	31,216	31,235	30	24	18	19	107	125	180	0
8/31/96	32,732	32,832	32,946	33,068	33,197	100	114	122	129	114	125	65	155
8/31/97	33,283	33,652	33,984	34,286	34,574	369	332	303	288	172	175	92	78
8/31/98	32,136	32,321	32,563	32,889	33,157	185	241	327	267	217	160	187	122
8/31/99	34,988	35,110	35,169	35,306	35,352	122	59	136	47	257	237	224	211
8/31/00	35,106	35,281	35,356	35,415	35,507	175	75	59	92	251	260	194	217
8/31/01	37,169	37,295	37,379	37,436	37,512	127	84	57	76	320	269	230	189
8/31/02	36,367	36,438	36,474	36,491	36,504	70	36	16	13	358	316	241	210
8/31/03	35,080	35,699	36,682	37,550	38,473	619	984	868	923	370	349	231	198
8/31/04	23,412	23,476	23,516	23,546	23,564	65	40	30	18	222	250	249	178
8/31/05	23,115	23,176	23,216	23,309	23,347	61	40	93	38	254	222	197	170
8/31/06	18,233	18,269	18,304	18,322	18,341	37	34	18	19	240	203	124	130
8/31/07	18,618	18,720	18,768	18,805	18,884	103	47	37	80	275	249	142	107
8/31/08	20,659	20,786	21,004	21,076	21,127	127	218	72	51	277	309	208	130
8/31/09	19,225	19,341	19,385	19,417	19,447	116	45	31	30	345	262	253	177
8/31/10	21,024	21,444	21,665	21,817	21,925	420	221	152	109	352	383	174	172
8/31/11	20,735	21,046	21,114	21,155	21,190	311	67	41	35	519	355	222	149
8/31/12	17,029	17,590	17,801	18,123	18,262	561	211	322	139	867	468	225	142
8/31/13	16,077	17,885	18,591	18,929	19,045	1,808	706	338	117	1,999	999	385	249
8/31/14	8,894	16,456	18,071	18,497	18,725	7,561	1,615	426	228	8,098	2,053	773	366
8/31/15	9,966	16,723	18,071	18,203	18,759	9,966	6,756	1,480	557	9,688	7,153	1,875	694
8/31/16		10,393	10,393	17,974	20,285		10,393	7,581	2,311		10,076	8,431	1,827
8/31/17				9,808	16,538			9,808	6,730			11,176	7,638
8/31/18	786,340	810,049	832,877	855,835	879,005	23,708	22,828	22,958	23,170	25,765	25,301	26,078	27,023

Exhibit 11

**State Office of Risk Management
Analysis of Paid Loss Emergence and Change in Ultimate Incurred Claims**

<i>Fiscal Year Ending</i>	<i>Cumulative Total Paid Claims</i>				<i>Total Claims Paid During Year Ending</i>				<i>Anticipated Total Claim Payments During Year Ending</i>			
	<i>as of 8/31/14</i>	<i>as of 8/31/15</i>	<i>as of 8/31/16</i>	<i>as of 8/31/17</i>	<i>as of 8/31/15</i>	<i>as of 8/31/16</i>	<i>as of 8/31/17</i>	<i>as of 8/31/18</i>	<i>8/31/15</i>	<i>8/31/16</i>	<i>8/31/17</i>	<i>8/31/18</i>
8/31/75	367	369	369	371	374	2	0	2	3	0	0	0
8/31/76	3,557	3,560	3,560	3,560	3,560	3	0	0	0	0	0	0
8/31/77	5,660	5,668	5,668	5,672	5,676	8	0	4	4	0	0	0
8/31/78	7,825	7,845	7,845	7,850	7,855	19	0	6	5	0	0	0
8/31/79	8,998	8,630	9,049	9,074	9,079	-369	419	26	5	0	0	0
8/31/80	10,109	9,881	10,109	10,109	10,109	-228	228	0	0	0	0	0
8/31/81	10,145	10,056	10,159	10,166	10,173	-89	103	7	7	0	0	0
8/31/82	12,503	12,292	12,503	12,503	12,503	-211	211	0	0	0	0	0
8/31/83	14,117	14,151	14,152	14,166	14,179	34	0	15	13	0	0	0
8/31/84	21,685	21,686	21,734	21,761	21,778	1	48	27	17	0	0	0
8/31/85	23,176	23,186	23,186	23,186	23,186	10	0	0	0	0	0	0
8/31/86	29,157	29,253	29,253	29,307	29,362	96	0	54	54	0	0	0
8/31/87	32,656	32,770	32,770	32,823	32,873	114	0	53	49	0	0	0
8/31/88	46,913	47,463	47,463	47,751	48,087	550	0	288	337	0	0	0
8/31/89	51,157	51,277	51,277	51,350	51,382	120	0	73	31	0	0	0
8/31/90	52,392	52,468	52,468	52,500	52,547	122	0	47	47	0	0	0
8/31/91	53,253	53,519	53,519	53,657	53,775	76	0	138	117	0	0	0
8/31/92	49,833	50,036	50,036	50,093	50,129	203	0	57	36	0	0	0
8/31/94	54,902	54,982	55,045	55,096	55,110	80	64	51	14	343	0	0
8/31/95	55,272	55,347	55,415	55,477	55,540	75	67	62	64	157	376	0
8/31/96	53,723	53,823	53,936	54,058	54,187	100	114	122	129	143	158	285
8/31/97	55,499	55,922	56,308	56,666	57,012	423	386	358	345	207	144	99
8/31/98	55,079	55,337	55,628	55,983	56,277	258	291	355	294	205	212	125
8/31/99	59,131	59,308	59,417	59,585	59,655	176	109	168	70	265	202	246
8/31/00	61,923	62,320	62,608	62,882	63,174	397	288	274	292	304	288	267
8/31/01	61,502	61,657	61,769	61,854	61,958	155	112	85	104	305	312	256
8/31/02	60,263	60,334	60,370	60,386	60,399	70	36	16	13	409	318	297
8/31/03	56,530	57,211	58,258	59,189	60,177	681	1,046	932	988	441	404	297
8/31/04	40,160	40,297	40,410	40,513	40,606	137	112	103	93	429	413	207
8/31/05	40,538	40,667	40,773	40,933	41,031	128	106	160	98	273	305	294
8/31/06	31,767	31,892	32,012	32,115	32,218	126	119	103	104	327	274	253
8/31/07	33,703	33,913	34,061	34,151	34,288	210	148	90	137	292	260	174
8/31/08	36,765	37,071	37,419	37,732	37,887	306	348	313	155	363	307	192
8/31/09	34,297	34,678	34,915	35,046	35,148	381	237	131	103	445	404	284
8/31/10	36,441	37,192	37,628	37,976	38,636	750	437	348	660	553	422	407
8/31/11	35,845	36,586	37,150	37,623	37,978	741	564	473	355	594	600	352
8/31/12	28,940	30,213	30,760	31,314	31,699	1,273	548	554	385	862	598	441
8/31/13	24,943	29,005	30,316	30,857	31,120	4,062	1,311	541	263	1,500	757	478
8/31/14	13,046	26,752	30,832	31,946	32,509	13,707	4,079	1,115	562	4,023	1,645	674
8/31/15		13,415	25,894	29,827	31,180	13,415	12,479	3,933	3,553	14,966	4,428	1,535
8/31/16			14,802	29,232	34,125		14,802	14,430	4,893	14,233	13,148	4,401
8/31/17				13,818	26,876			13,818	13,058	14,734	15,199	14,673
8/31/18					14,475				14,475			16,428
	1,423,100	1,461,479	1,500,293	1,539,676	1,579,423	38,379	38,814	39,383	39,747	41,639	40,711	42,274
												42,635

Exhibit 12

State Office of Risk Management

Workers Compensation Program @ 8/31/18

<i>Claim Size</i>		<i>Claim Data</i>		
<i>Minimum</i>	<i>Maximum</i>	<i>Number</i>	<i>Amount</i>	<i>Average</i>
Less Than \$	\$ 25,000	304,914	\$ 498,945,039	\$ 1,636
\$25,000	\$49,999	8,487	298,152,938	35,131
50,000	99,999	4,688	322,163,890	68,721
100,000	199,999	1,708	227,895,935	133,429
200,000	499,999	569	165,164,052	290,271
500,000	999,999	57	35,912,562	630,045
1,000,000	1,999,999	7	10,090,437	1,441,491
2,000,000	4,999,999	0	0	0
5,000,000	or more	3	21,099,012	7,033,004
<i>Totals</i>		320,433	\$ 1,579,423,865	\$ 4,929

Exhibit 13A

State Office of Risk Management

**Workers Compensation Program
Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 2.00%
Undiscounted Indemnity Claim Payments**

Fiscal Year Ending	Liability For Unpaid Claims	Fiscal Year During Which Claims Are Paid																							
		18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40		
8/31/96	0																								
8/31/97	114	114																							
8/31/98	158	40	118																						
8/31/99	201	35	43	124																					
8/31/00	266	37	40	48	141																				
8/31/01	300	64	33	35	43	125																			
8/31/02	360	66	63	32	35	42	123																		
8/31/03	385	57	60	57	29	32	38	111																	
8/31/04	350	47	45	47	45	23	25	30	88																
8/31/05	418	54	49	47	49	47	24	26	31	91															
8/31/06	373	44	42	39	37	39	37	19	20	25	72														
8/31/07	463	47	49	47	43	41	43	41	21	23	28	80													
8/31/08	566	62	51	54	51	47	45	47	45	23	25	30	87												
8/31/09	607	73	58	48	51	48	44	42	44	42	21	23	28	82											
8/31/10	737	96	77	62	51	54	51	47	45	47	44	44	44	30	87										
8/31/11	948	194	98	79	63	52	55	52	48	46	48	45	45	23	25	31	89								
8/31/12	937	167	157	80	64	51	42	45	42	39	37	39	37	19	21	25	72								
8/31/13	1,066	205	153	145	73	59	47	39	41	39	36	34	36	34	17	19	23	66							
8/31/14	1,508	272	238	178	168	85	69	55	45	48	45	41	39	42	39	20	22	26	77						
8/31/15	1,688	305	250	218	163	154	78	63	50	41	44	41	38	36	38	18	20	24	71						
8/31/16	2,799	808	359	294	257	193	181	92	74	59	49	51	49	45	43	45	43	22	24	29	83				
8/31/17	4,875	2,312	740	329	269	235	176	166	84	68	54	45	47	45	41	39	41	39	20	22	26	76			
8/31/18	11,414	6,362	2,397	767	341	279	244	183	172	87	70	56	46	46	46	42	40	43	40	21	22	27	79		
Total Undiscounted Payments	30,533	11,461	5,120	2,730	1,973	1,605	1,322	1,057	850	677	573	509	456	406	363	315	259	216	185	142	132	103	79		
Discount Factor:		0.99015	0.9707	0.9517	0.9330	0.9147	0.8968	0.8792	0.8620	0.8451	0.8285	0.8123	0.7963	0.7807	0.7654	0.7504	0.7357	0.7213	0.7071	0.6933	0.6797	0.6663	0.6533		
Payout Pattern:																									
Marginal Percent	27.07%	40.65%	15.31%	4.90%	2.18%	1.78%	1.56%	1.17%	1.10%	0.56%	0.45%	0.36%	0.30%	0.31%	0.30%	0.27%	0.26%	0.27%	0.26%	0.13%	0.14%	0.17%	0.51%		
Cumulative Percent	27.07%	67.72%	83.03%	87.93%	90.11%	91.89%	93.45%	94.62%	95.72%	96.27%	96.72%	97.08%	97.38%	97.69%	97.99%	98.26%	98.52%	98.79%	99.05%	99.18%	99.32%	99.49%	100%		

Exhibit 13A

State Office of Risk Management

*Workers Compensation Program
Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 2.00%
Discounted Indemnity Claim Payments*

Fiscal Year Ending	Discounted Unpaid Claims	Fiscal Year During Which Claims Are Paid																						
		18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	
8/31/96	0																							
8/31/97	113																							
8/31/98	154	40	114																					
8/31/99	194	35	41	118																				
8/31/00	252	36	39	46	131																			
8/31/01	283	63	32	34	40	114																		
8/31/02	338	66	61	30	32	39	110																	
8/31/03	358	56	58	54	27	29	34	98																
8/31/04	322	47	44	45	42	21	22	27	76															
8/31/05	382	53	48	44	46	43	21	23	27	77														
8/31/06	339	44	41	37	34	35	33	16	18	21	60													
8/31/07	417	47	48	45	40	37	39	36	18	19	23	65												
8/31/08	507	61	50	51	48	43	40	41	38	19	21	24	70											
8/31/09	541	73	57	46	47	44	40	37	38	36	18	19	23	64										
8/31/10	655	95	75	59	48	49	46	41	38	40	37	18	20	23	67									
8/31/11	849	192	95	75	59	48	49	46	41	38	40	37	18	20	23	67								
8/31/12	841	165	153	76	60	47	38	39	37	33	31	32	29	15	16	19	53							
8/31/13	960	203	149	138	68	54	42	34	35	33	29	28	29	26	13	14	17	48						
8/31/14	1,361	269	231	169	156	77	62	48	39	40	37	34	31	32	30	15	16	19	54					
8/31/15	1,526	302	242	207	152	141	70	55	43	35	36	34	30	28	29	27	14	17	49					
8/31/16	2,564	800	349	280	240	176	163	81	64	50	40	42	39	35	33	34	31	16	17	20	57			
8/31/17	4,592	2,290	718	313	251	158	146	72	57	45	36	37	35	31	29	30	28	14	15	18	51			
8/31/18	10,965	6,299	2,326	730	318	255	219	161	148	73	58	45	37	38	36	32	30	31	29	14	15	18		
Total Discounted Payments	28,513	11,348	4,970	2,598	1,841	1,468	1,185	929	733	572	474	414	363	317	278	237	191	156	131	98	90	69		

Exhibit 13A

State Office of Risk Management

*Workers Compensation Program
 Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 2.00%
 Undiscounted Medical Claim Payments*

Fiscal Year Ending	Liability For Unpaid Claims	Fiscal Year During Which Claims Are Paid																							
		18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40		
8/31/96	0																								
8/31/97	172	172																							
8/31/98	274	109	165																						
8/31/99	448	153	118	178																					
8/31/00	626	174	154	119	179																				
8/31/01	886	221	185	164	126	190																			
8/31/02	1,050	182	216	181	160	123	186																		
8/31/03	1,270	172	191	226	189	168	129	195																	
8/31/04	965	172	107	119	141	118	105	81	122																
8/31/05	1,106	144	171	107	119	141	118	105	80	121															
8/31/06	996	121	114	135	85	94	111	93	83	64	96														
8/31/07	1,141	111	125	118	140	88	97	115	96	85	66	99													
8/31/08	1,391	107	125	141	133	158	99	109	130	109	96	74	112												
8/31/09	1,406	115	99	116	131	123	146	92	101	120	101	89	69	104											
8/31/10	1,689	97	130	112	131	148	139	166	104	115	136	114	101	78	118										
8/31/11	1,792	145	95	127	110	128	144	136	161	101	112	133	111	99	76	115									
8/31/12	1,653	103	125	82	110	95	110	125	118	140	87	97	115	96	85	66	99								
8/31/13	1,887	144	108	132	87	116	100	116	132	124	147	92	102	121	101	90	105	104							
8/31/14	2,097	218	143	108	132	86	115	99	116	131	124	147	92	102	121	101	69	104							
8/31/15	2,472	331	222	146	110	135	88	118	102	118	134	126	150	94	104	123	103	91	70	106					
8/31/16	3,481	748	366	246	162	122	149	97	130	112	131	148	139	166	104	115	136	114	101	78	117				
8/31/17	5,001	1,747	700	342	230	151	114	139	91	122	105	122	138	130	155	97	107	127	107	95	73	110			
8/31/18	12,982	7,661	1,859	744	364	244	161	121	148	97	129	112	130	147	139	165	103	114	136	113	101	77	117		
Total Undiscounted Payments	44,785	13,147	5,519	3,643	2,837	2,427	2,113	1,907	1,713	1,559	1,464	1,353	1,259	1,136	1,002	871	708	620	518	392	291	187	117		
Discount Factor:		0.9901	0.9707	0.9517	0.9330	0.9147	0.8968	0.8792	0.8620	0.8451	0.8285	0.8123	0.7963	0.7807	0.7654	0.7504	0.7357	0.7213	0.7071	0.6933	0.6797	0.6663	0.6533		
Payout Pattern:																									
Marginal Percent	44.98%	32.47%	7.88%	3.15%	1.54%	1.04%	0.68%	0.51%	0.63%	0.41%	0.55%	0.47%	0.55%	0.62%	0.59%	0.70%	0.44%	0.48%	0.57%	0.48%	0.43%	0.33%	0.50%		
Cumulative Percent	44.98%	77.45%	85.33%	88.48%	90.02%	91.06%	91.74%	92.26%	92.88%	93.29%	93.84%	94.31%	94.87%	95.49%	96.08%	96.78%	97.21%	97.70%	98.27%	98.75%	99.18%	99.50%	100%		

Exhibit 13A

State Office of Risk Management

*Workers Compensation Program
Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 2.00%
Discounted Medical Claim Payments*

Fiscal Year Ending	Discounted Unpaid Claims	Fiscal Year During Which Claims Are Paid																						
		18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	
8/31/96	0																							
8/31/97	170																							
8/31/98	269	108	160																					
8/31/99	434	151	114	169																				
8/31/00	602	172	150	113	167																			
8/31/01	846	219	179	156	118	174																		
8/31/02	992	180	210	172	150	113	167																	
8/31/03	1,188	170	185	215	177	154	116	171																
8/31/04	897	170	104	113	132	108	94	71	105															
8/31/05	1,020	143	166	102	111	129	106	92	69	103														
8/31/06	911	120	111	129	79	86	100	82	71	54	80													
8/31/07	1,033	110	121	112	131	80	87	101	83	72	55	81												
8/31/08	1,246	106	121	134	124	144	89	96	112	92	80	60	89											
8/31/09	1,247	114	96	110	122	113	131	81	87	102	83	73	55	81										
8/31/10	1,481	96	126	107	122	135	125	146	89	97	113	93	81	61	90									
8/31/11	1,560	144	92	121	102	117	129	120	139	85	93	108	89	77	58	86								
8/31/12	1,424	102	122	78	102	87	99	110	101	118	72	79	92	75	65	49	73							
8/31/13	1,615	143	105	126	81	106	90	102	113	105	122	75	81	95	78	67	51	75						
8/31/14	1,793	216	139	103	123	79	103	87	100	111	102	119	73	79	92	76	66	50	74					
8/31/15	2,122	328	216	139	103	123	79	104	88	100	111	102	119	73	79	93	76	66	50	74				
8/31/16	3,040	741	355	234	151	111	133	86	112	95	108	120	111	129	79	86	100	82	71	54	80			
8/31/17	4,517	1,730	679	325	214	138	102	122	78	103	87	99	110	102	118	73	79	92	75	66	49	73		
8/31/18	12,297	7,586	1,805	708	339	224	144	106	128	82	107	91	104	115	106	124	76	82	96	79	68	52	76	
Total Discounted Payments	40,703	13,017	5,358	3,467	2,647	2,221	1,895	1,677	1,477	1,318	1,213	1,099	1,003	887	767	653	521	448	366	272	198	125	76	

Exhibit 13B

State Office of Risk Management

*Workers Compensation Program
Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 2.00%
Undiscounted Indemnity and Medical Payments Combined*

Fiscal Year Ending	Liability For Unpaid Claims	Fiscal Year During Which Claims Are Paid																						
		18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	
8/31/96	0																							
8/31/97	287	287																						
8/31/98	436	152	284																					
8/31/99	653	189	162	303																				
8/31/00	911	217	200	172	321																			
8/31/01	1,184	285	214	198	169	317																		
8/31/02	1,409	250	279	210	194	166	311																	
8/31/03	1,624	225	248	277	208	192	165	308																
8/31/04	1,337	227	154	169	189	142	131	113	211															
8/31/05	1,565	207	231	157	172	192	145	133	114	214														
8/31/06	1,409	173	164	182	124	136	152	114	105	90	169													
8/31/07	1,671	165	185	175	195	132	145	162	122	113	96	181												
8/31/08	2,029	174	183	205	194	216	147	161	180	136	125	107	200											
8/31/09	2,091	194	162	171	192	181	202	137	151	168	127	117	100	187										
8/31/10	2,513	216	213	178	188	211	199	222	151	165	185	139	128	110	206									
8/31/11	2,839	337	215	212	178	188	210	199	221	150	165	184	139	128	109	205								
8/31/12	2,663	274	284	181	179	149	158	177	167	186	126	139	155	117	108	92	173							
8/31/13	3,019	362	273	283	181	178	149	157	176	167	186	126	138	155	116	107	92	172						
8/31/14	3,688	490	384	289	300	191	189	158	167	187	177	197	133	147	164	123	114	97	182					
8/31/15	4,247	642	479	375	283	293	187	185	154	163	183	173	192	130	143	160	120	111	95	178				
8/31/16	6,374	1,556	728	544	426	321	332	212	209	175	185	207	196	218	148	162	182	137	126	108	202			
8/31/17	9,972	4,062	1,442	675	504	395	297	308	197	194	162	172	192	182	202	137	151	169	127	117	100	188		
8/31/18	24,531	14,033	4,276	1,519	711	531	415	313	324	207	204	171	181	202	191	213	144	159	177	133	105	197		
Total Undiscounted Payments	76,451	24,716	10,761	6,476	4,907	4,132	3,534	3,060	2,650	2,315	2,090	1,911	1,755	1,575	1,388	1,200	975	844	708	537	425	293	197	
Discount Factor:		0.9901	0.9707	0.9517	0.9330	0.9147	0.8968	0.8792	0.8620	0.8451	0.8285	0.8123	0.7963	0.7807	0.7654	0.7504	0.7357	0.7213	0.7071	0.6933	0.6797	0.6663	0.6533	
Payout Pattern:																								
Marginal Percent		37.64%	35.67%	10.87%	3.86%	1.81%	1.35%	1.06%	0.80%	0.82%	0.53%	0.52%	0.43%	0.46%	0.51%	0.49%	0.37%	0.40%	0.45%	0.34%	0.31%	0.27%	0.50%	
Cumulative Percent		37.64%	73.31%	84.18%	88.04%	89.85%	91.20%	92.26%	93.05%	93.88%	94.40%	94.92%	95.36%	95.82%	96.33%	96.82%	97.36%	97.72%	98.13%	98.58%	98.92%	99.23%	99.50%	100%

Exhibit 13B

State Office of Risk Management

*Workers Compensation Program
Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 2.00%
Discounted Indemnity and Medical Payments Combined*

Fiscal Year Ending	Discounted Unpaid Claims	Fiscal Year During Which Claims Are Paid																						
		18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	
8/31/96	0																							
8/31/97	284	284																						
8/31/98	426	150	276																					
8/31/99	632	187	157	288																				
8/31/00	873	215	195	163	300																			
8/31/01	1,127	282	208	188	158	290																		
8/31/02	1,329	247	271	200	181	152	279																	
8/31/03	1,516	223	240	264	194	176	148	271																
8/31/04	1,241	225	150	161	177	130	118	99	182															
8/31/05	1,441	205	224	149	160	176	130	117	99	181														
8/31/06	1,287	171	159	173	115	124	136	100	91	76	140													
8/31/07	1,512	164	180	166	182	121	130	143	105	95	80	147												
8/31/08	1,818	172	178	196	181	198	131	142	155	115	104	87	160											
8/31/09	1,858	192	158	163	179	166	181	121	130	142	105	95	80	146										
8/31/10	2,215	214	207	170	176	193	179	195	130	140	153	113	102	86	158									
8/31/11	2,496	333	209	202	166	172	188	175	191	127	136	150	110	100	84	154								
8/31/12	2,331	271	275	172	167	137	142	156	144	157	105	113	124	91	82	69	127							
8/31/13	2,638	359	265	269	168	163	134	138	152	141	154	102	110	121	89	81	68	124						
8/31/14	3,225	486	373	275	280	175	169	139	144	158	146	160	106	114	125	92	84	70	129					
8/31/15	3,726	636	465	357	264	268	168	162	133	138	151	140	153	102	110	120	89	80	67	124				
8/31/16	5,685	1,540	707	518	397	293	298	186	181	148	153	168	156	170	113	122	134	99	89	75	137			
8/31/17	9,189	4,022	1,400	643	470	361	267	271	170	164	135	139	153	142	155	103	111	122	90	81	68	125		
8/31/18	23,379	13,894	4,151	1,445	663	486	373	275	280	175	169	139	144	158	146	160	106	114	125	93	84	70	129	
Total Discounted Payments	70,228	24,473	10,447	6,163	4,578	3,780	3,170	2,690	2,284	1,957	1,731	1,553	1,398	1,230	1,062	901	718	609	500	372	289	195	129	

Exhibit 14A

State Office of Risk Management

*Workers Compensation Program
Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 3.00%
Undiscounted Indemnity Claim Payments*

Fiscal Year Ending	Liability For Unpaid Claims	Fiscal Year During Which Claims Are Paid																							
		18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40		
8/31/96	0																								
8/31/97	114	114																							
8/31/98	158	40	118																						
8/31/99	201	35	43	124																					
8/31/00	266	37	40	48	141																				
8/31/01	300	64	33	35	43	125																			
8/31/02	360	66	63	32	35	42	123																		
8/31/03	385	57	60	57	29	32	38	111																	
8/31/04	350	47	45	47	45	23	25	30	88																
8/31/05	418	54	49	47	49	47	24	26	31	91															
8/31/06	373	44	42	39	37	39	37	19	20	25	72														
8/31/07	463	47	49	47	43	41	43	41	21	23	28	80													
8/31/08	566	62	51	54	51	47	45	47	45	23	25	30	87												
8/31/09	607	73	58	48	51	48	44	42	44	42	21	23	28	82											
8/31/10	737	96	77	62	51	54	51	47	45	47	44	23	25	30	87										
8/31/11	948	194	98	79	63	52	55	52	48	46	48	45	23	25	31	89									
8/31/12	937	167	157	80	64	51	42	45	42	39	37	39	37	19	21	25	72								
8/31/13	1,066	205	153	145	73	59	47	39	41	39	36	34	36	34	17	19	23	66							
8/31/14	1,508	272	238	178	168	85	69	55	45	48	45	41	39	42	39	20	22	26	77						
8/31/15	1,688	305	250	218	163	154	78	63	50	41	44	41	38	36	38	36	18	20	24	71					
8/31/16	2,799	808	359	294	257	193	181	92	74	59	49	51	49	45	43	45	43	22	24	29	83				
8/31/17	4,875	2,312	740	329	269	235	176	166	84	68	54	45	47	45	41	39	41	39	20	22	26	76			
8/31/18	11,414	6,362	2,397	767	341	279	244	183	172	87	70	56	46	49	46	42	40	43	40	21	22	27	79		
Total Undiscounted Payments	30,533	11,461	5,120	2,730	1,973	1,605	1,322	1,057	850	677	573	509	456	406	363	315	259	216	185	142	132	103	79		
Discount Factor:		0.98533	0.95666	0.92888	0.9017	0.87555	0.85000	0.82522	0.8012	0.7778	0.7552	0.7332	0.7118	0.6911	0.6710	0.6514	0.6324	0.6140	0.5961	0.5788	0.5619	0.5456	0.5297		
Payout Pattern:		27.07%	40.65%	15.31%	4.90%	2.18%	1.78%	1.56%	1.17%	1.10%	0.56%	0.45%	0.36%	0.30%	0.31%	0.30%	0.27%	0.26%	0.27%	0.26%	0.13%	0.14%	0.17%	0.51%	
Marginal Percent		27.07%	67.72%	83.03%	87.93%	90.11%	91.89%	93.45%	94.62%	95.72%	96.27%	96.72%	97.08%	97.38%	97.69%	97.99%	98.26%	98.52%	98.79%	99.05%	99.18%	99.32%	99.49%	100%	
Cumulative Percent		27.07%	67.72%	83.03%	87.93%	90.11%	91.89%	93.45%	94.62%	95.72%	96.27%	96.72%	97.08%	97.38%	97.69%	97.99%	98.26%	98.52%	98.79%	99.05%	99.18%	99.32%	99.49%	100%	

Exhibit 14A

State Office of Risk Management

*Workers Compensation Program
Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 3.00%
Discounted Indemnity Claim Payments*

Fiscal Year Ending	Discounted Unpaid Claims	Fiscal Year During Which Claims Are Paid																						
		18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	
8/31/96	0																							
8/31/97	112	112																						
8/31/98	152	40	112																					
8/31/99	190	35	41	115																				
8/31/00	246	36	38	45	127																			
8/31/01	275	63	31	33	39	109																		
8/31/02	327	65	60	30	31	37	104																	
8/31/03	345	56	58	53	26	28	33	92																
8/31/04	310	46	43	44	40	20	21	25	70															
8/31/05	366	53	47	43	44	41	20	21	25	71														
8/31/06	323	44	40	36	33	34	31	15	16	19	54													
8/31/07	396	46	47	44	39	36	37	34	17	18	21	59												
8/31/08	480	61	49	50	46	41	38	39	36	18	19	22	62											
8/31/09	512	72	56	45	46	42	38	35	36	33	16	17	20	57										
8/31/10	619	94	74	57	46	47	43	38	36	37	34	17	18	21	58									
8/31/11	806	191	94	74	57	46	47	43	38	35	36	33	17	17	21	58								
8/31/12	800	165	151	74	58	45	36	37	34	30	28	29	26	13	14	16	46							
8/31/13	916	202	147	134	66	52	40	32	33	30	27	25	26	23	12	12	14	41						
8/31/14	1,299	268	227	165	151	74	58	45	36	37	34	30	28	29	26	13	14	16	46					
8/31/15	1,457	300	239	202	147	135	66	52	40	32	33	30	27	25	26	23	12	14	41					
8/31/16	2,465	796	344	273	232	169	154	76	59	46	37	38	35	31	29	29	27	13	14	17	47			
8/31/17	4,470	2,278	708	306	243	206	150	137	67	53	41	33	34	31	27	25	26	24	12	13	15	42		
8/31/18	10,766	6,268	2,293	712	307	244	207	151	138	68	53	41	33	34	31	28	26	24	12	13	15	42		
Total Discounted Payments	27,634	11,293	4,898	2,535	1,779	1,405	1,123	872	681	526	432	373	324	281	243	205	164	133	110	82	74	56	42	

Exhibit 14A

State Office of Risk Management

**Workers Compensation Program
Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 3.00%
Undiscounted Medical Claim Payments**

Fiscal Year Ending	Liability For Unpaid Claims	Fiscal Year During Which Claims Are Paid																								
		18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40			
8/31/96	0																									
8/31/97	172	172																								
8/31/98	274	109	165																							
8/31/99	448	153	118	178																						
8/31/00	626	174	154	119	179																					
8/31/01	886	221	185	164	126	190																				
8/31/02	1,050	182	216	181	160	123	186																			
8/31/03	1,270	172	191	226	189	168	129	195																		
8/31/04	965	172	107	119	141	118	105	81	122																	
8/31/05	1,106	144	171	107	119	141	118	105	80	121																
8/31/06	996	121	114	135	85	94	111	93	83	64	96															
8/31/07	1,141	111	125	118	140	88	97	115	96	85	66	99														
8/31/08	1,391	107	125	141	133	158	99	109	130	109	96	74	112													
8/31/09	1,406	115	99	116	131	123	146	92	101	120	101	89	69	104												
8/31/10	1,689	97	130	112	131	148	139	166	104	115	136	114	101	78	118											
8/31/11	1,792	145	95	127	110	128	144	136	161	101	112	133	111	99	76	115										
8/31/12	1,653	103	125	82	110	95	110	125	118	140	87	97	115	96	85	66	99									
8/31/13	1,887	144	108	132	87	116	100	116	132	124	147	92	102	121	101	90	69	105								
8/31/14	2,097	218	143	108	132	86	115	99	116	131	124	147	92	102	121	101	90	69	104							
8/31/15	2,472	331	222	146	110	135	88	118	102	118	134	126	150	94	104	123	103	91	70	106						
8/31/16	3,481	748	366	246	162	122	149	97	130	112	131	148	139	166	104	115	136	114	101	78	117					
8/31/17	5,001	1,747	700	342	230	151	114	139	91	122	105	122	138	130	155	97	107	127	107	95	73	110				
8/31/18	12,982	7,661	1,859	744	364	244	161	121	148	97	129	112	130	147	139	165	103	114	136	113	101	77	117			
Total Undiscounted Payments	44,785	13,147	5,519	3,643	2,837	2,427	2,113	1,907	1,713	1,559	1,464	1,353	1,259	1,136	1,002	871	708	620	518	392	291	187	117			
Discount Factor:		0.9853	0.9566	0.9288	0.9017	0.8755	0.8500	0.8252	0.8012	0.7778	0.7552	0.7332	0.7118	0.6911	0.6710	0.6514	0.6324	0.6140	0.5961	0.5788	0.5619	0.5456	0.5297			
Payout Pattern:																										
Marginal Percent	44.98%	32.47%	7.88%	3.15%	1.54%	1.04%	0.68%	0.51%	0.63%	0.41%	0.55%	0.47%	0.55%	0.62%	0.59%	0.70%	0.44%	0.48%	0.57%	0.48%	0.43%	0.33%	0.50%			
Cumulative Percent	44.98%	77.45%	85.33%	88.48%	90.02%	91.06%	91.74%	92.26%	92.88%	93.29%	93.84%	94.31%	94.87%	95.49%	96.08%	96.78%	97.21%	97.70%	98.27%	98.75%	99.18%	99.50%	100%			

Exhibit 14A

State Office of Risk Management

Workers Compensation Program
 Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 3.00%
 Discounted Medical Claim Payments

Fiscal Year Ending	Discounted Unpaid Claims	Fiscal Year During Which Claims Are Paid																						
		18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	
8/31/96	0																							
8/31/97	169																							
8/31/98	266	108	158																					
8/31/99	428	151	112	165																				
8/31/00	591	171	147	110	162																			
8/31/01	827	218	177	152	114	167																		
8/31/02	965	179	207	168	145	108	158																	
8/31/03	1,150	170	182	210	171	147	110	161																
8/31/04	867	169	103	111	127	103	89	67	98															
8/31/05	981	142	164	100	107	123	100	86	64	94														
8/31/06	873	119	109	126	76	82	95	77	66	50	73													
8/31/07	985	109	120	110	126	77	83	95	77	66	50	73												
8/31/08	1,182	105	119	131	120	138	84	90	104	84	73	54	80											
8/31/09	1,178	113	95	107	118	108	124	76	81	94	76	65	49	72										
8/31/10	1,391	96	125	104	118	130	119	137	83	89	103	84	72	54	79									
8/31/11	1,460	143	91	118	99	112	123	112	129	79	85	97	79	68	51	75								
8/31/12	1,327	101	120	76	99	83	94	103	94	109	66	71	82	66	57	43	63							
8/31/13	1,501	142	104	123	78	101	85	96	105	96	111	68	73	84	59	44	64							
8/31/14	1,666	215	137	100	119	76	98	82	93	102	93	108	65	70	81	66	57	42	62					
8/31/15	1,977	326	213	136	99	118	75	97	81	92	101	92	107	65	70	80	65	56	42	62				
8/31/16	2,859	737	350	228	146	107	126	80	104	87	99	108	99	114	70	75	86	70	60	45	66			
8/31/17	4,317	1,722	669	318	207	132	97	115	73	95	79	90	98	90	104	63	68	78	64	55	41	60		
8/31/18	12,008	7,549	1,779	691	328	214	137	100	119	75	98	82	93	102	93	107	65	70	81	66	56	42	62	
Total Discounted Payments	38,967	12,954	5,280	3,384	2,558	2,125	1,796	1,574	1,373	1,213	1,106	992	897	785	672	567	448	381	309	227	163	102	62	62

Exhibit 14B

State Office of Risk Management

**Workers Compensation Program
Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 3.00%
Undiscounted Indemnity and Medical Payments Combined**

Fiscal Year Ending	Liability For Unpaid Claims	Fiscal Year During Which Claims Are Paid																						
		18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	
8/31/96	0																							
8/31/97	287	287																						
8/31/98	436	152	284																					
8/31/99	653	189	162	303																				
8/31/00	911	217	200	172	321																			
8/31/01	1,184	285	214	198	169	317																		
8/31/02	1,409	250	279	210	194	166	311																	
8/31/03	1,624	225	248	277	208	192	165	308																
8/31/04	1,337	227	154	169	189	142	131	113	211															
8/31/05	1,565	207	231	157	172	192	145	133	114	214														
8/31/06	1,409	173	164	182	124	136	152	114	105	90	169													
8/31/07	1,671	165	185	175	195	132	145	162	122	113	96	181												
8/31/08	2,029	174	183	205	194	216	147	161	180	136	125	107	200											
8/31/09	2,091	194	162	171	192	181	202	137	151	168	127	117	100	187										
8/31/10	2,513	216	213	178	188	211	199	222	151	165	185	139	128	110	206									
8/31/11	2,839	337	215	212	178	188	210	199	221	150	165	184	139	128	109	205								
8/31/12	2,663	274	284	181	179	149	158	177	167	186	126	139	155	117	108	92	173							
8/31/13	3,019	362	273	283	181	178	149	157	176	167	186	126	138	155	116	107	92	172						
8/31/14	3,688	490	384	289	300	191	189	158	167	187	177	197	133	147	164	123	114	97	182					
8/31/15	4,247	642	479	375	283	293	187	185	154	163	183	173	192	130	143	160	120	111	95	178				
8/31/16	6,374	1,556	728	544	426	321	332	212	209	175	185	207	196	218	148	162	182	137	126	108	202			
8/31/17	9,972	4,062	1,442	675	504	395	297	308	197	194	162	172	192	182	202	137	151	169	127	117	100	188		
8/31/18	24,531	14,033	4,276	1,519	711	531	415	313	324	207	204	171	181	202	191	213	144	159	177	133	123	105	197	
Total Undiscounted Payments	76,451	24,716	10,761	6,476	4,907	4,132	3,534	3,060	2,650	2,315	2,090	1,911	1,755	1,575	1,388	1,200	975	844	708	537	425	293	197	
Discount Factor:		0.9853	0.9566	0.9288	0.9017	0.8755	0.8500	0.8252	0.8012	0.7778	0.7552	0.7332	0.7118	0.6911	0.6710	0.6514	0.6324	0.6140	0.5961	0.5788	0.5619	0.5456	0.5297	
Payout Pattern:																								
Marginal Percent		37.64%	35.67%	10.87%	3.86%	1.81%	1.35%	1.06%	0.80%	0.82%	0.53%	0.52%	0.43%	0.46%	0.51%	0.49%	0.37%	0.40%	0.45%	0.34%	0.31%	0.27%	0.50%	
Cumulative Percent		37.64%	73.31%	84.18%	88.04%	89.85%	91.20%	92.26%	93.05%	93.88%	94.40%	94.92%	95.36%	95.82%	96.33%	96.82%	97.36%	97.72%	98.13%	98.58%	98.92%	99.23%	99.50%	100%

Exhibit 14B

State Office of Risk Management

*Workers Compensation Program
Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 3.00%
Discounted Indemnity and Medical Payments Combined*

Fiscal Year Ending	Discounted Unpaid Claims	Fiscal Year During Which Claims Are Paid																						
		18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	
8/31/96	0																							
8/31/97	283	283																						
8/31/98	421	150	272																					
8/31/99	622	186	155	281																				
8/31/00	855	214	192	159	290																			
8/31/01	1,100	281	205	184	153	278																		
8/31/02	1,292	246	267	195	175	145	264																	
8/31/03	1,467	222	237	257	188	168	140	254																
8/31/04	1,197	224	147	157	171	125	112	93	169															
8/31/05	1,385	204	221	145	155	168	123	110	92	166														
8/31/06	1,232	171	156	169	111	119	129	94	84	70	128													
8/31/07	1,441	163	177	162	176	116	123	134	98	88	73	132												
8/31/08	1,725	171	175	191	175	189	125	133	144	105	94	78	143											
8/31/09	1,757	191	155	159	173	159	172	113	121	131	96	86	71	130										
8/31/10	2,086	213	204	166	170	185	169	183	121	129	140	102	91	76	138									
8/31/11	2,349	332	206	197	160	164	179	164	177	117	124	135	99	88	73	134								
8/31/12	2,189	270	271	168	161	131	134	146	134	145	95	102	110	81	72	60	109							
8/31/13	2,477	357	261	263	163	156	127	130	141	130	140	92	98	107	78	70	58	106						
8/31/14	3,031	483	367	269	270	167	161	130	134	145	133	144	95	101	110	80	72	60	109					
8/31/15	3,509	632	459	348	255	256	159	152	124	127	138	127	137	90	96	104	76	68	57	103				
8/31/16	5,398	1,533	697	505	384	281	282	175	168	136	140	152	139	151	99	106	115	84	75	63	114			
8/31/17	8,861	4,002	1,380	627	455	346	253	254	158	151	123	126	137	125	136	89	95	103	76	68	56	102		
8/31/18	22,884	13,827	4,091	1,410	641	465	353	258	260	161	154	125	129	140	128	139	91	97	106	77	69	58	105	
Total Discounted Payments	67,560	24,354	10,295	6,014	4,425	3,618	3,004	2,525	2,123	1,801	1,578	1,401	1,249	1,089	931	782	617	519	422	311	239	160	105	

Exhibit 15A

State Office of Risk Management

**Workers Compensation Program
Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 4.00%
Undiscounted Indemnity Claim Payments**

Fiscal Year Ending	Liability For Unpaid Claims	Fiscal Year During Which Claims Are Paid																					
		18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40
8/31/96	0																						
8/31/97	114	114																					
8/31/98	158	40	118																				
8/31/99	201	35	43	124																			
8/31/00	266	37	40	48	141																		
8/31/01	300	64	33	35	43	125																	
8/31/02	360	66	63	32	35	42	123																
8/31/03	385	57	60	57	29	32	38	111															
8/31/04	350	47	45	47	45	23	25	30	88														
8/31/05	418	54	49	47	49	47	24	26	31	91													
8/31/06	373	44	42	39	37	39	37	19	20	25	72												
8/31/07	463	47	49	47	43	41	43	41	21	23	28	80											
8/31/08	566	62	51	54	51	47	45	47	45	23	25	30	87										
8/31/09	607	73	58	48	51	48	44	42	44	42	21	23	28	82									
8/31/10	737	96	77	62	51	54	51	47	45	47	44	23	25	30	87								
8/31/11	948	194	98	79	63	52	55	52	48	46	48	45	23	25	31	89							
8/31/12	937	167	157	80	64	51	42	45	42	39	37	39	37	19	21	25	72						
8/31/13	1,066	205	153	145	73	59	47	39	41	39	36	34	36	34	17	19	23	66					
8/31/14	1,508	272	238	178	168	85	69	55	45	48	45	41	39	42	39	20	22	26	77				
8/31/15	1,688	305	250	218	163	154	78	63	50	41	44	41	38	36	38	18	20	24	71				
8/31/16	2,799	808	359	294	257	193	181	92	74	59	49	51	49	45	43	45	43	22	24	29	83		
8/31/17	4,875	2,312	740	329	269	235	176	166	84	68	54	45	47	45	41	39	41	39	20	22	26	76	
8/31/18	11,414	6,362	2,397	767	341	279	244	183	172	87	70	56	46	49	46	42	40	43	40	21	22	27	79
Total Undiscounted Payments	30,533	11,461	5,120	2,730	1,973	1,605	1,322	1,057	850	677	573	509	456	406	363	315	259	216	185	142	132	103	79
Discount Factor:		0.98058	0.9429	0.9066	0.8717	0.8382	0.8060	0.7750	0.7452	0.7165	0.6889	0.6624	0.6370	0.6125	0.5889	0.5663	0.5445	0.5235	0.5034	0.4840	0.4654	0.4475	0.4303
Payout Pattern:																							
Marginal Percent		27.07%	40.65%	15.31%	4.90%	2.18%	1.78%	1.56%	1.17%	1.10%	0.56%	0.45%	0.36%	0.30%	0.31%	0.30%	0.27%	0.26%	0.27%	0.26%	0.13%	0.14%	0.17%
Cumulative Percent		27.07%	67.72%	83.03%	87.93%	90.11%	91.89%	93.45%	94.62%	95.72%	96.27%	96.72%	97.08%	97.38%	97.69%	97.99%	98.26%	98.52%	98.79%	99.05%	99.18%	99.32%	99.49%

Exhibit 15A

State Office of Risk Management

*Workers Compensation Program
Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 4.00%
Discounted Indemnity Claim Payments*

Fiscal Year Ending	Discounted Unpaid Claims	Fiscal Year During Which Claims Are Paid																						
		18 / 19	19 / 20	20 / 21	21 / 22	22 / 23	23 / 24	24 / 25	25 / 26	26 / 27	27 / 28	28 / 29	29 / 30	30 / 31	31 / 32	32 / 33	33 / 34	34 / 35	35 / 36	36 / 37	37 / 38	38 / 39	39 / 40	
8/31/96	0																							
8/31/97	112	112																						
8/31/98	150	40	111																					
8/31/99	187	34	40	112																				
8/31/00	240	36	38	44	123																			
8/31/01	268	63	31	32	37	105																		
8/31/02	317	65	59	29	30	35	99																	
8/31/03	333	56	57	52	25	27	31	86																
8/31/04	298	46	42	43	39	19	20	23	65															
8/31/05	351	53	46	42	43	39	19	20	23	65														
8/31/06	309	43	40	35	32	32	30	15	15	18	49													
8/31/07	377	46	47	43	37	34	35	32	16	16	19	53												
8/31/08	456	61	48	49	45	39	36	37	33	16	17	20	56											
8/31/09	486	72	55	44	44	41	36	33	33	30	15	15	18	50										
8/31/10	587	94	73	56	44	45	41	36	33	34	31	15	16	18	51									
8/31/11	768	190	92	72	55	44	44	41	36	33	33	30	15	15	18	50								
8/31/12	763	164	148	72	56	43	34	35	32	28	25	26	24	12	14	39								
8/31/13	875	201	145	131	64	50	38	30	31	28	25	23	23	21	10	11	12	35						
8/31/14	1,242	267	224	161	146	71	55	42	34	34	31	27	25	25	23	11	12	14	39					
8/31/15	1,395	299	235	198	142	129	63	49	37	30	30	27	24	22	22	20	10	10	12	34				
8/31/16	2,374	793	339	267	224	161	146	71	55	42	34	34	34	31	27	25	23	11	12	14	39			
8/31/17	4,358	2,268	698	298	235	197	142	129	62	49	37	30	30	27	24	22	20	10	10	12	34			
8/31/18	10,581	6,238	2,260	695	297	234	197	142	128	62	49	37	30	27	24	22	20	10	10	12	34			
Total Discounted Payments	26,829	11,238	4,827	2,475	1,720	1,345	1,065	819	634	485	395	337	290	249	214	178	141	113	93	68	61	46	34	34

Exhibit 15A

State Office of Risk Management

**Workers Compensation Program
Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 4.00%
Undiscounted Medical Claim Payments**

Fiscal Year Ending	Liability For Unpaid Claims	Fiscal Year During Which Claims Are Paid																									
		18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40				
8/31/96	0																										
8/31/97	172	172																									
8/31/98	274	109	165																								
8/31/99	448	153	118	178																							
8/31/00	626	174	154	119	179																						
8/31/01	886	221	185	164	126	190																					
8/31/02	1,050	182	216	181	160	123	186																				
8/31/03	1,270	172	191	226	189	168	129	195																			
8/31/04	965	172	107	119	141	118	105	81	122																		
8/31/05	1,106	144	171	107	119	141	118	105	80	121																	
8/31/06	996	121	114	135	85	94	111	93	83	64	96																
8/31/07	1,141	111	125	118	140	88	97	115	96	85	66	99															
8/31/08	1,391	107	125	141	133	158	99	109	130	109	96	74	112														
8/31/09	1,406	115	99	116	131	123	146	92	101	120	101	89	69	104													
8/31/10	1,689	97	130	112	131	148	139	166	104	115	136	114	101	78	118												
8/31/11	1,792	145	95	127	110	128	144	136	161	101	112	133	111	99	76	115											
8/31/12	1,653	103	125	82	110	95	110	125	118	140	87	97	115	96	85	66	99										
8/31/13	1,887	144	108	132	87	116	100	116	132	124	147	92	102	121	101	90	69	105									
8/31/14	2,097	218	143	108	132	86	115	99	116	131	124	147	92	102	121	101	90	69	104								
8/31/15	2,472	331	222	146	110	135	88	118	102	118	134	126	150	94	104	123	103	91	70	106							
8/31/16	3,481	748	366	246	162	122	149	97	130	112	131	148	139	166	104	115	136	114	101	78	117						
8/31/17	5,001	1,747	700	342	230	151	114	139	91	122	105	122	138	130	155	97	107	127	107	95	73	110					
8/31/18	12,982	7,661	1,859	744	364	244	161	121	148	97	129	112	130	147	139	165	103	114	136	113	101	77	117				
Total Undiscounted Payments	44,785	13,147	5,519	3,643	2,837	2,427	2,113	1,907	1,713	1,559	1,464	1,353	1,259	1,136	1,002	871	708	620	518	392	291	187	117				
Discount Factor:		0.9806	0.9429	0.9066	0.8717	0.8382	0.8060	0.7750	0.7452	0.7165	0.6889	0.6624	0.6370	0.6125	0.5889	0.5663	0.5445	0.5235	0.5034	0.4840	0.4654	0.4475	0.4303				
Payout Pattern:																											
Marginal Percent	44.98%	32.47%	7.88%	3.15%	1.54%	1.04%	0.68%	0.51%	0.63%	0.41%	0.55%	0.47%	0.55%	0.62%	0.59%	0.70%	0.44%	0.48%	0.57%	0.48%	0.43%	0.33%	0.50%				
Cumulative Percent	44.98%	77.45%	85.33%	88.48%	90.02%	91.06%	91.74%	92.26%	92.88%	93.29%	93.84%	94.31%	94.87%	95.49%	96.08%	96.78%	97.21%	97.70%	98.27%	98.75%	99.18%	99.50%	100%				

Exhibit 15A

State Office of Risk Management

*Workers Compensation Program
Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 4.00%
Discounted Medical Claim Payments*

Fiscal Year Ending	Discounted Unpaid Claims	Fiscal Year During Which Claims Are Paid																						
		18 / 19	19 / 20	20 / 21	21 / 22	22 / 23	23 / 24	24 / 25	25 / 26	26 / 27	27 / 28	28 / 29	29 / 30	30 / 31	31 / 32	32 / 33	33 / 34	34 / 35	35 / 36	36 / 37	37 / 38	38 / 39	39 / 40	
8/31/96	0																							
8/31/97	168																							
8/31/98	263	107	156																					
8/31/99	422	150	111	161																				
8/31/00	580	170	145	108	156																			
8/31/01	809	217	174	149	110	160																		
8/31/02	940	179	204	164	140	103	150																	
8/31/03	1,114	169	180	205	165	141	104	151																
8/31/04	837	168	101	108	123	99	84	63	91															
8/31/05	944	141	161	97	103	118	95	81	60	87														
8/31/06	837	119	108	123	74	79	90	72	62	46	66													
8/31/07	941	109	118	107	122	73	78	89	72	61	45	66												
8/31/08	1,123	105	117	128	116	132	80	85	97	78	66	49	71											
8/31/09	1,115	113	94	105	114	103	118	71	76	86	69	59	44	64										
8/31/10	1,309	96	123	102	114	124	112	128	77	82	94	76	64	48	69									
8/31/11	1,370	142	90	115	95	107	116	105	120	72	77	88	71	60	45	65								
8/31/12	1,240	101	118	74	96	79	89	97	88	100	60	64	73	59	50	37	54							
8/31/13	1,398	141	102	120	76	97	81	90	98	89	101	61	65	74	60	51	38	55						
8/31/14	1,553	214	135	98	115	72	93	77	86	94	85	97	59	62	71	57	49	36	52					
8/31/15	1,849	324	210	133	96	113	71	91	76	85	92	84	95	57	61	70	56	48	35	51				
8/31/16	2,699	734	345	223	141	102	120	75	97	80	90	98	89	101	61	65	74	60	51	38	55			
8/31/17	4,139	1,714	660	310	200	127	92	108	68	87	72	81	88	80	91	55	58	67	54	46	34	49		
8/31/18	11,747	7,513	1,753	675	317	205	130	94	110	69	89	74	83	90	82	93	56	60	68	55	47	35	50	
Total Discounted Payments	37,397	12,892	5,204	3,303	2,473	2,035	1,703	1,478	1,277	1,117	1,009	897	802	696	590	493	385	325	261	190	135	84	50	

Exhibit 15B

State Office of Risk Management

*Workers Compensation Program
Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 4.00%
Undiscounted Indemnity and Medical Payments Combined*

Fiscal Year Ending	Liability For Unpaid Claims	Fiscal Year During Which Claims Are Paid																					
		18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40
8/31/96	0																						
8/31/97	287	287																					
8/31/98	436	152	284																				
8/31/99	653	189	162	303																			
8/31/00	911	217	200	172	321																		
8/31/01	1,184	285	214	198	169	317																	
8/31/02	1,409	250	279	210	194	166	311																
8/31/03	1,624	225	248	277	208	192	165	308															
8/31/04	1,337	227	154	169	189	142	131	113	211														
8/31/05	1,565	207	231	157	172	192	145	133	114	214													
8/31/06	1,409	173	164	182	124	136	152	114	105	90	169												
8/31/07	1,671	165	185	175	195	132	145	162	122	113	96	181											
8/31/08	2,029	174	183	205	194	216	147	161	180	136	125	107	200										
8/31/09	2,091	194	162	171	192	181	202	137	151	168	127	117	100	187									
8/31/10	2,513	216	213	178	188	211	199	222	151	165	185	139	128	110	206								
8/31/11	2,839	337	215	212	178	188	210	199	221	150	165	184	139	128	109	205							
8/31/12	2,663	274	284	181	179	149	158	177	167	186	126	139	155	117	108	92	173						
8/31/13	3,019	362	273	283	181	178	149	157	176	167	186	126	138	155	116	107	92	172					
8/31/14	3,688	490	384	289	300	191	189	158	167	187	177	197	133	147	164	123	114	97	182				
8/31/15	4,247	642	479	375	283	293	187	185	154	163	183	173	192	130	143	160	120	111	95	178			
8/31/16	6,374	1,556	728	544	426	321	332	212	209	175	185	207	196	218	148	162	182	137	126	108	202		
8/31/17	9,972	4,062	1,442	675	504	395	297	308	197	194	162	172	192	182	202	137	151	169	127	117	100	188	
8/31/18	24,531	14,033	4,276	1,519	711	531	415	313	324	207	204	171	181	202	191	213	144	159	177	133	123	105	197
Total Undiscounted Payments	76,451	24,716	10,761	6,476	4,907	4,132	3,534	3,060	2,650	2,315	2,090	1,911	1,755	1,575	1,388	1,200	975	844	708	537	425	293	197
Discount Factor:		0.9806	0.9429	0.9066	0.8717	0.8382	0.8060	0.7750	0.7452	0.7165	0.6889	0.6624	0.6370	0.6125	0.5889	0.5663	0.5445	0.5235	0.5034	0.4840	0.4654	0.4475	0.4303
Payout Pattern:																							
Marginal Percent		37.64%	35.67%	10.87%	3.86%	1.81%	1.35%	1.06%	0.80%	0.82%	0.53%	0.52%	0.43%	0.46%	0.51%	0.49%	0.54%	0.40%	0.45%	0.34%	0.31%	0.27%	0.50%
Cumulative Percent		37.64%	73.31%	84.18%	88.04%	89.85%	91.20%	92.26%	93.05%	93.88%	94.40%	94.92%	95.36%	95.82%	96.33%	96.82%	97.36%	97.72%	98.13%	98.58%	98.92%	99.23%	100%

Exhibit 15B

State Office of Risk Management

*Workers Compensation Program
Determination of Value of Unpaid Claims as of 8/31/18 Discounted @ 4.00%
Discounted Indemnity and Medical Payments Combined*

Fiscal Year Ending	Discounted Unpaid Claims	Fiscal Year During Which Claims Are Paid																						
		18 / 19	19 / 20	20 / 21	21 / 22	22 / 23	23 / 24	24 / 25	25 / 26	26 / 27	27 / 28	28 / 29	29 / 30	30 / 31	31 / 32	32 / 33	33 / 34	34 / 35	35 / 36	36 / 37	37 / 38	38 / 39	39 / 40	
8/31/96	0																							
8/31/97	281	281																						
8/31/98	417	149	268																					
8/31/99	612	185	153	275																				
8/31/00	838	213	189	156	280																			
8/31/01	1,074	280	202	179	148	266																		
8/31/02	1,257	245	263	190	169	139	250																	
8/31/03	1,420	221	234	251	182	161	133	239																
8/31/04	1,156	223	145	153	165	119	106	87	157															
8/31/05	1,332	203	218	142	150	161	117	103	85	153														
8/31/06	1,181	170	154	165	108	114	122	88	78	65	116													
8/31/07	1,376	162	175	159	170	111	117	126	91	81	66	120												
8/31/08	1,639	170	173	186	169	181	118	125	134	97	86	71	128											
8/31/09	1,664	190	153	155	167	152	163	106	112	121	87	77	64	115										
8/31/10	1,969	212	201	162	164	177	161	172	112	119	128	92	82	67	121									
8/31/11	2,216	330	203	192	155	157	169	154	165	107	113	122	88	78	64	116								
8/31/12	2,062	268	267	164	156	125	127	137	125	133	87	92	99	71	63	52	94							
8/31/13	2,333	355	257	256	157	149	120	122	131	119	128	83	88	95	69	61	50	90						
8/31/14	2,857	481	362	262	261	160	152	122	124	134	122	130	85	90	97	70	62	51	92					
8/31/15	3,315	629	452	340	246	245	151	143	115	117	126	114	122	80	84	91	66	58	48	86				
8/31/16	5,141	1,525	687	493	371	269	268	164	156	125	127	137	125	134	87	92	99	72	63	52	94			
8/31/17	8,566	3,983	1,360	612	440	331	240	239	147	139	112	114	122	111	119	78	82	88	64	57	47	84		
8/31/18	22,432	13,760	4,032	1,377	620	445	335	243	242	148	141	113	115	124	113	121	79	83	89	65	57	47	85	
Total Discounted Payments	65,137	24,236	10,147	5,871	4,278	3,464	2,849	2,371	1,975	1,659	1,440	1,266	1,118	965	817	680	531	442	356	260	198	131	85	

Exhibit 16
State Office of Risk Management

Calculation of Average Severity and Trend at August 31, 2018

<i>Fiscal Year Ending</i>	<i>Ultimate Incurred Claims</i>	<i># of Claims</i>	<i>Full Time Equivalent</i>	<i>Frequency per FTE</i>	<i>Annual Avg Size</i>	<i>Annual Period Ending</i>	<i>Avg Size</i>	<i>x</i>	<i>ln(Size)</i>	<i>x²</i>	<i>xy</i>	<i>exp(y')</i>
<i>Indemnity Claims</i>												
8/75	186	274			678							
8/76	2,430	4,347			559							
8/77	3,665	5,261			697							
8/78	4,750	6,409			741							
8/79	5,028	6,490			775							
8/80	5,360	6,480			827							
8/81	5,855	6,330			925	8/94	2,359	1	7.7658	1	7.7658	2,715
8/82	7,498	6,270			1,196	8/95	2,348	2	7.7613	4	15.5225	2,689
8/83	7,762	6,205			1,251	8/96	2,203	3	7.6978	9	23.0934	2,663
8/84	11,838	6,642			1,782	8/97	2,598	4	7.8625	16	31.4501	2,638
8/85	13,266	7,185			1,846	8/98	2,787	5	7.9327	25	39.6634	2,613
8/86	17,191	7,137			2,409	8/99	2,954	6	7.9911	36	47.9463	2,588
8/87	18,003	6,826			2,637	8/00	3,346	7	8.1156	49	56.8095	2,564
8/88	22,459	7,419			3,027	8/01	3,034	8	8.0176	64	64.1411	2,539
8/89	27,653	8,015			3,450	8/02	2,837	9	7.9506	81	71.5555	2,515
8/90	32,736	7,998	137,020	0.0584	4,093	8/03	2,938	10	7.9855	100	79.8555	2,491
8/91	24,424	8,658	143,831	0.0602	2,821	8/04	2,413	11	7.7887	121	85.6756	2,468
8/92	22,261	9,182	150,508	0.0610	2,424	8/05	2,439	12	7.7994	144	93.5923	2,444
8/93	21,302	9,192	158,687	0.0579	2,317	8/06	2,088	13	7.6439	169	99.3706	2,421
8/94	23,876	10,123	164,529	0.0615	2,359	8/07	2,267	14	7.7261	196	108.1650	2,398
8/95	24,305	10,352	174,288	0.0594	2,348	8/08	2,370	15	7.7706	225	116.5595	2,375
8/96	20,990	9,526	175,336	0.0543	2,203	8/09	2,215	16	7.7030	256	123.2476	2,353
8/97	22,551	8,680	180,397	0.0481	2,598	8/10	2,323	17	7.7505	289	131.7583	2,330
8/98	23,279	8,353	180,055	0.0464	2,787	8/11	2,319	18	7.7491	324	139.4831	2,308
8/99	24,504	8,294	179,328	0.0463	2,954	8/12	2,005	19	7.6034	361	144.4655	2,286
8/00	27,932	8,347	178,757	0.0467	3,346	8/13	1,872	20	7.5345	400	150.6904	2,265
8/01	24,745	8,156	177,522	0.0459	3,034	8/14	2,216	21	7.7037	441	161.7770	2,243
8/02	24,256	8,549	174,016	0.0491	2,837	8/15	2,071	22	7.6356	484	167.9823	2,222
8/03	22,089	7,518	178,167	0.0422	2,938	8/16	2,472	23	7.8128	529	179.6935	2,201
8/04	17,392	7,207	174,122	0.0414	2,413	8/17	2,213	24	7.7019	576	184.8452	2,180
8/05	18,103	7,422	164,495	0.0451	2,439	8/18	2,428	25	7.7950	625	194.8741	2,159
8/06	14,250	6,825	165,728	0.0412	2,088			325	194.7985	5525	2519.9830	
8/07	15,867	7,000	169,818	0.0412	2,267							
8/08	17,327	7,311	170,953	0.0428	2,370	8/16		23				2,201
8/09	16,308	7,363	178,436	0.0413	2,215	8/17		24				2,180
8/10	17,448	7,512	183,750	0.0409	2,323	8/18		25				2,159
8/11	17,736	7,647	183,115	0.0418	2,319							
8/12	14,375	7,169	182,834	0.0392	2,005	a=	7.9159		b=	-0.0095		
8/13	13,140	7,021	179,251	0.0392	1,872				Trend:	-0.95%		
8/14	15,291	6,899	182,372	0.0378	2,216				Geo Mean	0.12%		
8/15	14,109	6,814	181,175	0.0376	2,071							
8/16	16,639	6,731	183,413	0.0367	2,472							
8/17	15,213	6,876	183,593	0.0375	2,213							
8/18	15,556	6,406	179,997	0.0356	2,428							
	730,951											

Exhibit 16
State Office of Risk Management

Calculation of Average Severity and Trend at August 31, 2018

<i>Fiscal Year Ending</i>	<i>Ultimate Incurred Claims</i>	<i># of Claims</i>	<i>Full Time Equivalent</i>	<i>Frequency per FTE</i>	<i>Annual Avg Size</i>	<i>Annual Period Ending</i>	<i>Avg Size</i>	<i>x</i>	<i>ln(Size)</i>	<i>x²</i>	<i>xy</i>	<i>exp(y')</i>
<i>Medical Claims</i>												
8/75	188	274			687							
8/76	1,130	4,347			260							
8/77	2,010	5,261			382							
8/78	3,105	6,409			484							
8/79	4,051	6,490			624							
8/80	4,749	6,480			733							
8/81	4,318	6,330			682							
8/82	5,005	6,270			798	8/94	3,085	1	8.0344	1	8.0344	3,874
8/83	6,417	6,205			1,034	8/95	3,017	2	8.0121	4	16.0242	3,835
8/84	9,940	6,642			1,497	8/96	3,485	3	8.1562	9	24.4685	3,797
8/85	9,920	7,185			1,381	8/97	4,003	4	8.2948	16	33.1791	3,759
8/86	12,170	7,137			1,705	8/98	4,002	5	8.2946	25	41.4731	3,721
8/87	14,870	6,826			2,178	8/99	4,316	6	8.3702	36	50.2210	3,684
8/88	25,628	7,419			3,454	8/00	4,329	7	8.3731	49	58.6114	3,648
8/89	23,728	8,015			2,960	8/01	4,708	8	8.4570	64	67.6561	3,611
8/90	26,811	7,998	137,020	0.0584	3,352	8/02	4,393	9	8.3877	81	75.4893	3,575
8/91	28,106	8,658	143,831	0.0602	3,246	8/03	5,286	10	8.5729	100	85.7289	3,539
8/92	31,514	9,182	150,508	0.0610	3,432	8/04	3,404	11	8.1326	121	89.4582	3,504
8/93	28,827	9,192	158,687	0.0579	3,136	8/05	3,295	12	8.1000	144	97.2006	3,469
8/94	31,233	10,123	164,529	0.0615	3,085	8/06	2,833	13	7.9492	169	103.3398	3,435
8/95	31,235	10,352	174,288	0.0594	3,017	8/07	2,861	14	7.9588	196	111.4234	3,400
8/96	33,197	9,526	175,336	0.0543	3,485	8/08	3,080	15	8.0327	225	120.4905	3,366
8/97	34,746	8,680	180,397	0.0481	4,003	8/09	2,832	16	7.9488	256	127.1806	3,333
8/98	33,431	8,353	180,055	0.0464	4,002	8/10	3,144	17	8.0531	289	136.9030	3,300
8/99	35,800	8,294	179,328	0.0463	4,316	8/11	3,005	18	8.0082	324	144.1469	3,267
8/00	36,133	8,347	178,757	0.0467	4,329	8/12	2,778	19	7.9294	361	150.6591	3,234
8/01	38,398	8,156	177,522	0.0459	4,708	8/13	2,981	20	8.0001	400	160.0028	3,202
8/02	37,553	8,549	174,016	0.0491	4,393	8/14	3,018	21	8.0124	441	168.2606	3,170
8/03	39,743	7,518	178,167	0.0422	5,286	8/15	3,116	22	8.0442	484	176.9734	3,138
8/04	24,529	7,207	174,122	0.0414	3,404	8/16	3,531	23	8.1693	529	187.8935	3,107
8/05	24,453	7,422	164,495	0.0451	3,295	8/17	3,133	24	8.0496	576	193.1904	3,076
8/06	19,338	6,825	165,728	0.0412	2,833	8/18	3,640	25	8.1997	625	204.9917	3,045
8/07	20,025	7,000	169,818	0.0412	2,861			325	203.5411	5525	2633.0006	
8/08	22,518	7,311	170,953	0.0428	3,080							
8/09	20,853	7,363	178,436	0.0413	2,832	8/16		23				3,107
8/10	23,615	7,512	183,750	0.0409	3,144	8/17		24				3,076
8/11	22,982	7,647	183,115	0.0418	3,005	8/18		25				3,045
8/12	19,914	7,169	182,834	0.0392	2,778							
8/13	20,932	7,021	179,251	0.0392	2,981	a=	8.2720		b=	-0.0100		
8/14	20,822	6,899	182,372	0.0378	3,018				Trend:	-1.00%		
8/15	21,231	6,814	181,175	0.0376	3,116				Geo Mean	0.69%		
8/16	23,766	6,731	183,413	0.0367	3,531							
8/17	21,539	6,876	183,593	0.0375	3,133							
8/18	23,316	6,406	179,997	0.0356	3,640							
	923,790											

Exhibit 16
State Office of Risk Management

Calculation of Average Severity and Trend at August 31, 2018

<i>Fiscal Year Ending</i>	<i>Ultimate Incurred Claims</i>	<i># of Claims</i>	<i>Full Time Equivalent</i>	<i>Frequency per FTE</i>	<i>Annual Avg Size</i>	<i>Annual Period Ending</i>	<i>Avg Size</i>	<i>x</i>	<i>ln(Size)</i>	<i>x²</i>	<i>xy</i>	<i>exp(y')</i>
<i>Indemnity and Medical Claims Combined</i>												
8/75	374	274			1,365							
8/76	3,560	4,347			819							
8/77	5,676	5,261			1,079							
8/78	7,855	6,409			1,226							
8/79	9,079	6,490			1,399							
8/80	10,109	6,480			1,560							
8/81	10,173	6,330			1,607							
8/82	12,503	6,270			1,994							
8/83	14,179	6,205			2,285	8/94	5,444	1	8.6023	1	8.6023	6,593
8/84	21,778	6,642			3,279	8/95	5,365	2	8.5877	4	17.1754	6,530
8/85	23,186	7,185			3,227	8/96	5,688	3	8.6462	9	25.9385	6,466
8/86	29,362	7,137			4,114	8/97	6,601	4	8.7950	16	35.1800	6,404
8/87	32,873	6,826			4,816	8/98	6,790	5	8.8231	25	44.1157	6,342
8/88	48,087	7,419			6,482	8/99	7,271	6	8.8917	36	53.3501	6,281
8/89	51,382	8,015			6,411	8/00	7,678	7	8.9461	49	62.6224	6,220
8/90	59,547	7,998	137,020	0.0584	7,445	8/01	7,742	8	8.9544	64	71.6350	6,160
8/91	52,530	8,658	143,831	0.0602	6,067	8/02	7,230	9	8.8860	81	79.9739	6,100
8/92	53,775	9,182	150,508	0.0610	5,857	8/03	8,220	10	9.0144	100	90.1437	6,041
8/93	50,129	9,192	158,687	0.0579	5,454	8/04	5,820	11	8.6690	121	95.3592	5,983
8/94	55,110	10,123	164,529	0.0615	5,444	8/05	5,739	12	8.6551	144	103.8610	5,925
8/95	55,540	10,352	174,288	0.0594	5,365	8/06	4,927	13	8.5025	169	110.5324	5,868
8/96	54,187	9,526	175,336	0.0543	5,688	8/07	5,137	14	8.5442	196	119.6193	5,811
8/97	57,298	8,680	180,397	0.0481	6,601	8/08	5,460	15	8.6052	225	129.0774	5,755
8/98	56,713	8,353	180,055	0.0464	6,790	8/09	5,058	16	8.5286	256	136.4582	5,699
8/99	60,308	8,294	179,328	0.0463	7,271	8/10	5,478	17	8.6085	289	146.3437	5,644
8/00	64,084	8,347	178,757	0.0467	7,678	8/11	5,338	18	8.5825	324	154.4857	5,590
8/01	63,141	8,156	177,522	0.0459	7,742	8/12	4,793	19	8.4749	361	161.0240	5,536
8/02	61,809	8,549	174,016	0.0491	7,230	8/13	4,862	20	8.4893	400	169.7856	5,482
8/03	61,801	7,518	178,167	0.0422	8,220	8/14	5,247	21	8.5654	441	179.8726	5,429
8/04	41,943	7,207	174,122	0.0414	5,820	8/15	5,199	22	8.5563	484	188.2377	5,377
8/05	42,597	7,422	164,495	0.0451	5,739	8/16	6,017	23	8.7023	529	200.1533	5,325
8/06	33,627	6,825	165,728	0.0412	4,927	8/17	5,359	24	8.5865	576	206.0765	5,273
8/07	35,959	7,000	169,818	0.0412	5,137	8/18	6,089	25	8.7142	625	217.8560	5,222
8/08	39,916	7,311	170,953	0.0428	5,460			325	216.9313	5525	2807.4796	
8/09	37,239	7,363	178,436	0.0413	5,058							
8/10	41,149	7,512	183,750	0.0409	5,478	8/16		23				5,325
8/11	40,817	7,647	183,115	0.0418	5,338	8/17		24				5,273
8/12	34,362	7,169	182,834	0.0392	4,793	8/18		25				5,222
8/13	34,139	7,021	179,251	0.0392	4,862							
8/14	36,197	6,899	182,372	0.0378	5,247	a=	8.8035		b=	-0.0097		
8/15	35,427	6,814	181,175	0.0376	5,199				Trend:	-0.97%		
8/16	40,499	6,731	183,413	0.0367	6,017				Geo Mean	0.47%		
8/17	36,848	6,876	183,593	0.0375	5,359							
8/18	39,006	6,406	179,997	0.0356	6,089							
	1,616,868											

Exhibit 17
State Office of Risk Management

Workers Compensation Insurance Fund

*Cumulative Paid Indemnity Claims
Estimate of Amounts Reportable After 8/31/18*

Claim Year Ending	Period to Period Ratios																						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
8/75	1.000					1.023	1.057	1.069	1.020	1.007	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
8/76	1.000				1.058	1.037	1.032	1.020	1.016	1.011	1.014	1.021	1.006	1.005	1.005	1.005	1.004	1.003	1.002	1.002	1.002	1.002	1.000
8/77	1.000			1.146	1.046	1.032	1.035	1.017	1.010	1.005	1.006	1.005	1.005	1.009	1.005	1.005	1.005	1.005	1.004	1.004	1.004	1.003	1.028
8/78	1.000			1.106	1.073	1.043	1.030	1.020	1.007	1.003	1.003	1.003	1.004	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.002	1.002	1.029
8/79	1.000	3.056	1.322	1.129	1.059	1.132	1.033	1.020	1.007	1.002	1.002	1.001	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
8/80	1.000	2.890	1.388	1.131	1.067	1.043	1.033	1.017	1.023	1.015	1.003	1.002	1.003	1.002	1.005	1.002	1.001	1.000	1.000	1.000	1.000	1.000	
8/81	1.000	2.832	1.373	1.157	1.049	1.038	1.021	1.023	1.016	1.010	1.008	1.006	1.005	1.004	1.005	1.004	1.004	1.007	1.005	1.005	1.004	1.020	
8/82	1.000	2.694	1.423	1.181	1.161	1.038	1.029	1.020	1.010	1.007	1.005	1.004	1.003	1.004	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.020	
8/83	1.000	2.823	1.383	1.218	1.080	1.054	1.034	1.028	1.007	1.004	1.004	1.003	1.002	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.032	
8/84	1.000	3.121	1.504	1.193	1.085	1.046	1.027	1.028	1.017	1.004	1.004	1.003	1.002	1.003	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.008	
8/85	1.000	3.372	1.446	1.233	1.106	1.037	1.038	1.016	1.007	1.002	1.001	1.002	1.002	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	
8/86	1.000	2.884	1.544	1.167	1.106	1.071	1.048	1.035	1.007	1.006	1.002	1.004	1.002	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.023	
8/87	1.000	3.686	1.442	1.178	1.093	1.046	1.027	1.026	1.015	1.004	1.003	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
8/88	1.000	3.311	1.512	1.218	1.095	1.055	1.031	1.010	1.003	1.004	1.002	1.003	1.002	1.002	1.001	1.002	1.001	1.002	1.002	1.002	1.002	1.000	
8/89	1.000	3.138	1.518	1.173	1.061	1.054	1.021	1.015	1.005	1.002	1.003	1.001	1.006	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.006	
8/90	1.000	3.631	1.488	1.156	1.105	1.035	1.017	1.011	1.003	1.003	1.003	1.001	1.003	1.001	1.002	1.005	1.001	1.001	1.001	1.001	1.001	1.008	
8/91	1.000	2.588	1.350	1.118	1.067	1.037	1.025	1.021	1.008	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.001	1.001	1.005	
8/92	1.000	2.482	1.320	1.095	1.059	1.037	1.026	1.020	1.007	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.015	
8/93	1.000	2.457	1.294	1.106	1.056	1.050	1.032	1.026	1.009	1.006	1.002	1.002	1.003	1.003	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.004	
8/94	1.000	2.622	1.297	1.095	1.052	1.034	1.027	1.023	1.008	1.007	1.002	1.002	1.003	1.002	1.002	1.002	1.001	1.002	1.002	1.002	1.002	1.003	
8/95	1.000	2.477	1.283	1.106	1.050	1.037	1.029	1.026	1.009	1.004	1.005	1.004	1.004	1.004	1.004	1.004	1.003	1.003	1.003	1.003	1.002	1.004	
8/96	1.000	2.443	1.292	1.108	1.054	1.039	1.030	1.028	1.006	1.004	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
8/97	1.000	2.819	1.379	1.123	1.062	1.051	1.045	1.037	1.013	1.005	1.005	1.005	1.006	1.005	1.006	1.006	1.002	1.002	1.002	1.002	1.002	1.000	
8/98	1.000	2.808	1.346	1.109	1.056	1.045	1.033	1.022	1.006	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.003	
8/99	1.000	2.974	1.350	1.107	1.055	1.035	1.029	1.019	1.005	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.001	1.001	1.001	
8/00	1.000	2.918	1.347	1.114	1.047	1.036	1.024	1.015	1.007	1.007	1.014	1.008	1.009	1.007	1.008	1.008	1.008	1.008	1.007	1.007	1.007	1.006	
8/01	1.000	2.756	1.321	1.080	1.038	1.025	1.020	1.011	1.003	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	
8/02	1.000	2.654	1.274	1.065	1.022	1.015	1.007	1.006	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	
8/03	1.000	2.515	1.267	1.069	1.025	1.021	1.022	1.014	1.007	1.004	1.004	1.004	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	
8/04	1.000	2.628	1.199	1.043	1.018	1.010	1.009	1.009	1.011	1.005	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	
8/05	1.000	2.500	1.215	1.043	1.026	1.019	1.017	1.015	1.007	1.005	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	
8/06	1.000	2.251	1.201	1.043	1.017	1.012	1.010	1.008	1.007	1.007	1.014	1.008	1.009	1.007	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	
8/07	1.000	2.344	1.245	1.045	1.020	1.018	1.013	1.011	1.007	1.007	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	
8/08	1.000	2.362	1.199	1.063	1.022	1.017	1.012	1.011	1.008	1.008	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	
8/09	1.000	2.324	1.192	1.047	1.024	1.018	1.018	1.013	1.006	1.005	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	
8/10	1.000	2.272	1.178	1.055	1.027	1.021	1.014	1.013	1.006	1.005	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	
8/11	1.000	2.264	1.175	1.062	1.028	1.032	1.027	1.019	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	
8/12	1.000	2.343	1.191	1.060	1.027	1.018	1.019																
8/13	1.000	2.397	1.254	1.054	1.017	1.012																	
8/14	1.000	2.480	1.239	1.054	1.025																		
8/15	1.000	2.659	1.267	1.068																			
8/16	1.000	2.554	1.229																				
8/17	1.000	2.578																					
8/18	1.000																						

Exhibit 17 State Office of Risk Management

Workers Compensation Insurance Fund

Cumulative Paid Indemnity Claims Estimate of Amounts Reportable After 8/31/18

Method	Age to Age Development Factors																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
Aggregate	1.000	2.662	1.316	1.107	1.053	1.035	1.024	1.018	1.008	1.004	1.004	1.003	1.003	1.002	1.003	1.002	1.002	1.002	1.002	1.001	1.001	1.001	1.001	1.008
Average	1.000	2.716	1.322	1.111	1.055	1.036	1.026	1.019	1.009	1.005	1.004	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.001	1.001	1.001	1.001	1.011
Truncated	1.000	2.702	1.320	1.109	1.053	1.035	1.026	1.018	1.009	1.005	1.004	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.001	1.001	1.001	1.001	1.011
Inverted	1.000	2.673	1.314	1.108	1.054	1.036	1.026	1.019	1.009	1.005	1.004	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.001	1.001	1.001	1.001	1.011
Trunc Last 8	1.000	2.437	1.214	1.058	1.024	1.017	1.015	1.012	1.008	1.005	1.004	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.005
Last 8	1.000	2.443	1.216	1.058	1.024	1.019	1.016	1.012	1.011	1.006	1.004	1.004	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.006
Last 7	1.000	2.468	1.219	1.057	1.024	1.019	1.016	1.013	1.011	1.007	1.004	1.004	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.001	1.002	1.002	1.002	1.005
Trunc Last 6	1.000	2.502	1.229	1.058	1.026	1.019	1.016	1.012	1.007	1.006	1.005	1.004	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.001	1.002	1.002	1.002	1.004
Last 6	1.000	2.502	1.226	1.059	1.025	1.020	1.017	1.012	1.012	1.007	1.005	1.004	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.001	1.001	1.001	1.002	1.005
Last 5	1.000	2.534	1.236	1.060	1.025	1.020	1.018	1.013	1.013	1.008	1.005	1.004	1.003	1.002	1.003	1.003	1.003	1.003	1.003	1.001	1.001	1.001	1.002	1.005
Last 4	1.000	2.568	1.248	1.059	1.024	1.021	1.019	1.014	1.014	1.008	1.005	1.005	1.004	1.003	1.002	1.003	1.003	1.004	1.003	1.001	1.001	1.001	1.002	1.003
Last 3	1.000	2.597	1.245	1.059	1.023	1.021	1.020	1.015	1.016	1.009	1.005	1.005	1.004	1.004	1.002	1.001	1.003	1.004	1.004	1.002	1.001	1.001	1.001	1.003
Last 2	1.000	2.566	1.248	1.061	1.021	1.015	1.023	1.016	1.020	1.010	1.005	1.005	1.004	1.004	1.004	1.002	1.001	1.005	1.004	1.001	1.002	1.001	1.001	1.002
Wtd Avg	1.000	2.578	1.243	1.062	1.023	1.017	1.020	1.016	1.021	1.008	1.005	1.005	1.004	1.004	1.003	1.002	1.001	1.003	1.005	1.001	1.001	1.001	1.001	1.002
Geometric	1.000	2.694	1.318	1.109	1.054	1.036	1.026	1.019	1.009	1.005	1.004	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.001	1.001	1.001	1.001	1.011
NCCI Factors ⁽¹⁾	1.000	2.229	1.246	1.077	1.035	1.024	1.020	1.016	1.011	1.010	1.008	1.006	1.006	1.005	1.010	1.010	1.010	1.010	1.011	1.011	1.011	1.011	1.011	1.000
Prior Study	1.000	2.450	1.218	1.055	1.024	1.021	1.016	1.012	1.008	1.007	1.004	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.002	1.001	1.002	1.001	1.001	1.005
Factors Selected	1.000	2.502	1.226	1.059	1.025	1.020	1.017	1.012	1.012	1.006	1.005	1.004	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.001	1.001	1.001	1.001	1.005

Age to Ultimate Development Factors

NCCI Factors ⁽¹⁾	3.736	1.676	1.345	1.249	1.207	1.179	1.156	1.138	1.126	1.115	1.106	1.099	1.092	1.087	1.076	1.065	1.054	1.044	1.033	1.022	1.011	1.001	1.000
Prior Study	3.555	1.451	1.192	1.129	1.103	1.080	1.064	1.051	1.043	1.036	1.032	1.029	1.025	1.022	1.020	1.017	1.014	1.011	1.010	1.010	1.008	1.006	1.005
Factors Selected	3.695	1.477	1.204	1.137	1.110	1.088	1.070	1.057	1.045	1.039	1.034	1.030	1.027	1.024	1.021	1.018	1.015	1.012	1.010	1.008	1.007	1.005	1.005

Percentage Paid

NCCI Factors ⁽¹⁾	26.77%	59.67%	74.35%	80.06%	82.85%	84.82%	86.51%	87.87%	88.81%	89.69%	90.42%	90.99%	91.58%	92.00%	92.93%	93.87%	94.84%	95.83%	96.84%	97.87%	98.9%	100%	100%
Factors Selected	27.07%	67.72%	83.03%	87.93%	90.11%	91.89%	93.45%	94.62%	95.72%	96.27%	96.72%	97.08%	97.38%	97.69%	97.99%	98.26%	98.52%	98.79%	99.05%	99.18%	99.32%	99.49%	99.49%

(1) From National Council on Compensation Insurance (NCCI) Annual Statistical Bulletin 2018 Edition

Exhibit 17 State Office of Risk Management

Workers Compensation Insurance Fund

*Cumulative Paid Indemnity Claims
Estimate of Amounts Reportable After 8/31/18*

Claim Year Ending	Paid to Ultimate Ratios																						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
8/75					1.187	1.160	1.098	1.027	1.007	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000
8/76				1.305	1.233	1.189	1.152	1.129	1.111	1.099	1.084	1.062	1.056	1.051	1.046	1.041	1.037	1.034	1.032	1.031	1.029	1.028	1.000
8/77		1.442	1.259	1.203	1.166	1.127	1.108	1.097	1.092	1.085	1.080	1.074	1.065	1.065	1.060	1.055	1.050	1.045	1.041	1.036	1.033	1.029	1.000
8/78	1.827	1.413	1.278	1.191	1.142	1.109	1.088	1.080	1.076	1.072	1.069	1.065	1.061	1.058	1.054	1.051	1.047	1.045	1.043	1.039	1.038	1.000	1.000
8/79	6.065	1.985	1.501	1.330	1.255	1.109	1.074	1.053	1.046	1.044	1.042	1.040	1.040	1.040	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039
8/80	5.747	1.988	1.433	1.267	1.187	1.138	1.102	1.083	1.059	1.044	1.040	1.038	1.035	1.033	1.027	1.026	1.025	1.025	1.025	1.025	1.025	1.025	1.025
8/81	5.736	2.026	1.475	1.275	1.216	1.171	1.148	1.122	1.104	1.094	1.085	1.079	1.074	1.069	1.064	1.059	1.055	1.048	1.043	1.038	1.034	1.031	1.011
8/82	6.281	2.331	1.638	1.387	1.195	1.152	1.119	1.097	1.086	1.078	1.073	1.069	1.065	1.061	1.058	1.054	1.051	1.048	1.046	1.043	1.041	1.039	1.018
8/83	6.158	2.181	1.577	1.295	1.199	1.138	1.101	1.082	1.074	1.070	1.063	1.060	1.057	1.054	1.051	1.048	1.045	1.042	1.040	1.037	1.034	1.032	1.000
8/84	7.066	2.264	1.506	1.262	1.164	1.112	1.083	1.053	1.035	1.032	1.028	1.025	1.023	1.020	1.019	1.017	1.016	1.014	1.013	1.012	1.011	1.011	1.002
8/85	7.405	2.196	1.519	1.232	1.114	1.074	1.035	1.018	1.011	1.009	1.008	1.006	1.003	1.002	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000
8/86	7.099	2.462	1.594	1.367	1.236	1.154	1.101	1.064	1.057	1.051	1.049	1.045	1.043	1.040	1.038	1.035	1.033	1.031	1.029	1.027	1.025	1.023	1.000
8/87	7.513	2.038	1.413	1.200	1.098	1.050	1.022	1.007	1.003	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
8/88	7.601	2.296	1.518	1.246	1.138	1.079	1.047	1.036	1.033	1.029	1.026	1.024	1.021	1.019	1.018	1.016	1.014	1.013	1.011	1.011	1.010	1.008	1.000
8/89	6.687	2.131	1.404	1.197	1.128	1.070	1.049	1.033	1.029	1.026	1.024	1.023	1.021	1.019	1.016	1.015	1.010	1.009	1.008	1.007	1.007	1.006	1.000
8/90	7.607	2.095	1.408	1.218	1.103	1.066	1.048	1.037	1.034	1.031	1.027	1.026	1.023	1.022	1.020	1.015	1.014	1.012	1.011	1.010	1.009	1.008	1.000
8/91	4.689	1.812	1.343	1.201	1.126	1.085	1.058	1.037	1.028	1.026	1.023	1.021	1.019	1.017	1.015	1.013	1.011	1.010	1.008	1.007	1.006	1.005	1.000
8/92	4.372	1.762	1.335	1.219	1.150	1.109	1.081	1.060	1.052	1.049	1.046	1.043	1.040	1.037	1.035	1.032	1.029	1.026	1.023	1.020	1.017	1.015	1.000
8/93	4.333	1.764	1.363	1.232	1.166	1.111	1.077	1.050	1.040	1.034	1.032	1.029	1.026	1.023	1.020	1.017	1.014	1.011	1.009	1.007	1.006	1.004	1.000
8/94	4.442	1.694	1.306	1.192	1.134	1.096	1.067	1.043	1.034	1.027	1.024	1.022	1.019	1.017	1.014	1.013	1.011	1.009	1.008	1.006	1.005	1.003	1.000
8/95	4.271	1.724	1.343	1.214	1.156	1.115	1.083	1.055	1.046	1.042	1.037	1.033	1.029	1.025	1.021	1.018	1.015	1.012	1.009	1.007	1.005	1.004	1.000
8/96	4.103	1.680	1.300	1.173	1.113	1.071	1.040	1.012	1.006	1.002	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
8/97	5.640	2.001	1.451	1.292	1.216	1.157	1.108	1.068	1.055	1.050	1.045	1.040	1.034	1.029	1.022	1.020	1.017	1.015	1.013	1.010	1.008	1.005	1.000
8/98	5.074	1.807	1.342	1.211	1.147	1.097	1.062	1.040	1.034	1.030	1.028	1.026	1.024	1.021	1.019	1.017	1.015	1.011	1.009	1.008	1.007	1.006	1.000
8/99	5.270	1.772	1.313	1.185	1.124	1.085	1.055	1.035	1.030	1.028	1.026	1.023	1.021	1.019	1.017	1.015	1.013	1.011	1.009	1.008	1.007	1.006	1.000
8/00	5.459	1.871	1.389	1.246	1.190	1.149	1.122	1.105	1.097	1.090	1.076	1.067	1.057	1.050	1.042	1.033	1.025	1.017	1.010	1.008	1.007	1.006	1.000
8/01	4.430	1.607	1.217	1.127	1.085	1.059	1.038	1.027	1.024	1.022	1.020	1.019	1.018	1.017	1.016	1.015	1.013	1.012	1.010	1.009	1.008	1.005	1.000
8/02	3.840	1.447	1.136	1.066	1.044	1.029	1.022	1.016	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.000
8/03	3.876	1.541	1.216	1.138	1.110	1.088	1.065	1.049	1.043	1.038	1.034	1.030	1.027	1.024	1.021	1.018	1.015	1.012	1.009	1.007	1.005	1.004	1.000
8/04	3.643	1.386	1.156	1.109	1.089	1.078	1.068	1.059	1.048	1.043	1.038	1.034	1.029	1.025	1.021	1.018	1.015	1.012	1.009	1.008	1.007	1.006	1.000
8/05	3.596	1.438	1.184	1.135	1.106	1.085	1.067	1.052	1.044	1.039	1.035	1.031	1.027	1.024	1.021	1.018	1.015	1.012	1.009	1.008	1.006	1.005	1.000
8/06	3.132	1.391	1.159	1.111	1.093	1.080	1.069	1.060	1.053	1.046	1.040	1.033	1.027	1.024	1.021	1.018	1.015	1.012	1.009	1.007	1.005	1.004	1.000
8/07	3.411	1.455	1.169	1.119	1.097	1.078	1.064	1.052	1.044	1.037	1.034	1.030	1.027	1.024	1.021	1.018	1.015	1.012	1.009	1.007	1.005	1.004	1.000
8/08	3.405	1.441	1.202	1.132	1.107	1.089	1.076	1.064	1.056	1.044	1.037	1.034	1.030	1.027	1.024	1.021	1.018	1.015	1.012	1.009	1.007	1.006	1.000
8/09	3.272	1.408	1.181	1.129	1.102	1.082	1.063	1.050	1.043	1.039	1.034	1.030	1.027	1.024	1.021	1.018	1.015	1.012	1.009	1.007	1.006	1.005	1.000
8/10	3.283	1.445	1.226	1.162	1.132	1.108	1.093	1.080	1.074	1.064	1.056	1.044	1.037	1.034	1.030	1.027	1.024	1.021	1.018	1.015	1.014	1.011	1.000
8/11	3.318	1.466	1.247	1.174	1.141	1.106	1.077	1.056	1.044	1.037	1.034	1.030	1.027	1.024	1.021	1.018	1.015	1.012	1.009	1.008	1.007	1.006	1.000
8/12	3.368	1.438	1.207	1.139	1.109	1.090	1.070	1.056	1.044	1.037	1.034	1.030	1.027	1.024	1.021	1.018	1.015	1.012	1.009	1.008	1.007	1.006	1.000
8/13	3.553	1.482	1.182	1.121	1.102	1.088	1.068	1.052	1.044	1.037	1.034	1.030	1.027	1.024	1.021	1.018	1.015	1.012	1.009	1.008	1.007	1.006	1.000
8/14	3.683	1.485	1.198	1.137	1.109	1.093	1.073	1.056	1.044	1.037	1.034	1.030	1.027	1.024	1.021	1.018	1.015	1.012	1.009	1.008	1.007	1.006	1.000
8/15	4.091	1.538	1.214	1.136	1.102	1.088	1.068	1.052	1.044	1.037	1.034	1.030	1.027	1.024	1.021	1.018	1.015	1.012	1.009	1.008	1.007	1.006	1.000
8/16	3.774	1.478	1.202	1.137	1.109	1.093	1.073	1.056	1.044	1.037	1.034	1.030	1.027	1.024	1.021	1.018	1.015	1.012	1.009	1.008	1.007	1.006	1.000
8/17	3.794	1.472	1.202	1.137	1.109	1.093	1.073	1.056	1.044	1.037	1.034	1.030	1.027	1.024	1.021	1.018	1.015	1.012	1.009	1.008	1.007	1.006	1.000
8/18	3.756	1.468	1.202	1.137	1.109	1.093	1.073	1.056	1.044	1.037	1.034	1.030	1.027	1.024	1.021	1.018	1.015	1.012	1.009	1.008	1.007	1.006	1.000
Mean	3.539	1.458	1.192	1.129	1.108	1.086	1.067	1.054	1.042	1.037	1.032	1.029	1.026	1.023	1.020	1.017	1.014	1.011	1.011	1.009	1.008	1.008	1.001
Std Dev	0.257	0.0452	0.0294	0.02433	0.03148	0.0255	0.02233	0.02145	0.02098	0.01942	0.01638	0.01417	0.01259	0.010984	0.009239	0.00769	0.006462	0.006207	0.007362	0.007146	0.006573	0.008895	0.00476

Exhibit 17
State Office of Risk Management

Workers Compensation Insurance Fund

*Cumulative Paid Indemnity Claims
Estimate of Amounts Reportable After 8/31/18*

<i>t</i> _{0.9}	8/18	8/17	8/16	8/15	8/14	8/13	8/12	8/11	8/10	8/09	8/08	8/07	8/06	8/05	8/04	8/03	8/02	8/01	8/00	8/99	8/98	8/97
<i>ConfInt</i> ₂	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450
<i>LDF</i> (90% <i>CI</i>)	0.3452	0.0608	0.0395	0.0327	0.0423	0.0343	0.0300	0.0289	0.0282	0.0261	0.0220	0.0191	0.0169	0.0148	0.0124	0.0103	0.0087	0.0083	0.0099	0.0096	0.0088	0.0120
<i>Ult Incurred</i> (90% <i>CI</i>)	3.8838	1.5184	1.2314	1.1615	1.1501	1.1205	1.0974	1.0831	1.0706	1.0634	1.0543	1.0478	1.0432	1.0376	1.0322	1.0279	1.0231	1.0199	1.0204	1.0182	1.0165	1.0201
<i>Delta</i>	4.142	10.338	13.840	12.421	13.784	12.074	13.437	16.788	16.711	15.701	16.761	15.404	13.877	17.685	17.042	21.705	23.896	24.445	27.667	24.302	23.121	22.438
<i>Ult Incurred</i> (50% <i>CI</i>)	16.085	15.698	17.044	14.427	15.853	13.529	14.747	18.184	17.891	16.698	17.672	16.142	14.476	18.350	17.591	22.297	24.449	24.924	28.232	24.746	23.502	22.890
<i>Delta</i>	15.556	15.213	16.639	14.109	15.291	13.140	14.375	17.736	17.448	16.308	17.327	15.867	14.250	18.103	17.392	22.089	24.256	24.745	27.932	24.504	23.279	22.551
<i>Delta</i>	529	484	405	319	561	389	372	448	443	389	345	275	227	247	200	208	193	179	299	242	224	338
<i>t</i> _{0.75}	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924
<i>ConfInt</i> ₂	0.1777	0.0313	0.0204	0.0168	0.0218	0.0177	0.0155	0.0149	0.0145	0.0134	0.0113	0.0098	0.0087	0.0076	0.0064	0.0053	0.0045	0.0043	0.0051	0.0049	0.0046	0.0062
<i>LDF</i> (75% <i>CI</i>)	3.71631	1.4892	1.21231	1.14568	1.12956	1.10386	1.08288	1.06916	1.05694	1.05081	1.04369	1.03862	1.034984	1.03045	1.02622	1.02271	1.018931	1.015541	1.015617	1.013576	1.012211	1.014352
<i>Ult Incurred</i> (75% <i>CI</i>)	4.142	10.338	13.840	12.421	13.784	12.074	13.437	16.788	16.711	15.701	16.761	15.404	13.877	17.685	17.042	21.705	23.896	24.445	27.667	24.302	23.121	22.438
<i>Ult Incurred</i> (50% <i>CI</i>)	15.391	15.393	16.778	14.230	15.569	13.328	14.551	17.949	17.662	16.499	17.493	15.999	14.362	18.223	17.489	22.188	24.348	24.825	28.099	24.632	23.403	22.760
<i>Delta</i>	15.556	15.213	16.639	14.109	15.291	13.140	14.375	17.736	17.448	16.308	17.327	15.867	14.250	18.103	17.392	22.089	24.256	24.745	27.932	24.504	23.279	22.551
<i>Delta</i>	0	179	140	122	278	188	177	213	214	190	166	132	113	121	97	99	92	80	166	128	124	208
<i>t</i> _{0.6}	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582
<i>ConfInt</i> ₂	0.0663	0.0117	0.0076	0.0063	0.0081	0.0066	0.0058	0.0055	0.0054	0.0050	0.0042	0.0037	0.0033	0.0028	0.0024	0.0020	0.0017	0.0016	0.0019	0.0018	0.0017	0.0023
<i>LDF</i> (60% <i>CI</i>)	3.60487	1.4693	1.19954	1.13512	1.11589	1.09279	1.07319	1.05984	1.04783	1.04238	1.03658	1.03247	1.029513	1.025681	1.02221	1.018932	1.016125	1.012846	1.01242	1.010473	1.009357	1.010489
<i>Ult Incurred</i> (60% <i>CI</i>)	4.142	10.338	13.840	12.421	13.784	12.074	13.437	16.788	16.711	15.701	16.761	15.404	13.877	17.685	17.042	21.705	23.896	24.445	27.667	24.302	23.121	22.438
<i>Ult Incurred</i> (50% <i>CI</i>)	14.930	15.190	16.602	14.099	15.381	13.195	14.421	17.793	17.510	16.366	17.374	15.904	14.286	18.139	17.420	22.116	24.281	24.759	28.010	24.557	23.337	22.673
<i>Delta</i>	15.556	15.213	16.639	14.109	15.291	13.140	14.375	17.736	17.448	16.308	17.327	15.867	14.250	18.103	17.392	22.089	24.256	24.745	27.932	24.504	23.279	22.551
<i>Delta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>t</i> _{0.5}	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<i>ConfInt</i> ₂	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<i>LDF</i> (50% <i>CI</i>)	3.5386	1.45762	1.19195	1.12884	1.10776	1.0862	1.06742	1.0543	1.04241	1.03737	1.03235	1.02881	1.02626	1.022844	1.019825	1.016946	1.014456	1.011243	1.010519	1.008627	1.00766	1.008193
<i>Ult Incurred</i> (50% <i>CI</i>)	4.142	10.338	13.840	12.421	13.784	12.074	13.437	16.788	16.711	15.701	16.761	15.404	13.877	17.685	17.042	21.705	23.896	24.445	27.667	24.302	23.121	22.438
<i>Ult Incurred</i> (50% <i>CI</i>)	14.655	15.069	16.497	14.021	15.269	13.115	14.343	17.700	17.420	16.288	17.303	15.848	14.241	18.089	17.380	22.072	24.241	24.720	27.958	24.512	23.298	22.621
<i>Delta</i>	15.556	15.213	16.639	14.109	15.291	13.140	14.375	17.736	17.448	16.308	17.327	15.867	14.250	18.103	17.392	22.089	24.256	24.745	27.932	24.504	23.279	22.551
<i>Delta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*Values from Student's t Distribution for 50%, 60%, 75% and 90% Confidence

Exhibit 18
State Office of Risk Management

Workers Compensation Insurance Fund

*Cumulative Paid Medical Claims
Estimate of Amounts Reportable After 8/31/18*

Claim Year Ending	12 Month Lag Periods																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
8/75					47	80	79	83	90	96	116	133	136	147	147	147	148	151	152	152	152	152	153	188
8/76				840	906	929	939	953	968	986	990	1,005	1,009	1,013	1,072	1,093	1,097	1,102	1,106	1,112	1,112	1,116	1,123	1,130
8/77		1,523	2,226	2,417	2,552	1,711	1,744	1,802	1,854	1,871	1,888	1,900	1,904	1,908	1,922	1,944	1,957	1,976	1,993	1,997	1,999	2,002	2,010	
8/78		2,053	2,403	2,695	2,849	2,935	2,989	3,061	3,138	3,195	3,218	3,240	3,248	3,256	3,288	3,304	3,318	3,332	3,364	3,406	3,027	3,033	3,045	3,105
8/79	1,034	1,211	2,595	3,000	3,216	3,383	3,467	3,544	3,650	3,846	3,910	3,986	4,103	4,130	4,173	4,239	4,293	4,370	4,413	4,476	4,495	4,509	4,650	
8/80	1,342	2,754	3,249	3,504	3,640	3,801	3,874	3,931	3,970	3,997	4,069	4,081	4,085	4,089	4,094	4,100	4,105	4,130	4,158	4,171	4,180	4,201	4,280	
8/81	1,715	3,273	3,844	4,251	4,485	4,593	4,689	4,732	4,773	4,821	4,862	4,876	4,887	4,899	4,903	4,907	4,908	4,911	4,915	4,919	4,921	4,922	4,929	
8/82	1,834	3,712	4,264	4,707	4,960	5,348	5,546	5,686	5,772	5,834	5,909	5,963	6,004	6,034	6,064	6,102	6,147	6,179	6,207	6,262	6,288	6,315	6,417	
8/84	2,682	5,720	6,711	7,383	7,831	8,146	8,361	8,567	8,768	8,879	9,002	9,038	9,103	9,169	9,244	9,338	9,408	9,475	9,510	9,552	9,576	9,598	9,921	
8/85	2,508	5,684	6,910	7,778	8,154	8,473	8,728	9,004	9,213	9,308	9,381	9,449	9,493	9,547	9,589	9,646	9,708	9,746	9,776	9,801	9,811	9,817	9,920	
8/86	2,995	6,711	8,640	9,489	10,077	10,466	10,804	10,990	11,175	11,311	11,366	11,422	11,571	11,659	11,738	11,795	11,919	11,942	11,968	12,006	12,006	12,025	12,170	
8/87	2,780	8,314	9,972	11,042	11,804	12,244	12,565	12,837	13,047	13,252	13,521	13,668	13,792	13,863	13,926	13,994	14,065	14,113	14,143	14,188	14,266	14,299	14,870	
8/88	4,424	10,321	13,126	15,135	16,247	16,916	17,491	17,888	18,240	18,695	19,065	19,486	19,873	20,280	20,683	21,119	21,464	21,834	22,215	22,553	22,977	23,203	25,628	
8/89	5,037	12,494	16,141	17,808	19,074	19,999	20,613	21,062	21,431	22,060	22,262	22,439	22,572	22,692	22,846	22,951	23,022	23,104	23,190	23,234	23,306	23,414	23,728	
8/90	6,012	15,031	18,529	20,560	21,863	22,827	23,391	23,872	24,193	24,566	24,875	25,144	25,333	25,431	25,616	25,717	25,837	25,948	26,238	26,395	26,543	26,588	26,811	
8/91	7,131	15,966	19,263	21,000	22,249	23,243	23,956	24,500	24,961	25,679	26,252	26,712	26,893	27,093	27,276	27,426	27,544	27,647	27,717	27,830	27,910	27,974	28,106	
8/92	7,481	15,918	19,425	21,201	22,569	23,681	24,659	25,451	26,365	27,221	27,809	28,250	28,658	29,212	29,569	29,860	30,151	30,401	30,641	30,903	31,044	31,169	31,514	
8/93	7,520	14,886	17,755	19,400	20,754	21,843	22,785	24,048	25,123	25,863	26,374	26,821	27,085	27,281	27,452	27,728	27,933	28,127	28,270	28,490	28,571	28,618	28,827	
8/94	7,469	15,413	18,941	21,103	22,562	24,004	25,518	26,806	27,714	28,455	28,901	29,352	29,716	30,041	30,356	30,570	30,745	30,872	30,996	31,090	31,139	31,179	31,233	
8/95	8,145	16,478	19,830	22,081	23,532	25,301	26,643	28,014	28,678	29,225	29,618	29,961	30,342	30,563	30,711	30,835	30,952	31,025	31,080	31,144	31,174	31,198	31,235	
8/96	8,034	16,642	20,335	22,569	24,538	26,195	27,502	28,405	29,063	29,717	30,276	30,675	31,093	31,347	31,755	31,999	32,242	32,459	32,732	32,832	32,946	33,068	33,197	
8/97	7,813	16,311	20,198	22,840	24,586	25,932	27,175	28,096	28,743	29,251	29,797	30,374	30,981	31,531	32,056	32,470	32,888	33,283	33,652	33,984	34,286	34,574		
8/98	7,628	16,573	21,316	24,071	25,872	26,899	27,794	28,462	28,989	29,562	30,065	30,454	30,838	31,465	31,748	31,922	32,136	32,321	32,563	32,889	33,157			
8/99	7,971	20,282	25,483	28,109	29,946	30,927	31,653	32,164	32,557	33,155	33,715	34,002	34,397	34,596	34,786	34,988	35,110	35,169	35,306	35,507				
8/00	10,408	22,569	27,377	29,893	31,058	31,927	32,635	33,168	33,649	34,084	34,389	34,638	34,930	35,015	35,106	35,281	35,356	35,415	35,507					
8/01	10,006	22,254	28,440	30,660	32,130	33,159	34,113	34,855	35,636	36,066	36,418	36,701	36,998	37,169	37,295	37,379	37,436	37,512						
8/02	11,085	26,259	30,718	33,014	34,015	34,695	35,255	35,532	35,734	36,007	36,150	36,273	36,367	36,438	36,474	36,491	36,504							
8/03	9,911	20,236	24,117	25,835	27,537	29,280	30,734	31,767	32,752	33,712	34,488	35,080	35,699	36,682	37,550	38,473								
8/04	8,309	16,123	19,003	20,422	21,617	22,099	22,461	22,681	22,910	23,115	23,176	23,216	23,309	23,347										
8/06	7,455	13,638	15,810	16,976	17,470	17,697	17,863	18,087	18,233	18,269	18,304	18,322	18,341											
8/07	8,271	14,891	16,935	17,786	18,147	18,423	18,545	18,618	18,720	18,768	18,805	18,884												
8/08	9,087	16,359	18,149	18,713	19,132	19,225	19,341	19,385	19,417	19,447														
8/09	9,881	17,542	19,339	20,519	21,024	21,444	21,665	21,817	21,925															
8/10	11,071	18,340	20,048	20,735	21,046	21,114	21,155	21,190																
8/11	8,836	15,628	17,029	17,590	17,801	18,123	18,262																	
8/12	9,929	16,077	17,885	18,591	18,929	19,045																		
8/13	8,894	16,456	18,071	18,497	18,725																			
8/14	9,966	16,723	18,203	18,759																				
8/15	10,393	17,974	20,285																					
8/16	9,808	16,538																						
8/17																								
8/18																								

Exhibit 18
State Office of Risk Management

Workers Compensation Insurance Fund

*Cumulative Paid Medical Claims
Estimate of Amounts Reportable After 8/31/18*

Claim Year Ending	Period to Period Ratios																						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
8/75	1.000					1.709	0.988	1.049	1.081	1.068	1.214	1.144	1.019	1.085	1.001	1.000	1.002	1.025	1.001	1.001	1.004	1.001	1.234
8/76	1.000				1.078	1.025	1.011	1.015	1.016	1.018	1.005	1.015	1.004	1.004	1.058	1.020	1.003	1.005	1.003	1.006	1.003	1.007	1.006
8/77	1.000		1.069		1.051	1.019	1.033	1.029	1.009	1.007	1.002	1.006	1.002	1.002	1.007	1.011	1.006	1.010	1.008	1.002	1.001	1.001	1.004
8/78	1.000		1.135		1.056	1.042	1.048	1.017	1.008	1.004	1.003	1.003	1.006	1.005	1.010	1.009	1.005	1.005	1.003	1.006	1.002	1.004	1.020
8/79	1.000		1.170	1.122	1.057	1.030	1.019	1.024	1.025	1.018	1.007	1.007	1.002	1.002	1.010	1.005	1.004	1.004	1.010	1.012	1.012	1.023	1.084
8/80	1.000		1.156	1.072	1.052	1.025	1.022	1.030	1.054	1.016	1.020	1.016	1.013	1.007	1.010	1.016	1.013	1.018	1.010	1.014	1.004	1.003	1.031
8/81	1.000		1.180	1.078	1.039	1.044	1.019	1.015	1.010	1.007	1.018	1.003	1.001	1.001	1.001	1.001	1.001	1.006	1.007	1.003	1.002	1.005	1.019
8/82	1.000		1.174	1.106	1.055	1.024	1.021	1.009	1.009	1.010	1.008	1.003	1.002	1.002	1.001	1.001	1.000	1.000	1.001	1.001	1.000	1.000	1.001
8/83	1.000		1.149	1.104	1.054	1.078	1.037	1.025	1.015	1.011	1.013	1.009	1.007	1.005	1.005	1.006	1.007	1.005	1.005	1.009	1.004	1.004	1.016
8/84	1.000		2.133	1.175	1.099	1.061	1.040	1.026	1.023	1.013	1.009	1.008	1.007	1.007	1.008	1.010	1.007	1.007	1.004	1.004	1.002	1.002	1.034
8/85	1.000		2.266	1.126	1.048	1.039	1.030	1.032	1.023	1.010	1.008	1.007	1.005	1.006	1.004	1.006	1.006	1.004	1.003	1.003	1.001	1.001	1.010
8/86	1.000		2.241	1.288	1.098	1.062	1.032	1.017	1.017	1.006	1.006	1.005	1.005	1.013	1.008	1.007	1.005	1.010	1.002	1.002	1.003	1.002	1.040
8/87	1.000		2.990	1.199	1.107	1.069	1.037	1.026	1.022	1.016	1.020	1.011	1.009	1.005	1.005	1.005	1.005	1.003	1.002	1.003	1.005	1.002	1.040
8/88	1.000		2.333	1.272	1.153	1.073	1.041	1.034	1.023	1.020	1.025	1.022	1.020	1.020	1.020	1.021	1.016	1.017	1.017	1.015	1.019	1.010	1.105
8/89	1.000		2.480	1.292	1.103	1.071	1.048	1.031	1.022	1.018	1.029	1.008	1.006	1.005	1.007	1.005	1.003	1.004	1.004	1.002	1.003	1.005	1.013
8/90	1.000		2.500	1.233	1.110	1.063	1.044	1.025	1.021	1.013	1.015	1.013	1.011	1.008	1.004	1.004	1.005	1.004	1.011	1.006	1.002	1.002	1.008
8/91	1.000		2.239	1.206	1.090	1.059	1.045	1.031	1.023	1.019	1.029	1.022	1.018	1.007	1.007	1.005	1.004	1.004	1.003	1.004	1.003	1.002	1.005
8/92	1.000		2.128	1.220	1.091	1.065	1.049	1.041	1.032	1.036	1.032	1.022	1.016	1.014	1.012	1.010	1.010	1.008	1.008	1.009	1.005	1.004	1.011
8/93	1.000		1.980	1.193	1.093	1.070	1.052	1.043	1.055	1.045	1.029	1.020	1.017	1.010	1.007	1.006	1.007	1.007	1.005	1.008	1.003	1.002	1.007
8/94	1.000		2.064	1.229	1.114	1.069	1.064	1.063	1.050	1.034	1.027	1.016	1.016	1.012	1.011	1.010	1.007	1.006	1.004	1.003	1.002	1.001	1.002
8/95	1.000		2.023	1.203	1.114	1.066	1.075	1.051	1.024	1.019	1.013	1.012	1.013	1.007	1.005	1.004	1.004	1.004	1.004	1.002	1.001	1.001	1.001
8/96	1.000		2.072	1.222	1.110	1.087	1.068	1.050	1.033	1.024	1.019	1.013	1.014	1.008	1.013	1.008	1.008	1.007	1.008	1.003	1.002	1.001	1.004
8/97	1.000		2.088	1.238	1.131	1.076	1.055	1.048	1.034	1.023	1.018	1.019	1.020	1.018	1.017	1.013	1.013	1.012	1.011	1.010	1.009	1.008	1.008
8/98	1.000		2.173	1.286	1.129	1.075	1.040	1.033	1.024	1.019	1.020	1.017	1.013	1.020	1.009	1.005	1.007	1.006	1.007	1.003	1.003	1.004	1.004
8/99	1.000		2.544	1.256	1.103	1.065	1.033	1.023	1.016	1.012	1.018	1.017	1.009	1.012	1.006	1.005	1.006	1.002	1.002	1.002	1.001	1.001	1.008
8/00	1.000		2.168	1.213	1.092	1.039	1.028	1.022	1.016	1.014	1.013	1.009	1.007	1.008	1.002	1.003	1.002	1.002	1.003	1.002	1.001	1.001	1.004
8/01	1.000		2.224	1.278	1.078	1.048	1.032	1.029	1.022	1.022	1.012	1.010	1.008	1.008	1.005	1.003	1.002	1.002	1.003	1.002	1.001	1.001	1.007
8/02	1.000		2.369	1.170	1.075	1.030	1.020	1.016	1.008	1.006	1.008	1.004	1.008	1.008	1.005	1.003	1.002	1.002	1.003	1.002	1.001	1.001	1.004
8/03	1.000		2.042	1.192	1.071	1.066	1.063	1.034	1.031	1.029	1.023	1.017	1.013	1.007	1.005	1.003	1.002	1.002	1.002	1.002	1.001	1.001	1.004
8/04	1.000		2.278	1.120	1.051	1.037	1.028	1.013	1.011	1.008	1.003	1.003	1.003	1.002	1.001	1.001	1.000	1.000	1.001	1.001	1.001	1.001	1.004
8/05	1.000		1.940	1.179	1.075	1.059	1.022	1.016	1.010	1.009	1.003	1.002	1.004	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.004
8/06	1.000		1.829	1.159	1.074	1.029	1.013	1.009	1.007	1.007	1.009	1.007	1.007	1.006	1.005	1.006	1.003	1.002	1.002	1.001	1.001	1.001	1.004
8/07	1.000		1.800	1.137	1.050	1.020	1.015	1.007	1.009	1.002	1.002	1.001	1.008	1.008	1.005	1.002	1.002	1.002	1.002	1.001	1.001	1.001	1.004
8/08	1.000		1.810	1.114	1.041	1.024	1.017	1.012	1.006	1.010	1.003	1.002	1.004	1.008	1.005	1.003	1.002	1.002	1.002	1.001	1.001	1.001	1.004
8/09	1.000		1.800	1.109	1.031	1.022	1.005	1.006	1.002	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.004
8/10	1.000		1.775	1.102	1.061	1.025	1.020	1.010	1.007	1.005	1.002	1.002	1.004	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.004
8/11	1.000		1.657	1.093	1.034	1.015	1.003	1.002	1.002	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.004
8/12	1.000		1.769	1.090	1.033	1.012	1.018	1.008	1.008	1.008	1.003	1.003	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.004
8/13	1.000		1.619	1.112	1.039	1.018	1.008	1.008	1.008	1.008	1.003	1.002	1.004	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.004
8/14	1.000		1.850	1.098	1.024	1.012	1.006	1.002	1.002	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.004
8/15	1.000		1.678	1.088	1.031	1.012	1.008	1.002	1.002	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.004
8/16	1.000		1.729	1.129																			1.008
8/17	1.000		1.686																				1.008
8/18	1.000																						1.008

Exhibit 18
State Office of Risk Management

Workers Compensation Insurance Fund

Cumulative Paid Medical Claims

Estimate of Amounts Reportable After 8/31/18

Method	Age to Age Development Factors																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
Aggregate	1.000	2.018	1.184	1.082	1.050	1.036	1.028	1.022	1.018	1.017	1.013	1.011	1.010	1.009	1.008	1.008	1.006	1.006	1.006	1.006	1.006	1.005	1.004	1.017
Average	1.000	2.061	1.181	1.084	1.051	1.053	1.026	1.022	1.020	1.016	1.018	1.014	1.009	1.010	1.009	1.008	1.006	1.007	1.006	1.006	1.006	1.004	1.004	1.030
Truncated	1.000	2.048	1.181	1.084	1.051	1.036	1.026	1.022	1.019	1.015	1.012	1.010	1.008	1.008	1.008	1.008	1.005	1.006	1.006	1.005	1.004	1.003	1.022	
Inverted	1.000	2.025	1.179	1.083	1.050	1.046	1.026	1.022	1.020	1.016	1.017	1.013	1.009	1.010	1.009	1.008	1.006	1.007	1.006	1.006	1.004	1.004	1.028	
Trunc Last 8	1.000	1.716	1.101	1.035	1.019	1.012	1.009	1.007	1.008	1.005	1.004	1.005	1.006	1.006	1.006	1.007	1.004	1.004	1.005	1.006	1.004	1.004	1.006	
Last 8	1.000	1.720	1.103	1.037	1.019	1.012	1.009	1.007	1.010	1.008	1.006	1.006	1.007	1.008	1.008	1.008	1.005	1.005	1.006	1.006	1.004	1.003	1.006	
Last 7	1.000	1.713	1.102	1.036	1.018	1.012	1.008	1.006	1.007	1.008	1.006	1.005	1.006	1.006	1.007	1.008	1.005	1.005	1.006	1.006	1.004	1.003	1.005	
Trunc Last 6	1.000	1.716	1.098	1.034	1.017	1.011	1.008	1.005	1.007	1.004	1.003	1.003	1.004	1.003	1.003	1.005	1.003	1.004	1.004	1.006	1.004	1.003	1.004	
Last 6	1.000	1.722	1.102	1.037	1.017	1.012	1.007	1.006	1.007	1.004	1.006	1.005	1.006	1.007	1.006	1.007	1.005	1.005	1.006	1.006	1.005	1.004	1.005	
Last 5	1.000	1.713	1.103	1.032	1.016	1.010	1.008	1.004	1.006	1.004	1.002	1.005	1.005	1.007	1.006	1.008	1.003	1.003	1.007	1.005	1.005	1.003	1.005	
Last 4	1.000	1.736	1.107	1.032	1.014	1.012	1.006	1.004	1.006	1.002	1.002	1.002	1.006	1.008	1.007	1.008	1.002	1.003	1.006	1.006	1.005	1.004	1.004	
Last 3	1.000	1.698	1.105	1.031	1.014	1.009	1.007	1.004	1.006	1.003	1.002	1.002	1.002	1.010	1.008	1.009	1.001	1.002	1.005	1.007	1.007	1.004	1.002	
Last 2	1.000	1.708	1.109	1.027	1.015	1.012	1.005	1.004	1.003	1.002	1.002	1.003	1.003	1.001	1.012	1.013	1.001	1.002	1.003	1.006	1.009	1.006	1.003	
Wtd Avg	1.000	1.704	1.112	1.030	1.014	1.010	1.006	1.003	1.005	1.002	1.002	1.003	1.003	1.005	1.008	1.014	1.001	1.002	1.004	1.005	1.008	1.006	1.003	
Geometric	1.000	2.043	1.180	1.083	1.051	1.049	1.026	1.022	1.020	1.016	1.017	1.014	1.009	1.010	1.009	1.008	1.006	1.007	1.006	1.006	1.004	1.004	1.029	
NCCI Factors ⁽¹⁾	1.000	1.741	1.117	1.040	1.024	1.020	1.016	1.014	1.013	1.011	1.010	1.008	1.008	1.008	1.014	1.015	1.015	1.015	1.015	1.016	1.016	1.016	1.000	
Prior Study	1.000	1.717	1.097	1.037	1.019	1.013	1.008	1.007	1.008	1.009	1.006	1.006	1.007	1.007	1.008	1.005	1.006	1.005	1.006	1.006	1.004	1.002	1.005	
Factors Selected	1.000	1.722	1.102	1.037	1.017	1.012	1.007	1.006	1.007	1.004	1.006	1.005	1.006	1.007	1.006	1.007	1.005	1.005	1.006	1.006	1.005	1.004	1.005	
NCCI Factors ⁽¹⁾	2.599	1.493	1.337	1.286	1.286	1.256	1.231	1.212	1.195	1.180	1.167	1.155	1.146	1.137	1.128	1.112	1.096	1.080	1.064	1.048	1.032	1.016	1.000	
Prior Study	2.238	1.304	1.188	1.146	1.124	1.109	1.101	1.093	1.085	1.075	1.068	1.062	1.055	1.047	1.040	1.034	1.028	1.028	1.023	1.017	1.011	1.007	1.005	
Factors Selected	2.223	1.291	1.172	1.130	1.111	1.098	1.090	1.084	1.077	1.072	1.066	1.060	1.054	1.047	1.041	1.033	1.029	1.029	1.024	1.018	1.013	1.008	1.005	
NCCI Factors ⁽¹⁾	38.48%	66.98%	74.79%	77.76%	79.62%	81.23%	82.51%	83.68%	84.75%	85.69%	86.58%	87.26%	87.95%	88.65%	89.93%	91.24%	92.59%	93.98%	95.42%	96.90%	98.4%	99.50%	100%	
Factors Selected	44.98%	77.45%	85.33%	88.48%	90.02%	91.06%	91.74%	92.26%	92.88%	93.29%	93.84%	94.31%	94.87%	95.49%	96.08%	96.78%	97.21%	97.70%	98.27%	98.75%	99.18%	99.50%	100%	

Percentage Paid

(1) From National Council on Compensation Insurance (NCCI) Annual Statistical Bulletin 2018 Edition

Exhibit 18 State Office of Risk Management

Workers Compensation Insurance Fund

*Cumulative Paid Medical Claims
Estimate of Amounts Reportable After 8/31/18*

Claim Year Ending	Paid to Ultimate Ratios																						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
8/75				4.016	2.351	2.378	2.268	2.097	1.964	1.618	1.415	1.388	1.280	1.278	1.275	1.244	1.242	1.241	1.236	1.234	1.000	1.000	1.000
8/76			1.345	1.247	1.217	1.203	1.185	1.167	1.146	1.141	1.124	1.120	1.115	1.054	1.030	1.025	1.022	1.016	1.013	1.006	1.000	1.000	1.000
8/77			1.320	1.234	1.175	1.116	1.084	1.075	1.067	1.065	1.058	1.056	1.054	1.046	1.028	1.017	1.009	1.007	1.005	1.004	1.000	1.000	1.000
8/78	1.584	1.395	1.285	1.216	1.168	1.115	1.097	1.087	1.080	1.077	1.071	1.066	1.055	1.046	1.040	1.035	1.032	1.026	1.024	1.020	1.000	1.000	1.000
8/79	3.92	1.973	1.686	1.503	1.422	1.380	1.355	1.324	1.291	1.268	1.259	1.250	1.247	1.244	1.232	1.226	1.221	1.216	1.204	1.189	1.176	1.149	1.060
8/80	3.921	1.831	1.583	1.477	1.404	1.370	1.340	1.301	1.235	1.215	1.191	1.173	1.158	1.150	1.138	1.120	1.106	1.087	1.076	1.061	1.056	1.053	1.021
8/81	3.218	1.568	1.329	1.232	1.186	1.114	1.098	1.088	1.080	1.061	1.058	1.057	1.056	1.055	1.053	1.052	1.045	1.038	1.035	1.033	1.028	1.009	1.009
8/82	2.918	1.529	1.302	1.177	1.116	1.090	1.067	1.058	1.048	1.038	1.029	1.026	1.024	1.021	1.021	1.020	1.020	1.019	1.018	1.017	1.017	1.017	1.015
8/83	3.499	1.728	1.505	1.363	1.294	1.200	1.157	1.129	1.112	1.100	1.086	1.076	1.069	1.064	1.058	1.052	1.044	1.039	1.034	1.025	1.021	1.016	1.000
8/84	3.706	1.738	1.479	1.346	1.269	1.189	1.189	1.160	1.134	1.119	1.109	1.092	1.092	1.084	1.075	1.064	1.057	1.049	1.045	1.041	1.038	1.036	1.002
8/85	3.956	1.745	1.436	1.275	1.217	1.171	1.137	1.102	1.077	1.066	1.057	1.050	1.045	1.039	1.034	1.028	1.022	1.018	1.015	1.012	1.011	1.010	1.000
8/86	4.064	1.814	1.409	1.283	1.208	1.163	1.126	1.107	1.089	1.083	1.076	1.071	1.066	1.052	1.044	1.037	1.032	1.021	1.019	1.017	1.014	1.012	1.000
8/87	5.348	1.789	1.491	1.347	1.260	1.214	1.183	1.158	1.140	1.122	1.100	1.088	1.078	1.073	1.068	1.063	1.057	1.054	1.051	1.048	1.042	1.040	1.000
8/88	5.793	2.483	1.953	1.693	1.577	1.515	1.465	1.433	1.405	1.371	1.344	1.315	1.290	1.264	1.239	1.213	1.194	1.174	1.154	1.136	1.115	1.105	1.000
8/89	4.711	1.899	1.470	1.332	1.244	1.186	1.151	1.127	1.107	1.076	1.066	1.058	1.054	1.046	1.039	1.034	1.031	1.027	1.023	1.021	1.018	1.013	1.000
8/90	4.460	1.784	1.447	1.304	1.226	1.175	1.146	1.123	1.108	1.091	1.078	1.066	1.058	1.054	1.047	1.043	1.038	1.033	1.022	1.016	1.010	1.008	1.000
8/91	3.942	1.760	1.459	1.338	1.263	1.209	1.173	1.147	1.126	1.094	1.071	1.052	1.045	1.037	1.030	1.025	1.020	1.017	1.014	1.010	1.007	1.005	1.000
8/92	4.212	1.980	1.622	1.486	1.396	1.331	1.278	1.238	1.195	1.158	1.133	1.116	1.100	1.079	1.066	1.055	1.045	1.037	1.028	1.020	1.015	1.011	1.000
8/93	3.834	1.936	1.624	1.486	1.389	1.320	1.265	1.199	1.147	1.115	1.093	1.075	1.064	1.057	1.050	1.040	1.032	1.025	1.020	1.012	1.009	1.007	1.000
8/94	4.182	2.026	1.649	1.480	1.384	1.301	1.224	1.165	1.127	1.098	1.081	1.064	1.051	1.040	1.029	1.022	1.016	1.012	1.008	1.005	1.003	1.002	1.000
8/95	3.835	1.896	1.575	1.415	1.327	1.235	1.172	1.115	1.089	1.069	1.055	1.043	1.029	1.022	1.017	1.013	1.009	1.007	1.005	1.003	1.002	1.001	1.000
8/96	4.132	1.995	1.633	1.471	1.353	1.267	1.207	1.169	1.142	1.117	1.096	1.082	1.068	1.059	1.045	1.037	1.030	1.023	1.014	1.011	1.008	1.004	1.000
8/97	4.447	2.130	1.720	1.521	1.413	1.340	1.279	1.237	1.209	1.188	1.166	1.144	1.122	1.102	1.084	1.070	1.056	1.044	1.032	1.022	1.013	1.005	1.000
8/98	4.383	2.017	1.568	1.389	1.292	1.243	1.203	1.175	1.153	1.131	1.112	1.098	1.084	1.062	1.053	1.047	1.040	1.034	1.027	1.016	1.008	1.005	1.000
8/99	4.491	1.765	1.405	1.274	1.195	1.158	1.131	1.113	1.100	1.080	1.062	1.053	1.041	1.035	1.029	1.023	1.020	1.018	1.014	1.013	1.008	1.002	1.000
8/00	3.472	1.601	1.320	1.209	1.163	1.132	1.107	1.089	1.074	1.060	1.051	1.043	1.034	1.032	1.029	1.024	1.022	1.020	1.018	1.018	1.013	1.001	1.000
8/01	3.838	1.725	1.350	1.252	1.195	1.158	1.126	1.102	1.078	1.065	1.054	1.046	1.038	1.033	1.030	1.027	1.026	1.024	1.022	1.020	1.013	1.004	1.000
8/02	3.388	1.430	1.223	1.138	1.104	1.082	1.065	1.057	1.051	1.043	1.039	1.035	1.033	1.031	1.030	1.029	1.029	1.029	1.029	1.029	1.024	1.004	1.000
8/03	4.010	1.964	1.648	1.538	1.443	1.357	1.293	1.251	1.213	1.179	1.152	1.133	1.113	1.083	1.058	1.033	1.026	1.021	1.018	1.013	1.005	1.001	1.000
8/04	3.145	1.381	1.232	1.172	1.130	1.099	1.085	1.072	1.060	1.051	1.048	1.045	1.043	1.042	1.041	1.041	1.041	1.041	1.041	1.041	1.038	1.001	1.000
8/05	2.943	1.517	1.287	1.197	1.131	1.106	1.089	1.078	1.067	1.058	1.055	1.053	1.049	1.047	1.047	1.047	1.047	1.047	1.047	1.047	1.047	1.047	1.001
8/06	2.594	1.418	1.223	1.139	1.107	1.093	1.083	1.069	1.061	1.058	1.056	1.055	1.054	1.054	1.054	1.054	1.054	1.054	1.054	1.054	1.054	1.054	1.001
8/07	2.421	1.345	1.182	1.126	1.103	1.087	1.080	1.076	1.070	1.067	1.065	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.001
8/08	2.412	1.333	1.196	1.149	1.122	1.103	1.090	1.083	1.072	1.068	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.001
8/09	2.295	1.275	1.149	1.114	1.090	1.085	1.078	1.076	1.074	1.072	1.072	1.072	1.072	1.072	1.072	1.072	1.072	1.072	1.072	1.072	1.072	1.072	1.001
8/10	2.390	1.346	1.221	1.151	1.123	1.101	1.090	1.082	1.077	1.072	1.072	1.072	1.072	1.072	1.072	1.072	1.072	1.072	1.072	1.072	1.072	1.072	1.001
8/11	2.076	1.253	1.146	1.108	1.092	1.088	1.086	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.001
8/12	2.254	1.274	1.169	1.132	1.119	1.099	1.090	1.085	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.001
8/13	2.108	1.302	1.170	1.126	1.106	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.001
8/13	2.341	1.265	1.152	1.126	1.112	1.112	1.112	1.112	1.112	1.112	1.112	1.112	1.112	1.112	1.112	1.112	1.112	1.112	1.112	1.112	1.112	1.112	1.001
8/13	2.287	1.322	1.172	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.001
8/13	2.196	1.302	1.172	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.001
8/18	2.256	1.302	1.172	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.001
Mean	2.590	1.371	1.223	1.173	1.143	1.123	1.113	1.110	1.100	1.087	1.077	1.069	1.062	1.051	1.043	1.035	1.040	1.036	1.030	1.024	1.021	1.018	1.001
Std Dev	0.300	0.17803	0.1239	0.10741	0.08749	0.06906	0.05988	0.06099	0.05335	0.04543	0.0384	0.03287	0.02992	0.02277	0.01767	0.01465	0.04413	0.0399	0.03599	0.03274	0.02852	0.02638	0.00394

**Exhibit 18
State Office of Risk Management**

Workers Compensation Insurance Fund

*Cumulative Paid Medical Claims
Estimate of Amounts Reportable After 8/31/18*

<i>t</i>_{0.9}	8/18	8/17	8/16	8/15	8/14	8/13	8/12	8/11	8/10	8/09	8/08	8/07	8/06	8/05	8/04	8/03	8/02	8/01	8/00	8/99	8/98	8/97
ConfInt/2	1.3450	0.2395	0.1667	0.1445	0.1177	0.0929	0.0805	0.0820	0.0720	0.0611	0.0517	0.0442	0.0402	0.0306	0.0238	0.0197	0.0594	0.0537	0.0484	0.0440	0.0384	0.0355
LDF(90%CI)	2.79352	1.61057	1.38917	1.31785	1.26044	1.21612	1.19362	1.19163	1.17196	1.14819	1.12885	1.11286	1.10178	1.08136	1.06631	1.05454	1.09985	1.09014	1.07834	1.06818	1.05931	1.05384
Paid	10.334	16.538	20.285	18.759	18.725	19.045	18.262	21.190	21.925	19.447	21.127	18.884	18.341	23.347	23.564	38.473	36.504	37.512	35.507	35.352	33.157	34.574
Ult Incurred (90% CI)	28.868	26.636	28.180	24.722	23.602	23.161	21.798	25.250	25.695	22.329	23.849	21.016	20.208	25.246	25.127	40.571	40.148	40.894	38.289	37.763	35.123	36.436
Ult Incurred (50% CI)	23.316	21.539	23.766	21.231	20.822	20.932	19.914	22.982	23.615	20.853	22.518	20.025	19.338	24.453	24.529	39.743	37.553	38.398	36.133	35.800	33.431	34.746
Delta	5.551	5.096	4.414	3.491	2.779	2.229	1.883	2.268	2.081	1.476	1.331	991	871	793	598	828	2,595	2,495	2,156	1,962	1,692	1,690
<i>t</i>_{0.75}	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924
ConfInt/2	0.2078	0.1233	0.0858	0.0744	0.0606	0.0478	0.0415	0.0422	0.0370	0.0315	0.0266	0.0228	0.0207	0.0158	0.0122	0.0101	0.0306	0.0276	0.0249	0.0227	0.0198	0.0183
LDF(75%CI)	2.59768	1.49438	1.30831	1.24775	1.20335	1.17105	1.15454	1.15182	1.13704	1.11854	1.10378	1.09141	1.08226	1.0665	1.05478	1.04497	1.07105	1.0641	1.05485	1.04682	1.04069	1.03663
Paid	10.334	16.538	20.285	18.759	18.725	19.045	18.262	21.190	21.925	19.447	21.127	18.884	18.341	23.347	23.564	38.473	36.504	37.512	35.507	35.352	33.157	34.574
Ult Incurred (75% CI)	26.844	24.714	26.539	23.407	22.533	22.303	21.084	24.407	24.930	21.752	23.320	20.610	19.850	24.899	24.855	40.203	39.097	39.917	37.455	37.007	34.506	35.840
Ult Incurred (50% CI)	23.316	21.539	23.766	21.231	20.822	20.932	19.914	22.982	23.615	20.853	22.518	20.025	19.338	24.453	24.529	39.743	37.553	38.398	36.133	35.800	33.431	34.746
Delta	3.528	3.175	2.773	2.176	1.710	1.371	1.170	1.425	1.315	899	801	586	513	446	326	460	1,544	1,519	1,322	1,207	1,075	1,095
<i>t</i>_{0.6}	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582
ConfInt/2	0.0775	0.0460	0.0320	0.0277	0.0226	0.0178	0.0155	0.0157	0.0138	0.0117	0.0099	0.0085	0.0077	0.0059	0.0046	0.0038	0.0114	0.0103	0.0093	0.0085	0.0074	0.0068
LDF(60%CI)	2.46738	1.41708	1.25451	1.20112	1.16536	1.14106	1.12854	1.12534	1.11381	1.09881	1.08711	1.07714	1.06927	1.05661	1.0471	1.03861	1.05189	1.04677	1.03922	1.0326	1.02831	1.02517
Paid	10.334	16.538	20.285	18.759	18.725	19.045	18.262	21.190	21.925	19.447	21.127	18.884	18.341	23.347	23.564	38.473	36.504	37.512	35.507	35.352	33.157	34.574
Ult Incurred (60% CI)	25.497	23.436	25.448	22.532	21.821	21.732	20.609	23.846	24.421	21.369	22.967	20.341	19.612	24.668	24.674	39.958	38.398	39.267	36.900	36.505	34.095	35.444
Ult Incurred (50% CI)	23.316	21.539	23.766	21.231	20.822	20.932	19.914	22.982	23.615	20.853	22.518	20.025	19.338	24.453	24.529	39.743	37.553	38.398	36.133	35.800	33.431	34.746
Delta	2.181	1.896	1.682	1.301	999	800	695	864	806	516	449	316	274	216	145	215	845	869	767	705	664	699
<i>t</i>_{0.5}	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ConfInt/2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LDF(50%CI)	2.3899	1.37111	1.22252	1.17338	1.14277	1.12323	1.11308	1.10959	1.1	1.08708	1.07719	1.06865	1.06154	1.05073	1.04254	1.03483	1.0405	1.03647	1.02993	1.02415	1.02094	1.01836
Paid	10.334	16.538	20.285	18.759	18.725	19.045	18.262	21.190	21.925	19.447	21.127	18.884	18.341	23.347	23.564	38.473	36.504	37.512	35.507	35.352	33.157	34.574
Ult Incurred (50% CI)	24.697	22.675	24.799	22.012	21.398	21.392	20.327	23.512	24.118	21.141	22.758	20.181	19.470	24.531	24.567	39.813	37.982	38.881	36.570	36.206	33.851	35.209
Ult Incurred (50% CI)	23.316	21.539	23.766	21.231	20.822	20.932	19.914	22.982	23.615	20.853	22.518	20.025	19.338	24.453	24.529	39.743	37.553	38.398	36.133	35.800	33.431	34.746
Delta	1.380	1.136	1.033	781	576	460	412	530	503	288	240	156	133	78	38	70	429	482	437	406	420	463

*Values from Student's t Distribution for 50%, 60%, 75% and 90% Confidence

Exhibit 19
State Office of Risk Management
Workers Compensation Insurance Fund

Cumulative Paid Claims - All Components
Estimate of Amounts Reportable After 8/31/18

Claim Year Ending	12 Month Lag Periods																						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
8/75					203	240	248	264	274	281	302	319	321	333	333	333	333	337	337	337	338	338	374
8/76				2,703	2,877	2,973	3,049	3,105	3,155	3,196	3,231	3,292	3,310	3,325	3,395	3,427	3,439	3,452	3,460	3,469	3,477	3,488	3,560
8/77		4,065	4,541	4,758	4,887	4,887	5,054	5,161	5,211	5,241	5,265	5,295	5,317	5,351	5,381	5,420	5,448	5,484	5,535	5,535	5,549	5,564	5,676
8/78		4,560	5,587	6,135	6,541	6,817	7,067	7,199	7,255	7,282	7,306	7,328	7,362	7,390	7,435	7,476	7,505	7,535	7,557	7,583	7,599	7,620	7,855
8/79	1,863	4,587	5,753	6,477	6,854	7,468	7,671	7,834	7,946	8,011	8,045	8,073	8,081	8,089	8,126	8,142	8,156	8,172	8,204	8,246	8,285	8,365	8,661
8/80	2,144	5,290	6,741	7,447	7,897	8,175	8,406	8,597	8,905	9,044	9,138	9,213	9,281	9,320	9,390	9,464	9,521	9,599	9,643	9,707	9,726	9,740	9,881
8/81	2,363	5,649	7,218	8,096	8,456	8,800	8,977	9,152	9,273	9,351	9,465	9,509	9,538	9,566	9,596	9,627	9,657	9,718	9,774	9,814	9,843	9,880	10,070
8/82	2,909	6,489	8,421	9,657	10,760	11,104	11,391	11,568	11,679	11,777	11,851	11,890	11,926	11,965	11,993	12,018	12,044	12,064	12,084	12,104	12,123	12,140	12,292
8/83	3,094	7,271	9,185	10,702	11,434	12,169	12,596	12,860	12,999	13,090	13,213	13,288	13,346	13,396	13,453	13,511	13,576	13,626	13,674	13,748	13,792	13,838	14,179
8/84	4,357	10,949	14,583	16,764	18,004	18,787	19,293	19,807	20,202	20,354	20,479	20,589	20,674	20,769	20,862	20,974	21,061	21,145	21,197	21,250	21,281	21,311	21,730
8/85	4,299	11,725	15,644	18,346	20,064	20,824	21,552	22,035	22,338	22,455	22,546	22,641	22,717	22,781	22,834	22,901	22,974	23,012	23,043	23,067	23,077	23,083	23,186
8/86	5,416	13,695	19,423	22,069	23,992	25,370	26,417	27,142	27,433	27,549	27,699	27,816	27,906	28,107	28,229	28,341	28,431	28,591	28,649	28,709	28,781	28,834	29,362
8/87	5,177	17,146	22,710	26,046	28,197	29,396	30,172	30,708	30,992	31,252	31,523	31,671	31,795	31,865	31,928	31,997	32,068	32,116	32,146	32,191	32,268	32,302	32,873
8/88	7,378	20,105	27,919	33,157	35,981	37,725	38,947	39,568	39,987	40,526	40,946	41,425	41,865	42,310	42,746	43,225	43,603	44,007	44,421	44,784	45,229	45,475	48,087
8/89	9,172	25,470	35,833	40,906	43,588	45,835	46,987	47,820	48,312	49,002	49,278	49,474	49,760	49,900	50,074	50,200	50,404	50,518	50,623	50,686	50,779	50,906	51,382
8/90	10,315	30,654	41,781	47,430	51,542	53,543	54,626	55,438	55,857	56,321	56,735	57,044	57,320	57,457	57,714	57,971	58,127	58,282	58,609	58,801	58,987	59,067	59,547
8/91	12,340	29,446	37,456	41,337	43,946	45,753	47,031	48,054	48,710	49,492	50,129	50,633	50,859	51,105	51,334	51,528	51,691	51,837	51,951	52,087	52,191	52,277	52,530
8/92	12,573	28,555	36,102	39,470	41,918	43,745	45,250	46,459	47,525	48,444	49,090	49,588	50,056	50,670	51,086	51,436	51,785	52,095	52,396	52,721	52,924	53,109	53,775
8/93	12,436	30,578	37,924	42,099	44,560	47,105	49,081	51,046	51,916	52,557	53,057	53,483	53,957	54,266	54,508	54,722	54,909	55,050	55,165	55,272	55,347	55,415	55,540
8/94	13,844	29,510	37,229	41,126	43,620	45,785	47,890	49,701	50,801	51,713	52,214	52,714	53,149	53,527	53,896	54,149	54,358	54,526	54,685	54,816	54,902	54,982	55,110
8/95	13,836	30,578	37,924	42,099	44,560	47,105	49,081	51,046	51,916	52,557	53,057	53,483	53,957	54,266	54,508	54,722	54,909	55,050	55,165	55,272	55,347	55,415	55,540
8/96	13,150	29,138	36,484	40,464	43,404	45,786	47,679	49,146	49,932	50,676	51,264	51,666	52,084	52,338	52,745	52,989	53,233	53,449	53,723	53,823	53,936	54,058	54,187
8/97	11,812	27,582	35,745	40,294	43,128	45,420	47,536	49,203	50,116	50,727	51,381	52,063	52,790	53,451	54,115	54,583	55,052	55,499	55,922	56,308	56,666	57,012	
8/98	12,216	29,457	38,659	43,299	46,174	48,120	49,706	50,847	51,510	52,159	52,710	53,149	53,582	54,260	54,593	54,815	55,079	55,337	55,628	55,983	56,277		
8/99	12,621	34,111	44,152	48,784	51,751	53,501	54,880	55,837	56,355	56,999	57,609	57,946	58,395	58,644	58,879	59,131	59,308	59,417	59,585	59,655			
8/00	15,525	37,500	47,487	52,305	54,526	56,234	57,522	58,437	59,102	59,702	60,360	60,827	61,345	61,625	61,923	62,320	62,608	62,882	63,174				
8/01	15,591	37,648	48,772	52,626	54,932	56,536	57,948	58,955	59,801	60,288	60,668	60,979	61,304	61,502	61,657	61,769	61,854	61,958					
8/02	17,402	43,020	52,072	55,759	57,251	58,270	58,988	59,396	59,625	59,903	60,045	60,169	60,263	60,334	60,370	60,386	60,399						
8/03	15,611	34,572	42,283	45,247	47,432	49,590	51,484	52,815	53,941	54,989	55,851	56,530	57,211	58,258	59,189	60,177							
8/04	12,572	30,314	34,948	36,616	37,667	38,440	38,883	39,312	39,743	40,012	40,160	40,297	40,410	40,513	40,606								
8/05	13,344	28,709	34,296	36,376	37,978	38,780	39,427	39,895	40,246	40,538	40,667	40,773	40,933	41,031									
8/06	12,005	23,880	28,109	29,803	30,512	30,895	31,194	31,527	31,767	31,892	32,012	32,115	32,218										
8/07	14,425	28,918	33,235	34,911	35,722	36,324	36,765	37,071	37,419	37,732	37,887												
8/08	14,072	27,942	31,953	33,162	33,932	34,297	34,678	34,915	35,046	35,148													
8/09	15,196	29,617	33,567	35,529	36,441	37,192	37,628	37,976	38,636														
8/10	16,416	30,442	34,269	35,845	36,586	37,150	37,623	37,978															
8/11	13,103	25,626	28,940	30,213	30,760	31,314	31,699																
8/12	13,628	24,943	29,005	30,316	30,857	31,120																	
8/13	13,046	26,752	30,832	31,946	32,509																		
8/14	13,415	25,894	29,827	31,180																			
8/15	14,802	29,232	34,125																				
8/16	13,818	26,876																					
8/17																							
8/18																							

**Exhibit 19
State Office of Risk Management
Workers Compensation Insurance Fund**

*Cumulative Paid Claims - All Components
Estimate of Amounts Reportable After 8/31/18*

Claim Year Ending	Period to Period Ratios																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
8/75	1.000				1.181	1.034	1.062	1.039	1.027	1.073	1.055	1.008	1.036	1.000	1.000	1.000	1.001	1.011	1.001	1.001	1.001	1.002	1.000	1.106
8/76	1.000				1.033	1.025	1.018	1.016	1.013	1.011	1.019	1.005	1.005	1.021	1.010	1.010	1.003	1.004	1.002	1.003	1.004	1.002	1.003	1.021
8/77	1.000		1.117		1.064	1.048	1.027	1.034	1.021	1.010	1.006	1.005	1.006	1.006	1.006	1.007	1.005	1.006	1.006	1.004	1.004	1.003	1.003	1.020
8/78	1.000		1.098	1.117	1.066	1.034	1.019	1.008	1.004	1.003	1.003	1.005	1.004	1.006	1.006	1.006	1.004	1.004	1.003	1.004	1.003	1.004	1.003	1.031
8/79	1.000	2.463	1.254	1.126	1.058	1.027	1.021	1.014	1.008	1.004	1.003	1.001	1.001	1.001	1.005	1.002	1.002	1.002	1.004	1.005	1.007	1.005	1.010	1.035
8/80	1.000	2.468	1.274	1.105	1.060	1.028	1.023	1.036	1.016	1.010	1.008	1.007	1.004	1.007	1.004	1.008	1.006	1.008	1.005	1.007	1.006	1.005	1.010	1.014
8/81	1.000	2.389	1.279	1.122	1.045	1.041	1.020	1.013	1.008	1.012	1.005	1.003	1.003	1.003	1.003	1.003	1.003	1.006	1.004	1.004	1.004	1.003	1.004	1.019
8/82	1.000	2.321	1.298	1.147	1.114	1.032	1.026	1.010	1.008	1.006	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.001	1.001	1.013	
8/83	1.000	2.350	1.263	1.165	1.068	1.064	1.035	1.021	1.011	1.007	1.006	1.004	1.004	1.004	1.004	1.005	1.005	1.004	1.003	1.005	1.005	1.003	1.025	
8/84	1.000	2.513	1.332	1.150	1.074	1.044	1.027	1.027	1.008	1.006	1.005	1.004	1.005	1.004	1.004	1.005	1.004	1.004	1.002	1.002	1.002	1.001	1.020	
8/85	1.000	2.727	1.418	1.185	1.082	1.038	1.035	1.022	1.014	1.005	1.004	1.004	1.003	1.003	1.002	1.003	1.003	1.002	1.001	1.001	1.001	1.000	1.004	
8/86	1.000	2.528	1.334	1.136	1.087	1.057	1.041	1.027	1.011	1.006	1.004	1.004	1.003	1.007	1.004	1.004	1.003	1.006	1.002	1.002	1.002	1.000	1.018	
8/87	1.000	3.312	1.325	1.147	1.083	1.043	1.026	1.018	1.009	1.008	1.005	1.004	1.002	1.002	1.002	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.018	
8/88	1.000	2.725	1.389	1.188	1.085	1.048	1.032	1.016	1.011	1.013	1.012	1.011	1.011	1.011	1.010	1.011	1.009	1.009	1.009	1.008	1.008	1.005	1.057	
8/89	1.000	2.777	1.407	1.142	1.066	1.052	1.025	1.015	1.014	1.006	1.004	1.006	1.003	1.003	1.003	1.003	1.004	1.002	1.002	1.002	1.002	1.003	1.009	
8/90	1.000	2.972	1.363	1.135	1.087	1.039	1.020	1.015	1.008	1.007	1.005	1.005	1.002	1.004	1.004	1.004	1.003	1.003	1.006	1.006	1.006	1.003	1.008	
8/91	1.000	2.386	1.272	1.104	1.063	1.041	1.028	1.022	1.014	1.013	1.010	1.004	1.005	1.004	1.004	1.004	1.003	1.003	1.003	1.003	1.002	1.002	1.005	
8/92	1.000	2.271	1.264	1.093	1.062	1.044	1.034	1.027	1.019	1.013	1.010	1.009	1.012	1.008	1.008	1.007	1.007	1.006	1.006	1.006	1.006	1.004	1.013	
8/93	1.000	2.168	1.238	1.099	1.063	1.051	1.038	1.042	1.028	1.019	1.012	1.011	1.007	1.005	1.005	1.005	1.004	1.003	1.003	1.003	1.002	1.002	1.006	
8/94	1.000	2.298	1.262	1.110	1.058	1.057	1.046	1.038	1.022	1.018	1.010	1.008	1.007	1.005	1.005	1.005	1.004	1.003	1.003	1.003	1.002	1.001	1.002	
8/95	1.000	2.210	1.240	1.110	1.058	1.057	1.046	1.040	1.017	1.014	1.010	1.008	1.008	1.008	1.008	1.007	1.005	1.004	1.003	1.002	1.002	1.001	1.002	
8/96	1.000	2.216	1.252	1.109	1.073	1.055	1.041	1.031	1.016	1.015	1.012	1.008	1.008	1.008	1.008	1.005	1.005	1.004	1.004	1.005	1.002	1.001	1.002	
8/97	1.000	2.335	1.296	1.127	1.070	1.053	1.047	1.035	1.019	1.012	1.013	1.014	1.013	1.012	1.012	1.009	1.009	1.008	1.008	1.008	1.007	1.006	1.006	
8/98	1.000	2.411	1.312	1.120	1.066	1.042	1.033	1.023	1.013	1.013	1.011	1.008	1.008	1.006	1.006	1.004	1.004	1.003	1.003	1.002	1.002	1.001	1.002	
8/99	1.000	2.703	1.294	1.105	1.061	1.034	1.026	1.017	1.009	1.011	1.011	1.006	1.008	1.013	1.006	1.004	1.003	1.002	1.002	1.002	1.001	1.001	1.002	
8/00	1.000	2.415	1.266	1.101	1.042	1.031	1.023	1.016	1.010	1.010	1.008	1.008	1.008	1.008	1.005	1.005	1.005	1.005	1.005	1.006	1.006	1.005	1.006	
8/01	1.000	2.415	1.295	1.079	1.044	1.029	1.025	1.017	1.008	1.005	1.002	1.002	1.002	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.001	1.002	
8/02	1.000	2.472	1.210	1.071	1.027	1.018	1.012	1.007	1.004	1.005	1.002	1.002	1.001	1.001	1.001	1.000	1.000	1.000	1.005	1.005	1.005	1.006	1.006	
8/03	1.000	2.215	1.223	1.070	1.048	1.045	1.038	1.026	1.021	1.019	1.016	1.012	1.012	1.011	1.011	1.009	1.009	1.008	1.008	1.008	1.007	1.006	1.006	
8/04	1.000	2.411	1.153	1.048	1.029	1.021	1.012	1.011	1.007	1.004	1.003	1.003	1.003	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	
8/05	1.000	2.152	1.195	1.061	1.044	1.021	1.017	1.012	1.009	1.007	1.003	1.003	1.003	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	
8/06	1.000	1.989	1.177	1.060	1.024	1.013	1.010	1.011	1.007	1.004	1.004	1.004	1.004	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.001	1.002	
8/07	1.000	1.996	1.183	1.048	1.020	1.016	1.009	1.007	1.004	1.004	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	
8/08	1.000	2.005	1.149	1.050	1.023	1.017	1.012	1.008	1.004	1.004	1.004	1.004	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	
8/09	1.000	1.986	1.144	1.038	1.023	1.011	1.011	1.007	1.004	1.003	1.003	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	
8/10	1.000	1.949	1.133	1.058	1.026	1.021	1.012	1.009	1.007	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	
8/11	1.000	1.854	1.126	1.046	1.021	1.015	1.013	1.009	1.007	1.004	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	
8/12	1.000	1.956	1.129	1.044	1.018	1.018	1.012	1.009	1.007	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	
8/13	1.000	1.830	1.163	1.045	1.018	1.009	1.012	1.008	1.008	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	
8/14	1.000	2.051	1.152	1.036	1.018	1.009	1.012	1.008	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	
8/15	1.000	1.930	1.152	1.045	1.018	1.009	1.012	1.008	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	
8/16	1.000	1.975	1.167																					
8/17	1.000	1.945																						
8/18	1.000																							

Exhibit 19
State Office of Risk Management
Workers Compensation Insurance Fund

Cumulative Paid Claims - All Components
Estimate of Amounts Reportable After 8/31/18

Method	Age to Age Development Factors																						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Aggregate	1.000	1.241	1.094	1.051	1.035	1.026	1.020	1.013	1.011	1.009	1.007	1.007	1.007	1.006	1.006	1.005	1.004	1.004	1.004	1.004	1.003	1.003	1.003
Average	1.000	2.252	1.246	1.098	1.054	1.040	1.027	1.021	1.014	1.011	1.010	1.008	1.006	1.006	1.006	1.005	1.004	1.004	1.004	1.004	1.003	1.003	1.002
Truncated	1.000	2.293	1.245	1.098	1.053	1.037	1.027	1.020	1.014	1.010	1.008	1.007	1.006	1.006	1.005	1.004	1.004	1.004	1.004	1.004	1.003	1.002	1.017
Inverted	1.000	2.266	1.241	1.097	1.053	1.040	1.027	1.021	1.014	1.011	1.010	1.008	1.006	1.006	1.005	1.004	1.004	1.004	1.004	1.004	1.003	1.003	1.020
Trunc Last 8	1.000	1.935	1.146	1.045	1.021	1.015	1.012	1.009	1.010	1.006	1.004	1.004	1.005	1.005	1.005	1.004	1.004	1.004	1.004	1.004	1.003	1.002	1.005
Last 8	1.000	1.936	1.146	1.045	1.021	1.015	1.012	1.009	1.011	1.007	1.005	1.005	1.006	1.006	1.006	1.006	1.004	1.004	1.004	1.004	1.003	1.002	1.006
Last 7	1.000	1.934	1.146	1.045	1.021	1.015	1.011	1.009	1.009	1.008	1.005	1.005	1.005	1.005	1.005	1.006	1.004	1.004	1.004	1.004	1.003	1.003	1.005
Trunc Last 6	1.000	1.951	1.149	1.045	1.020	1.015	1.012	1.009	1.008	1.006	1.004	1.003	1.004	1.003	1.003	1.004	1.003	1.004	1.004	1.004	1.003	1.002	1.004
Last 6	1.000	1.948	1.148	1.046	1.021	1.015	1.012	1.009	1.009	1.006	1.005	1.005	1.005	1.005	1.005	1.006	1.004	1.004	1.004	1.004	1.003	1.003	1.005
Last 5	1.000	1.946	1.153	1.043	1.020	1.015	1.012	1.008	1.009	1.005	1.003	1.005	1.005	1.006	1.005	1.006	1.003	1.004	1.005	1.004	1.003	1.003	1.005
Last 4	1.000	1.975	1.159	1.043	1.019	1.016	1.012	1.008	1.009	1.005	1.003	1.003	1.005	1.006	1.005	1.006	1.002	1.003	1.005	1.004	1.004	1.003	1.003
Last 3	1.000	1.950	1.157	1.042	1.018	1.014	1.012	1.009	1.010	1.005	1.003	1.003	1.003	1.008	1.006	1.006	1.002	1.003	1.004	1.005	1.005	1.003	1.002
Last 2	1.000	1.960	1.160	1.041	1.018	1.013	1.013	1.009	1.011	1.006	1.003	1.004	1.004	1.002	1.009	1.008	1.001	1.003	1.004	1.004	1.004	1.006	1.004
Wtd Avg	1.000	1.956	1.161	1.043	1.018	1.013	1.012	1.009	1.012	1.005	1.004	1.004	1.004	1.005	1.006	1.009	1.001	1.003	1.004	1.004	1.005	1.004	1.002
Geometric	1.000	2.286	1.244	1.098	1.053	1.040	1.027	1.021	1.014	1.011	1.010	1.008	1.006	1.006	1.006	1.005	1.004	1.004	1.004	1.004	1.003	1.003	1.020
NCCI Factors ⁽¹⁾	1.000	1.897	1.165	1.055	1.028	1.022	1.018	1.015	1.012	1.010	1.009	1.007	1.007	1.006	1.013	1.013	1.013	1.013	1.013	1.014	1.014	1.014	1.000
Prior Study	1.000	1.933	1.143	1.045	1.021	1.016	1.011	1.009	1.008	1.005	1.005	1.005	1.006	1.006	1.006	1.004	1.005	1.004	1.004	1.004	1.003	1.002	1.005
Factors Selected	1.000	1.948	1.148	1.046	1.021	1.015	1.012	1.009	1.009	1.006	1.006	1.005	1.005	1.005	1.005	1.006	1.004	1.004	1.004	1.003	1.003	1.003	1.005
Age to Ultimate Development Factors																							
NCCI Factors ⁽¹⁾	2.961	1.561	1.340	1.270	1.235	1.208	1.187	1.187	1.169	1.155	1.144	1.134	1.126	1.118	1.111	1.097	1.083	1.069	1.056	1.042	1.028	1.014	1.000
Prior Study	2.631	1.361	1.191	1.141	1.117	1.099	1.087	1.087	1.077	1.069	1.060	1.054	1.049	1.043	1.037	1.032	1.027	1.023	1.018	1.014	1.010	1.007	1.005
Factors Selected	2.657	1.364	1.188	1.136	1.113	1.097	1.084	1.084	1.075	1.065	1.059	1.054	1.049	1.044	1.038	1.033	1.027	1.023	1.019	1.014	1.011	1.008	1.005
Percentage Paid																							
NCCI Factors ⁽¹⁾	33.77%	64.06%	74.63%	78.74%	80.97%	82.78%	84.25%	85.54%	86.58%	87.41%	88.18%	88.81%	89.45%	90.01%	91.15%	92.31%	93.51%	94.74%	96.00%	97.30%	98.6%	99.50%	100%
Factors Selected	37.64%	73.31%	84.18%	88.04%	89.85%	91.20%	92.26%	93.05%	93.88%	94.40%	94.92%	95.36%	95.82%	96.33%	96.82%	97.36%	97.72%	98.13%	98.58%	98.92%	99.23%	99.50%	100%

(1) From National Council on Compensation Insurance (NCCI) Annual Statistical Bulletin 2013 Edition

Exhibit 19 State Office of Risk Management Workers Compensation Insurance Fund

Cumulative Paid Claims - All Components
Estimate of Amounts Reportable After 8/31/18

Claim Year Ending	Paid to Ultimate Ratios																						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
8/75				1.839	1.557	1.506	1.418	1.364	1.329	1.174	1.164	1.124	1.123	1.122	1.110	1.109	1.108	1.106	1.106	1.106	1.106	1.106	1.000
8/76			1.317	1.237	1.197	1.168	1.147	1.128	1.114	1.102	1.081	1.075	1.070	1.068	1.061	1.059	1.056	1.054	1.052	1.051	1.050	1.049	1.000
8/77			1.396	1.250	1.280	1.216	1.184	1.159	1.143	1.133	1.129	1.125	1.124	1.122	1.117	1.115	1.113	1.111	1.107	1.101	1.096	1.085	1.048
8/79	4.875	1.979	1.578	1.402	1.325	1.216	1.184	1.159	1.143	1.133	1.129	1.125	1.124	1.122	1.117	1.115	1.113	1.111	1.107	1.101	1.096	1.085	1.048
8/80	4.716	1.911	1.500	1.357	1.280	1.237	1.203	1.176	1.155	1.143	1.133	1.129	1.125	1.124	1.122	1.117	1.115	1.113	1.111	1.107	1.101	1.096	1.085
8/81	4.306	1.802	1.409	1.257	1.203	1.156	1.133	1.112	1.097	1.088	1.075	1.070	1.067	1.063	1.060	1.057	1.053	1.047	1.041	1.034	1.030	1.030	1.010
8/82	4.298	1.927	1.485	1.295	1.162	1.126	1.098	1.081	1.071	1.062	1.055	1.052	1.048	1.045	1.043	1.040	1.038	1.036	1.035	1.033	1.031	1.030	1.010
8/83	4.582	1.950	1.544	1.325	1.240	1.165	1.126	1.103	1.091	1.083	1.073	1.067	1.062	1.058	1.054	1.049	1.044	1.041	1.037	1.031	1.028	1.025	1.000
8/84	4.998	1.989	1.493	1.299	1.210	1.159	1.129	1.099	1.078	1.070	1.063	1.058	1.053	1.049	1.044	1.038	1.034	1.030	1.027	1.025	1.023	1.022	1.002
8/85	5.393	1.977	1.482	1.250	1.156	1.113	1.076	1.052	1.038	1.033	1.028	1.024	1.021	1.018	1.015	1.012	1.009	1.008	1.006	1.005	1.005	1.004	1.000
8/86	5.421	2.144	1.512	1.330	1.224	1.157	1.111	1.082	1.070	1.064	1.060	1.056	1.052	1.045	1.040	1.036	1.033	1.027	1.025	1.023	1.020	1.018	1.000
8/87	6.350	1.917	1.448	1.262	1.166	1.118	1.090	1.070	1.061	1.052	1.043	1.038	1.034	1.032	1.030	1.027	1.025	1.024	1.023	1.021	1.019	1.018	1.000
8/88	6.517	2.392	1.722	1.450	1.336	1.275	1.235	1.215	1.203	1.187	1.174	1.161	1.149	1.137	1.125	1.112	1.103	1.093	1.083	1.074	1.063	1.057	1.000
8/89	5.602	2.017	1.434	1.256	1.179	1.121	1.094	1.074	1.064	1.049	1.043	1.039	1.033	1.030	1.026	1.024	1.019	1.017	1.015	1.014	1.012	1.009	1.000
8/90	5.773	1.943	1.425	1.255	1.155	1.112	1.090	1.074	1.066	1.057	1.050	1.044	1.039	1.036	1.032	1.027	1.024	1.022	1.016	1.013	1.009	1.008	1.000
8/91	4.257	1.784	1.402	1.271	1.195	1.148	1.117	1.093	1.078	1.061	1.048	1.037	1.033	1.028	1.023	1.019	1.016	1.013	1.011	1.009	1.006	1.005	1.000
8/92	4.277	1.883	1.490	1.362	1.283	1.229	1.188	1.157	1.132	1.110	1.095	1.084	1.074	1.061	1.053	1.045	1.038	1.032	1.026	1.020	1.016	1.013	1.000
8/93	4.031	1.859	1.502	1.366	1.285	1.222	1.178	1.130	1.099	1.079	1.066	1.055	1.048	1.042	1.037	1.030	1.024	1.019	1.015	1.010	1.008	1.006	1.000
8/94	4.291	1.867	1.480	1.340	1.263	1.204	1.151	1.109	1.085	1.066	1.055	1.045	1.037	1.030	1.023	1.018	1.014	1.011	1.008	1.005	1.004	1.002	1.000
8/95	4.014	1.816	1.465	1.319	1.246	1.179	1.132	1.088	1.070	1.057	1.047	1.038	1.029	1.023	1.019	1.015	1.012	1.009	1.007	1.005	1.003	1.002	1.000
8/96	4.121	1.860	1.485	1.339	1.248	1.183	1.136	1.103	1.085	1.069	1.057	1.049	1.040	1.035	1.027	1.023	1.018	1.014	1.009	1.007	1.005	1.002	1.000
8/97	4.851	2.077	1.603	1.422	1.329	1.262	1.205	1.165	1.143	1.130	1.115	1.101	1.085	1.072	1.059	1.050	1.041	1.032	1.025	1.018	1.011	1.005	1.000
8/98	4.643	1.925	1.467	1.310	1.228	1.179	1.141	1.115	1.101	1.087	1.076	1.067	1.058	1.045	1.039	1.035	1.030	1.025	1.020	1.013	1.008	1.005	1.000
8/99	4.779	1.768	1.366	1.236	1.165	1.127	1.099	1.080	1.070	1.058	1.047	1.041	1.033	1.028	1.024	1.020	1.017	1.015	1.012	1.011	1.010	1.008	1.000
8/00	4.128	1.709	1.350	1.225	1.175	1.140	1.114	1.097	1.084	1.073	1.062	1.054	1.045	1.040	1.035	1.028	1.024	1.019	1.014	1.011	1.007	1.005	1.000
8/01	4.050	1.677	1.295	1.200	1.149	1.117	1.090	1.071	1.056	1.047	1.041	1.035	1.030	1.027	1.024	1.022	1.021	1.019	1.019	1.017	1.015	1.013	1.000
8/02	3.532	1.437	1.187	1.108	1.080	1.061	1.048	1.041	1.037	1.032	1.029	1.027	1.026	1.024	1.024	1.024	1.023	1.021	1.019	1.018	1.016	1.015	1.000
8/03	3.959	1.788	1.462	1.366	1.303	1.246	1.200	1.170	1.146	1.124	1.107	1.093	1.080	1.061	1.044	1.027	1.022	1.019	1.019	1.017	1.015	1.013	1.000
8/04	3.336	1.384	1.200	1.145	1.114	1.091	1.079	1.067	1.055	1.048	1.044	1.041	1.038	1.035	1.033	1.033	1.033	1.032	1.031	1.029	1.027	1.025	1.000
8/05	3.192	1.484	1.242	1.171	1.122	1.098	1.080	1.068	1.058	1.051	1.047	1.045	1.041	1.038	1.035	1.033	1.033	1.032	1.031	1.029	1.027	1.025	1.000
8/06	2.801	1.408	1.196	1.128	1.102	1.088	1.078	1.067	1.059	1.051	1.050	1.047	1.044	1.041	1.038	1.035	1.033	1.032	1.031	1.029	1.027	1.025	1.000
8/07	2.783	1.394	1.179	1.125	1.102	1.085	1.075	1.067	1.060	1.056	1.053	1.049	1.045	1.041	1.038	1.035	1.033	1.032	1.031	1.029	1.027	1.025	1.000
8/08	2.767	1.380	1.201	1.143	1.117	1.099	1.086	1.077	1.067	1.067	1.067	1.067	1.067	1.067	1.067	1.067	1.067	1.067	1.067	1.067	1.067	1.067	1.000
8/09	2.646	1.333	1.165	1.123	1.097	1.086	1.074	1.067	1.063	1.059	1.054	1.051	1.049	1.048	1.047	1.045	1.044	1.043	1.042	1.041	1.040	1.039	1.038
8/10	2.708	1.389	1.226	1.158	1.129	1.106	1.094	1.084	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.000
8/11	2.486	1.341	1.191	1.139	1.116	1.099	1.085	1.075	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.000
8/12	2.622	1.341	1.187	1.137	1.117	1.097	1.084	1.075	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.000
8/13	2.505	1.369	1.177	1.126	1.106	1.097	1.084	1.075	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.000
8/14	2.775	1.353	1.174	1.133	1.113	1.097	1.084	1.075	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.000
8/15	2.641	1.368	1.188	1.136	1.116	1.099	1.085	1.075	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.000
8/16	2.736	1.385	1.187	1.136	1.116	1.099	1.085	1.075	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.000
8/17	2.667	1.371	1.187	1.136	1.116	1.099	1.085	1.075	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.000
8/18	2.695	1.371	1.187	1.136	1.116	1.099	1.085	1.075	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.065	1.000

Mean	2.757	1.406	1.211	1.156	1.130	1.109	1.095	1.087	1.077	1.067	1.059	1.052	1.047	1.039	1.033	1.027	1.028	1.024	1.021	1.016	1.014	1.013	1.001
Std Dev	0.227	0.1116	0.07208	0.06211	0.0529	0.04223	0.03565	0.0364	0.03143	0.02733	0.02348	0.02027	0.0189	0.0148	0.01167	0.00975	0.02221	0.02016	0.0183	0.01692	0.01495	0.01433	0.00443

Exhibit 19
State Office of Risk Management
Workers Compensation Insurance Fund

Cumulative Paid Claims - All Components
Estimate of Amounts Reportable After 8/31/18

$t_{0.9}$	8/18	8/17	8/16	8/15	8/14	8/13	8/12	8/11	8/10	8/09	8/08	8/07	8/06	8/05	8/04	8/03	8/02	8/01	8/00	8/99	8/98	8/97
Conflmt/2	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450
	0.3057	0.1501	0.0969	0.0835	0.0711	0.0568	0.0480	0.0490	0.0423	0.0368	0.0316	0.0273	0.0254	0.0199	0.0157	0.0131	0.0299	0.0271	0.0246	0.0228	0.0201	0.0193
LDF(90%CI)	3.06312	1.55596	1.30775	1.23952	1.20072	1.16597	1.14299	1.13618	1.11889	1.10368	1.09054	1.07973	1.07261	1.05927	1.04872	1.0402	1.05814	1.05136	1.04512	1.03917	1.03428	1.03241
Ult Incurred (90% CI)	14.475	26.876	34.125	31.180	32.509	31.120	31.699	37.978	38.636	35.148	37.887	34.288	32.218	41.031	40.606	60.177	60.399	61.958	63.174	59.655	56.277	57.012
Ult Incurred (50% CI)	44.340	41.818	44.627	38.648	39.034	36.285	36.232	43.150	43.229	38.792	41.318	37.022	34.558	43.463	42.585	62.597	63.911	65.140	66.024	61.992	58.207	58.860
Delta	5.333	4.970	4.128	3.221	2.837	2.146	1.870	2.333	2.080	1.553	1.401	1.063	931	866	641	796	2.102	1.999	1.940	1.683	1.493	1.561
$t_{0.75}$	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924	0.6924
Conflmt/2	0.1574	0.0773	0.0499	0.0430	0.0366	0.0292	0.0247	0.0252	0.0218	0.0189	0.0163	0.0140	0.0131	0.0102	0.0081	0.0068	0.0154	0.0140	0.0127	0.0117	0.0104	0.0099
LDF(75%CI)	2.91477	1.48312	1.26071	1.19899	1.1662	1.13841	1.11973	1.11242	1.09838	1.08585	1.07522	1.0665	1.06028	1.04961	1.0411	1.03384	1.04365	1.03821	1.03317	1.02813	1.02452	1.02307
Ult Incurred (75% CI)	14.475	26.876	34.125	31.180	32.509	31.120	31.699	37.978	38.636	35.148	37.887	34.288	32.218	41.031	40.606	60.177	60.399	61.958	63.174	59.655	56.277	57.012
Ult Incurred (50% CI)	42.192	39.861	43.022	37.384	37.912	35.427	35.494	42.248	42.437	38.165	40.737	36.568	34.160	43.067	42.275	62.214	63.036	64.325	65.269	61.333	57.657	58.327
Delta	3.186	3.013	2.523	1.957	1.714	1.289	1.132	1.431	1.288	927	821	609	534	470	332	413	1.227	1.184	1.185	1.025	944	1.028
$t_{0.6}$	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582	0.2582
Conflmt/2	0.0587	0.0288	0.0186	0.0160	0.0137	0.0109	0.0092	0.0094	0.0081	0.0071	0.0061	0.0052	0.0049	0.0038	0.0030	0.0025	0.0057	0.0052	0.0047	0.0044	0.0039	0.0037
LDF(60%CI)	2.81608	1.43467	1.22942	1.17202	1.14323	1.12008	1.10425	1.09661	1.08473	1.07398	1.06502	1.05769	1.05208	1.04318	1.03604	1.0296	1.034	1.02946	1.02523	1.02079	1.01803	1.01684
Ult Incurred (60% CI)	14.475	26.876	34.125	31.180	32.509	31.120	31.699	37.978	38.636	35.148	37.887	34.288	32.218	41.031	40.606	60.177	60.399	61.958	63.174	59.655	56.277	57.012
Ult Incurred (50% CI)	40.764	38.558	41.954	36.543	37.165	34.857	35.004	41.647	41.910	37.748	40.351	36.267	33.896	42.803	42.070	61.959	62.453	63.783	64.767	60.895	57.292	57.972
Delta	1.757	1.710	1.455	1.116	968	718	641	830	761	510	435	307	269	207	126	158	645	641	683	586	579	673
$t_{0.5}$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Conflmt/2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LDF(50%CI)	2.75738	1.40585	1.2108	1.15598	1.12957	1.10918	1.09504	1.08721	1.07662	1.06692	1.05896	1.05246	1.0472	1.03936	1.03302	1.02708	1.02827	1.02425	1.0205	1.01642	1.01417	1.01315
Ult Incurred (50% CI)	14.475	26.876	34.125	31.180	32.509	31.120	31.699	37.978	38.636	35.148	37.887	34.288	32.218	41.031	40.606	60.177	60.399	61.958	63.174	59.655	56.277	57.012
Ult Incurred (50% CI)	39.914	37.784	41.319	36.043	36.721	34.517	34.712	41.290	41.596	37.500	40.121	36.087	33.739	42.647	41.947	61.807	62.107	63.460	64.469	60.634	57.075	57.761
Delta	39.006	36.848	40.499	35.427	36.197	34.139	34.362	40.817	41.149	37.239	39.916	35.959	33.627	42.597	41.943	61.801	61.809	63.141	64.084	60.308	56.713	57.298
Delta	908	936	820	616	524	379	349	473	447	262	205	128	112	50	4	6	298	319	384	326	362	463

*Values from Student's t Distribution for 50%, 60%, 75% and 90% Confidence

Exhibit 20
State Office of Risk Management
Workers Compensation Insurance Fund

Cumulative Claim Counts

Estimate of Amounts Reportable After 8/31/18

Claim Year Ending	12 Month Lag Periods																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
8/75	268	268	269	270	271	271	271	271	272	272	273	273	274	274	274	274	274	274	274	274	274	274	274	274	
8/76	4,283	4,284	4,285	4,291	4,293	4,296	4,296	4,298	4,298	4,299	4,299	4,342	4,346	4,346	4,346	4,347	4,347	4,347	4,347	4,347	4,347	4,347	4,347	4,347	
8/77	5,233	5,234	5,242	5,246	5,248	5,250	5,250	5,251	5,251	5,251	5,259	5,260	5,260	5,260	5,261	5,261	5,261	5,261	5,261	5,261	5,261	5,261	5,261	5,261	
8/78	6,325	6,382	6,393	6,404	6,404	6,406	6,406	6,407	6,408	6,409	6,409	6,409	6,409	6,409	6,409	6,409	6,409	6,409	6,409	6,409	6,409	6,409	6,409	6,409	
8/79	5,723	6,421	6,432	6,435	6,444	6,444	6,444	6,444	6,445	6,445	6,445	6,445	6,445	6,445	6,445	6,446	6,446	6,446	6,446	6,446	6,446	6,446	6,446	6,446	
8/80	5,776	6,444	6,463	6,468	6,470	6,471	6,471	6,471	6,472	6,472	6,472	6,472	6,472	6,472	6,472	6,472	6,472	6,472	6,472	6,472	6,472	6,472	6,472	6,472	
8/81	5,689	6,300	6,316	6,321	6,323	6,326	6,331	6,333	6,333	6,333	6,333	6,333	6,333	6,333	6,333	6,333	6,333	6,333	6,333	6,333	6,333	6,333	6,333	6,333	
8/82	5,636	6,248	6,257	6,260	6,263	6,266	6,269	6,270	6,271	6,271	6,271	6,271	6,271	6,271	6,271	6,271	6,271	6,271	6,271	6,271	6,271	6,271	6,271	6,271	
8/83	5,658	6,176	6,185	6,197	6,201	6,202	6,203	6,204	6,205	6,205	6,205	6,205	6,205	6,205	6,205	6,205	6,205	6,205	6,205	6,205	6,205	6,205	6,205	6,205	
8/84	5,867	6,570	6,603	6,624	6,633	6,639	6,640	6,640	6,640	6,640	6,641	6,641	6,641	6,641	6,641	6,641	6,641	6,641	6,641	6,641	6,641	6,641	6,641	6,641	
8/85	6,446	7,149	7,186	7,194	7,198	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	
8/86	6,303	7,090	7,120	7,129	7,131	7,133	7,134	7,135	7,136	7,137	7,137	7,137	7,137	7,137	7,137	7,137	7,137	7,137	7,137	7,137	7,137	7,137	7,137	7,137	
8/87	6,144	6,794	6,818	6,822	6,825	6,827	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	
8/88	6,631	7,372	7,408	7,413	7,413	7,415	7,416	7,416	7,416	7,416	7,417	7,417	7,418	7,418	7,418	7,419	7,419	7,419	7,419	7,419	7,419	7,419	7,419	7,419	
8/89	7,270	7,980	7,996	8,008	8,009	8,012	8,015	8,015	8,015	8,015	8,015	8,015	8,015	8,015	8,015	8,015	8,015	8,015	8,015	8,015	8,015	8,015	8,015	8,015	
8/90	7,220	7,965	7,989	7,993	7,998	7,998	7,998	7,998	7,998	7,998	7,999	7,999	7,999	7,999	7,999	7,999	7,999	7,999	7,999	7,999	7,999	7,999	7,999	7,999	
8/91	8,089	8,629	8,656	8,659	8,661	8,661	8,665	8,665	8,665	8,665	8,665	8,665	8,665	8,665	8,665	8,666	8,666	8,666	8,666	8,666	8,666	8,666	8,666	8,666	
8/92	8,603	9,149	9,174	9,177	9,180	9,180	9,181	9,181	9,181	9,181	9,181	9,181	9,181	9,182	9,182	9,182	9,182	9,182	9,182	9,182	9,182	9,182	9,182	9,182	
8/93	8,538	9,175	9,189	9,191	9,192	9,192	9,192	9,192	9,192	9,192	9,192	9,192	9,192	9,192	9,192	9,192	9,192	9,192	9,192	9,192	9,192	9,192	9,192	9,192	
8/94	9,518	10,107	10,120	10,120	10,121	10,122	10,123	10,123	10,123	10,123	10,123	10,123	10,123	10,123	10,123	10,123	10,123	10,123	10,123	10,123	10,123	10,123	10,123	10,123	
8/95	9,863	10,330	10,346	10,349	10,351	10,352	10,352	10,352	10,352	10,352	10,352	10,352	10,352	10,352	10,352	10,352	10,352	10,352	10,352	10,352	10,352	10,352	10,352	10,352	
8/96	9,122	9,505	9,518	9,523	9,525	9,526	9,526	9,526	9,526	9,526	9,526	9,526	9,526	9,526	9,526	9,526	9,526	9,526	9,526	9,526	9,526	9,526	9,526	9,526	
8/97	8,306	8,656	8,675	8,678	8,680	8,681	8,681	8,681	8,681	8,681	8,681	8,681	8,681	8,681	8,681	8,681	8,681	8,681	8,681	8,681	8,681	8,681	8,681	8,681	
8/98	7,982	8,334	8,347	8,351	8,352	8,352	8,352	8,352	8,352	8,352	8,352	8,352	8,352	8,352	8,352	8,352	8,352	8,352	8,352	8,352	8,352	8,352	8,352	8,352	
8/99	7,943	8,273	8,286	8,290	8,293	8,294	8,294	8,294	8,294	8,294	8,294	8,294	8,294	8,294	8,294	8,294	8,294	8,294	8,294	8,294	8,294	8,294	8,294	8,294	
8/00	7,921	8,328	8,343	8,345	8,346	8,346	8,346	8,346	8,346	8,346	8,346	8,346	8,346	8,346	8,346	8,347	8,347	8,347	8,347	8,347	8,347	8,347	8,347	8,347	
8/01	7,802	8,139	8,151	8,153	8,154	8,154	8,154	8,154	8,154	8,154	8,155	8,155	8,155	8,155	8,155	8,156	8,156	8,156	8,156	8,156	8,156	8,156	8,156	8,156	
8/02	8,275	8,541	8,547	8,548	8,549	8,549	8,549	8,549	8,549	8,549	8,549	8,549	8,549	8,549	8,549	8,549	8,549	8,549	8,549	8,549	8,549	8,549	8,549	8,549	
8/03	7,273	7,513	7,516	7,516	7,517	7,517	7,517	7,517	7,517	7,517	7,518	7,518	7,518	7,518	7,518	7,518	7,518	7,518	7,518	7,518	7,518	7,518	7,518	7,518	
8/04	6,989	7,202	7,205	7,205	7,205	7,205	7,206	7,206	7,206	7,206	7,206	7,206	7,206	7,206	7,206	7,206	7,206	7,206	7,206	7,206	7,206	7,206	7,206	7,206	
8/05	7,218	7,417	7,420	7,420	7,420	7,420	7,420	7,420	7,420	7,420	7,422	7,422	7,422	7,422	7,422	7,422	7,422	7,422	7,422	7,422	7,422	7,422	7,422	7,422	
8/06	6,665	6,819	6,820	6,820	6,822	6,823	6,824	6,825	6,825	6,825	6,825	6,825	6,825	6,825	6,825	6,825	6,825	6,825	6,825	6,825	6,825	6,825	6,825	6,825	
8/07	6,849	6,995	6,998	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	
8/08	7,102	7,307	7,311	7,311	7,311	7,311	7,311	7,311	7,311	7,311	7,311	7,311	7,311	7,311	7,311	7,311	7,311	7,311	7,311	7,311	7,311	7,311	7,311	7,311	
8/09	7,190	7,358	7,360	7,361	7,362	7,363	7,363	7,363	7,363	7,363	7,363	7,363	7,363	7,363	7,363	7,363	7,363	7,363	7,363	7,363	7,363	7,363	7,363	7,363	
8/10	7,350	7,502	7,506	7,511	7,512	7,512	7,512	7,512	7,512	7,512	7,512	7,512	7,512	7,512	7,512	7,512	7,512	7,512	7,512	7,512	7,512	7,512	7,512	7,512	
8/11	7,486	7,638	7,646	7,647	7,647	7,647	7,647	7,647	7,647	7,647	7,647	7,647	7,647	7,647	7,647	7,647	7,647	7,647	7,647	7,647	7,647	7,647	7,647	7,647	
8/12	6,995	7,162	7,168	7,169	7,169	7,169	7,169	7,169	7,169	7,169	7,169	7,169	7,169	7,169	7,169	7,169	7,169	7,169	7,169	7,169	7,169	7,169	7,169	7,169	
8/13	6,867	7,016	7,021	7,021	7,021	7,021	7,021	7,021	7,021	7,021	7,021	7,021	7,021	7,021	7,021	7,021	7,021	7,021	7,021	7,021	7,021	7,021	7,021	7,021	
8/14	6,744	6,897	6,898	6,898	6,899																				
8/15	6,670	6,807	6,813	6,814																					
8/16	6,592	6,724	6,731																						
8/17	6,668	6,876																							
8/18	6,406																								

Exhibit 20
State Office of Risk Management
Workers Compensation Insurance Fund

Cumulative Claim Counts

Estimate of Amounts Reportable After 8/31/18

Method	Age to Age Development Factors																						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Aggregate	1.000	1.054	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Average	1.000	1.054	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Truncated	1.000	1.053	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Inverted	1.000	1.052	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Trunc Last 8	1.000	1.022	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 8	1.000	1.023	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 7	1.000	1.023	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Trunc Last 6	1.000	1.022	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 6	1.000	1.023	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 5	1.000	1.023	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 4	1.000	1.024	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 3	1.000	1.024	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 2	1.000	1.026	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Wtd Avg	1.000	1.026	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Geometric	1.000	1.053	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Prior Study	1.000	1.022	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Factors Selected	1.000	1.023	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Age to Ultimate Development Factors

Method	Percentage Reported																						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Prior Study	1.022	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Factors Selected	1.024	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Factors Selected 97.64% 99.92% 100.0%