

Cook County, Illinois

Actuarial Study of the Workers Compensation and Liability Self-Insured Programs as of November 30, 2019

May 26, 2020

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Cook County
118 North Clark Street, Room 1072
Chicago, Illinois 60602

Attn: Ms. Deanna Zalas
Director of Risk Management

**Actuarial Study of the
Workers Compensation and Liability
Self-Insured Programs
as of November 30, 2019**

This study has been completed for Cook County for the specific objectives listed in the study. It contains the analysis and conclusions of our work.

Each section and appendix of the study is an integral part of the whole. We recommend a review of the entire study prior to reliance upon this study.

Beginning with the November 30, 2019 analysis, we did a separate analysis of the unpaid liabilities associated with law enforcement liability (LEL). In our prior analyses, the LEL claims and exposure were included within the other liability (OL) analysis.

Due to the volatility of LEL claims, the County decided to book the 90% confidence level discounted unpaid liabilities for LEL. The County booked the expected discounted unpaid liabilities for all other coverages. The resulting booked reserve is the expected discounted unpaid liabilities for all coverages of \$568,517,801 plus an additional \$55,000,000 for the difference between the 90% confidence level and expected value LEL unpaid liabilities. We believe the resulting booked liability of \$623,517,801 is within a reasonable range of estimates.

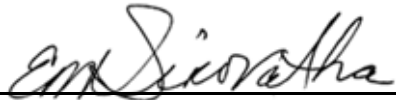
No key personnel have a relationship with Cook County that may impair our objectivity.

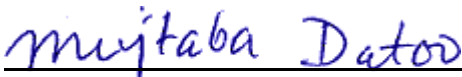
We, Elissa Sirovatka and Mujtaba Dato, are members of the American Academy of Actuaries and meet the Academy's qualification standards to render this opinion. We performed this analysis using generally accepted actuarial principles and all relevant Actuarial Standards of Practice.


Please call if you have any questions. Thank you for the opportunity to be of service.

Respectfully submitted,

Aon Global Risk Consulting

By 
Elissa Sirovatka, FCAS, MAAA
Director and Actuary

By 
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I. Background

The self-insurance program for Cook County, Illinois (the County) has three components: workers compensation, medical malpractice, and liability. Liability includes general, automobile, law enforcement, and other liability. Other liability includes error and omissions, employment practices, and public officials liability.

A history of self-insured retentions is shown in Table I-1 (workers compensation), Table I-2 (medical malpractice), and Table I-3 (liability).

**Table I-1
History of Self-Insured Retentions
Workers Compensation**

Claim Period (1)	Specific (2)	Aggregate (3)
12/31/00 to 12/30/01	\$9,500,000	\$40,000,000
12/31/01 to 12/30/02	9,500,000	40,000,000
12/31/02 to 12/30/03	9,500,000	45,000,000

**Table I-2
History of Self-Insured Retentions
Medical Malpractice**

Claim Period (1)	Specific (2)	Aggregate (3)
12/31/00 to 12/30/01	\$10,000,000	\$25,000,000
12/31/01 to 12/30/02	15,000,000	50,000,000
12/31/02 to 12/30/03	20,000,000	80,000,000
12/31/03 to 12/30/04	20,000,000	None
12/31/04 to 12/30/05	20,000,000	None
12/31/05 to 2/28/09	20,000,000	None
3/1/10 to 2/28/13	40,000,000	None
3/1/13 to 6/30/15	30,000,000	None
7/1/15 to present	25,000,000	80,000,000

**Table I-3
History of Self-Insured Retentions
Liability**

Claim Period (1)	Specific (2)	Aggregate (3)
12/31/00 to 12/30/01	\$9,500,000	\$40,000,000
12/31/01 to 12/30/02	9,500,000	40,000,000
12/31/02 to 12/30/03	9,500,000	45,000,000
12/31/03 to 12/30/04	10,000,000	None
12/31/04 to 12/30/06	10,000,000	25,000,000
12/31/06 to 2/28/13	10,000,000	None
3/1/13 to 6/30/18	15,000,000	None
7/1/18 to present	20,000,000	None

Cook County currently self-administers and self-funds claims for workers compensation, medical malpractice, general liability, automobile liability, and other liability. All litigation matters are handled by the Cook County State’s Attorney’s Office. In some cases, outside legal counsel may be assigned.

For workers compensation, “Indemnity” includes indemnity, legal, and other losses. “Medical” includes medical and rehabilitation losses. Only workers compensation losses include allocated loss adjustment expenses (ALAE). According to the County, ALAE is not specifically assigned to individual medical malpractice and liability claims. However, litigation expenses are tracked in aggregate and included in our analysis (see Summary Exhibit 7).

The excess coverage for medical malpractice is on a claims-made basis. The estimated outstanding losses and projected ultimate losses for medical malpractice include all claims with loss dates on or before the indicated fiscal year end, consistent with the prior actuarial studies.

Data & Analysis

Data

Cumulative loss data valued as of November 30, 2019 was provided to us by the County for all coverages. For workers compensation, the analysis is completed net of recoveries. Recovery amounts were not provided for the liability and medical malpractice coverages.

Forest Preserve District department claims were not included in the loss data provided, and are excluded from the workers compensation and liability analysis at the direction of the County.

The County also provided vehicles for 2019/20 and medical malpractice exposures for years through 2019/20. Payroll information used in the workers compensation analysis is from the County Annual Appropriation Bills. County revenue used in the general liability and other liability analysis is from the Comprehensive Annual Financial Report. Exposure projections are based on a 0% trend.

There were 596 claims in the liability loss data (total incurred of -\$1.5 million out of \$1.2 billion total incurred for the medical malpractice and liability programs) with coverage of “Recovery Claims”. These claims were not included in loss runs provided for prior studies and could not be assigned to any of the analyzed coverages; therefore, they were excluded from the current analysis. This did not have a material impact on the results of this study.

For automobile liability and general liability, the total paid and incurred amounts included expense amounts which averaged about \$25,000 per year for each coverage. These expense amounts were not included in the paid and incurred provided for prior studies. This did not have a material impact on the results of this study.

In conducting this analysis, we relied upon the provided data without audit or independent verification; however, we reviewed it for reasonableness and consistency. Any inaccuracies in quantitative data or qualitative representations could have a significant effect on the results of our review and analysis. Any material discrepancies discovered in the loss or exposure data by the County or any other parties should be reported to us immediately, and if warranted, we will make appropriate amendments to the report.

Analysis

In the current study, we performed a separate analysis for law enforcement liability claims. These claims were included with other liability in prior actuarial studies. This change did not have a material impact on the overall results of this study. However, the estimates and underlying data shown in this report for other liability are not comparable to our prior reports.

II. Objectives

The specific objectives of this study are the following:

1. **Estimate Outstanding Losses.** Estimate outstanding losses as of November 30, 2019, November 30, 2020, and November 30, 2021.

The estimated outstanding losses are the cost of unpaid claims. The estimated outstanding losses include case reserves, the development of known claims and incurred but not reported (IBNR) claims. The amounts are limited to the self-insured retention.

Estimated outstanding losses for workers compensation include allocated loss adjustment expenses (ALAE). ALAE are the direct expenses for settling specific claims. These expenses include outside legal defense fees, expert witness fees and court reporting fees. They do not include internal defense costs.

2. **Project Ultimate Limited Losses.** Project ultimate limited losses (including ALAE for workers compensation) for 2019/20, 2020/21, and 2021/22.

The projected ultimate limited losses are the accrual value of losses with accident dates during 2019/20, 2020/21, and 2021/22, regardless of report or payment date. The amounts are limited to the self-insured retention.

3. **Project Losses Paid.** Project losses paid (including ALAE for workers compensation) during the 2019/20, 2020/21, and 2021/22 claim periods.

The projected losses paid are the claim disbursements during 2019/20, 2020/21, and 2021/22, regardless of accident or report date. The amounts are limited to the self-insured retention.

4. **Affirm GASB Statement No. 10.** Provide a statement affirming the conclusions of this report are consistent with GASB Statement No. 10.

III. Conclusions

We have reached the following conclusions:

1. Estimate Outstanding Losses

We estimate outstanding losses as of November 30, 2019 to be as shown in Table III-1A. The estimated outstanding losses include case reserves, the development of known claims and IBNR claims. The amounts are limited to the self-insured retention.

**Table III-1A
Estimated Outstanding Losses
November 30, 2019**

Coverage (1)	Full Value			Present Value		
	Expected (2)	70% Level (3)	90% Level (4)	Expected (5)	70% Level (6)	90% Level (7)
I. Healthcare Facilities						
(Ai) Indemnity	\$17,777,576	\$20,266,437	\$25,777,485	\$16,801,217	\$19,153,387	\$24,361,765
(Aii) Medical	4,486,350	5,114,439	6,505,208	4,178,988	4,764,046	6,059,533
(A) Workers Compensation	\$22,263,926	\$25,380,876	\$32,282,693	\$20,980,205	\$23,917,434	\$30,421,297
(Bi) Cermak	7,154,000	8,370,180	11,303,320	6,821,936	7,981,665	10,778,659
(Bii) John H. Stroger	133,381,001	156,055,771	210,741,982	128,506,733	150,352,878	203,040,638
(Biii) Oak Forest	90,000	105,300	142,200	84,382	98,727	133,324
(Biv) Provident	9,710,000	11,360,700	15,341,800	9,234,330	10,804,166	14,590,241
(Bv) Unspecified	126,785	148,338	200,320	121,017	141,590	191,207
(B) Medical Malpractice	\$150,461,786	\$176,040,290	\$237,729,622	\$144,768,398	\$169,379,026	\$228,734,069
(C) Claim Expense	2,823,557	3,218,855	4,094,158	2,716,715	3,097,055	3,939,237
(D) Subtotal	\$175,549,269	\$204,640,020	\$274,106,472	\$168,465,318	\$196,393,515	\$263,094,603
II. General Government						
(Ei) Indemnity	\$96,726,171	\$110,267,835	\$140,252,948	\$90,864,501	\$103,585,531	\$131,753,526
(Eii) Medical	34,168,144	38,951,684	49,543,809	32,146,540	36,647,056	46,612,483
(E) Workers Compensation	\$130,894,315	\$149,219,519	\$189,796,757	\$123,011,041	\$140,232,587	\$178,366,009
(F) General liability	1,749,085	1,993,957	2,536,173	1,705,845	1,944,663	2,473,475
(G) Automobile liability	6,459,537	7,363,872	9,366,329	6,302,185	7,184,491	9,138,168
(H) Law enforcement liability	101,095,232	118,281,421	159,730,467	95,725,722	111,999,095	151,246,641
(I) Other liability	118,738,816	138,924,415	187,607,329	111,911,199	130,936,103	176,819,694
(J) Claim Expense	64,926,258	74,015,934	94,143,073	61,396,490	69,991,999	89,024,911
(K) Subtotal	\$423,863,243	\$489,799,118	\$643,180,128	\$400,052,482	\$462,288,938	\$607,068,899
(L) Total	\$599,412,512	\$694,439,138	\$917,286,600	\$568,517,801	\$658,682,452	\$870,163,503

Note: (2) and (5) are from Summary Exhibit 1.
(3), (4), (6), and (7) are based on actuarial judgment.

The present value of the estimated outstanding losses is the estimated outstanding losses discounted to reflect future investment earnings. It is based on a 1.61% interest rate, as provided by the County.

The discount rate used in the prior year's analysis was 2.83%. The decrease in discount rate had the impact of increasing the discounted reserves about \$21 million.

Undiscounted outstanding losses increased from \$516.2 million as of November 30, 2018, to \$599.4 million as of November 30, 2019. A comparison of case reserves, IBNR, and total outstanding losses (excluding claim expense reserves) from the prior actuarial study to the current study is shown in Table III-1B.

Table III-1B
Comparison of Outstanding Loss Components (\$000s)
November 30, 2018 to November 30, 2019
All Coverages Combined
(Excluding Claim Expense Reserves)

Claim Period (1)	As of 11/30/18			As of 11/30/19			Change		
	Case Reserves (2)	IBNR (3)	Total (4)	Case Reserves (5)	IBNR (6)	Total (7)	Case Reserves (8)	IBNR (9)	Total (10)
to 1999/00	\$17,710	\$2,057	\$19,767	\$20,764	\$609	\$21,373	\$3,054	(\$1,447)	\$1,607
2000/01	993	366	1,359	1,953	94	2,047	960	(272)	688
2001/02	734	166	900	707	79	785	(27)	(87)	(115)
2002/03	502	128	631	236	53	289	(267)	(75)	(342)
2003/04	809	193	1,003	946	145	1,091	137	(49)	88
2004/05	31,489	3,320	34,809	23,188	318	23,506	(8,301)	(3,001)	(11,302)
2005/06	2,161	972	3,133	2,330	594	2,925	169	(378)	(208)
2006/07	1,093	656	1,749	4,104	393	4,497	3,011	(263)	2,748
2007/08	1,222	704	1,926	1,764	656	2,420	542	(47)	494
2008/09	1,748	1,464	3,212	6,334	807	7,141	4,586	(657)	3,930
2009/10	2,207	1,260	3,467	1,784	841	2,624	(424)	(419)	(843)
2010/11	22,939	5,371	28,310	2,482	1,308	3,790	(20,457)	(4,063)	(24,520)
2011/12	6,266	4,517	10,783	4,079	2,597	6,676	(2,188)	(1,919)	(4,107)
2012/13	53,657	5,894	59,551	40,743	4,315	45,058	(12,914)	(1,579)	(14,494)
2013/14	16,162	12,032	28,194	31,940	10,029	41,969	15,778	(2,003)	13,775
2014/15	43,617	13,228	56,845	63,256	9,730	72,986	19,639	(3,498)	16,141
2015/16	35,687	21,639	57,326	39,048	13,784	52,832	3,361	(7,855)	(4,493)
2016/17	30,288	36,876	67,164	43,403	23,664	67,067	13,115	(13,213)	(97)
2017/18	25,769	53,937	79,706	39,264	38,255	77,519	13,495	(15,682)	(2,187)
2018/19				31,342	63,724	95,067	31,342	63,724	95,067
Total	\$295,054	\$164,780	\$459,834	\$359,666	\$171,997	\$531,663	\$64,612	\$7,217	\$71,829

Note: (2) through (4) are from the prior actuarial study.
(5) through (7) are from Summary Exhibit 11.

A comparison of estimated outstanding losses as of November 30, 2018 and November 30, 2019 is shown in Summary Exhibit 2. Detail by year and coverage is provided in Summary Exhibits 10 through 23.

Case reserves are up \$65 million from our prior analysis. Most of this increase was driven by a few large medical malpractice and other liability claims along with a more general increase for workers compensation.

For workers compensation, total case reserves increased by almost \$22 million compared to the prior study. Unlike medical malpractice and other liability, this increase was not driven by a few large claims, but rather by increases in the average case reserves on many claims. The County informed us that it has been aggressively working on improving case reserve adequacy and preventing stair-stepping of reserves. These changes were considered in our analysis and are reflected in the results of this study.

Estimated outstanding losses as of November 30, 2020, and November 30, 2021 are shown in Summary Exhibit 1.

Summary Exhibit 4 divides the estimated outstanding losses and projected ultimate losses for the liability coverages among Healthcare and Government. The estimates are split based on the distribution of: i) fiscal year 2018/19 payments, ii) case reserves, and iii) cumulative reported incurred amounts as of November 30, 2019.

In summary, the expected (or central estimate) discounted reserves are up from \$472 million in last year's study to \$569 million in this year's study. The increase is driven by a substantial increase in case reserves for the medical malpractice, other liability and workers compensation segments.

2. Project Ultimate Limited Losses

We project ultimate limited losses for 2019/20 to be as shown in Table III-2. The projected ultimate limited losses are the accrual value of losses with accident dates during 2019/20 regardless of report or payment date.

**Table III-2
Projected Ultimate Losses
2019/20**

Coverage (1)	Full Value			Present Value		
	Expected (2)	70% Level (3)	90% Level (4)	Expected (5)	70% Level (6)	90% Level (7)
I. Healthcare Facilities						
(Ai) Indemnity	\$3,163,000	\$3,700,710	\$4,997,540	\$2,969,000	\$3,473,730	\$4,691,020
(Aii) Medical	<u>1,214,000</u>	<u>1,420,380</u>	<u>1,918,120</u>	<u>1,159,000</u>	<u>1,356,030</u>	<u>1,831,220</u>
(A) Workers Compensation	\$4,377,000	\$5,121,090	\$6,915,660	\$4,128,000	\$4,829,760	\$6,522,240
(Bi) Cermak	1,666,000	1,999,200	2,932,160	1,509,000	1,810,800	2,655,840
(Bii) John H. Stroger	17,264,000	20,716,800	30,384,640	15,640,000	18,768,000	27,526,400
(Biii) Oak Forest	16,000	19,200	28,160	14,000	16,800	24,640
(Biv) Provident	1,723,000	2,067,600	3,032,480	1,561,000	1,873,200	2,747,360
(Bv) Unspecified	<u>19,000</u>	<u>22,800</u>	<u>33,440</u>	<u>18,000</u>	<u>21,600</u>	<u>31,680</u>
(B) Medical Malpractice	\$20,688,000	\$24,825,600	\$36,410,880	\$18,742,000	\$22,490,400	\$32,985,920
(C) Subtotal	\$25,065,000	\$29,946,690	\$43,326,540	\$22,870,000	\$27,320,160	\$39,508,160
II. General Government						
(Di) Indemnity	\$29,015,000	\$33,947,550	\$45,843,700	\$27,143,000	\$31,757,310	\$42,885,940
(Dii) Medical	<u>10,110,000</u>	<u>11,828,700</u>	<u>15,973,800</u>	<u>9,654,000</u>	<u>11,295,180</u>	<u>15,253,320</u>
(D) Workers Compensation	\$39,125,000	\$45,776,250	\$61,817,500	\$36,797,000	\$43,052,490	\$58,139,260
(E) General liability	452,000	528,840	714,160	431,000	504,270	680,980
(F) Automobile liability	2,109,000	2,467,530	3,332,220	2,024,000	2,368,080	3,197,920
(G) Law enforcement liability	16,313,000	19,575,600	28,710,880	14,891,000	17,869,200	26,208,160
(H) Other liability	16,869,000	20,242,800	29,689,440	15,398,000	18,477,600	27,100,480
(I) Subtotal	\$74,868,000	\$88,591,020	\$124,264,200	\$69,541,000	\$82,271,640	\$115,326,800
(J) Total	\$99,933,000	\$118,537,710	\$167,590,740	\$92,411,000	\$109,591,800	\$154,834,960

Note: (2) and (5) are from Summary Exhibit 3.
(3), (4), (6), and (7) are based on actuarial judgment.

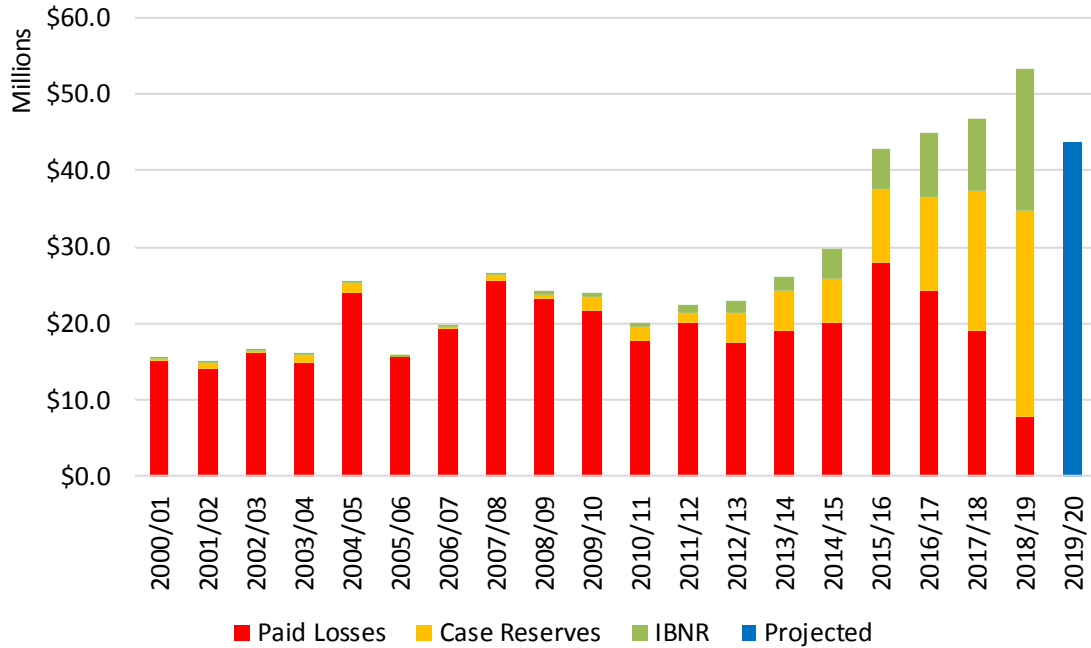
The present value of the estimated outstanding losses is the estimated outstanding losses discounted to reflect future investment earnings. It is based on a 1.61% interest rate, as provided by the County.

Projected ultimate losses for 2020/21 and 2021/22 are shown in Summary Exhibit 3.

Summary Exhibit 10 shows the change in estimates from last year (inclusive of last year's forecast estimate for the 2018/19 claim period). On this basis, our ultimate loss and ALAE estimates for all years through the 2018/19 claim period are up by approximately \$70 million, or 3.6%. The overall increase in estimates is driven largely by increases in estimates for workers compensation, law enforcement liability, other liability, and Stroger Hospital.

Graph III-1 shows the projected ultimate workers compensation losses (health care facilities and general government combined).

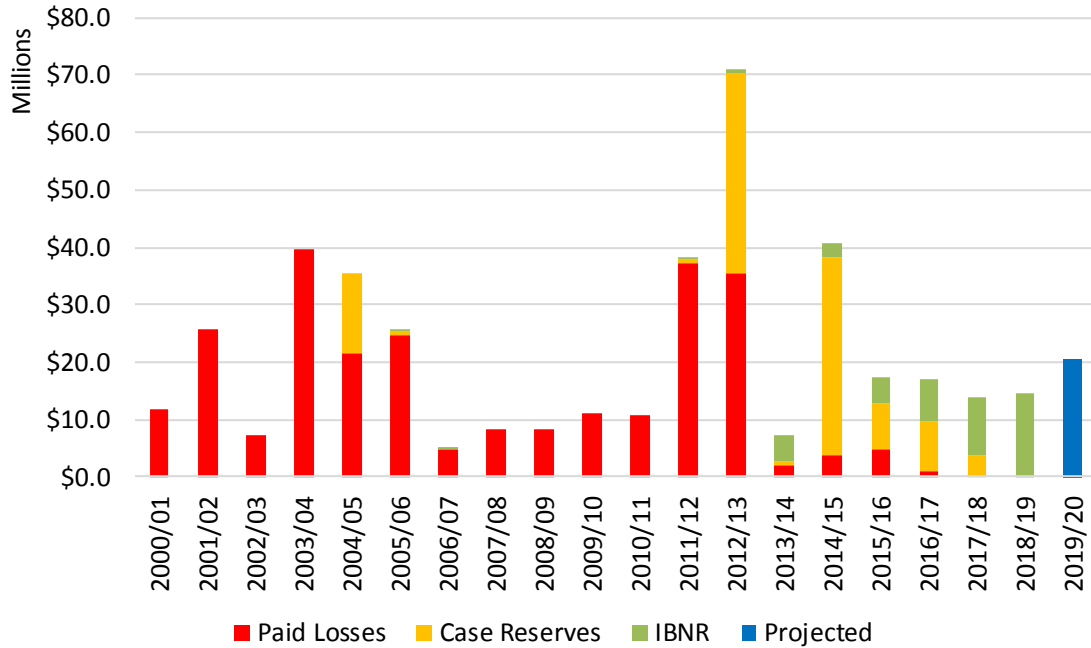
Graph III-1
Composition of Projected Ultimate Limited Losses
Workers Compensation



For years through 2017/18, the estimate of the ultimate workers compensation losses has increased by 0.2% from the prior report.

Graph III-2 shows the projected ultimate medical malpractice losses (all hospitals combined).

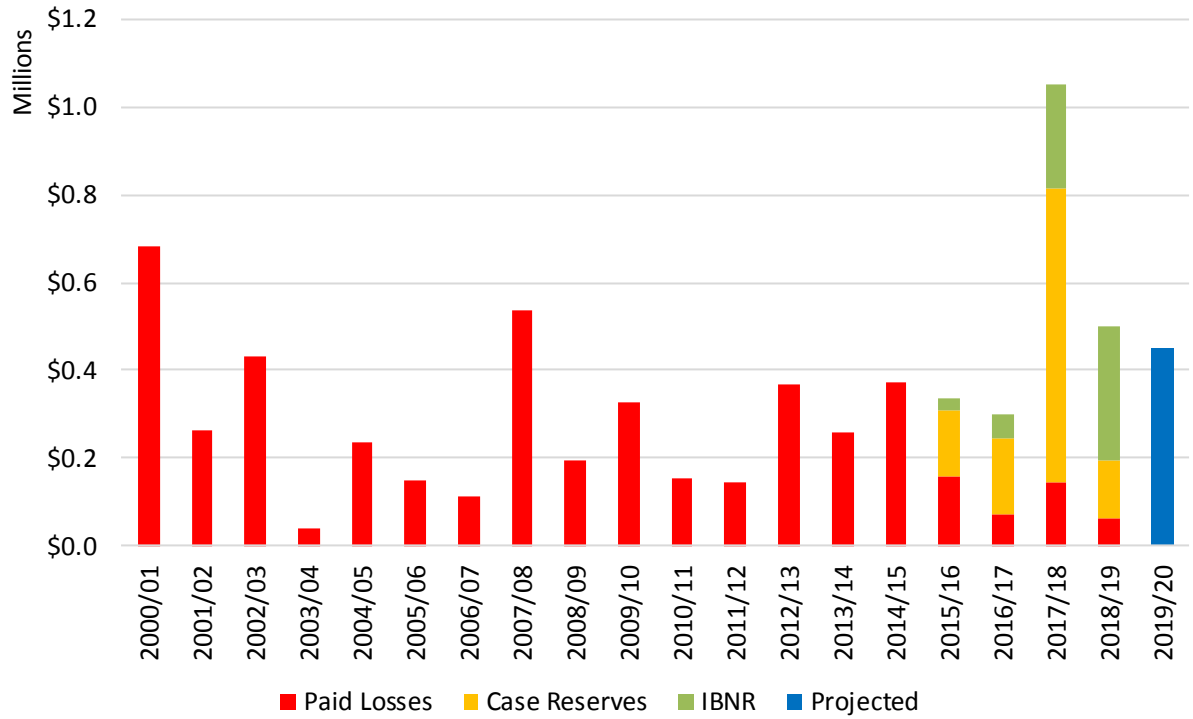
Graph III-2
Composition of Projected Ultimate Limited Losses
Medical Malpractice



For years through 2017/18, the estimate of the ultimate medical malpractice losses has increased by 2.5% from the prior report. We note that there is one open claim in 2012/13 with incurred losses in excess of the County's retention.

Graph III-3 shows the projected ultimate general liability losses.

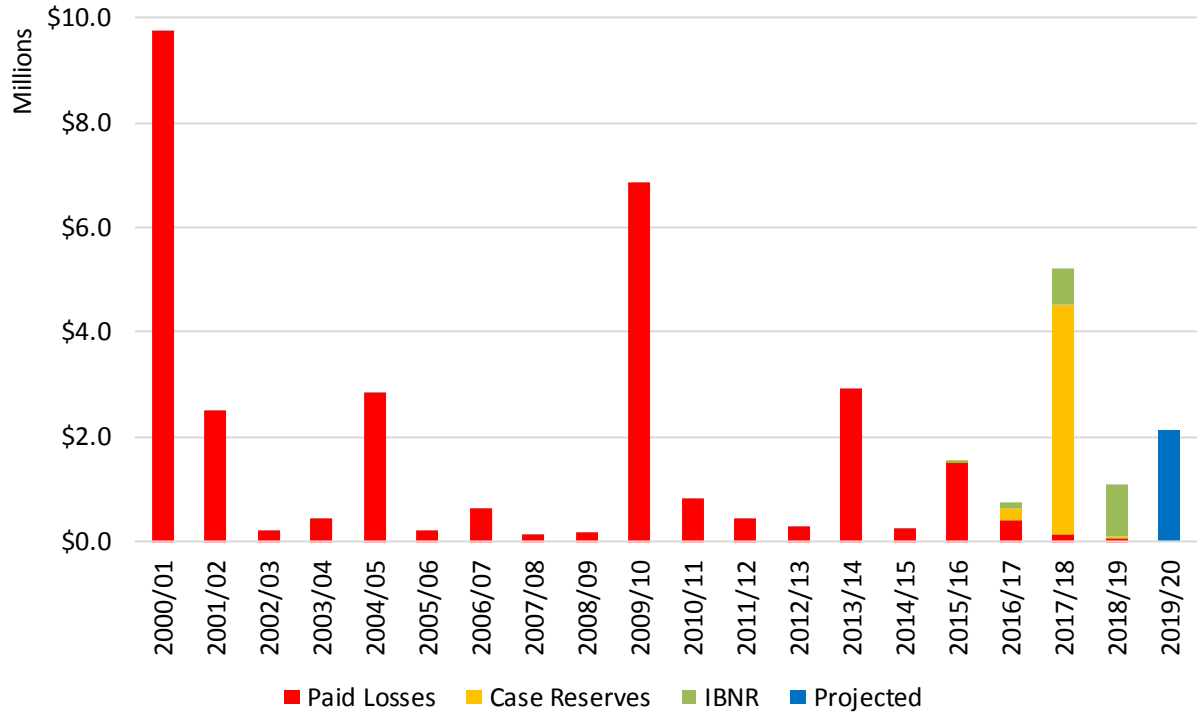
Graph III-3
Composition of Projected Ultimate Limited Losses
General Liability



For years through 2017/18, the estimate of the ultimate general liability losses has increased by 8.5% from the prior report. The increase is driven by an increase in case reserves on a large 2017/18 claim.

Graph III-4 shows the projected ultimate automobile liability losses.

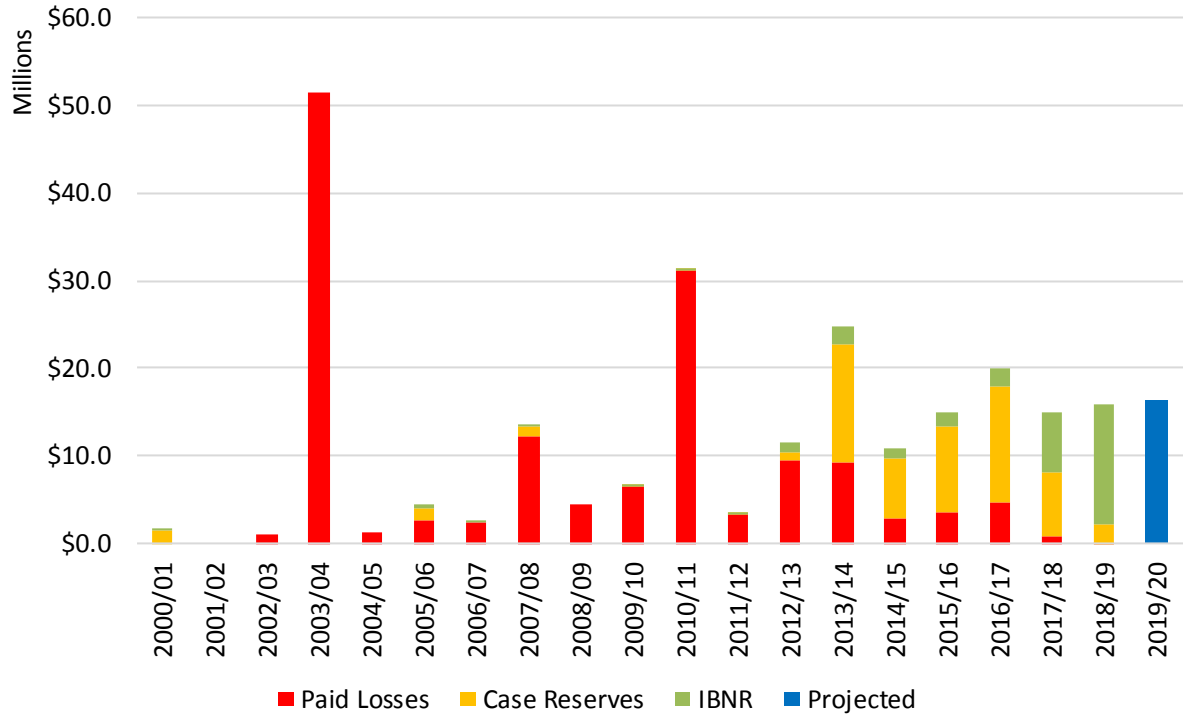
Graph III-4
Composition of Projected Ultimate Limited Losses
Automobile Liability



For years through 2017/18, the estimate of the ultimate automobile liability losses has increased by 9.2% from the prior report. This increase was driven by an increase of \$3.8 million in one 2017/18 claim.

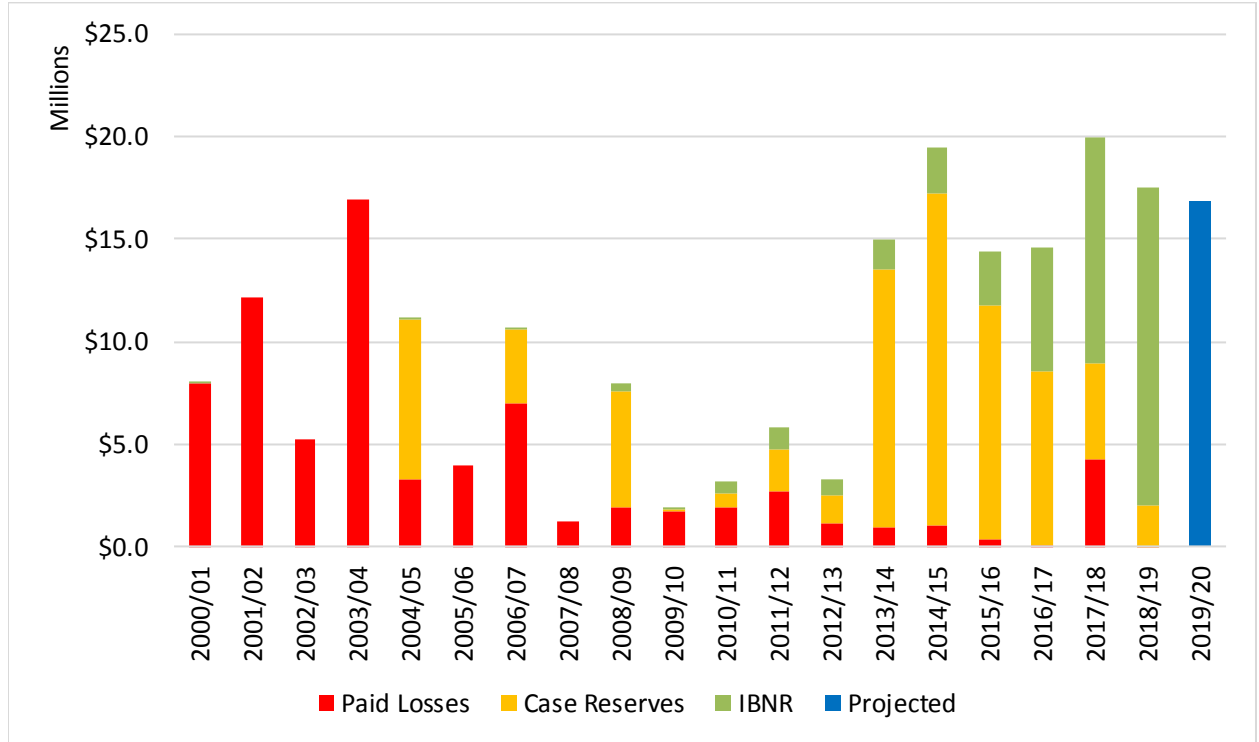
Graph III-5 shows the projected ultimate law enforcement liability losses.

Graph III-5
Composition of Projected Ultimate Limited Losses
Law Enforcement Liability



Graph III-6 shows the projected ultimate other liability losses.

Graph III-6
Composition of Projected Ultimate Limited Losses
Other Liability



For years through 2017/18 for law enforcement liability and other liability combined (i.e., on a consistent basis with the estimate in the prior study), the estimate has increased by 8.5% from the prior report. This increase was driven by three claims which had an increase in incurred of at least \$5 million each, and two newly reported claims with incurred of \$5 million each.

We note that employment practices liability comprises almost 90% of the Other Liability claim counts and reported incurred amounts for the last ten years (2009/10 through 2018/19).

3. Project Losses Paid

We project losses paid during 2019/20 through 2021/22 to be as shown in Table III-3. The projected losses paid are the claim disbursements during 2019/20, 2020/21, and 2021/22, regardless of accident or report date.

**Table III-3
Projected Losses Paid
2019/20, 2020/21, and 2021/22**

Coverage (1)	2019/20 (2)	2020/21 (3)	2021/22 (4)
I. Healthcare Facilities			
(Ai) Indemnity	\$3,919,922	\$3,771,154	\$3,662,280
(Aii) Medical	<u>1,792,760</u>	<u>1,487,622</u>	<u>1,384,731</u>
(A) Workers Compensation	\$5,712,682	\$5,258,776	\$5,047,011
(Bi) Cermak	1,605,074	1,149,829	1,189,414
(Bii) John H. Stroger	45,863,045	23,465,549	19,720,481
(Biii) Oak Forest	5,257	11,153	15,009
(Biv) Provident	1,425,335	1,855,510	2,043,046
(Bv) Unspecified	<u>32,012</u>	<u>17,637</u>	<u>21,285</u>
(B) Medical Malpractice	\$48,930,723	\$26,499,678	\$22,989,235
(C) Subtotal	\$54,643,405	\$31,758,454	\$28,036,246
II. General Government			
(Di) Indemnity	\$25,942,022	\$26,840,434	\$27,592,206
(Dii) Medical	<u>11,822,866</u>	<u>11,285,923</u>	<u>11,040,452</u>
(D) Workers Compensation	\$37,764,888	\$38,126,357	\$38,632,658
(E) General liability	677,654	639,186	593,428
(F) Automobile liability	2,867,380	3,029,061	2,226,916
(G) Law enforcement liability	12,565,798	13,046,173	13,590,293
(H) Other liability	10,626,555	11,302,303	11,878,597
(I) Subtotal	\$64,502,275	\$66,143,080	\$66,921,892
(J) Total	\$119,145,680	\$97,901,534	\$94,958,138

Note: (2) through (4) are from Summary Exhibit 5.

We note that there are several large open claims with case reserves over \$10 million each (four medical malpractice, two law enforcement liability, and two other liability). The actual payments will differ from our projections depending on when, and if, these large payments are made and the amount of final settlement.

4. Affirm GASB Statement No. 10

We affirm the conclusions of this report are consistent with GASB Statement No. 10.

Appendix A
Conditions and Limitations

Conditions and Limitations

It is important to understand the conditions and limitations listed below. Each chapter and section is an integral part of the whole study. If there are questions, please contact Aon Global Risk Consulting for clarification.

- **Data Quality.** We relied upon data provided by the organization shown on the transmittal page or its designated agents. The data was used without verification or audit, other than checks for reasonableness. Unless otherwise stated, we assumed the data to be correct and complete.
- **Economic Environment.** Unless otherwise stated, we assumed the current economic conditions will continue in the foreseeable future.
- **Insurance Coverage.** Unless otherwise stated, we assumed no insurance coverage changes (including coverage provided by the organization to others) subsequent to the date this study was prepared. This includes coverage language, self-insured retention, limitations and similar issues.
- **Insurance Solvency.** Unless otherwise stated, we assumed all insurance purchased by the organization is from solvent sources payable in accordance with terms of the coverage document.
- **Interest Rate.** The exhibits specify the annual interest rate used.
- **Methodology.** In this study, different actuarial methods were applied. In some instances, the methods yield significantly disparate results. The estimates, projections and recommendations in this study reflect our judgments as to the best method or combination of methods that are most reliable and reflective of the exposure to loss.
- **Reproduction.** This study may only be reproduced in its entirety.
- **Risk and Variability.** Insurance is an inherently risky enterprise. Actual losses may vary significantly from our estimates, projections and recommendations. They may emerge higher or lower.
- **Statutory and Judicial Changes.** Legislatures and judiciaries may change statutes that govern indemnification. This includes benefit levels for workers compensation, immunities and limitations for liability, and other similar issues. Unless otherwise stated, we assumed no statutory changes subsequent to the date this study was prepared.
- **Supplemental Data.** In addition to the data provided by the

organization, we supplemented our analysis with data from similar organizations and insurance industry statistics, as we deemed appropriate.

- **Usage.** This study has been prepared for the usage of the organization shown on the transmittal page. It was not prepared for and may not be appropriate for use by other organizations. Other organizations should obtain written permission from Aon Global Risk Consulting prior to use of this study.

Risks and Uncertainties

The greatest uncertainties in our analysis are summarized below:

- The County has high to unlimited retentions for their exposures to loss. Projections and reserve estimates for very large claims are subject to much greater uncertainty at the County's retention levels. It generally takes much longer for large claims to finally settle. These large claims can be quite complex and much more difficult and uncertain in predicting final outcomes. The dollar impact of a relatively few very large claims can have a disproportionate impact on our aggregate estimates of liability.
- Tail development factor beyond 10 years. The tail development factor influences all claim period's loss estimates. Small changes in the tail factor are leveraged in our estimates.
- Reserves for the most recent claim periods are very dependent on "a priori" assumptions as the claims for these periods have not been fully digested at early evaluations. These "a priori" assumptions are largely dependent on historical patterns. If the historical patterns do not prove to be predictive of the losses for the more current years, our estimates will be biased.
- A significant class of large claims related to the other liability and law enforcement liability segments have been newly reported or significantly revalued over the last few years. These claims are in an early stage of valuation at this point. As a result, there is additional uncertainty around this set of claims' ultimate values.

We believe we have made prudent selections based on the reviewed data as of November 30, 2019. Cook County should be aware that these critical assumptions could significantly influence our estimates up or down.

Appendix B
Glossary of Actuarial Terms

Glossary of Actuarial Terms

Actuarial Methods (Most Common)

A major objective of an actuarial study is to statistically project ultimate losses. The following actuarial methods are the most common:

- Developed Paid Losses
- Developed Reported Incurred Losses
- Developed Case Reserves
- Frequency Times Severity Analysis
- Loss Rate Analysis

The following describes each method:

1. **Developed Paid Losses.** Paid losses represent the amounts actually paid to claimants (less excess insurance recoveries). As time goes on, loss payments continue until all claims are closed and there are no remaining payments expected. At this time, the ultimate losses for the claim period are known. This common process is called “paid loss development.”

Paid loss development is an extrapolation of actual dollars paid. It does not depend on case reserve estimates. A potential shortcoming of utilizing this method is that only a small fraction of total payments have been made for the most recent claim periods. Extrapolating ultimate losses based on small amounts of actual payments may be speculative. A second potential shortcoming is that payment patterns can change over time.

2. **Developed Reported Incurred Losses.** Reported incurred losses are paid losses plus case reserves. In most programs, total reported incurred losses underestimate the ultimate losses. Over time, as more information about a body of claims becomes known, they are adjusted either up or down until they are closed. Though many individual claims settle for less than what was estimated, these decreases are generally more than offset by increases in the cost of other claims for which new information has emerged.

The net effect is that total estimated costs are often revised upward over time. This normal process is called “reported incurred loss development.” Actuaries typically review the development patterns of the recent past to make projections of the expected future loss development and, therefore, estimations of ultimate losses.

3. **Developed Case Reserves.** The developed case reserves method is a hybrid of the paid loss development and reported incurred loss development methods. It relies on the historical adequacy of case reserves to predict ultimate losses.
4. **Frequency Times Severity Analysis.** The frequency times severity analysis is an actuarial method that uses a preliminary projection of ultimate losses to project claims severity. The claims severity times the number of claims is a predictor of ultimate losses. The focus of the frequency times severity analysis is that ultimate losses each period are dependent on the number of claims.
5. **Loss Rate Analysis.** The loss rate analysis is based on the historical loss rates per exposure unit (such as payroll, vehicles or property value). The loss rates (projected ultimate losses divided by exposure units) are trended to reflect the effect of claim cost inflation and retention changes. The trended loss rates represent the rates that one would see if all of the claims had been handled in the claim cost environment that will be present in the upcoming period. The trended loss rate times the projected exposure units is a predictor of losses.
6. **Bornhuetter-Ferguson Method (B-F).** The B-F method is an actuarial method that weights a preliminary projection of ultimate losses with projections of ultimate losses determined by other actuarial methods (usually the developed paid losses and developed reported incurred losses methods). For less mature claim periods, the B-F method leans more heavily to the preliminary projection. It gradually converges to the projections of ultimate losses determined by the other actuarial methods as the claim periods mature.

Actuary

A specialist trained in mathematics, statistics, and finance who is responsible for rate, reserve, and dividend calculations and other statistical studies.

Allocated Loss Adjustment Expenses

Allocated loss adjustment expenses (ALAE) are the direct expenses to settle specific claims. These expenses are primarily legal expenses.

Governmental Accounting Standards Board (GASB) Statement No. 10 requires that ALAE be included in financial statements and that they be calculated by actuarial methods.

American Academy of Actuaries

A society concerned with the development of education in the field of actuarial science and with the enhancement of standards in the actuarial field. Members may use the designation MAAA (Member, American Academy of Actuaries).

Benefits

The financial reimbursement and other services provided insureds by insurers under the terms of an insurance contract. An example would be the benefits listed under a life or health insurance policy or benefits as prescribed by a workers compensation law.

Casualty Actuarial Society

A professional society for actuaries in areas of property and casualty insurance work. This society grants the designation of Associate of the Casualty Actuarial Society (ACAS) and Fellow of the Casualty Actuarial Society (FCAS).

Claim

Demand by an individual or entity to recover for a loss.

Claims Made

A policy written on this basis covers only those claims that are made during the policy period. Coverage for prior acts is provided back to what is known as the retroactive date, which is the effective date of the original claims made policy with the same insurer.

Composite Rate

A single rate with a single basis of premium (e.g., payroll or sales). For this single rate the insured is covered for a variety of hazards, such as premises and operations, completed operations, products liability, and automobile. Its primary value is to compute premium simply.

Confidence Level

A confidence level is the statistical certainty that an actuary believes funding will be sufficient. For example, an 80% confidence level means that the actuary believes funding will be sufficient in eight years out of ten.

Confidence levels are determined based on mathematical models. Coverages that are low frequency and high severity (such as excess liability) are subject to greater risk than coverages that are high frequency and low severity (such as automobile physical damage). Therefore, they need a greater margin to attain a given confidence level.

GASB Statement No. 10 requires public entities to use “expected” amounts as a liability in financial statements. Expected corresponds to approximately a 55% confidence level. Amounts above expected are prudent, but should be considered equity (not a liability).

Coverage

The scope of the protection provided under a contract of insurance.

Credibility

Credibility is the belief that the sample data is an accurate reflection of the larger population. Credibility is highest when the sample data is large and the standard deviation (discussed later) of the larger population is low.

Dates

There are at least three milestone dates in a claim. They are the date of injury or accident, the date of report and the date of closure. It is best if each of these dates is recorded. Some organizations may also keep the date a claim becomes a lawsuit, as opposed to a demand. Aon Global Risk Consulting recommends this additional level of detail, especially if the data is to be used for litigation management.

Deductible

The portion of an insured loss to be borne by the insured before he is entitled to recovery from the insurer. Deductibles may be expressed as a dollar amount, percentage or waiting period.

Disability

A condition that curtails a person's ability to carry on his normal pursuits. A disability may be partial or total, and temporary or permanent.

Dividend (Policyholder)

The return of part of the premium paid for a policy issued on a participating basis by either a mutual or a stock insurer.

Estimated Outstanding Losses

Estimated outstanding losses are the cost of claims that have occurred but have not yet been paid. They typically include indemnification and allocated loss adjustment expenses (ALAE), but not unallocated loss adjustment expenses (ULAE).

Estimated outstanding losses are calculated as projected ultimate losses less paid losses. Alternatively, they are the sum of case reserves and incurred but not reported (IBNR) claims.

Estimated outstanding losses are usually the largest single item listed as a liability on the balance sheet of a public entity's financial statement. GASB Statement No. 10 requires they be calculated by actuarial methods. Other common names for estimated outstanding losses are outstanding claims liabilities and unpaid claims.

Experience Rating

A method of adjusting the premium for a risk based on past loss experience for that risk compared to loss experience for an average risk.

Exposure Data

Exposure data refers to the activities of the organization. For example, payroll is the most common exposure measure for workers compensation. Aon Global Risk Consulting suggests collecting exposure data with the following characteristics:

- **Readily Available.** The exposure data should be easily obtained. It is best if it is a byproduct of other activities, although this is not always possible. If getting data is arduous, it may discourage collection.
- **Vary With Losses.** The exposure data should correlate directly with losses. The ideal situation is where exposure and expected losses move in tandem. The exposure base needs to be fitting to the coverage. For example, the number of employees may vary with property losses (more employees = more office space = more losses), but property value is a clearly superior exposure base for property losses.

Generally Accepted Accounting Principles (GAAP)

These principles are intended to produce financial results (in the insurance industry) consistent with those of other industries and to assure consistency in financial reporting.

Incurred But Not Reported

IBNR is really comprised of two distinct items. These are the development of known case reserves (incurred but not enough reported [IBNER] and incurred but not yet reported [IBNYR]).

IBNER are the actuary's estimate of the inadequacy of case reserves. Most claims settle at amounts close to what is set by the claims administrator. Some claims close favorably and some emerge as more expensive. On balance, case reserves tend to be too low

(especially for recent years). IBNER is the actuary's estimate of the amount total case reserves will rise upon closure.

IBNYR refers to those claims that have occurred, but have not yet been reported. A classic example is medical malpractice claim reported several years after the medical procedure was performed.

Insurance Services Office (ISO)

An organization of the property and casualty insurance business designed to gather statistics, promulgate rates, and develop policy forms.

Investment Income

The return received by entities from their investment portfolios, including interest, dividends and realized capital gains on stocks. Realized capital gains means the profit realized on assets that have actually been sold for more their purchase price.

Limited

Most programs purchase excess insurance for catastrophic claims. For example, they may purchase coverage for claims above a \$500,000 per occurrence self-insured retention. "Limited" refers to an estimate or projection being limited to the self-insured retention. In contrast, "unlimited" means a loss projection not limited to the self-insured retention.

Other common names for limited are net of excess insurance or capped losses.

Loss Development

The difference between the amount of losses initially estimated by the insurer and the amount reported in an evaluation on a later date. Loss development is typically measured for paid losses, reported incurred losses and claim counts.

Manual Rates

Usually, the published rate for some unit of insurance. An example is in the workers compensation manual, where the rates shown apply to each \$100 of the payroll of the insured, \$100 being the "unit."

National Council on Compensation Insurance (NCCI)

An association of workers compensation insurance companies whose main functions are collecting statistics and calculating rates, establishing policy wording, developing experience and retrospective rating plans, and serving as the filing organization for member companies.

Net

Many pooling programs assign deductibles to members. For example, each member may have a \$5,000 per claim deductible. “Net” refers to a loss estimate or projection that excludes amounts below member deductibles.

Occurrence

An event that results in an insured loss. In some lines of insurance, such as general liability, it is distinguished from accident in that the loss does not have to be sudden and fortuitous and can result from continuous or repeated exposure that results in bodily injury or property damage neither expected nor intended by the insured.

Pool

An organization of entities through which particular types of risks are written with the premiums, losses, and expenses shared in agreed amounts among the members belonging to the organization.

Premium

The price of insurance protection for a specified risk for a specified period of time.

Present Value

The amount of money that future amounts receivable are currently worth. For example, a Life Insurance policy may provide for payments to be made monthly for ten years. The present value of that money would be less than the total amount of the regular periodic payments for 10 years because of the amount of interest that a present lump sum could earn during the term than the payments otherwise would have been made.

Probability

The probability is the likelihood of an event. It is a measure of how likely a value or event is to occur. It can be measured from data by calculating the number of occurrences of the value or event divided by the total number of occurrences. This calculation can be converted to a percentage. For example, tossing a coin has a 50% probability of heads or tails.

Projected Losses Paid

Projected losses paid are the projected claims disbursements in a period, regardless of when the claim occurred. They typically include indemnification and ALAE, but not unallocated loss adjustment expenses (ULAE).

“Projected losses paid” is a cash-flow analysis that can be used in making investment decisions.

Projected Ultimate Losses

Projected ultimate losses are the accrual value of claims. They are the total amount that is expected to be paid in a particular claim period after all claims are closed. Projected ultimate losses are the total loss costs for a particular period. They typically include indemnification and ALAE, but not ULAE.

Other common names for projected ultimate losses are expected losses, ultimate losses and total losses.

Rate

The cost of a given unit of insurance. For example, in life insurance, it is the price of \$1,000 of the face amount. In property insurance, it is the rate per \$100 of value to be insured. The premium is the rate multiplied by the number of units of insurance purchased.

Retrospective Rating

A method for which the final premium is not determined until the end of the coverage period, and is based on the insured's own loss experience for that same period. It is usually subject to a maximum and minimum premium. A plan of this type can be used in various types of insurance, especially workers compensation and liability, and is usually elected by only very large insureds.

Salvage

Property taken over by an entity to reduce its loss. Automobile physical damage losses can be reduced by the sale of recovered vehicles.

Schedule Rating

The application of debits or credits within established ranges for various characteristics of a risk according to an established schedule of items. Under liability and automobile insurance, the schedule rating plan allows credits and debits for various good or bad

features of a particular commercial risk. An example in automobile schedule rating would be allowing credits for driver training classes or fleet maintenance programs.

Self-Insurance Retention (SIR)

That portion of a risk or potential loss assumed by an insured. It is often in the form of a per occurrence deductible.

Society of Actuaries (SOA)

A professional society for actuaries in areas of pensions, and life and health insurance work. The SOA grants the designation Associate of the Society of Actuaries (ASA) and Fellow of the Society of Actuaries (FSA).

Standard Premium

Most often used in connection with retrospective rating for Workers Compensation and General Liability Insurance. It is the premium of which the basic premium is a percentage and is developed by applying the regular rates to an insured's payroll.

State Fund

A fund set up by a state government to finance a mandatory insurance system, such as Workers Compensation or non-occupational disability benefits. Such a fund may be monopolistic, i.e., purchasers of the type of insurance required must place it in the state fund; or it may be competitive, i.e., an alternative to private insurance if the purchaser desires to use it.

Statutory Accounting Principles (SAP)

Those principles required by statute that must be followed by an insurance company or other similar entity when submitting its financial statement to the state insurance department. Such principles differ from (GAAP) in some important respects. For one thing SAP requires that expenses must be recorded immediately and cannot be deferred to track with premiums as they are earned and taken into revenue.

Unallocated Loss Adjustment Expenses

Unallocated loss adjustment expenses (ULAE) are the indirect expenses to settle claims. These expenses are primarily administration and claims handling expenses.

GASB Statement No. 10 requires that ULAE be included in financial statements and that they be calculated by actuarial methods.

Appendix C

Exhibits

Exhibits

The attached exhibits detail our analysis.

Estimated Outstanding Losses

A. Estimated Outstanding Losses as of 11/30/19

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$17,777,576	\$20,266,437	\$25,777,485	\$16,801,217	\$19,153,387	\$24,361,765
(Aii) WC - Medical	4,486,350	5,114,439	6,505,208	4,178,988	4,764,046	6,059,533
(A) Workers compensation	\$22,263,926	\$25,380,876	\$32,282,693	\$20,980,205	\$23,917,434	\$30,421,297
(Bi) Cermak	7,154,000	8,370,180	11,303,320	6,821,936	7,981,665	10,778,659
(Bii) John H. Stroger	133,381,001	156,055,771	210,741,982	128,506,733	150,352,878	203,040,638
(Biii) Oak Forest	90,000	105,300	142,200	84,382	98,727	133,324
(Biv) Provident	9,710,000	11,360,700	15,341,800	9,234,330	10,804,166	14,590,241
(Bv) Unspecified	126,785	148,338	200,320	121,017	141,590	191,207
(B) Medical malpractice	\$150,461,786	\$176,040,290	\$237,729,622	\$144,768,398	\$169,379,026	\$228,734,069
(C) Claim Expense Reserves	2,823,557	3,218,855	4,094,158	2,716,715	3,097,055	3,939,237
(D) Subtotal	\$175,549,269	\$204,640,020	\$274,106,472	\$168,465,318	\$196,393,515	\$263,094,603
II. General Government						
(Ei) WC - Indemnity	96,726,171	110,267,835	140,252,948	90,864,501	103,585,531	131,753,526
(Eii) WC - Medical	34,168,144	38,951,684	49,543,809	32,146,540	36,647,056	46,612,483
(E) Workers compensation	\$130,894,315	\$149,219,519	\$189,796,757	\$123,011,041	\$140,232,587	\$178,366,009
(F) General liability	1,749,085	1,993,957	2,536,173	1,705,845	1,944,663	2,473,475
(G) Automobile liability	6,459,537	7,363,872	9,366,329	6,302,185	7,184,491	9,138,168
(H) Law enforcement liability	101,095,232	118,281,421	159,730,467	95,725,722	111,999,095	151,246,641
(I) Other liability	118,738,816	138,924,415	187,607,329	111,911,199	130,936,103	176,819,694
(J) Claim Expense Reserves	64,926,258	74,015,934	94,143,073	61,396,490	69,991,999	89,024,911
(K) Subtotal	\$423,863,243	\$489,799,118	\$643,180,128	\$400,052,482	\$462,288,938	\$607,068,899
Total	\$599,412,512	\$694,439,138	\$917,286,600	\$568,517,801	\$658,682,452	\$870,163,503

B. Estimated Outstanding Losses as of 11/30/20

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$17,020,654	\$19,403,546	\$24,679,948	\$16,079,823	\$18,330,998	\$23,315,743
(Aii) WC - Medical	3,907,590	4,454,653	5,666,006	3,616,042	4,122,288	5,243,261
(A) Workers compensation	\$20,928,244	\$23,858,198	\$30,345,954	\$19,695,865	\$22,453,286	\$28,559,004
(Bi) Cermak	7,214,926	8,441,463	11,399,583	6,847,391	8,011,447	10,818,878
(Bii) John H. Stroger	104,781,956	122,594,889	165,555,490	100,115,843	117,135,536	158,183,032
(Biii) Oak Forest	100,743	117,869	159,174	95,169	111,348	150,367
(Biv) Provident	10,007,665	11,708,968	15,812,111	9,532,273	11,152,759	15,060,991
(Bv) Unspecified	113,773	133,114	179,761	108,186	126,578	170,934
(B) Medical malpractice	\$122,219,063	\$142,996,304	\$193,106,120	\$116,698,862	\$136,537,669	\$184,384,202
(C) Claim Expense Reserves	2,293,556	2,614,654	3,325,656	2,206,769	2,515,717	3,199,815
(D) Subtotal	\$145,440,863	\$169,469,155	\$226,777,729	\$138,601,496	\$161,506,671	\$216,143,021
II. General Government						
(Ei) WC - Indemnity	99,799,149	113,771,030	144,708,766	93,757,581	106,883,642	135,948,492
(Eii) WC - Medical	32,455,278	36,999,017	47,060,153	30,410,281	34,667,720	44,094,907
(E) Workers compensation	\$132,254,427	\$150,770,047	\$191,768,919	\$124,167,862	\$141,551,363	\$180,043,400
(F) General liability	1,523,431	1,736,711	2,208,975	1,487,666	1,695,939	2,157,116
(G) Automobile liability	5,701,157	6,499,319	8,266,678	5,569,621	6,349,368	8,075,950
(H) Law enforcement liability	104,842,434	122,665,648	165,651,046	99,212,695	116,078,853	156,756,058
(I) Other liability	124,981,261	146,228,075	197,470,392	117,851,744	137,886,540	186,205,756
(J) Claim Expense Reserves	67,490,254	76,938,890	97,860,869	63,821,094	72,756,047	92,540,586
(K) Subtotal	\$436,792,964	\$504,838,690	\$663,226,879	\$412,110,682	\$476,318,110	\$625,778,865
Total	\$582,233,827	\$674,307,846	\$890,004,608	\$550,712,177	\$637,824,781	\$841,921,886

C. Estimated Outstanding Losses as of 11/30/21

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$16,459,500	\$18,763,830	\$23,866,275	\$15,544,266	\$17,720,463	\$22,539,186
(Aii) WC - Medical	3,682,968	4,198,584	5,340,304	3,399,117	3,874,993	4,928,720
(A) Workers compensation	\$20,142,468	\$22,962,414	\$29,206,579	\$18,943,383	\$21,595,457	\$27,467,905
(Bi) Cermak	7,798,097	9,123,773	12,320,993	7,393,824	8,650,774	11,682,242
(Bii) John H. Stroger	99,271,407	116,147,546	156,848,823	94,601,716	110,684,008	149,470,711
(Biii) Oak Forest	105,590	123,540	166,832	100,186	117,218	158,294
(Biv) Provident	9,944,155	11,634,661	15,711,765	9,464,904	11,073,938	14,954,548
(Bv) Unspecified	116,136	135,879	183,495	110,559	129,354	174,683
(B) Medical malpractice	\$117,235,385	\$137,165,400	\$185,231,908	\$111,671,189	\$130,655,291	\$176,440,479
(C) Claim Expense Reserves	2,200,032	2,508,037	3,190,047	2,116,784	2,413,134	3,069,337
(D) Subtotal	\$139,577,885	\$162,635,851	\$217,628,534	\$132,731,356	\$154,663,882	\$206,977,721
II. General Government						
(Ei) WC - Indemnity	102,408,715	116,745,935	148,492,637	96,205,115	109,673,831	139,497,417
(Eii) WC - Medical	31,684,355	36,120,165	45,942,315	29,623,236	33,770,489	42,953,692
(E) Workers compensation	\$134,093,070	\$152,866,100	\$194,434,952	\$125,828,351	\$143,444,320	\$182,451,109
(F) General liability	1,354,245	1,543,839	1,963,655	1,322,170	1,507,274	1,917,147
(G) Automobile liability	4,855,096	5,534,809	7,039,889	4,734,435	5,397,256	6,864,931
(H) Law enforcement liability	108,761,261	127,250,675	171,842,792	102,883,920	120,374,186	162,556,594
(I) Other liability	131,221,958	153,529,691	207,330,694	123,740,403	144,776,272	195,509,837
(J) Claim Expense Reserves	70,093,731	79,906,853	101,635,909	66,283,030	75,562,654	96,110,393
(K) Subtotal	\$450,379,361	\$520,631,968	\$684,247,891	\$424,792,309	\$491,061,962	\$645,410,010
Total	\$589,957,246	\$683,267,818	\$901,876,425	\$557,523,665	\$645,725,844	\$852,387,731

Estimated Outstanding Losses

Footnotes:

Section I, Ai is from Exhibit WC-HC-Ind-11.

Section I, Aii is from Exhibit WC-HC-Med-11.

Section I, Bi is from Exhibit MM-Cermak-11.

Section I, Bii is from Exhibit MM-Stroger-11.

Section I, Biii is from Exhibit MM-OakForest-11.

Section I, Biv is from Exhibit MM-Provident-11.

Section I, Bv is from Exhibit MM-Unspecified-11.

Section I, C is from Summary Exhibit 7.

Section II, Ei is from Exhibit WC-Gov-Ind-11.

Section II, Eii is from Exhibit WC-Gov-Med-11.

Section II, F is from Exhibit GL-11.

Section II, G is from Exhibit AL-11.

Section II, H is from Exhibit OL-11.

Section II, I is from Summary Exhibit 7.

Comparison of Estimated Outstanding Losses

	As of November 30, 2018			As of November 30, 2019			Change		
	Case Reserves	IBNR	Total	Case Reserves	IBNR	Total	Case Reserves	IBNR	Total
I. Health Care Facilities									
(Ai) WC - Indemnity	\$10,334,484	\$7,394,975	\$17,729,459	\$11,263,975	\$6,513,600	\$17,777,575	\$929,492	-\$881,375	\$48,116
(Aii) WC - Medical	3,501,152	1,107,143	4,608,295	3,745,724	740,627	4,486,351	244,572	-366,516	-121,944
(A) Workers compensation	\$13,835,635	\$8,502,118	\$22,337,753	\$15,009,699	\$7,254,226	\$22,263,926	\$1,174,064	-\$1,247,892	-\$73,828
(Bi) Cermak	5,000,000	2,767,000	7,767,000	4,000,000	3,154,000	7,154,000	-1,000,000	387,000	-613,000
(Bii) John H. Stroger	88,275,500	37,568,651	125,844,151	96,340,500	37,040,501	133,381,001	8,065,000	-528,150	7,536,850
(Biii) Oak Forest	0	90,000	90,000	0	90,000	90,000	0	0	0
(Biv) Provident	2,875,000	2,810,000	5,685,000	5,805,000	3,905,000	9,710,000	2,930,000	1,095,000	4,025,000
(Bv) Unspecified	50,000	95,000	145,000	50,000	76,785	126,785	0	-18,215	-18,215
(B) Medical malpractice	\$96,200,500	\$43,330,651	\$139,531,151	\$106,195,500	\$44,266,286	\$150,461,786	\$9,995,000	\$935,635	\$10,930,635
(C) Claim Expense Reserves		2,651,496	2,651,496		2,823,557	2,823,557	0	172,061	172,061
(D) Subtotal	\$110,036,135	\$54,484,265	\$164,520,401	\$121,205,199	\$54,344,069	\$175,549,269	\$11,169,064	-\$140,196	\$11,028,868
II. General Government									
(Ei) WC - Indemnity	42,866,095	39,099,466	81,965,560	57,172,733	39,553,437	96,726,170	14,306,639	453,972	14,760,610
(Eii) WC - Medical	21,108,941	9,506,664	30,615,605	27,185,346	6,982,796	34,168,141	6,076,405	-2,523,869	3,552,536
(E) Workers compensation	\$63,975,035	\$48,606,130	\$112,581,165	\$84,358,079	\$46,536,233	\$130,894,312	\$20,383,043	-\$2,069,897	\$18,313,146
(F) General liability	425,131	492,348	917,479	1,121,887	627,200	1,749,087	696,755	134,852	831,607
(G) Automobile liability	1,094,271	1,786,446	2,880,717	4,663,450	1,796,087	6,459,537	3,569,179	9,641	3,578,820
(H) Law enforcement liability*	65,730,000	34,129,888	99,859,888	71,745,156	29,350,075	101,095,232	6,015,156	-4,779,813	1,235,343
(I) Other liability	53,793,601	27,931,988	81,725,589	76,572,257	42,166,559	118,738,816	22,778,656	14,234,571	37,013,227
(J) Claim Expense Reserves		53,690,734	53,690,734		64,926,258	64,926,258	0	11,235,524	11,235,524
(K) Subtotal	\$185,018,038	\$166,637,534	\$351,655,573	\$238,460,828	\$185,402,412	\$423,863,240	\$53,442,790	\$18,764,878	\$72,207,668
Total	\$295,054,174	\$221,121,800	\$516,175,973	\$359,666,027	\$239,746,482	\$599,412,509	\$64,611,854	\$18,624,682	\$83,236,536

* - law enforcement liability was included with other liability in the 11/30/18 actuarial study. For illustration purposes, IBNR as of 11/30/18 for law enforcement liability and other liability is assumed to be in proportion to case reserves.

Projected Ultimate Losses

A. 2019/20 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$3,163,000	\$3,700,710	\$4,997,540	\$2,969,000	\$3,473,730	\$4,691,020
(Aii) WC - Medical	1,214,000	1,420,380	1,918,120	1,159,000	1,356,030	1,831,220
(A) Workers compensation	\$4,377,000	\$5,121,090	\$6,915,660	\$4,128,000	\$4,829,760	\$6,522,240
(Bi) Cermak	1,666,000	1,999,200	2,932,160	1,509,000	1,810,800	2,655,840
(Bii) John H. Stroger	17,264,000	20,716,800	30,384,640	15,640,000	18,768,000	27,526,400
(Biii) Oak Forest	16,000	19,200	28,160	14,000	16,800	24,640
(Biv) Provident	1,723,000	2,067,600	3,032,480	1,561,000	1,873,200	2,747,360
(Bv) Unspecified	19,000	22,800	33,440	18,000	21,600	31,680
(B) Medical malpractice	\$20,688,000	\$24,825,600	\$36,410,880	\$18,742,000	\$22,490,400	\$32,985,920
(C) Subtotal	\$25,065,000	\$29,946,690	\$43,326,540	\$22,870,000	\$27,320,160	\$39,508,160
II. General Government						
(Di) WC - Indemnity	29,015,000	33,947,550	45,843,700	27,143,000	31,757,310	42,885,940
(Dii) WC - Medical	10,110,000	11,828,700	15,973,800	9,654,000	11,295,180	15,253,320
(D) Workers compensation	\$39,125,000	\$45,776,250	\$61,817,500	\$36,797,000	\$43,052,490	\$58,139,260
(E) General liability	452,000	528,840	714,160	431,000	504,270	680,980
(F) Automobile liability	2,109,000	2,467,530	3,332,220	2,024,000	2,368,080	3,197,920
(G) Law enforcement liability	16,313,000	19,575,600	28,710,880	14,891,000	17,869,200	26,208,160
(H) Other liability	16,869,000	20,242,800	29,689,440	15,398,000	18,477,600	27,100,480
(I) Subtotal	\$74,868,000	\$88,591,020	\$124,264,200	\$69,541,000	\$82,271,640	\$115,326,800
Total	\$99,933,000	\$118,537,710	\$167,590,740	\$92,411,000	\$109,591,800	\$154,834,960

B. 2020/21 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$3,210,000	\$3,755,700	\$5,071,800	\$3,014,000	\$3,526,380	\$4,762,120
(Aii) WC - Medical	1,263,000	1,477,710	1,995,540	1,205,000	1,409,850	1,903,900
(A) Workers compensation	\$4,473,000	\$5,233,410	\$7,067,340	\$4,219,000	\$4,936,230	\$6,666,020
(Bi) Cermak	1,733,000	2,079,600	3,050,080	1,570,000	1,884,000	2,763,200
(Bii) John H. Stroger	17,955,000	21,546,000	31,600,800	16,266,000	19,519,200	28,628,160
(Biii) Oak Forest	16,000	19,200	28,160	15,000	18,000	26,400
(Biv) Provident	1,792,000	2,150,400	3,153,920	1,623,000	1,947,600	2,856,480
(Bv) Unspecified	20,000	24,000	35,200	18,000	21,600	31,680
(B) Medical malpractice	\$21,516,000	\$25,819,200	\$37,868,160	\$19,492,000	\$23,390,400	\$34,305,920
(C) Subtotal	\$25,989,000	\$31,052,610	\$44,935,500	\$23,711,000	\$28,326,630	\$40,971,940
II. General Government						
(Di) WC - Indemnity	29,450,000	34,456,500	46,531,000	27,550,000	32,233,500	43,529,000
(Dii) WC - Medical	10,515,000	12,302,550	16,613,700	10,041,000	11,747,970	15,864,780
(D) Workers compensation	\$39,965,000	\$46,759,050	\$63,144,700	\$37,591,000	\$43,981,470	\$59,393,780
(E) General liability	470,000	549,900	742,600	448,000	524,160	707,840
(F) Automobile liability	2,183,000	2,554,110	3,449,140	2,094,000	2,449,980	3,308,520
(G) Law enforcement liability	16,965,000	20,358,000	29,858,400	15,486,000	18,583,200	27,255,360
(H) Other liability	17,543,000	21,051,600	30,875,680	16,014,000	19,216,800	28,184,640
(I) Subtotal	\$77,126,000	\$91,272,660	\$128,070,520	\$71,633,000	\$84,755,610	\$118,850,140
Total	\$103,115,000	\$122,325,270	\$173,006,020	\$95,344,000	\$113,082,240	\$159,822,080

C. 2021/22 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$3,259,000	\$3,813,030	\$5,149,220	\$3,059,000	\$3,579,030	\$4,833,220
(Aii) WC - Medical	1,313,000	1,536,210	2,074,540	1,253,000	1,466,010	1,979,740
(A) Workers compensation	\$4,572,000	\$5,349,240	\$7,223,760	\$4,312,000	\$5,045,040	\$6,812,960
(Bi) Cermak	1,802,000	2,162,400	3,171,520	1,633,000	1,959,600	2,874,080
(Bii) John H. Stroger	18,673,000	22,407,600	32,864,480	16,916,000	20,299,200	29,772,160
(Biii) Oak Forest	17,000	20,400	29,920	16,000	19,200	28,160
(Biv) Provident	1,864,000	2,236,800	3,280,640	1,688,000	2,025,600	2,970,880
(Bv) Unspecified	21,000	25,200	36,960	19,000	22,800	33,440
(B) Medical malpractice	\$22,377,000	\$26,852,400	\$39,383,520	\$20,272,000	\$24,326,400	\$35,678,720
(C) Subtotal	\$26,949,000	\$32,201,640	\$46,607,280	\$24,584,000	\$29,371,440	\$42,491,680
II. General Government						
(Di) WC - Indemnity	29,892,000	34,973,640	47,229,360	466,000	545,220	736,280
(Dii) WC - Medical	10,935,000	12,793,950	17,277,300	10,442,000	12,217,140	16,498,360
(D) Workers compensation	\$40,827,000	\$47,767,590	\$64,506,660	\$10,908,000	\$12,762,360	\$17,234,640
(E) General liability	489,000	572,130	772,620	466,000	545,220	736,280
(F) Automobile liability	2,259,000	2,643,030	3,569,220	2,168,000	2,536,560	3,425,440
(G) Law enforcement liability	17,644,000	21,172,800	31,053,440	16,106,000	19,327,200	28,346,560
(H) Other liability	18,245,000	21,894,000	32,111,200	16,655,000	19,986,000	29,312,800
(I) Subtotal	\$79,464,000	\$94,049,550	\$132,013,140	\$46,303,000	\$55,157,340	\$79,055,720
Total	\$106,413,000	\$126,251,190	\$178,620,420	\$70,887,000	\$84,528,780	\$121,547,400

Projected Ultimate Losses

Footnotes:

Section I, Ai is from Exhibit WC-HC-Ind-10.

Section I, Aii is from Exhibit WC-HC-Med-10.

Section I, Bi is from Exhibit MM-Cermak-10.

Section I, Bii is from Exhibit MM-Stroger-10.

Section I, Biii is from Exhibit MM-OakForest-10.

Section I, Biv is from Exhibit MM-Provident-10.

Section I, Bv is from Exhibit MM-Unspecified-10.

Section II, Di is from Exhibit WC-Gov-Ind-10.

Section II, Dii is from Exhibit WC-Gov-Med-10.

Section II, E is from Exhibit GL-10.

Section II, F is from Exhibit AL-10.

Section II, G is from Exhibit LEL-10.

Section II, H is from Exhibit OL-10.

Split of Liability Losses Among Healthcare and Government

	Coverage (1)	Total (2)	Healthcare (3)	Government (4)
1. 2018/19 Payments				
General liability		\$578,454	\$127,009	\$451,445
Automobile liability		860,872	19,918	840,955
Law enforcement liability		33,115,037	1,288,149	31,826,888
Other liability		1,041,468	112,775	928,693
Total		\$35,595,831	\$1,547,851	\$34,047,981
2. 11/30/19 Case Reserves				
General liability		\$1,121,887	\$190,000	\$931,887
Automobile liability		4,663,450	0	4,663,450
Law enforcement liability		71,745,156	13,688,800	58,056,356
Other liability		76,572,257	8,123,000	68,449,257
Total		\$154,102,749	\$22,001,800	\$132,100,949
3. 11/30/19 Reported Incurred				
General liability		\$11,547,817	\$1,758,561	\$9,789,256
Automobile liability		38,899,225	2,632,674	36,266,551
Law enforcement liability		220,647,408	36,367,355	184,280,053
Other liability		238,953,974	52,349,834	186,604,140
Total		\$510,048,423	\$93,108,424	\$416,940,000
4. Ratio to Total				
		Payments	4.3%	95.7%
		Case Reserves	14.3%	85.7%
		Reported Incurred	18.3%	81.7%
		Prior	12.5%	87.5%
		Selected	15.0%	85.0%
5. Estimated Outstanding Losses				
Estimated Outstanding Losses as of 11/30/19				
a. General Liability		\$1,749,085	\$262,363	\$1,486,722
b. Automobile Liability		6,459,537	968,931	5,490,606
c. Law Enforcement Liability		101,095,232	15,164,285	85,930,947
d. Other Liability		118,738,816	17,810,822	100,927,994
Estimated Outstanding Losses as of 11/30/20				
a. General Liability		\$1,523,431	\$228,515	\$1,294,916
b. Automobile Liability		5,701,157	855,174	4,845,983
c. Law Enforcement Liability		104,842,434	15,726,365	89,116,069
d. Other Liability		124,981,261	18,747,189	106,234,072
Estimated Outstanding Losses as of 11/30/21				
a. General Liability		\$1,354,245	\$203,137	\$1,151,108
b. Automobile Liability		4,855,096	728,264	4,126,832
c. Law Enforcement Liability		108,761,261	16,314,189	92,447,072
d. Other Liability		131,221,958	19,683,294	111,538,664
6. Projected Ultimate Losses				
2019/20				
a. General Liability		\$452,000	\$67,800	\$384,200
b. Automobile Liability		2,109,000	316,350	1,792,650
c. Law Enforcement Liability		16,313,000	2,446,950	13,866,050
d. Other Liability		16,869,000	2,530,350	14,338,650
2020/21				
a. General Liability		\$470,000	\$70,500	\$399,500
b. Automobile Liability		2,183,000	327,450	1,855,550
c. Law Enforcement Liability		16,965,000	2,544,750	14,420,250
d. Other Liability		17,543,000	2,631,450	14,911,550
2021/22				
a. General Liability		\$489,000	\$73,350	\$415,650
b. Automobile Liability		2,259,000	338,850	1,920,150
c. Law Enforcement Liability		17,644,000	2,646,600	14,997,400
d. Other Liability		18,245,000	2,736,750	15,508,250

Actual and Projected Paid Losses (\$Millions)

	Actual Limited Paid Losses 2015/16	Actual Limited Paid Losses 2016/17	Actual Limited Paid Losses 2017/18	Actual Limited Paid Losses 2018/19	Average Paid Losses 2015/16 to 2018/19	Projected Paid Losses 2019/20	Projected Paid Losses 2020/21	Projected Paid Losses 2021/22
I. Health Care Facilities								
(Ai) WC - Indemnity		\$2.77	\$2.60	\$2.42		\$3.92	\$3.77	\$3.66
(Aii) WC - Medical		0.75	0.83	0.49		1.79	1.49	1.38
(A) Workers compensation	\$4.09	\$3.52	\$3.43	\$2.91	\$3.49	\$5.71	\$5.26	\$5.05
(Bi) Cermak	0.28	0.01	1.98	0.91	0.79	1.61	1.15	1.19
(Bii) John H. Stroger	11.22	11.93	22.78	19.59	16.38	45.86	23.47	19.72
(Biii) Oak Forest	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02
(Biv) Provident	1.89	3.11	0.99	0.29	1.57	1.43	1.86	2.04
(Bv) Unspecified	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.02
(B) Medical malpractice	\$13.38	\$15.04	\$25.74	\$20.79	\$18.74	\$48.93	\$26.50	\$22.99
(C) Subtotal	\$17.47	\$18.56	\$29.17	\$23.70	\$22.23	\$54.64	\$31.76	\$28.04
II. General Government								
(Di) WC - Indemnity		21.30	22.44	25.95		25.94	26.84	27.59
(Dii) WC - Medical		8.70	7.52	7.65		11.82	11.29	11.04
(D) Workers compensation	\$26.98	\$30.01	\$29.96	\$33.60	\$30.14	\$37.76	\$38.13	\$38.63
(E) General liability	0.14	0.52	0.06	0.58	0.33	0.68	0.64	0.59
(F) Automobile liability	6.62	3.90	0.30	0.86	2.92	2.87	3.03	2.23
(G) Law enforcement liability	8.12	19.27	12.54	33.12	18.26	12.57	13.05	13.59
(H) Other liability	2.36	1.76	5.73	1.04	2.72	10.63	11.30	11.88
(I) Subtotal	\$44.22	\$55.47	\$48.59	\$69.20	\$54.37	\$64.50	\$66.14	\$66.92
Total	\$61.69	\$74.03	\$77.77	\$92.90	\$76.60	\$119.15	\$97.90	\$94.96

Section I, Ai is from Exhibits WC-HC-Indem-12, WC-HC-Indem-13, and WC-HC-Indem-14.

Section I, Aii is from Exhibits WC-HC-Med-12, WC-HC-Med-13, and WC-HC-Med-14.

Section I, Bi is from Exhibits MM-Cermak-12, MM-Cermak-13, and MM-Cermak-14.

Section I, Bii is from Exhibits MM-Stroger-12, MM-Stroger-13, and MM-Stroger-14.

Section I, Biii is from Exhibits MM-Oak Forest-12, MM-Oak Forest-13, and MM-Oak Forest-14.

Section I, Biv is from Exhibits MM-Provident-12, MM-Provident-13, and MM-Provident-14.

Section I, Bv is from Exhibits MM-Unspecified-12, MM-Unspecified-13, and MM-Unspecified-14.

Section II, Di is from Exhibits WC-Gov-Indem-12, WC-Gov-Indem-13, and WC-Gov-Indem-14.

Section II, Dii is from Exhibits WC-Gov-Med-12, WC-Gov-Med-13, and WC-Gov-Med-14.

Section II, E is from Exhibits GL-12, GL-13, and GL-14.

Section II, F is from Exhibits AL-12, AL-13, and AL-14.

Section II, G is from Exhibits LEL-12, LEL-13, and LEL-14.

Section II, H is from Exhibits OL-12, OL-13, and OL-14.

Projected Ultimate Limited Losses (\$Millions)

	Projected Ultimate Limited Losses 2015/16	Projected Ultimate Limited Losses 2016/17	Projected Ultimate Limited Losses 2017/18	Projected Ultimate Limited Losses 2018/19	Average Ultimate Limited Losses 2015/16 to 2018/19	Projected Ultimate Limited Losses 2019/20	Projected Ultimate Limited Losses 2020/21	Projected Ultimate Limited Losses 2021/22
I. Health Care Facilities								
(Ai) WC - Indemnity	\$2.78	\$2.99	\$3.03	\$4.00	\$3.20	\$3.16	\$3.21	\$3.26
(Aii) WC - Medical	0.92	0.99	0.99	1.68	1.14	1.21	1.26	1.31
(A) Workers compensation	\$3.70	\$3.98	\$4.02	\$5.68	\$4.34	\$4.38	\$4.47	\$4.57
(Bi) Cermak	3.30	1.50	1.00	1.00	1.70	1.67	1.73	1.80
(Bii) John H. Stroger	10.00	11.00	12.00	12.50	11.38	17.26	17.96	18.67
(Biii) Oak Forest	0.02	0.02	0.03	0.03	0.02	0.02	0.02	0.02
(Biv) Provident	4.00	4.50	1.00	1.00	2.63	1.72	1.79	1.86
(Bv) Unspecified	0.01	0.01	0.02	0.02	0.01	0.02	0.02	0.02
(B) Medical malpractice	\$17.32	\$17.03	\$14.04	\$14.55	\$15.74	\$20.69	\$21.52	\$22.38
(C) Subtotal	\$21.03	\$21.01	\$18.06	\$20.23	\$20.08	\$25.07	\$25.99	\$26.95
II. General Government								
(Di) WC - Indemnity	28.12	29.53	29.73	33.08	30.11	29.02	29.45	29.89
(Dii) WC - Medical	10.92	11.35	12.93	14.64	12.46	10.11	10.52	10.94
(D) Workers compensation	\$39.03	\$40.88	\$42.66	\$47.71	\$42.57	\$39.13	\$39.97	\$40.83
(E) General liability	0.34	0.30	1.05	0.50	0.55	0.45	0.47	0.49
(F) Automobile liability	1.55	0.75	5.20	1.10	2.15	2.11	2.18	2.26
(G) Law enforcement liability	15.00	20.00	15.00	16.00	16.50	16.31	16.97	17.64
(H) Other liability	14.40	14.60	20.00	17.50	16.63	16.87	17.54	18.25
(I) Subtotal	\$70.32	\$76.52	\$83.91	\$82.81	\$78.39	\$74.87	\$77.13	\$79.46
Total	\$91.35	\$97.53	\$101.97	\$103.04	\$98.47	\$99.93	\$103.12	\$106.41

Section I, Ai is from Exhibits WC-HC-Indem-9 and WC-HC-Indem-10.

Section I, Aii is from Exhibits WC-HC-Med-9 and WC-HC-Med-10.

Section I, Bi is from Exhibits MM-Cermak-9 and MM-Cermak-10.

Section I, Bii is from Exhibits MM-Stroger-9 and MM-Stroger-10.

Section I, Biii is from Exhibits MM-Oak Forest-9 and MM-Oak Forest-10.

Section I, Biv is from Exhibits MM-Provident-9 and MM-Provident-10.

Section I, Bv is from Exhibits MM-Unspecified-9 and MM-Unspecified-10.

Section II, Ei is from Exhibits WC-Gov-Indem-9 and WC-Gov-Indem-10.

Section II, Eii is from Exhibits WC-Gov-Med-9 and WC-Gov-Med-10.

Section II, F is from Exhibits GL-9 and GL-10.

Section II, G is from Exhibits AL-9 and AL-10.

Section II, H is from Exhibits OL-9 and OL-10.

Calculation of Claims-Related Expense Reserves

	Fiscal Year (1)	Medical Malpractice and Liability (2)	Medical Malpractice (3)	Liability (4)
1. Expense Payments				
	2000/01	\$2,388,809	\$238,881	\$2,149,928
	2001/02	2,400,000	240,000	2,160,000
	2002/03	3,300,699	330,070	2,970,629
	2003/04	5,625,222	562,522	5,062,700
	2004/05	5,813,337	581,334	5,232,004
	2005/06	5,333,045	533,305	4,799,741
	2006/07	7,372,403	737,240	6,635,162
	2007/08	9,439,841	943,984	8,495,856
	2008/09	10,508,333	1,050,833	9,457,500
	2009/10	10,557,734	1,055,773	9,501,961
	2010/11	8,848,598	884,860	7,963,739
	2011/12	7,002,846	700,285	6,302,562
	2012/13	9,003,473	900,347	8,103,126
	2013/14	8,317,476	831,748	7,485,728
	2014/15	6,732,840	384,101	6,348,739
	2015/16	5,722,540	345,259	5,377,281
	2016/17	7,097,527	709,753	6,387,774
	2017/18	14,449,327	1,444,933	13,004,394
	2018/19	14,241,539	1,424,154	12,817,385
	Average	\$7,587,136	\$731,546	\$6,855,590
2. Average FY 2001-2019 Loss Payments		\$38,102,916	\$22,455,837	\$15,647,079
3. Ratio of Expense Payments to Loss Payments (Section 1 / Section 2)		Actual	3.26%	43.81%
		Prior	2.90%	43.00%
		Selected	2.90%	43.00%
4. Case Reserves as of 11/30/19		\$260,298,249	\$106,195,500	\$154,102,749
5. IBNR Reserves as of 11/30/19		118,206,208	44,266,286	73,939,922
6. Estimated Undiscounted Expense Reserves as of 11/30/19		67,749,815	2,823,557	64,926,258
7. Discount Factor		0.946	0.962	0.946
8. Estimated Discounted Expense Reserves as of 11/30/19		64,113,206	2,716,715	61,396,490
9. Estimated Outstanding Losses as of 11/30/20		359,267,346	122,219,063	237,048,283
9a. Estimated Case Reserves as of 11/30/20		246,450,273	86,261,867	160,188,407
9b. Estimated IBNR Reserves as of 11/30/20		112,817,073	35,957,196	76,859,876
10. Estimated Undiscounted Expense Reserves as of 11/30/20		69,783,810	2,293,556	67,490,254
11. Estimated Discounted Expense Reserves as of 11/30/20		66,027,862	2,206,769	63,821,094
12. Estimated Outstanding Losses as of 11/30/21		363,427,945	117,235,385	246,192,560
12a. Estimated Case Reserves as of 11/30/21		249,112,169	82,744,401	166,367,769
12b. Estimated IBNR Reserves as of 11/30/21		114,315,776	34,490,984	79,824,791
13. Estimated Undiscounted Expense Reserves as of 11/30/21		72,293,763	2,200,032	70,093,731
14. Estimated Discounted Expense Reserves as of 11/30/21		68,399,814	2,116,784	66,283,030

Section 6 = (Section 3 x 50% x Section 4) + (Section 3 x Section 5).

Section 7 is based on the discounted reserves divided by the undiscounted reserves.

Estimated Outstanding Losses as of November 30, 2019

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Limited Case Reserves 11/30/19 (3)	Limited Reported Incurred Losses 11/30/19 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/19 (5)-(4) (6)	Estimated Outstanding Losses 11/30/19 (3) + (6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/19 (7) x (8) (9)
to 1999/00	\$321,916,424	\$0	\$321,916,424	\$321,916,424	\$0	\$0	1.00	\$0
2000/01	11,706,000	0	11,706,000	11,706,000	0	0	1.00	0
2001/02	25,697,540	0	25,697,540	25,697,540	0	0	1.00	0
2002/03	7,162,645	0	7,162,645	7,162,645	0	0	1.00	0
2003/04	39,571,000	0	39,571,000	39,571,000	0	0	1.00	0
2004/05	21,597,600	14,000,000	35,597,600	35,597,600	0	14,000,000	1.00	14,000,000
2005/06	24,620,000	750,000	25,370,000	25,445,000	75,000	825,000	1.00	825,000
2006/07	4,752,500	100,000	4,852,500	4,862,500	10,000	110,000	1.00	110,000
2007/08	8,302,000	0	8,302,000	8,302,000	0	0	1.00	0
2008/09	8,380,000	0	8,380,000	8,380,000	0	0	0.99	0
2009/10	11,202,500	0	11,202,500	11,202,500	0	0	0.99	0
2010/11	10,718,000	0	10,718,000	10,718,000	0	0	0.98	0
2011/12	37,293,999	750,000	38,043,999	38,270,000	226,001	976,001	0.98	954,504
2012/13	35,565,000	34,650,000	70,215,000	70,900,000	685,000	35,335,000	0.97	34,407,565
2013/14	2,050,000	650,000	2,700,000	7,425,000	4,725,000	5,375,000	0.97	5,198,288
2014/15	3,966,715	34,185,000	38,151,715	40,600,000	2,448,285	36,633,285	0.97	35,449,619
2015/16	4,835,000	8,155,000	12,990,000	17,322,500	4,332,500	12,487,500	0.96	11,989,423
2016/17	900,000	8,950,500	9,850,500	17,030,000	7,179,500	16,130,000	0.95	15,308,957
2017/18	0	3,955,000	3,955,000	14,040,000	10,085,000	14,040,000	0.94	13,131,784
2018/19	0	50,000	50,000	14,550,000	14,500,000	14,550,000	0.92	13,393,258
Total	\$580,236,923	\$106,195,500	\$686,432,423	\$730,698,709	\$44,266,286	\$150,461,786		\$144,768,398

Summary of Loss Payments

Claim Period (1)	Workers Compensation (2)	Liability Common Claims (3)	Medical Malpractice (Excluding Large Claims) (4)	Liability Catastrophe Claims and Med Mal Claims (5)	Total (6)
I. Actual Payments					
1995/96	\$10,993,178	\$2,423,315	\$17,479,600	\$750,000	\$31,646,093
1996/97	8,868,321	3,072,412	6,189,500	0	18,130,233
1997/98	9,055,271	2,956,966	23,423,000	0	35,435,237
1998/99	9,294,766	3,339,344	19,898,900	15,772,220	48,305,230
1999/00	9,777,906	3,779,701	36,918,877	11,635,555	62,112,039
2000/01	10,377,014	3,842,381	30,313,000	17,894,722	62,427,117
2001/02	11,711,329	1,231,819	21,071,700	2,975,000	36,989,848
2002/03	11,743,398	2,184,184	28,420,541	5,200,000	47,548,123
2003/04	14,846,640	3,467,845	17,786,500	625,000	36,725,985
2004/05	16,136,301	2,754,958	13,779,500	17,750,000	50,420,759
2005/06	16,824,867	2,573,671	16,605,040	29,567,543	65,571,121
2006/07	16,278,694	7,784,841	24,334,820	16,760,000	65,158,355
2007/08	19,695,589	9,983,268	22,141,450	29,450,250	81,270,557
2008/09	24,349,162	8,530,865	16,469,000	0	49,349,027
2009/10	19,238,537	12,743,402	16,758,000	0	48,739,939
2010/11	21,648,616	6,855,702	18,765,000	44,634,001	91,903,319
2011/12	20,142,760	18,175,329	3,740,000	0	42,058,088
2012/13	18,890,070	9,919,330	9,292,499	20,000,000	58,101,899
2013/14	23,156,358	9,323,194	12,080,000	0	44,559,552
2014/15	23,678,804	6,752,584	14,303,000	12,000,000	56,734,388
2015/16	31,071,950	11,235,817	9,130,000	10,250,000	61,687,767
2016/17	33,526,713	9,334,603	4,039,000	27,125,000	74,025,316
2017/18	33,390,655	5,044,759	7,813,000	31,518,600	77,767,013
2018/19	36,515,313	11,625,831	4,888,860	39,870,000	92,900,004
II. Estimated Future Payments					
2019/20	43,477,570	26,737,387	48,930,723		119,145,680
2020/21	43,385,133	28,016,723	26,499,678		97,901,534
2021/22	43,679,669	28,289,234	22,989,235		94,958,138

Payments are limited to Cook County's self-insured retentions.

(3) and (4) exclude claims included in (5).

Section I, (5) is defined as payments of at least \$1 million for automobile liability and \$3 million for general liability, other liability, and medical malpractice.

Comparison of Projected Ultimate Losses (\$000s)
Loss & ALAE (Excludes Claims Handling Expenses)
Summary by Coverage

Losses Limited to Actual Retention

Coverage (1)	Limited Reported Incurred Losses 11/30/18 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Estimated Outstanding Losses 11/30/18 (6) - (9)	Estimated Outstanding Losses 11/30/19 (7) - (10)	Projected Ultimate Limited Losses 11/30/18 (6)	Projected Ultimate Limited Losses 11/30/19 (7)	Change in Ultimate (7) - (6) (8)	Percentage Change in Ultimate (7) / (6) - 1 (9)	Limited Paid Losses 11/30/18 (10)	Limited Paid Losses 11/30/19 (11)	Limited Case Reserves 11/30/18 (2) - (10) (12)	Limited Case Reserves 11/30/19 (3) - (11) (13)	Estimated IBNR 11/30/18 (4)-(12) (14)	Estimated IBNR 11/30/19 (5)-(13) (15)
A. Health Care Facilities														
(Ai) WC - Indemnity	\$92,026	\$95,372	\$17,729	\$17,778	\$102,903	\$101,886	(\$1,017)	-1.0%	\$81,691	\$84,108	\$10,334	\$11,264	\$7,395	\$6,514
(Aii) WC - Medical	28,906	29,645	4,608	4,486	31,385	30,386	(999)	-3.2%	25,405	25,900	3,501	3,746	1,107	741
(Bi) Cermak	26,299	26,212	7,767	7,154	30,813	29,366	(1,447)	-4.7%	21,299	22,212	5,000	4,000	2,767	3,154
(Bii) John H. Stroger	522,012	549,662	125,844	133,381	576,420	586,702	10,282	1.8%	433,736	453,321	88,276	96,341	37,569	37,041
(Biii) Oak Forest	28,200	28,200	90	90	28,306	28,290	(16)	-0.1%	28,200	28,200	-	-	90	90
(Biv) Provident	33,155	36,375	5,685	9,710	37,175	40,280	3,105	8.4%	30,280	30,570	2,875	5,805	2,810	3,905
(Bv) Unspecified	45,983	45,984	145	127	46,098	46,061	(38)	-0.1%	45,933	45,934	50	50	95	77
B. General Government														
(Ei) WC - Indemnity	308,921	349,180	81,966	96,726	375,621	388,733	13,112	3.5%	266,054	292,007	42,866	57,173	39,099	39,553
(Eii) WC - Medical	141,153	154,881	30,616	34,168	160,002	161,863	1,861	1.2%	120,044	127,695	21,109	27,185	9,507	6,983
(F) General liability	10,273	11,548	917	1,749	11,165	12,175	1,010	9.0%	9,847	10,426	425	1,122	492	627
(G) Automobile liability	34,469	38,899	2,881	6,460	38,183	40,695	2,513	6.6%	33,375	34,236	1,094	4,663	1,786	1,796
(H) Other liability	396,651	459,601	181,585	219,834	489,551	531,118	41,567	8.5%	277,127	311,284	119,524	148,317	62,062	71,517
Total	\$1,668,047	\$1,825,558	\$459,834	\$531,663	\$1,927,622	\$1,997,555	\$69,933	3.6%	\$1,372,992	\$1,465,892	\$295,054	\$359,666	\$164,780	\$171,997

Comparison of Projected Ultimate Losses (\$000s)
Loss & ALAE (Excludes Claims Handling Expenses)
Summary by Claim Period

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/18 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Estimated Outstanding Losses 11/30/18 (6) - (9)	Estimated Outstanding Losses 11/30/19 (7) - (10)	Projected Ultimate Limited Losses 11/30/18 (6)	Projected Ultimate Limited Losses 11/30/19 (7)	Change in Ultimate (7) - (6) (8)	Percentage Change in Ultimate (7) / (6) - 1 (9)	Limited Paid Losses 11/30/18 (10)	Limited Paid Losses 11/30/19 (11)	Limited Case Reserves 11/30/18 (2) - (10) (12)	Limited Case Reserves 11/30/19 (3) - (11) (13)	Estimated IBNR 11/30/18 (4)-(12) (14)	Estimated IBNR 11/30/19 (5)-(13) (15)
to 1999/00	\$604,744	\$608,235	\$19,767	\$21,373	\$606,801	\$608,845	\$2,044	0.3%	\$587,034	\$587,471	\$17,710	\$20,764	\$2,057	\$609
2000/01	46,069	47,080	1,359	2,047	46,436	47,175	739	1.6%	45,076	45,127	993	1,953	366	94
2001/02	55,442	55,496	900	785	55,608	55,575	(33)	-0.1%	54,708	54,790	734	707	166	79
2002/03	30,719	30,528	631	289	30,848	30,582	(266)	-0.9%	30,217	30,293	502	236	128	53
2003/04	123,926	124,263	1,003	1,091	124,120	124,408	288	0.2%	123,117	123,317	809	946	193	145
2004/05	84,574	76,500	34,809	23,506	87,894	76,818	(11,076)	-12.6%	53,085	53,312	31,489	23,188	3,320	318
2005/06	48,982	49,467	3,133	2,925	49,954	50,061	107	0.2%	46,821	47,136	2,161	2,330	972	594
2006/07	35,025	38,264	1,749	4,497	35,681	38,657	2,976	8.3%	33,932	34,160	1,093	4,104	656	393
2007/08	48,988	49,919	1,926	2,420	49,691	50,575	884	1.8%	47,765	48,154	1,222	1,764	704	656
2008/09	38,844	44,640	3,212	7,141	40,308	45,447	5,139	12.7%	37,096	38,305	1,748	6,334	1,464	807
2009/10	49,010	50,229	3,467	2,624	50,270	51,069	799	1.6%	46,803	48,445	2,207	1,784	1,260	841
2010/11	60,815	65,019	28,310	3,790	66,186	66,327	142	0.2%	37,876	62,537	22,939	2,482	5,371	1,308
2011/12	69,349	68,028	10,783	6,676	73,866	70,625	(3,241)	-4.4%	63,083	63,949	6,266	4,079	4,517	2,597
2012/13	99,559	105,267	59,551	45,058	105,453	109,582	4,129	3.9%	45,902	64,525	53,657	40,743	5,894	4,315
2013/14	48,104	66,447	28,194	41,969	60,136	76,476	16,340	27.2%	31,942	34,507	16,162	31,940	12,032	10,029
2014/15	65,071	91,715	56,845	72,986	78,299	101,444	23,146	29.6%	21,454	28,458	43,617	63,256	13,228	9,730
2015/16	67,401	77,564	57,326	52,832	89,040	91,349	2,309	2.6%	31,714	38,516	35,687	39,048	21,639	13,784
2016/17	52,989	73,868	67,164	67,067	89,865	97,532	7,667	8.5%	22,701	30,465	30,288	43,403	36,876	23,664
2017/18	38,433	63,716	79,706	77,519	92,370	101,971	9,601	10.4%	12,664	24,452	25,769	39,264	53,937	38,255
2018/19		39,314		95,067	94,796	103,038	8,242	8.7%		7,971		31,342		63,724
Total	\$1,668,047	\$1,825,558	\$459,834	\$531,663	\$1,927,622	\$1,997,555	\$69,933	3.6%	\$1,372,992	\$1,465,892	\$295,054	\$359,666	\$164,780	\$171,997
Total (ex FY19)	\$1,668,047	\$1,786,245	\$459,834	\$436,596	\$1,832,826	\$1,894,517	\$61,691	3.4%	\$1,372,992	\$1,457,921	\$295,054	\$328,324	\$164,780	\$108,272

Comparison of Projected Ultimate Losses (\$000s)
Loss & ALAE (Excludes Claims Handling Expenses)

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/18 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Estimated Outstanding Losses 11/30/18 (6) - (9) (4)	Estimated Outstanding Losses 11/30/19 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/18 (6)	Projected Ultimate Limited Losses 11/30/19 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/18 (9)	Limited Paid Losses 11/30/19 (10)	Limited Case Reserves 11/30/18 (2) - (9) (11)	Limited Case Reserves 11/30/19 (3) - (10) (12)	Estimated IBNR 11/30/18 (4)-(11) (13)	Estimated IBNR 11/30/19 (5)-(12) (14)
to 1999/00	\$53,757	\$54,551	\$4,846	\$5,200	\$54,411	\$55,000	\$589	\$49,565	\$49,800	\$4,192	\$4,751	\$655	\$449
2000/01	1,536	1,536	0	0	1,536	1,536	0	1,536	1,536	0	0	0	0
2001/02	1,199	1,190	24	4	1,205	1,191	(14)	1,181	1,187	17	3	6	1
2002/03	3,013	3,013	75	50	3,034	3,025	(9)	2,959	2,975	54	38	21	12
2003/04	1,967	1,967	173	145	2,020	2,003	(17)	1,847	1,858	120	108	53	36
2004/05	3,187	3,181	839	751	3,300	3,275	(25)	2,461	2,524	725	657	113	94
2005/06	1,743	1,743	16	5	1,749	1,744	(5)	1,733	1,739	10	3	6	1
2006/07	2,102	2,102	25	22	2,112	2,109	(3)	2,087	2,087	15	15	10	7
2007/08	1,961	1,973	331	137	2,103	2,020	(83)	1,772	1,883	190	90	142	47
2008/09	2,102	2,127	150	126	2,166	2,174	8	2,016	2,048	87	80	64	47
2009/10	2,401	2,407	740	580	2,681	2,626	(55)	1,941	2,046	460	361	280	219
2010/11	1,848	1,940	286	278	1,953	2,000	47	1,667	1,722	181	218	105	60
2011/12	2,308	2,302	367	307	2,451	2,408	(43)	2,084	2,101	223	201	143	106
2012/13	2,927	2,955	780	601	3,200	3,178	(22)	2,420	2,577	507	378	273	223
2013/14	2,495	2,548	784	529	2,900	2,746	(154)	2,116	2,217	379	331	405	198
2014/15	1,628	1,742	806	690	2,100	2,051	(49)	1,294	1,361	334	381	472	309
2015/16	2,182	2,210	1,608	1,089	3,100	2,780	(320)	1,492	1,691	690	519	918	570
2016/17	2,179	2,114	2,680	1,601	3,700	2,990	(710)	1,020	1,389	1,159	726	1,521	876
2017/18	1,492	1,793	3,198	2,016	3,700	3,030	(670)	502	1,014	990	780	2,208	1,237
2018/19		1,980		3,647	3,482	4,000	518		353		1,626		2,020
Total	\$92,026	\$95,372	\$17,729	\$17,778	\$102,903	\$101,886	(\$1,017)	\$81,691	\$84,108	\$10,334	\$11,264	\$7,395	\$6,514
Total (ex FY19)	\$92,026	\$93,392	\$17,729	\$14,131	\$99,421	\$97,886	(\$1,535)	\$81,691	\$83,755	\$10,334	\$9,638	\$7,395	\$4,493

Comparison of Projected Ultimate Losses (\$000s)
Loss & ALAE (Excludes Claims Handling Expenses)

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/18 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Estimated Outstanding Losses 11/30/18 (6) - (9) (4)	Estimated Outstanding Losses 11/30/19 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/18 (6)	Projected Ultimate Limited Losses 11/30/19 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/18 (9)	Limited Paid Losses 11/30/19 (10)	Limited Case Reserves 11/30/18 (2) - (9) (11)	Limited Case Reserves 11/30/19 (3) - (10) (12)	Estimated IBNR 11/30/18 (4)-(11) (13)	Estimated IBNR 11/30/19 (5)-(12) (14)
to 1999/00	\$12,686	\$12,692	\$440	\$430	\$12,726	\$12,715	(\$11)	\$12,285	\$12,285	\$400	\$407	\$40	\$23
2000/01	711	711	0	0	711	711	0	711	711	0	0	0	0
2001/02	621	620	2	1	622	621	(1)	620	620	1	0	1	1
2002/03	919	919	22	20	921	919	(2)	899	899	20	20	2	0
2003/04	1,329	1,328	188	112	1,346	1,328	(18)	1,158	1,216	171	112	17	0
2004/05	1,318	1,317	72	62	1,325	1,317	(8)	1,253	1,255	65	62	7	0
2005/06	764	764	0	0	764	764	0	764	764	0	0	0	0
2006/07	925	925	0	0	925	925	0	925	925	0	0	0	0
2007/08	760	751	14	4	761	751	(10)	747	747	13	4	1	0
2008/09	700	696	14	9	702	697	(5)	688	688	13	9	2	1
2009/10	789	777	78	56	796	782	(14)	718	726	71	51	7	5
2010/11	689	691	31	28	693	694	1	662	666	27	25	4	3
2011/12	1,168	1,033	221	76	1,198	1,052	(146)	977	976	191	57	30	19
2012/13	1,234	1,228	339	289	1,284	1,270	(14)	945	981	288	247	50	42
2013/14	700	698	75	69	715	712	(3)	640	643	61	55	15	14
2014/15	496	527	127	151	525	550	25	398	399	99	128	29	23
2015/16	946	882	443	307	1,050	923	(127)	607	616	338	266	104	41
2016/17	1,226	931	1,267	630	1,500	989	(511)	233	359	994	572	274	58
2017/18	925	801	1,275	692	1,450	991	(459)	175	299	750	502	525	190
2018/19		1,354		1,549	1,372	1,675	303		126		1,228		321
Total	\$28,906	\$29,645	\$4,608	\$4,486	\$31,385	\$30,386	(\$999)	\$25,405	\$25,900	\$3,501	\$3,746	\$1,107	\$741
Total (ex FY19)	\$28,906	\$28,291	\$4,608	\$2,937	\$30,013	\$28,711	(\$1,302)	\$25,405	\$25,774	\$3,501	\$2,517	\$1,107	\$420

Comparison of Projected Ultimate Losses (\$000s)
Loss & ALAE (Excludes Claims Handling Expenses)

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/18 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Estimated Outstanding Losses 11/30/18 (6) - (9)	Estimated Outstanding Losses 11/30/19 (7) - (10)	Projected Ultimate Limited Losses 11/30/18 (6)	Projected Ultimate Limited Losses 11/30/19 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/18 (9)	Limited Paid Losses 11/30/19 (10)	Limited Case Reserves 11/30/18 (2) - (9) (11)	Limited Case Reserves 11/30/19 (3) - (10) (12)	Estimated IBNR 11/30/18 (4)-(11) (13)	Estimated IBNR 11/30/19 (5)-(12) (14)
to 1999/00	\$11,062	\$11,062	\$0	\$0	\$11,062	\$11,062	\$0	\$11,062	\$11,062	\$0	\$0	\$0	\$0
2000/01	950	950	0	0	950	950	0	950	950	0	0	0	0
2001/02	1,000	1,000	0	0	1,000	1,000	0	1,000	1,000	0	0	0	0
2002/03	19	19	0	0	19	19	0	19	19	0	0	0	0
2003/04	2,959	2,959	0	0	2,959	2,959	0	2,959	2,959	0	0	0	0
2004/05	1	1	0	0	1	1	0	1	1	0	0	0	0
2005/06	1,000	1,000	0	0	1,000	1,000	0	1,000	1,000	0	0	0	0
2006/07	3	3	0	0	3	3	0	3	3	0	0	0	0
2007/08	1,000	1,000	0	0	1,000	1,000	0	1,000	1,000	0	0	0	0
2008/09	0	0	0	0	0	0	0	0	0	0	0	0	0
2009/10	1,310	1,310	0	0	1,310	1,310	0	1,310	1,310	0	0	0	0
2010/11	3	3	0	0	3	3	0	3	3	0	0	0	0
2011/12	10	10	0	0	10	10	0	10	10	0	0	0	0
2012/13	0	0	25	0	25	0	(25)	0	0	0	0	25	0
2013/14	0	0	125	0	125	0	(125)	0	0	0	0	125	0
2014/15	3,033	3,041	3,467	3,209	3,500	3,250	(250)	33	41	3,000	3,000	467	209
2015/16	2,950	2,955	1,450	1,345	3,400	3,300	(100)	1,950	1,955	1,000	1,000	450	345
2016/17	1,000	900	1,700	600	1,700	1,500	(200)	0	900	1,000	0	700	600
2017/18	0	0	1,000	1,000	1,000	1,000	0	0	0	0	0	1,000	1,000
2018/19	0	0	1,000	1,000	1,747	1,000	(747)	0	0	0	0	1,000	1,000
Total	\$26,299	\$26,212	\$7,767	\$7,154	\$30,813	\$29,366	(\$1,447)	\$21,299	\$22,212	\$5,000	\$4,000	\$2,767	\$3,154
Total (ex FY19)	\$26,299	\$26,212	\$7,767	\$6,154	\$29,066	\$28,366	(\$700)	\$21,299	\$22,212	\$5,000	\$4,000	\$2,767	\$2,154

Comparison of Projected Ultimate Losses (\$000s)
 Loss & ALAE (Excludes Claims Handling Expenses)

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/18 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Estimated Outstanding Losses 11/30/18 (6) - (9) (4)	Estimated Outstanding Losses 11/30/19 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/18 (6)	Projected Ultimate Limited Losses 11/30/19 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/18 (9)	Limited Paid Losses 11/30/19 (10)	Limited Case Reserves 11/30/18 (2) - (9) (11)	Limited Case Reserves 11/30/19 (3) - (10) (12)	Estimated IBNR 11/30/18 (4)-(11) (13)	Estimated IBNR 11/30/19 (5)-(12) (14)
to 1999/00	\$249,471	\$249,471	\$0	\$0	\$249,471	\$249,471	\$0	\$249,471	\$249,471	\$0	\$0	\$0	\$0
2000/01	10,411	10,411	0	0	10,411	10,411	0	10,411	10,411	0	0	0	0
2001/02	23,648	23,648	0	0	23,648	23,648	0	23,648	23,648	0	0	0	0
2002/03	4,269	4,269	0	0	4,269	4,269	0	4,269	4,269	0	0	0	0
2003/04	8,378	8,378	0	0	8,378	8,378	0	8,378	8,378	0	0	0	0
2004/05	39,607	33,607	22,003	14,000	41,610	33,607	(8,003)	19,607	19,607	20,000	14,000	2,003	0
2005/06	23,575	23,325	1,105	825	23,680	23,400	(280)	22,575	22,575	1,000	750	105	75
2006/07	4,850	4,850	110	110	4,860	4,860	0	4,750	4,750	100	100	10	10
2007/08	7,002	7,002	0	0	7,002	7,002	0	7,002	7,002	0	0	0	0
2008/09	7,905	7,905	0	0	7,905	7,905	0	7,905	7,905	0	0	0	0
2009/10	9,093	9,093	0	0	9,093	9,093	0	9,093	9,093	0	0	0	0
2010/11	10,715	10,715	0	0	10,715	10,715	0	10,715	10,715	0	0	0	0
2011/12	36,519	36,219	1,571	976	37,040	36,445	(595)	35,469	35,469	1,050	750	521	226
2012/13	63,480	67,540	45,920	33,610	65,000	68,000	3,000	19,080	34,390	44,400	33,150	1,520	460
2013/14	2,700	2,275	6,250	5,375	7,500	7,000	(500)	1,250	1,625	1,450	650	4,800	4,725
2014/15	13,075	35,060	14,975	33,075	15,000	37,000	22,000	25	3,925	13,050	31,135	1,925	1,940
2015/16	4,665	7,090	9,910	9,910	10,000	10,000	0	90	90	4,575	7,000	5,335	2,910
2016/17	1,301	4,901	11,500	11,000	11,500	11,000	(500)	0	0	1,301	4,901	10,200	6,100
2017/18	1,350	3,855	12,500	12,000	12,500	12,000	(500)	0	0	1,350	3,855	11,150	8,145
2018/19		50		12,500	16,840	12,500	(4,340)		0		50		12,450
Total	\$522,012	\$549,662	\$125,844	\$133,381	\$576,420	\$586,702	\$10,282	\$433,736	\$453,321	\$88,276	\$96,341	\$37,569	\$37,041
Total (ex FY19)	\$522,012	\$549,612	\$125,844	\$120,881	\$559,580	\$574,202	\$14,622	\$433,736	\$453,321	\$88,276	\$96,291	\$37,569	\$24,591

Comparison of Projected Ultimate Losses (\$000s)
 Loss & ALAE (Excludes Claims Handling Expenses)

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/18 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Estimated Outstanding Losses 11/30/18 (6) - (9)	Estimated Outstanding Losses 11/30/19 (7) - (10)	Projected Ultimate Limited Losses 11/30/18 (6)	Projected Ultimate Limited Losses 11/30/19 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/18 (9)	Limited Paid Losses 11/30/19 (10)	Limited Case Reserves 11/30/18 (2) - (9) (11)	Limited Case Reserves 11/30/19 (3) - (10) (12)	Estimated IBNR 11/30/18 (4)-(11) (13)	Estimated IBNR 11/30/19 (5)-(12) (14)
to 1999/00	\$3,980	\$3,980	\$0	\$0	\$3,980	\$3,980	\$0	\$3,980	\$3,980	\$0	\$0	\$0	\$0
2000/01	0	0	0	0	0	0	0	0	0	0	0	0	0
2001/02	100	100	0	0	100	100	0	100	100	0	0	0	0
2002/03	1,050	1,050	0	0	1,050	1,050	0	1,050	1,050	0	0	0	0
2003/04	20,375	20,375	0	0	20,375	20,375	0	20,375	20,375	0	0	0	0
2004/05	1,900	1,900	0	0	1,900	1,900	0	1,900	1,900	0	0	0	0
2005/06	620	620	0	0	620	620	0	620	620	0	0	0	0
2006/07	0	0	0	0	0	0	0	0	0	0	0	0	0
2007/08	0	0	0	0	0	0	0	0	0	0	0	0	0
2008/09	175	175	0	0	175	175	0	175	175	0	0	0	0
2009/10	0	0	0	0	0	0	0	0	0	0	0	0	0
2010/11	0	0	0	0	0	0	0	0	0	0	0	0	0
2011/12	0	0	0	0	0	0	0	0	0	0	0	0	0
2012/13	0	0	0	0	0	0	0	0	0	0	0	0	0
2013/14	0	0	0	0	0	0	0	0	0	0	0	0	0
2014/15	0	0	15	0	15	0	(15)	0	0	0	0	15	0
2015/16	0	0	20	15	20	15	(5)	0	0	0	0	20	15
2016/17	0	0	25	20	25	20	(5)	0	0	0	0	25	20
2017/18	0	0	30	25	30	25	(5)	0	0	0	0	30	25
2018/19	0	0	0	30	16	30	14	0	0	0	0	0	30
Total	\$28,200	\$28,200	\$90	\$90	\$28,306	\$28,290	(\$16)	\$28,200	\$28,200	\$0	\$0	\$90	\$90
Total (ex FY19)	\$28,200	\$28,200	\$90	\$60	\$28,290	\$28,260	(\$30)	\$28,200	\$28,200	\$0	\$0	\$90	\$60

Comparison of Projected Ultimate Losses (\$000s)
 Loss & ALAE (Excludes Claims Handling Expenses)

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/18 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Estimated Outstanding Losses 11/30/18 (6) - (9)	Estimated Outstanding Losses 11/30/19 (7) - (10)	Projected Ultimate Limited Losses 11/30/18 (6)	Projected Ultimate Limited Losses 11/30/19 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/18 (9)	Limited Paid Losses 11/30/19 (10)	Limited Case Reserves 11/30/18 (2) - (9) (11)	Limited Case Reserves 11/30/19 (3) - (10) (12)	Estimated IBNR 11/30/18 (4)-(11) (13)	Estimated IBNR 11/30/19 (5)-(12) (14)
to 1999/00	\$13,020	\$13,020	\$0	\$0	\$13,020	\$13,020	\$0	\$13,020	\$13,020	\$0	\$0	\$0	\$0
2000/01	345	345	0	0	345	345	0	345	345	0	0	0	0
2001/02	200	200	0	0	200	200	0	200	200	0	0	0	0
2002/03	1,025	1,025	0	0	1,025	1,025	0	1,025	1,025	0	0	0	0
2003/04	7,860	7,860	0	0	7,860	7,860	0	7,860	7,860	0	0	0	0
2004/05	90	90	0	0	90	90	0	90	90	0	0	0	0
2005/06	425	425	0	0	425	425	0	425	425	0	0	0	0
2006/07	0	0	0	0	0	0	0	0	0	0	0	0	0
2007/08	300	300	0	0	300	300	0	300	300	0	0	0	0
2008/09	300	300	0	0	300	300	0	300	300	0	0	0	0
2009/10	800	800	0	0	800	800	0	800	800	0	0	0	0
2010/11	0	0	0	0	0	0	0	0	0	0	0	0	0
2011/12	1,815	1,815	85	0	1,900	1,815	(85)	1,815	1,815	0	0	85	0
2012/13	2,675	2,675	1,725	1,725	2,900	2,900	0	1,175	1,175	1,500	1,500	225	225
2013/14	425	425	75	0	500	425	(75)	425	425	0	0	75	0
2014/15	0	0	300	275	300	275	(25)	0	0	0	0	300	275
2015/16	3,700	2,945	1,600	1,210	4,100	4,000	(100)	2,500	2,790	1,200	155	400	1,055
2016/17	75	4,050	900	4,500	900	4,500	3,600	0	0	75	4,050	825	450
2017/18	100	100	1,000	1,000	1,000	1,000	0	0	0	100	100	900	900
2018/19	0	0	1,000	1,000	1,210	1,000	(210)	0	0	0	0	1,000	1,000
Total	\$33,155	\$36,375	\$5,685	\$9,710	\$37,175	\$40,280	\$3,105	\$30,280	\$30,570	\$2,875	\$5,805	\$2,810	\$3,905
Total (ex FY19)	\$33,155	\$36,375	\$5,685	\$8,710	\$35,965	\$39,280	\$3,315	\$30,280	\$30,570	\$2,875	\$5,805	\$2,810	\$2,905

Comparison of Projected Ultimate Losses (\$000s)
 Loss & ALAE (Excludes Claims Handling Expenses)

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/18 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Estimated Outstanding Losses 11/30/18 (6) - (9) (4)	Estimated Outstanding Losses 11/30/19 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/18 (6)	Projected Ultimate Limited Losses 11/30/19 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/18 (9)	Limited Paid Losses 11/30/19 (10)	Limited Case Reserves 11/30/18 (2) - (9) (11)	Limited Case Reserves 11/30/19 (3) - (10) (12)	Estimated IBNR 11/30/18 (4)-(11) (13)	Estimated IBNR 11/30/19 (5)-(12) (14)
to 1999/00	\$44,383	\$44,383	\$0	\$0	\$44,383	\$44,383	\$0	\$44,383	\$44,383	\$0	\$0	\$0	\$0
2000/01	0	0	0	0	0	0	0	0	0	0	0	0	0
2001/02	750	750	0	0	750	750	0	750	750	0	0	0	0
2002/03	800	800	0	0	800	800	0	800	800	0	0	0	0
2003/04	0	0	0	0	0	0	0	0	0	0	0	0	0
2004/05	0	0	0	0	0	0	0	0	0	0	0	0	0
2005/06	0	0	0	0	0	0	0	0	0	0	0	0	0
2006/07	0	0	0	0	0	0	0	0	0	0	0	0	0
2007/08	0	0	0	0	0	0	0	0	0	0	0	0	0
2008/09	0	0	0	0	0	0	0	0	0	0	0	0	0
2009/10	0	0	0	0	0	0	0	0	0	0	0	0	0
2010/11	0	0	0	0	0	0	0	0	0	0	0	0	0
2011/12	0	0	0	0	0	0	0	0	0	0	0	0	0
2012/13	0	0	0	0	0	0	0	0	0	0	0	0	0
2013/14	0	0	0	0	0	0	0	0	0	0	0	0	0
2014/15	50	51	100	74	100	75	(25)	0	1	50	50	50	24
2015/16	0	0	10	8	10	8	(3)	0	0	0	0	10	8
2016/17	0	0	15	10	15	10	(5)	0	0	0	0	15	10
2017/18	0	0	20	15	20	15	(5)	0	0	0	0	20	15
2018/19	0	0	0	20	20	20	0	0	0	0	0	0	20
Total	\$45,983	\$45,984	\$145	\$127	\$46,098	\$46,061	(\$38)	\$45,933	\$45,934	\$50	\$50	\$95	\$77
Total (ex FY19)	\$45,983	\$45,984	\$145	\$107	\$46,078	\$46,041	(\$38)	\$45,933	\$45,934	\$50	\$50	\$95	\$57

Comparison of Projected Ultimate Losses (\$000s)
Loss & ALAE (Excludes Claims Handling Expenses)

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/18 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Estimated Outstanding Losses 11/30/18 (6) - (9) (4)	Estimated Outstanding Losses 11/30/19 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/18 (6)	Projected Ultimate Limited Losses 11/30/19 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/18 (9)	Limited Paid Losses 11/30/19 (10)	Limited Case Reserves 11/30/18 (2) - (9) (11)	Limited Case Reserves 11/30/19 (3) - (10) (12)	Estimated IBNR 11/30/18 (4)-(11) (13)	Estimated IBNR 11/30/19 (5)-(12) (14)
to 1999/00	\$77,800	\$78,911	\$998	\$1,933	\$77,892	\$79,020	\$1,128	\$76,894	\$77,087	\$907	\$1,824	\$92	\$109
2000/01	8,769	8,769	565	478	8,859	8,812	(47)	8,294	8,334	475	435	90	43
2001/02	8,980	9,005	848	754	9,137	9,080	(57)	8,289	8,326	692	680	157	75
2002/03	8,618	8,393	500	186	8,719	8,431	(288)	8,219	8,245	399	148	101	38
2003/04	8,500	8,794	514	738	8,612	8,893	281	8,098	8,155	403	639	112	99
2004/05	8,890	9,155	701	802	9,068	9,287	219	8,367	8,485	523	670	178	132
2005/06	8,870	9,131	117	253	8,902	9,308	406	8,785	9,055	85	76	32	177
2006/07	11,846	11,878	627	480	12,043	12,072	29	11,416	11,592	430	286	197	194
2007/08	17,450	17,426	1,152	860	17,834	17,744	(90)	16,682	16,884	769	541	384	318
2008/09	14,008	14,471	884	831	14,320	14,807	487	13,436	13,976	573	495	312	336
2009/10	13,418	13,741	1,786	1,514	14,010	14,202	192	12,224	12,688	1,194	1,053	592	461
2010/11	11,327	11,746	1,876	1,443	11,974	12,135	161	10,098	10,692	1,228	1,055	647	389
2011/12	13,123	13,302	2,065	1,672	13,946	14,215	269	11,881	12,543	1,242	760	823	913
2012/13	11,151	12,532	3,088	4,076	12,301	13,921	1,620	9,213	9,845	1,938	2,687	1,150	1,389
2013/14	12,472	14,591	4,019	4,111	14,462	15,838	1,376	10,443	11,727	2,029	2,865	1,990	1,247
2014/15	15,993	17,324	8,161	7,006	20,191	20,521	330	12,030	13,515	3,962	3,808	4,198	3,197
2015/16	21,588	24,086	12,218	10,260	27,000	28,115	1,115	14,782	17,855	6,807	6,230	5,412	4,029
2016/17	19,598	23,274	17,678	14,049	29,250	29,527	277	11,572	15,478	8,026	7,796	9,652	6,253
2017/18	16,519	23,275	24,167	17,471	29,500	29,727	227	5,333	12,256	11,185	11,018	12,981	6,452
2018/19		19,377		27,808	27,601	33,078	5,477		5,270		14,107		13,701
Total	\$308,921	\$349,180	\$81,966	\$96,726	\$375,621	\$388,733	\$13,112	\$266,054	\$292,007	\$42,866	\$57,173	\$39,099	\$39,553
Total (ex FY19)	\$308,921	\$329,803	\$81,966	\$68,918	\$348,020	\$355,655	\$7,635	\$266,054	\$286,737	\$42,866	\$43,066	\$39,099	\$25,853

Comparison of Projected Ultimate Losses (\$000s)
Loss & ALAE (Excludes Claims Handling Expenses)

Losses Limited to Actual Retention

Claim Period	Limited Reported Incurred Losses 11/30/18	Limited Reported Incurred Losses 11/30/19	Estimated Outstanding Losses 11/30/18	Estimated Outstanding Losses 11/30/19	Projected Ultimate Limited Losses 11/30/18	Projected Ultimate Limited Losses 11/30/19	Change in Ultimate (7) - (6)	Limited Paid Losses 11/30/18	Limited Paid Losses 11/30/19	Limited Case Reserves 11/30/18	Limited Case Reserves 11/30/19	Estimated IBNR 11/30/18	Estimated IBNR 11/30/19
(1)	(2)	(3)	(6) - (9)	(7) - (10)	(6)	(7)	(8)	(9)	(10)	(2) - (9)	(3) - (10)	(4)-(11)	(5)-(12)
to 1999/00	\$27,536	\$27,614	\$233	\$310	\$27,557	\$27,642	\$85	\$27,324	\$27,332	\$212	\$282	\$22	\$28
2000/01	4,462	4,462	21	20	4,464	4,464	0	4,443	4,444	18	18	2	2
2001/02	4,040	4,040	27	27	4,043	4,043	0	4,016	4,016	24	24	3	3
2002/03	4,131	4,130	33	33	4,134	4,133	(1)	4,101	4,100	30	30	3	3
2003/04	3,808	3,808	128	96	3,819	3,816	(3)	3,692	3,721	116	87	12	9
2004/05	11,666	11,665	26	26	11,668	11,668	(0)	11,642	11,642	24	24	2	3
2005/06	3,998	3,984	17	1	4,000	3,985	(15)	3,983	3,984	15	1	2	1
2006/07	4,751	4,745	111	92	4,767	4,756	(11)	4,656	4,664	95	81	16	11
2007/08	6,281	6,195	263	152	6,323	6,217	(106)	6,060	6,065	221	130	42	22
2008/09	6,573	6,584	216	158	6,613	6,609	(4)	6,397	6,451	176	133	40	25
2009/10	6,520	6,486	351	236	6,589	6,530	(59)	6,238	6,294	281	192	69	44
2010/11	5,169	5,085	638	543	5,289	5,192	(97)	4,651	4,649	518	435	120	107
2011/12	4,768	4,667	470	353	4,856	4,737	(119)	4,386	4,384	382	283	88	70
2012/13	4,561	4,597	785	549	4,724	4,695	(29)	3,939	4,146	622	451	163	98
2013/14	5,542	6,428	1,379	2,399	5,813	6,860	1,047	4,434	4,461	1,108	1,967	271	432
2014/15	6,306	6,342	2,410	1,956	7,000	6,679	(321)	4,590	4,723	1,716	1,618	694	337
2015/16	10,533	10,345	4,654	3,044	12,000	10,918	(1,082)	7,346	7,874	3,187	2,471	1,467	573
2016/17	10,635	10,333	7,142	4,180	13,000	11,351	(1,649)	5,858	7,171	4,777	3,162	2,365	1,018
2017/18	9,873	11,382	11,714	7,445	14,000	12,933	(1,067)	2,286	5,488	7,587	5,894	4,127	1,551
2018/19		11,988		12,551	9,343	14,635	5,292		2,084		9,903		2,647
Total	\$141,153	\$154,881	\$30,616	\$34,168	\$160,002	\$161,863	\$1,861	\$120,044	\$127,695	\$21,109	\$27,185	\$9,507	\$6,983
Total (ex FY19)	\$141,153	\$142,893	\$30,616	\$21,617	\$150,659	\$147,228	(\$3,431)	\$120,044	\$125,611	\$21,109	\$17,282	\$9,507	\$4,335

Comparison of Projected Ultimate Losses (\$000s)
Loss & ALAE (Excludes Claims Handling Expenses)

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/18 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Estimated Outstanding Losses 11/30/18 (6) - (9)	Estimated Outstanding Losses 11/30/19 (7) - (10)	Projected Ultimate Limited Losses 11/30/18 (6)	Projected Ultimate Limited Losses 11/30/19 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/18 (9)	Limited Paid Losses 11/30/19 (10)	Limited Case Reserves 11/30/18 (2) - (9) (11)	Limited Case Reserves 11/30/19 (3) - (10) (12)	Estimated IBNR 11/30/18 (4)-(11) (13)	Estimated IBNR 11/30/19 (5)-(12) (14)
to 1999/00	\$5,706	\$5,706	\$0	\$0	\$5,706	\$5,706	\$0	\$5,706	\$5,706	\$0	\$0	\$0	\$0
2000/01	678	682	0	0	678	682	4	678	682	0	0	0	0
2001/02	252	265	0	0	252	265	12	252	265	0	0	0	0
2002/03	419	432	0	0	419	432	13	419	432	0	0	0	0
2003/04	30	40	0	0	30	40	11	30	40	0	0	0	0
2004/05	222	236	0	0	222	236	14	222	236	0	0	0	0
2005/06	138	152	0	0	138	152	14	138	152	0	0	0	0
2006/07	98	112	0	0	98	112	14	98	112	0	0	0	0
2007/08	486	538	0	0	486	538	52	486	538	0	0	0	0
2008/09	153	195	0	0	153	195	42	153	195	0	0	0	0
2009/10	311	325	0	0	311	325	14	311	325	0	0	0	0
2010/11	139	154	0	0	139	154	15	139	154	0	0	0	0
2011/12	140	147	0	0	140	147	7	140	147	0	0	0	0
2012/13	356	370	0	0	356	370	14	356	370	0	0	0	0
2013/14	214	259	0	0	214	259	45	214	259	0	0	0	0
2014/15	353	373	0	0	353	373	20	353	373	0	0	0	0
2015/16	196	308	159	180	275	338	63	116	158	80	150	79	30
2016/17	186	244	304	226	325	300	(25)	21	74	165	170	139	56
2017/18	196	814	455	905	470	1,050	580	15	145	180	669	274	236
2018/19		195		438	400	500	100		62		133		305
Total	\$ 10,273	\$ 11,548	\$ 917	\$ 1,749	\$ 11,165	\$ 12,175	\$ 1,010	\$ 9,847	\$ 10,426	\$ 425	\$ 1,122	\$ 492	\$ 627
Total (ex FY19)	\$ 10,273	\$ 11,353	\$ 917	\$ 1,311	\$ 10,765	\$ 11,675	\$ 910	\$ 9,847	\$ 10,364	\$ 425	\$ 989	\$ 492	\$ 322

Comparison of Projected Ultimate Losses (\$000s)
Loss & ALAE (Excludes Claims Handling Expenses)

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/18 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Estimated Outstanding Losses 11/30/18 (6) - (9)	Estimated Outstanding Losses 11/30/19 (7) - (10)	Projected Ultimate Limited Losses 11/30/18 (6)	Projected Ultimate Limited Losses 11/30/19 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/18 (9)	Limited Paid Losses 11/30/19 (10)	Limited Case Reserves 11/30/18 (2) - (9) (11)	Limited Case Reserves 11/30/19 (3) - (10) (12)	Estimated IBNR 11/30/18 (4)-(11) (13)	Estimated IBNR 11/30/19 (5)-(12) (14)
to 1999/00	\$3,472	\$3,473	\$0	\$0	\$3,472	\$3,473	\$1	\$3,472	\$3,473	\$0	\$0	\$0	\$0
2000/01	9,771	9,778	0	0	9,771	9,778	7	9,771	9,778	0	0	0	0
2001/02	2,498	2,524	0	0	2,498	2,524	26	2,498	2,524	0	0	0	0
2002/03	213	234	0	0	213	234	21	213	234	0	0	0	0
2003/04	397	431	0	0	397	431	34	397	431	0	0	0	0
2004/05	2,828	2,857	0	0	2,828	2,857	29	2,828	2,857	0	0	0	0
2005/06	176	201	0	0	176	201	25	176	201	0	0	0	0
2006/07	624	653	0	0	624	653	29	624	653	0	0	0	0
2007/08	132	150	0	0	132	150	18	132	150	0	0	0	0
2008/09	174	192	0	0	174	192	18	174	192	0	0	0	0
2009/10	6,830	6,849	0	0	6,830	6,849	19	6,830	6,849	0	0	0	0
2010/11	819	834	11	0	820	834	14	809	834	10	0	1	0
2011/12	432	445	0	0	432	445	13	432	445	0	0	0	0
2012/13	282	302	0	0	282	302	21	282	302	0	0	0	0
2013/14	2,907	2,936	0	0	2,907	2,936	28	2,907	2,936	0	0	0	0
2014/15	215	239	0	0	215	239	24	215	239	0	0	0	0
2015/16	1,566	1,520	579	42	1,835	1,552	(283)	1,256	1,510	310	10	269	32
2016/17	514	621	655	334	950	745	(205)	295	411	219	210	436	124
2017/18	620	4,542	1,635	5,044	1,700	5,200	3,500	65	156	555	4,386	1,080	658
2018/19		118		1,040	1,927	1,100	(827)		60		57		982
Total	\$ 34,469	\$ 38,899	\$ 2,881	\$ 6,460	\$ 38,183	\$ 40,695	\$ 2,513	\$ 33,375	\$ 34,236	\$ 1,094	\$ 4,663	\$ 1,786	\$ 1,796
Total (ex FY19)	\$ 34,469	\$ 38,782	\$ 2,881	\$ 5,420	\$ 36,256	\$ 39,595	\$ 3,340	\$ 33,375	\$ 34,175	\$ 1,094	\$ 4,606	\$ 1,786	\$ 814

Comparison of Projected Ultimate Losses (\$000s)
Loss & ALAE (Excludes Claims Handling Expenses)

Losses Limited to Actual Retention

Claim Period	Limited Reported Incurred Losses	Limited Reported Incurred Losses	Estimated Outstanding Losses	Estimated Outstanding Losses	Projected Ultimate Limited Losses	Projected Ultimate Limited Losses	Change in Ultimate	Limited Paid Losses	Limited Paid Losses	Limited Case Reserves	Limited Case Reserves	Estimated IBNR	Estimated IBNR
(1)	11/30/18 (2)	11/30/19 (3)	11/30/18 (6) - (9) (4)	11/30/19 (7) - (10) (5)	11/30/18 (6)	11/30/19 (7)	(7) - (6) (8)	11/30/18 (9)	11/30/19 (10)	(2) - (9) (11)	(3) - (10) (12)	(4)-(11) (13)	(5)-(12) (14)
to 1999/00	\$ 101,872	\$ 103,372	\$ 13,249	\$ 13,500	\$ 103,121	\$ 103,372	\$ 252	\$ 89,872	\$ 89,872	\$ 12,000	\$ 13,500	\$ 1,249	\$ 0
2000/01	8,438	9,438	774	1,549	8,712	9,487	775	7,938	7,938	500	1,500	274	49
2001/02	12,154	12,154	0	0	12,154	12,154	0	12,154	12,154	0	0	0	0
2002/03	6,245	6,245	0	0	6,245	6,245	0	6,245	6,245	0	0	0	0
2003/04	68,326	68,326	0	0	68,326	68,326	0	68,326	68,326	0	0	0	0
2004/05	14,866	12,490	11,167	7,864	15,882	12,579	(3,303)	4,715	4,715	10,152	7,775	1,016	89
2005/06	7,673	8,122	1,878	1,840	8,500	8,463	(37)	6,622	6,622	1,051	1,500	827	340
2006/07	9,827	12,997	876	3,792	10,250	13,167	2,917	9,374	9,375	453	3,622	423	170
2007/08	13,615	14,585	165	1,268	13,750	14,853	1,103	13,585	13,585	30	1,000	135	268
2008/09	6,753	11,994	1,947	6,017	7,800	12,393	4,593	5,853	6,376	900	5,618	1,047	399
2009/10	7,538	8,440	513	238	7,850	8,552	702	7,337	8,314	201	126	312	112
2010/11	30,106	33,851	25,468	1,498	34,600	34,600	0	9,132	33,102	20,975	750	4,494	749
2011/12	9,065	8,088	6,005	3,292	11,893	9,351	(2,542)	5,888	6,059	3,177	2,029	2,828	1,263
2012/13	12,892	13,068	6,890	4,208	15,381	14,946	(435)	8,491	10,738	4,401	2,330	2,489	1,878
2013/14	20,649	36,286	15,486	29,486	25,000	39,700	14,700	9,514	10,214	11,136	26,072	4,351	3,414
2014/15	23,922	27,016	26,483	26,551	29,000	30,431	1,431	2,517	3,880	21,406	23,136	5,078	3,415
2015/16	19,075	25,224	24,674	25,423	26,250	29,400	3,150	1,576	3,977	17,500	21,246	7,175	4,176
2016/17	16,275	26,500	23,298	29,917	27,000	34,600	7,600	3,702	4,683	12,573	21,818	10,725	8,100
2017/18	7,359	17,154	22,712	29,906	27,000	35,000	8,000	4,288	5,094	3,071	12,059	19,641	17,846
2018/19		4,253		33,484	30,838	33,500	2,662		16	0	4,237		29,247
Total	\$ 396,651	\$ 459,601	\$ 181,585	\$ 219,834	\$ 489,551	\$ 531,118	\$ 41,567	\$ 277,127	\$ 311,284	\$ 119,524	\$ 148,317	\$ 62,062	\$ 71,517
Total (ex FY19)	\$ 396,651	\$ 455,348	\$ 181,585	\$ 186,350	\$ 458,713	\$ 497,618	\$ 38,905	\$ 277,127	\$ 311,268	\$ 119,524	\$ 144,080	\$ 62,062	\$ 42,270



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (INDEMNITY)

Exhibit WC-HC-Indem-1 (page 1)

Data Summary as of November 30, 2019
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Payroll (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Limited Paid Losses 11/30/19 (8)	Limited Case Reserves 11/30/19 (9)	Limited Reported Incurred Losses 11/30/19 (10)
to 1999/00	See Note	None	240.0	Not Provided	6,789	15	\$49,800,008	\$4,750,819	\$54,550,827
2000/01	9,500,000	40,000,000	228.0	425,788	625	0	1,535,565	0	1,535,565
2001/02	9,500,000	40,000,000	216.0	434,846	490	1	1,187,124	3,000	1,190,124
2002/03	9,500,000	45,000,000	204.0	441,142	514	2	2,975,058	37,540	3,012,597
2003/04	Unlimited	None	192.0	453,644	593	2	1,858,435	108,124	1,966,560
2004/05	Unlimited	None	180.0	458,776	518	1	2,523,584	657,115	3,180,699
2005/06	Unlimited	None	168.0	464,619	510	1	1,739,346	3,457	1,742,803
2006/07	Unlimited	None	156.0	448,051	318	3	2,086,766	15,000	2,101,766
2007/08	Unlimited	None	144.0	445,664	274	5	1,883,245	89,507	1,972,752
2008/09	Unlimited	None	132.0	501,624	280	7	2,047,578	79,568	2,127,145
2009/10	Unlimited	None	120.0	526,535	214	7	2,046,150	360,754	2,406,904
2010/11	Unlimited	None	108.0	489,053	202	10	1,721,943	217,698	1,939,641
2011/12	Unlimited	None	96.0	515,084	169	10	2,101,004	200,832	2,301,836
2012/13	Unlimited	None	84.0	482,783	143	16	2,577,475	377,975	2,955,449
2013/14	Unlimited	None	72.0	482,783	158	16	2,217,405	330,645	2,548,050
2014/15	Unlimited	None	60.0	468,483	158	17	1,361,324	380,559	1,741,883
2015/16	Unlimited	None	48.0	497,031	176	27	1,690,542	519,387	2,209,928
2016/17	Unlimited	None	36.0	529,113	167	32	1,388,536	725,945	2,114,480
2017/18	Unlimited	None	24.0	539,050	179	35	1,013,809	779,602	1,793,411
2018/19	Unlimited	None	12.0	580,283	153	78	353,096	1,626,449	1,979,545
Total					12,630	285	\$84,107,990	\$11,263,975	\$95,371,965

* The specific self-insured retention changes are as follows:

Effective Date	Retention
12/01/77	Unlimited
12/01/00	9,500,000
12/01/03	Unlimited

(8), (9) and (10) are net of the specific self-insured retention and other recoveries.

Data was provided by the County.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (INDEMNITY)

Exhibit WC-HC-Indem-1 (page 2)

Data Summary as of November 30, 2019
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Payroll (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Net Unlimited Paid Losses 11/30/19 (8)	Net Unlimited Case Reserves 11/30/19 (9)	Net Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	6,789	15	\$49,800,008	\$4,750,819	\$54,550,827
2000/01	Unlimited	40,000,000	228.0	425,788	625	0	1,535,565	0	1,535,565
2001/02	Unlimited	40,000,000	216.0	434,846	490	1	1,187,124	3,000	1,190,124
2002/03	Unlimited	45,000,000	204.0	441,142	514	2	2,975,058	37,540	3,012,597
2003/04	Unlimited	None	192.0	453,644	593	2	1,858,435	108,124	1,966,560
2004/05	Unlimited	None	180.0	458,776	518	1	2,523,584	657,115	3,180,699
2005/06	Unlimited	None	168.0	464,619	510	1	1,739,346	3,457	1,742,803
2006/07	Unlimited	None	156.0	448,051	318	3	2,086,766	15,000	2,101,766
2007/08	Unlimited	None	144.0	445,664	274	5	1,883,245	89,507	1,972,752
2008/09	Unlimited	None	132.0	501,624	280	7	2,047,578	79,568	2,127,145
2009/10	Unlimited	None	120.0	526,535	214	7	2,046,150	360,754	2,406,904
2010/11	Unlimited	None	108.0	489,053	202	10	1,721,943	217,698	1,939,641
2011/12	Unlimited	None	96.0	515,084	169	10	2,101,004	200,832	2,301,836
2012/13	Unlimited	None	84.0	482,783	143	16	2,577,475	377,975	2,955,449
2013/14	Unlimited	None	72.0	482,783	158	16	2,217,405	330,645	2,548,050
2014/15	Unlimited	None	60.0	468,483	158	17	1,361,324	380,559	1,741,883
2015/16	Unlimited	None	48.0	497,031	176	27	1,690,542	519,387	2,209,928
2016/17	Unlimited	None	36.0	529,113	167	32	1,388,536	725,945	2,114,480
2017/18	Unlimited	None	24.0	539,050	179	35	1,013,809	779,602	1,793,411
2018/19	Unlimited	None	12.0	580,283	153	78	353,096	1,626,449	1,979,545
Total					12,630	285	\$84,107,990	\$11,263,975	\$95,371,965

(8), (9) and (10) are gross of the specific self-insured retention and net of other recoveries.

Data was provided by the County.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (INDEMNITY)

Exhibit WC-HC-Indem-1 (page 3)

Data Summary as of November 30, 2019
Gross Unlimited Losses

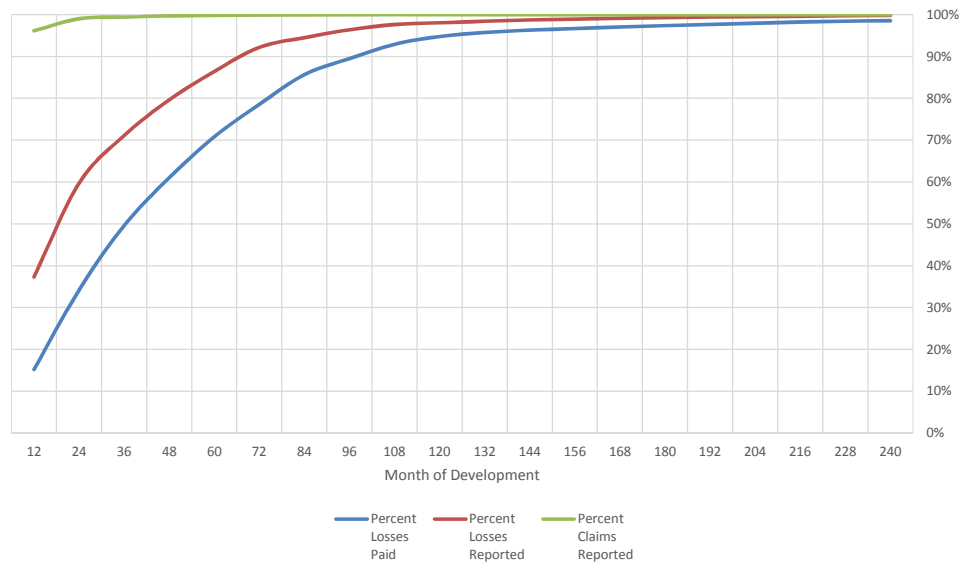
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Payroll (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Gross Unlimited Paid Losses 11/30/19 (8)	Gross Unlimited Case Reserves 11/30/19 (9)	Gross Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	6,789	15	\$49,900,169	\$4,750,819	\$54,650,988
2000/01	Unlimited	40,000,000	228.0	425,788	625	0	1,535,829	0	1,535,829
2001/02	Unlimited	40,000,000	216.0	434,846	490	1	1,195,580	3,000	1,198,580
2002/03	Unlimited	45,000,000	204.0	441,142	514	2	2,980,782	37,540	3,018,322
2003/04	Unlimited	None	192.0	453,644	593	2	1,858,659	108,124	1,966,783
2004/05	Unlimited	None	180.0	458,776	518	1	2,523,850	657,115	3,180,965
2005/06	Unlimited	None	168.0	464,619	510	1	1,739,346	3,457	1,742,803
2006/07	Unlimited	None	156.0	448,051	318	3	2,086,766	15,000	2,101,766
2007/08	Unlimited	None	144.0	445,664	274	5	1,883,245	89,507	1,972,752
2008/09	Unlimited	None	132.0	501,624	280	7	2,047,598	79,568	2,127,166
2009/10	Unlimited	None	120.0	526,535	214	7	2,046,300	360,754	2,407,055
2010/11	Unlimited	None	108.0	489,053	202	10	1,721,943	217,698	1,939,641
2011/12	Unlimited	None	96.0	515,084	169	10	2,127,793	200,832	2,328,625
2012/13	Unlimited	None	84.0	482,783	143	16	2,582,485	377,975	2,960,460
2013/14	Unlimited	None	72.0	482,783	158	16	2,217,621	330,645	2,548,266
2014/15	Unlimited	None	60.0	468,483	158	17	1,374,071	380,559	1,754,630
2015/16	Unlimited	None	48.0	497,031	176	27	1,693,365	519,387	2,212,752
2016/17	Unlimited	None	36.0	529,113	167	32	1,392,290	725,945	2,118,235
2017/18	Unlimited	None	24.0	539,050	179	35	1,017,126	779,602	1,796,728
2018/19	Unlimited	None	12.0	580,283	153	78	353,106	1,626,449	1,979,555
Total					12,630	285	\$84,277,925	\$11,263,975	\$95,541,900

(8), (9) and (10) are gross of the specific self-insured retention and other recoveries.

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	99.9%	100.0%	100.0%
336.0	99.9%	100.0%	100.0%
324.0	99.9%	100.0%	100.0%
312.0	99.8%	100.0%	100.0%
300.0	99.8%	100.0%	100.0%
288.0	99.6%	100.0%	100.0%
276.0	99.5%	100.0%	100.0%
264.0	99.3%	100.0%	100.0%
252.0	99.0%	100.0%	100.0%
240.0	98.5%	99.8%	100.0%
228.0	98.4%	99.7%	100.0%
216.0	98.2%	99.6%	100.0%
204.0	97.9%	99.5%	100.0%
192.0	97.6%	99.4%	100.0%
180.0	97.3%	99.3%	100.0%
168.0	97.1%	99.1%	100.0%
156.0	96.7%	98.9%	100.0%
144.0	96.3%	98.7%	100.0%
132.0	95.7%	98.4%	100.0%
120.0	94.8%	98.0%	100.0%
108.0	92.9%	97.6%	100.0%
96.0	89.5%	96.4%	100.0%
84.0	85.7%	94.5%	100.0%
72.0	78.6%	92.2%	99.9%
60.0	70.8%	86.4%	99.8%
48.0	61.0%	79.6%	99.7%
36.0	49.6%	71.1%	99.4%
24.0	34.2%	59.7%	99.0%
12.0	15.2%	37.3%	96.1%



(2) is from Exhibit WC-HC-Indem-2 (page 2).

(3) is from Exhibit WC-HC-Indem-2 (page 3).

(4) is from Exhibit WC-HC-Indem-2 (page 4).

Historical Unlimited Paid Losses (\$000) and Unlimited Paid Loss Development

I. Historical Unlimited Paid Losses (\$000)

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00													\$41,979	\$43,380	\$43,743	\$44,256	\$44,602	\$45,141	\$45,463	\$45,829	\$49,900
2000/01						1,310	1,327	1,352	1,393	1,393	1,393	1,393	1,402	1,402	1,402	1,536	1,536	1,536	1,536	1,536	
2001/02					902	975	1,041	1,045	1,069	1,069	1,093	1,095	1,095	1,095	1,176	1,176	1,176	1,181	1,196	1,196	
2002/03				1,336	1,415	1,592	2,362	2,426	2,575	2,697	2,715	2,731	2,746	2,930	2,946	2,965	2,981				
2003/04			1,101	1,221	1,381	1,547	1,647	1,648	1,648	1,653	1,653	1,659	1,773	1,815	1,847	1,859					
2004/05		784	1,002	1,136	1,437	1,734	1,781	1,833	1,880	1,957	2,060	2,334	2,381	2,462	2,524						
2005/06	303	518	920	1,137	1,264	1,344	1,437	1,442	1,601	1,619	1,733	1,733	1,733	1,739							
2006/07	368	809	1,184	1,411	1,629	1,714	1,869	1,877	1,920	2,087	2,087	2,087	2,087								
2007/08	442	931	1,263	1,481	1,566	1,580	1,597	1,605	1,742	1,767	1,772	1,883									
2008/09	309	575	756	995	1,148	1,360	1,495	1,920	1,920	1,955	2,016										
2009/10	332	781	1,032	1,146	1,246	1,580	1,709	1,815	1,941	2,046											
2010/11	503	758	947	1,115	1,281	1,594	1,631	1,667	1,722												
2011/12	558	903	1,169	1,368	1,755	1,913	2,108	2,128													
2012/13	334	930	1,179	1,711	2,255	2,422	2,582														
2013/14	480	1,031	1,686	2,042	2,117	2,218															
2014/15	283	881	1,063	1,298	1,374																
2015/16	722	1,329	1,494	1,693																	
2016/17	358	1,021	1,392																		
2017/18	505	1,017																			
2018/19	353																				

II. Unlimited Paid Loss Development

Claim Period	Months of Development:																				
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult	
to 1999/00													1.033	1.008	1.012	1.008	1.012	1.007	1.008	1.089	
2000/01						1.013	1.019	1.030	1.000	1.000	1.000	1.006	1.000	1.000	1.096	1.000	1.000	1.000	1.000		
2001/02					1.081	1.068	1.004	1.023	1.000	1.022	1.001	1.000	1.000	1.075	1.000	1.005	1.012				
2002/03				1.059	1.125	1.484	1.027	1.061	1.048	1.007	1.006	1.005	1.067	1.006	1.006	1.005					
2003/04			1.110	1.131	1.120	1.064	1.000	1.000	1.003	1.000	1.004	1.069	1.024	1.017	1.007						
2004/05		1.278	1.134	1.265	1.206	1.027	1.029	1.026	1.041	1.053	1.133	1.020	1.034	1.025							
2005/06	1.708	1.777	1.236	1.112	1.063	1.069	1.003	1.110	1.011	1.070	1.000	1.000	1.004								
2006/07	2.198	1.464	1.192	1.154	1.052	1.090	1.004	1.022	1.087	1.000	1.000	1.000									
2007/08	2.105	1.356	1.173	1.057	1.009	1.011	1.005	1.086	1.014	1.003	1.063										
2008/09	1.862	1.315	1.315	1.155	1.184	1.099	1.284	1.018	1.031	1.016											
2009/10	2.354	1.322	1.111	1.087	1.268	1.082	1.062	1.069	1.054												
2010/11	1.506	1.250	1.178	1.149	1.244	1.023	1.022	1.033													
2011/12	1.620	1.295	1.170	1.282	1.090	1.102	1.010														
2012/13	2.782	1.268	1.452	1.318	1.074	1.066															
2013/14	2.147	1.636	1.211	1.036	1.048																
2014/15	3.108	1.207	1.221	1.059																	
2015/16	1.840	1.124	1.133																		
2016/17	2.849	1.364																			
2017/18	2.014																				
2018/19																					
Average																					
All	2.161	1.358	1.203	1.143	1.120	1.092	1.039	1.044	1.029	1.019	1.026	1.017	1.020	1.022	1.023	1.006	1.006	1.004	1.089		
Wtd 3	2.123	1.222	1.186	1.137	1.070	1.066	1.030	1.040	1.034	1.006	1.020	1.008	1.022	1.015	1.005	1.004	1.007				
Last 3	2.234	1.232	1.189	1.138	1.071	1.064	1.031	1.040	1.033	1.006	1.021	1.007	1.020	1.016	1.004	1.003	1.006				
Last 5	2.336	1.280	1.201	1.163	1.136	1.083	1.031	1.042	1.033	1.024	1.022	1.009	1.020	1.016	1.007						
x-hi,low																					
Similar	2.342	1.324	1.168	1.099	1.058	1.036	1.022	1.015	1.011	1.008	1.006	1.005	1.003	1.003	1.002	1.002	1.002	1.002	1.021		
Previous	2.250	1.475	1.240	1.170	1.110	1.100	1.050	1.038	1.017	1.010	1.005	1.004	1.004	1.002	1.002	1.002	1.002	1.001	1.001	1.015	
Selected	2.250	1.450	1.230	1.160	1.110	1.090	1.045	1.038	1.020	1.010	1.006	1.004	1.004	1.003	1.003	1.003	1.003	1.002	1.001	1.015	
Cumulative	6.576	2.922	2.016	1.639	1.413	1.273	1.168	1.117	1.076	1.055	1.045	1.039	1.034	1.030	1.027	1.024	1.021	1.018	1.016	1.015	
Percent	15.2%	34.2%	49.6%	61.0%	70.8%	78.6%	85.7%	89.5%	92.9%	94.8%	95.7%	96.3%	96.7%	97.1%	97.3%	97.6%	97.9%	98.2%	98.4%	98.5%	

The County changed data systems during 2016, resulting in a shift between indemnity and medical. The amounts in the 2016 diagonal are not consistent with prior diagonals.

Amounts are unlimited (gross of excess insurance).

Data was provided by the County.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (INDEMNITY)

Historical Unlimited Reported Incurred Losses (\$000) and Unlimited Reported Incurred Loss Development

I. Historical Unlimited Reported Incurred Losses (\$000)

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00													\$49,586	\$49,886	\$48,019	\$45,997	\$46,124	\$46,337	\$46,576	\$46,875	\$54,651
2000/01						1,822	1,876	1,893	1,406	1,406	1,393	1,393	1,402	1,438	1,438	1,536	1,536	1,536	1,536	1,536	
2001/02					1,223	1,324	1,388	1,057	1,081	1,069	1,093	1,095	1,110	1,110	1,191	1,193	1,199	1,199	1,199	1,199	
2002/03				2,091	2,182	2,359	2,528	2,715	2,637	2,743	2,743	2,763	2,858	3,020	3,017	3,018	3,018	3,018	3,018	3,018	
2003/04			1,843	1,854	1,999	1,610	1,701	1,674	1,648	1,653	1,802	1,801	1,890	1,951	1,967	1,967	1,967	1,967	1,967	1,967	
2004/05		1,571	1,810	2,022	1,774	1,874	1,828	1,934	1,937	2,819	2,868	3,134	3,134	3,187	3,181	3,181	3,181	3,181	3,181	3,181	
2005/06	1,153	1,368	1,835	1,295	1,427	1,344	1,437	1,442	1,632	1,629	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	
2006/07	1,075	1,615	1,509	1,634	1,653	1,723	2,041	2,054	2,087	2,107	2,107	2,107	2,102	2,102	2,102	2,102	2,102	2,102	2,102	2,102	
2007/08	1,084	1,292	1,716	1,506	1,582	1,580	1,947	1,826	1,924	1,937	1,961	1,973									
2008/09	879	1,171	848	1,031	1,181	1,789	1,802	2,045	2,075	2,102	2,102	2,127									
2009/10	789	918	1,055	1,200	1,982	2,172	2,201	2,401	2,401	2,407											
2010/11	783	837	1,111	1,730	1,788	1,957	1,847	1,848	1,848	1,848	1,848	1,940									
2011/12	783	1,014	1,772	1,844	2,116	2,335	2,331	2,329													
2012/13	552	1,720	1,979	2,336	2,675	2,929	2,960														
2013/14	1,181	1,764	2,308	2,511	2,495	2,548															
2014/15	760	1,419	1,555	1,632	1,755																
2015/16	1,623	2,123	2,184	2,213																	
2016/17	1,882	2,180	2,118																		
2017/18	1,496	1,797																			
2018/19	1,980																				

II. Unlimited Reported Incurred Loss Development

Claim Period	Months of Development:																				
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult	
to 1999/00												1.006	0.963	0.958	1.003	1.005	1.005	1.006	1.166		
2000/01						1.029	1.009	0.743	1.000	0.991	1.000	1.006	1.026	1.000	1.068	1.000	1.000	1.000	1.000		
2001/02					1.083	1.048	0.761	1.023	0.989	1.022	1.001	1.014	1.000	1.074	1.001	1.005	1.000	1.000	1.000		
2002/03				1.044	1.081	1.072	1.074	0.971	1.040	1.000	1.007	1.034	1.056	0.999	1.000	1.000					
2003/04			1.006	1.078	0.805	1.057	0.984	0.984	1.003	1.090	1.000	1.049	1.032	1.008	1.000						
2004/05		1.153	1.117	0.878	1.057	0.975	1.058	1.001	1.456	1.017	1.093	1.000	1.017	0.998							
2005/06	1.187	1.342	0.706	1.102	0.942	1.069	1.003	1.132	0.998	1.070	1.000	1.000	1.000								
2006/07	1.503	0.934	1.083	1.012	1.042	1.185	1.006	1.016	1.009	1.000	0.998	1.000									
2007/08	1.192	1.329	0.878	1.051	0.998	1.233	0.938	1.054	1.007	1.013	1.006										
2008/09	1.332	0.724	1.216	1.145	1.515	1.007	1.134	1.015	1.013	1.012											
2009/10	1.163	1.150	1.137	1.652	1.096	1.013	1.091	1.000	1.002												
2010/11	1.070	1.327	1.557	1.034	1.094	0.944	1.000	1.049													
2011/12	1.295	1.747	1.041	1.148	1.103	0.998	0.999														
2012/13	3.119	1.151	1.181	1.145	1.095	1.011															
2013/14	1.494	1.309	1.088	0.994	1.021																
2014/15	1.867	1.096	1.050	1.075																	
2015/16	1.308	1.029	1.013																		
2016/17	1.158	0.972																			
2017/18	1.201																				
2018/19																					
Average																					
All	1.453	1.174	1.082	1.104	1.072	1.049	1.005	0.999	1.052	1.024	1.013	1.014	1.013	1.006	1.014	1.002	1.002	1.003	1.166		
Wtd 3	1.220	1.024	1.051	1.069	1.072	0.989	1.031	1.019	1.007	1.008	1.001	1.000	1.017	1.001	1.000	1.001	1.005	1.005	1.005		
Last 3	1.223	1.032	1.050	1.071	1.073	0.984	1.030	1.021	1.007	1.008	1.001	1.000	1.016	1.002	1.001	1.002	1.002	1.002	1.002		
Last 5	1.334	1.092	1.059	1.085	1.095	1.006	1.030	1.027	1.006	1.014	1.002	1.011	1.016	1.003	1.002						
x-hi,low																					
Similar	1.390	1.102	1.043	1.018	1.006	1.001	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.002	1.000	1.001	1.001	1.007		
Previous	1.625	1.200	1.130	1.085	1.067	1.025	1.020	1.013	1.004	1.004	1.003	1.002	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.002	
Selected	1.600	1.190	1.120	1.085	1.067	1.025	1.020	1.013	1.004	1.004	1.003	1.002	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.002	
Cumulative	2.678	1.674	1.407	1.256	1.157	1.085	1.058	1.038	1.024	1.020	1.016	1.013	1.011	1.009	1.006	1.005	1.005	1.004	1.003	1.002	
Percent	37.3%	59.7%	71.1%	79.6%	86.4%	92.2%	94.5%	96.4%	97.6%	98.0%	98.4%	98.7%	98.9%	99.1%	99.3%	99.4%	99.5%	99.6%	99.7%	99.8%	

The County changed data systems during 2016, resulting in a shift between indemnity and medical. The amounts in the 2016 diagonal are not consistent with prior diagonals.

Amounts are unlimited (gross of excess insurance).

Data was provided by the County.

COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (INDEMNITY)

Historical Ratio of Unlimited Paid Losses and Unlimited Reported Incurred Losses

Claim Period	Months of Development:																			
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
to 1999/00												84.7%	87.0%	91.1%	96.2%	96.7%	97.4%	97.6%	97.8%	91.3%
2000/01					73.8%	71.9%	70.7%	71.4%	99.1%	99.1%	100.0%	100.0%	100.0%	100.0%	97.5%	97.5%	100.0%	100.0%	100.0%	
2001/02						73.6%	75.0%	98.9%	98.9%	100.0%	100.0%	100.0%	100.0%	98.6%	98.6%	98.7%	98.6%	98.6%	99.7%	
2002/03				63.9%	64.8%	67.5%	93.4%	89.4%	97.6%	98.3%	99.0%	98.8%	96.1%	97.0%	97.7%	98.2%	98.8%			
2003/04			59.7%	65.9%	69.1%	96.1%	96.8%	98.4%	100.0%	100.0%	91.7%	92.1%	93.8%	93.1%	93.9%	94.5%				
2004/05		49.9%	55.3%	56.2%	81.0%	92.5%	97.4%	94.8%	97.1%	69.4%	71.8%	74.5%	76.0%	77.2%	79.3%					
2005/06	26.3%	37.8%	50.1%	87.8%	88.5%	100.0%	100.0%	100.0%	98.1%	99.4%	99.4%	99.4%	99.4%	99.4%	99.8%					
2006/07	34.2%	50.1%	78.4%	86.4%	98.5%	99.5%	91.6%	91.4%	92.0%	99.1%	99.1%	99.3%	99.3%							
2007/08	40.8%	72.1%	73.6%	98.3%	98.9%	100.0%	82.0%	87.9%	90.6%	91.2%	90.3%	95.5%								
2008/09	35.1%	49.1%	89.2%	96.5%	97.3%	76.0%	83.0%	93.9%	94.2%	95.9%	96.3%									
2009/10	42.0%	85.0%	97.8%	95.5%	62.9%	72.7%	77.6%	75.6%	80.8%	85.0%										
2010/11	64.3%	90.5%	85.3%	64.5%	71.7%	81.5%	88.3%	90.2%	88.8%											
2011/12	71.2%	89.1%	66.0%	74.2%	82.9%	81.9%	90.4%	91.4%												
2012/13	60.6%	54.0%	59.6%	73.2%	84.3%	82.7%														
2013/14	40.7%	58.5%	73.0%	81.3%	84.8%	87.0%														
2014/15	37.3%	62.1%	68.4%	79.5%	78.3%															
2015/16	44.5%	62.6%	68.4%	76.5%																
2016/17	19.0%	46.8%	65.7%																	
2017/18	33.8%	56.6%																		
2018/19	17.8%																			
Average																				
All	40.5%	61.7%	70.7%	78.6%	81.2%	84.5%	87.2%	90.3%	94.3%	93.7%	94.2%	93.8%	93.8%	93.5%	93.9%	97.6%	98.7%	99.1%	98.9%	91.3%
Last 3	23.6%	55.4%	67.5%	79.1%	82.5%	83.9%	88.6%	85.7%	87.9%	90.7%	95.2%	98.1%	91.6%	90.0%	90.3%	97.1%	99.1%	99.1%		
Last 5	30.0%	59.0%	67.5%	76.8%	81.8%	82.0%	86.2%	89.8%	90.4%	95.4%	95.2%	95.6%	96.4%	96.3%	96.3%	97.8%				
x-hi,low																				
Implicit	40.7%	57.3%	69.8%	76.6%	81.9%	85.2%	90.6%	92.9%	95.2%	96.7%	97.3%	97.5%	97.7%	97.9%	98.0%	98.2%	98.4%	98.6%	98.7%	98.7%
Prior	40.5%	56.1%	68.9%	75.6%	81.5%	84.8%	91.0%	93.7%	96.0%	97.3%	97.8%	98.0%	98.2%	98.4%	98.4%	98.5%	98.6%	98.7%	98.7%	98.7%



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (INDEMNITY)

Exhibit WC-HC-Indem-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Paid Losses 11/30/19 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1999/00	240.0	\$49,800,008	98.5%	\$50,547,008
2000/01	228.0	1,535,565	98.4%	1,560,157
2001/02	216.0	1,187,124	98.2%	1,208,548
2002/03	204.0	2,975,058	97.9%	3,037,835
2003/04	192.0	1,858,435	97.6%	1,903,343
2004/05	180.0	2,523,584	97.3%	2,592,319
2005/06	168.0	1,739,346	97.1%	1,792,081
2006/07	156.0	2,086,766	96.7%	2,158,634
2007/08	144.0	1,883,245	96.3%	1,955,896
2008/09	132.0	2,047,578	95.7%	2,139,328
2009/10	120.0	2,046,150	94.8%	2,159,214
2010/11	108.0	1,721,943	92.9%	1,853,434
2011/12	96.0	2,101,004	89.5%	2,347,377
2012/13	84.0	2,577,475	85.7%	3,009,307
2013/14	72.0	2,217,405	78.6%	2,821,913
2014/15	60.0	1,361,324	70.8%	1,923,017
2015/16	48.0	1,690,542	61.0%	2,770,165
2016/17	36.0	1,388,536	49.6%	2,798,606
2017/18	24.0	1,013,809	34.2%	2,962,844
2018/19	12.0	353,096	15.2%	2,321,816
Total		\$84,107,990		\$93,862,842

(3) is from Exhibit WC-HC-Indem-1.

(4) is from Exhibit WC-HC-Indem-2.



COOK COUNTY, ILLINOIS
 WORKERS' COMPENSATION - HEALTH CARE FACILITIES (INDEMNITY)

Exhibit WC-HC-Indem-4

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1999/00	240.0	\$54,550,827	99.8%	\$54,659,929
2000/01	228.0	1,535,565	99.7%	1,540,175
2001/02	216.0	1,190,124	99.6%	1,194,891
2002/03	204.0	3,012,597	99.5%	3,027,688
2003/04	192.0	1,966,560	99.4%	1,978,387
2004/05	180.0	3,180,699	99.3%	3,203,028
2005/06	168.0	1,742,803	99.1%	1,758,548
2006/07	156.0	2,101,766	98.9%	2,124,995
2007/08	144.0	1,972,752	98.7%	1,998,544
2008/09	132.0	2,127,145	98.4%	2,161,421
2009/10	120.0	2,406,904	98.0%	2,455,470
2010/11	108.0	1,939,641	97.6%	1,986,694
2011/12	96.0	2,301,836	96.4%	2,388,325
2012/13	84.0	2,955,449	94.5%	3,127,827
2013/14	72.0	2,548,050	92.2%	2,764,083
2014/15	60.0	1,741,883	86.4%	2,016,167
2015/16	48.0	2,209,928	79.6%	2,775,335
2016/17	36.0	2,114,480	71.1%	2,974,123
2017/18	24.0	1,793,411	59.7%	3,001,802
2018/19	12.0	1,979,545	37.3%	5,301,363
Total		\$95,371,965		\$102,438,793

(3) is from Exhibit WC-HC-Indem-1.

(4) is from Exhibit WC-HC-Indem-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (INDEMNITY)

Exhibit WC-HC-Indem-5

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/19 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/19 (6)	Limited Case Reserves 11/30/19 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1999/00	240.0	98.5%	99.8%	86.5%	\$49,800,008	\$4,750,819	\$55,292,686
2000/01	228.0	98.4%	99.7%	81.0%	1,535,565	0	1,535,565
2001/02	216.0	98.2%	99.6%	77.5%	1,187,124	3,000	1,190,995
2002/03	204.0	97.9%	99.5%	75.9%	2,975,058	37,540	3,024,529
2003/04	192.0	97.6%	99.4%	74.7%	1,858,435	108,124	2,003,251
2004/05	180.0	97.3%	99.3%	73.7%	2,523,584	657,115	3,415,087
2005/06	168.0	97.1%	99.1%	69.6%	1,739,346	3,457	1,744,315
2006/07	156.0	96.7%	98.9%	67.2%	2,086,766	15,000	2,109,098
2007/08	144.0	96.3%	98.7%	65.3%	1,883,245	89,507	2,020,408
2008/09	132.0	95.7%	98.4%	63.0%	2,047,578	79,568	2,173,827
2009/10	120.0	94.8%	98.0%	62.2%	2,046,150	360,754	2,625,879
2010/11	108.0	92.9%	97.6%	66.6%	1,721,943	217,698	2,048,737
2011/12	96.0	89.5%	96.4%	65.5%	2,101,004	200,832	2,407,633
2012/13	84.0	85.7%	94.5%	61.6%	2,577,475	377,975	3,191,121
2013/14	72.0	78.6%	92.2%	63.5%	2,217,405	330,645	2,737,980
2014/15	60.0	70.8%	86.4%	53.4%	1,361,324	380,559	2,073,655
2015/16	48.0	61.0%	79.6%	47.7%	1,690,542	519,387	2,778,792
2016/17	36.0	49.6%	71.1%	42.6%	1,388,536	725,945	3,091,301
2017/18	24.0	34.2%	59.7%	38.8%	1,013,809	779,602	3,022,824
2018/19	12.0	15.2%	37.3%	26.1%	353,096	1,626,449	6,584,201
Total					\$84,107,990	\$11,263,975	\$105,071,884

(3) and (4) are from Exhibit WC-HC-Indem-2.

(6) and (7) are from Exhibit WC-HC-Indem-1.



COOK COUNTY, ILLINOIS
 WORKERS' COMPENSATION - HEALTH CARE FACILITIES (INDEMNITY)

Exhibit WC-HC-Indem-6

Preliminary Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	Preliminary Projected Ultimate Limited Losses (5)
to 1999/00	\$50,547,008	\$54,659,929	\$55,292,686	\$55,292,686
2000/01	1,560,157	1,540,175	1,535,565	1,535,565
2001/02	1,208,548	1,194,891	1,190,995	1,190,995
2002/03	3,037,835	3,027,688	3,024,529	3,024,529
2003/04	1,903,343	1,978,387	2,003,251	2,003,251
2004/05	2,592,319	3,203,028	3,415,087	3,415,087
2005/06	1,792,081	1,758,548	1,744,315	1,744,315
2006/07	2,158,634	2,124,995	2,109,098	2,109,098
2007/08	1,955,896	1,998,544	2,020,408	2,020,408
2008/09	2,139,328	2,161,421	2,173,827	2,173,827
2009/10	2,159,214	2,455,470	2,625,879	2,625,879
2010/11	1,853,434	1,986,694	2,048,737	2,048,737
2011/12	2,347,377	2,388,325	2,407,633	2,405,702
2012/13	3,009,307	3,127,827	3,191,121	3,178,462
2013/14	2,821,913	2,764,083	2,737,980	2,745,811
2014/15	1,923,017	2,016,167	2,073,655	2,050,660
2015/16	2,770,165	2,775,335	2,778,792	2,776,547
2016/17	2,798,606	2,974,123	3,091,301	2,985,891
2017/18	2,962,844	3,001,802	3,022,824	3,002,419
2018/19	2,321,816	5,301,363	6,584,201	4,132,299
Total	\$93,862,842	\$102,438,793	\$105,071,884	\$102,462,168

(2) is from Exhibit WC-HC-Indem-3.

(3) is from Exhibit WC-HC-Indem-4.

(4) is from Exhibit WC-HC-Indem-5.

(5) is based on (2) to (4) and actuarial judgment.

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Payroll (000) (3)	Limited Loss Rate per \$100 of Payroll (2)/(3)/10 (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)	Projected A-priori Loss Rate per \$100 of Payroll (7)/(5) (8)
2009/10	\$2,625,879	\$526,535	\$0.50	1.152	\$0.57	\$0.51
2010/11	2,048,737	489,053	0.42	1.143	0.48	0.52
2011/12	2,405,702	515,084	0.47	1.147	0.54	0.52
2012/13	3,178,462	482,783	0.66	1.129	0.74	0.53
2013/14	2,745,811	482,783	0.57	1.110	0.63	0.53
2014/15	2,050,660	468,483	0.44	1.090	0.48	0.54
2015/16	2,776,547	497,031	0.56	1.067	0.60	0.56
2016/17	2,985,891	529,113	0.56	1.048	0.59	0.57
2017/18	3,002,419	539,050	0.56	1.031	0.57	0.57
2018/19	4,132,299	580,283	0.71	1.015	0.72	0.58

(7) Projected 2019/20 a-priori loss rate per \$100 of Payroll \$0.59

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Percent Losses Paid (3)	Projected A-priori Loss Rate per \$100 of Payroll (4)	Payroll (000) (5)	B-F Unpaid Losses [100.0%-(3)] X(4)X(5)X10 (6)	B-F Ultimate Limited Paid Losses (2)+(6) (7)
2014/15	\$1,361,324	70.8%	\$0.54	\$468,483	\$743,958	\$2,105,282
2015/16	1,690,542	61.0%	0.56	497,031	1,075,365	2,765,907
2016/17	1,388,536	49.6%	0.57	529,113	1,506,776	2,895,312
2017/18	1,013,809	34.2%	0.57	539,050	2,037,081	3,050,890
2018/19	353,096	15.2%	0.58	580,283	2,872,428	3,225,524

III. Bornhuetter - Ferguson Analysis Based on Limited Reported Incurred Losses

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Percent Losses Reported (3)	Projected A-priori Loss Rate per \$100 of Payroll (4)	Payroll (000) (5)	B-F Unreported Losses [100.0%-(3)] X(4)X(5)X10 (6)	B-F Ultimate Limited Reported Losses (2)+(6) (7)
2014/15	\$1,741,883	86.4%	\$0.54	\$468,483	\$346,503	\$2,088,386
2015/16	2,209,928	79.6%	0.56	497,031	562,128	2,772,057
2016/17	2,114,480	71.1%	0.57	529,113	864,388	2,978,868
2017/18	1,793,411	59.7%	0.57	539,050	1,246,588	3,039,999
2018/19	1,979,545	37.3%	0.58	580,283	2,122,664	4,102,209

Section I, (2) is from Exhibit WC-HC-Indem-6.

Section I, (3), Section II, (5) and Section III, (5) are from Exhibit WC-HC-Indem-10.

Section I, (5) is from Exhibit WC-HC-Indem-15.

Section I, (7) is based on Section I, (6) and actuarial judgment.

Sections II and III, (2) are from Exhibit WC-HC-Indem-1.

Sections II and III, (3) are from Exhibit WC-HC-Indem-2.

Sections II and III, (4) are from Section I, (8).

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/19 (2)	Reported Claims 11/30/19 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2009/10	120.0	214	100.0%	214	\$526,535	0.41
2010/11	108.0	202	100.0%	202	489,053	0.41
2011/12	96.0	169	100.0%	169	515,084	0.33
2012/13	84.0	143	100.0%	143	482,783	0.30
2013/14	72.0	158	99.9%	158	482,783	0.33
2014/15	60.0	158	99.8%	158	468,483	0.34
2015/16	48.0	176	99.7%	177	497,031	0.36
2016/17	36.0	167	99.4%	168	529,113	0.32
2017/18	24.0	179	99.0%	181	539,050	0.34
2018/19	12.0	153	96.1%	159	580,283	0.27

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2019/20 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2019/20 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2009/10	\$2,625,879	214	\$12,270	1.548	\$18,995	\$13,541	\$2,897,693
2010/11	2,048,737	202	10,142	1.491	15,121	14,059	2,839,973
2011/12	2,405,702	169	14,235	1.453	20,682	14,427	2,438,165
2012/13	3,178,462	143	22,227	1.388	30,851	15,102	2,159,545
2013/14	2,745,811	158	17,379	1.326	23,035	15,814	2,498,555
2014/15	2,050,660	158	12,979	1.263	16,398	16,590	2,621,222
2015/16	2,776,547	177	15,687	1.201	18,845	17,448	3,088,338
2016/17	2,985,891	168	17,773	1.146	20,361	18,297	3,073,925
2017/18	3,002,419	181	16,588	1.094	18,152	19,155	3,467,100
2018/19	4,132,299	159	25,989	1.045	27,171	20,050	3,187,918
						(7) Projected 2019/20 average claim severity \$20,961	

Section I, (3) is from Exhibit WC-HC-Indem-1.

Section I, (4) is from Exhibit WC-HC-Indem-2.

Section I, (6) is from Exhibit WC-HC-Indem-10.

Section II, (2) is from Exhibit WC-HC-Indem-6.

Section II, (3) is from Section I, (5).

Section II, (5) is from Exhibit WC-HC-Indem-15.

Section II, (7) is based on (6) and actuarial judgment.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (INDEMNITY)

Exhibit WC-HC-Indem-9

Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	B-F Ultimate Limited Paid Losses (5)	B-F Ultimate Limited Reported Losses (6)	Frequency Times Severity (7)	Prior Projected Ultimate Limited Losses (8)	Projected Ultimate Limited Losses (9)
to 1999/00	\$50,547,008	\$54,659,929	\$55,292,686				\$54,411,218	\$55,000,000
2000/01	1,560,157	1,540,175	1,535,565				1,535,565	1,535,565
2001/02	1,208,548	1,194,891	1,190,995				1,205,000	1,191,000
2002/03	3,037,835	3,027,688	3,024,529				3,034,000	3,025,000
2003/04	1,903,343	1,978,387	2,003,251				2,020,000	2,003,000
2004/05	2,592,319	3,203,028	3,415,087				3,300,000	3,275,000
2005/06	1,792,081	1,758,548	1,744,315				1,749,000	1,744,000
2006/07	2,158,634	2,124,995	2,109,098				2,112,000	2,109,000
2007/08	1,955,896	1,998,544	2,020,408				2,103,000	2,020,000
2008/09	2,139,328	2,161,421	2,173,827				2,166,000	2,174,000
2009/10	2,159,214	2,455,470	2,625,879				2,681,000	2,626,000
2010/11	1,853,434	1,986,694	2,048,737				1,953,000	2,000,000
2011/12	2,347,377	2,388,325	2,407,633				2,451,000	2,408,000
2012/13	3,009,307	3,127,827	3,191,121				3,200,000	3,178,000
2013/14	2,821,913	2,764,083	2,737,980				2,900,000	2,746,000
2014/15	1,923,017	2,016,167	2,073,655	2,105,282	2,088,386	2,621,222	2,100,000	2,051,000
2015/16	2,770,165	2,775,335	2,778,792	2,765,907	2,772,057	3,088,338	3,100,000	2,780,000
2016/17	2,798,606	2,974,123	3,091,301	2,895,312	2,978,868	3,073,925	3,700,000	2,990,000
2017/18	2,962,844	3,001,802	3,022,824	3,050,890	3,039,999	3,467,100	3,700,000	3,030,000
2018/19	2,321,816	5,301,363	6,584,201	3,225,524	4,102,209	3,187,918	3,482,000	4,000,000
Total	\$93,862,842	\$102,438,793	\$105,071,884				\$102,902,783	\$101,885,565
2014/15 - 2018/19	12,776,447	16,068,790	17,550,772	14,042,915	14,981,518	15,438,503	16,082,000	14,851,000
to 2013/14	81,086,395	86,370,003	87,521,112				86,820,783	87,034,565
						Change		
						All years		-\$1,017,218
						2014/15 - 2018/19		-1,231,000
						to 2013/14		213,782

- (2) is from Exhibit WC-HC-Indem-3.
- (3) is from Exhibit WC-HC-Indem-4.
- (4) is from Exhibit WC-HC-Indem-5.
- (5) and (6) are from Exhibit WC-HC-Indem-7.
- (7) is from Exhibit WC-HC-Indem-8.
- (8) is based on (2) to (7) and actuarial judgment.

Projected Ultimate Limited Losses for 2019/20 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Payroll (000) (3)	Limited Loss Rate per \$100 of Payroll (2)/(3)/10 (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2009/10	\$2,626,000	\$526,535	\$0.50	1.152	\$0.57
2010/11	2,000,000	489,053	0.41	1.143	0.47
2011/12	2,408,000	515,084	0.47	1.147	0.54
2012/13	3,178,000	482,783	0.66	1.129	0.74
2013/14	2,746,000	482,783	0.57	1.110	0.63
2014/15	2,051,000	468,483	0.44	1.090	0.48
2015/16	2,780,000	497,031	0.56	1.067	0.60
2016/17	2,990,000	529,113	0.57	1.048	0.59
2017/18	3,030,000	539,050	0.56	1.031	0.58
2018/19	4,000,000	580,283	0.69	1.015	0.70
Total	\$27,809,000	\$5,110,198	\$0.54		\$0.59

Claim Period (1)	Projected Limited Loss Rate per \$100 of Payroll (7)	Projected Payroll (000) (8)	Projected Ultimate Limited Losses (7)X(8)X10 (9)	Present Value Factor (10)	Present Value of Projected Limited Loss Rate per \$100 of Payroll (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11)X10 (12)
2019/20	\$0.60	\$524,163	\$3,163,000	0.94	\$0.57	\$2,969,000
2020/21	0.61	524,163	3,210,000	0.94	0.57	3,014,000
2021/22	0.62	524,163	3,259,000	0.94	0.58	3,059,000

(2) is from Exhibit WC-HC-Indem-9.

(3) was provided by the County.

(5) is from Exhibit WC-HC-Indem-15.

(7) 2019/20 is based on (6) and actuarial judgment.
Other period(s) based on 2019/20 plus the trend in Exhibit WC-HC-Indem-15.

(8) to 2019/20 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-HC-Indem-2.



COOK COUNTY, ILLINOIS
 WORKERS' COMPENSATION - HEALTH CARE FACILITIES (INDEMNITY)

Exhibit WC-HC-Indem-11

Estimated Outstanding Losses as of November 30, 2019

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Limited Case Reserves 11/30/19 (3)	Limited Reported Incurred Losses 11/30/19 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/19 (5)-(4) (6)	Estimated Outstanding Losses 11/30/19 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/19 (7)X(8) (9)
to 1999/00	\$49,800,008	\$4,750,819	\$54,550,827	\$55,000,000	\$449,173	\$5,199,992	0.96	\$4,979,137
2000/01	1,535,565	0	1,535,565	1,535,565	0	0	0.95	0
2001/02	1,187,124	3,000	1,190,124	1,191,000	876	3,876	0.94	3,633
2002/03	2,975,058	37,540	3,012,597	3,025,000	12,403	49,943	0.93	46,564
2003/04	1,858,435	108,124	1,966,560	2,003,000	36,440	144,564	0.93	133,984
2004/05	2,523,584	657,115	3,180,699	3,275,000	94,301	751,416	0.92	692,005
2005/06	1,739,346	3,457	1,742,803	1,744,000	1,197	4,654	0.91	4,258
2006/07	2,086,766	15,000	2,101,766	2,109,000	7,234	22,234	0.91	20,255
2007/08	1,883,245	89,507	1,972,752	2,020,000	47,248	136,755	0.91	123,961
2008/09	2,047,578	79,568	2,127,145	2,174,000	46,855	126,423	0.91	114,472
2009/10	2,046,150	360,754	2,406,904	2,626,000	219,096	579,850	0.91	527,308
2010/11	1,721,943	217,698	1,939,641	2,000,000	60,359	278,057	0.92	255,924
2011/12	2,101,004	200,832	2,301,836	2,408,000	106,164	306,996	0.93	286,661
2012/13	2,577,475	377,975	2,955,449	3,178,000	222,551	600,526	0.94	563,650
2013/14	2,217,405	330,645	2,548,050	2,746,000	197,950	528,595	0.95	500,198
2014/15	1,361,324	380,559	1,741,883	2,051,000	309,117	689,676	0.95	653,456
2015/16	1,690,542	519,387	2,209,928	2,780,000	570,072	1,089,459	0.95	1,032,149
2016/17	1,388,536	725,945	2,114,480	2,990,000	875,520	1,601,465	0.95	1,514,821
2017/18	1,013,809	779,602	1,793,411	3,030,000	1,236,589	2,016,191	0.95	1,905,744
2018/19	353,096	1,626,449	1,979,545	4,000,000	2,020,455	3,646,904	0.94	3,443,037
Total	\$84,107,990	\$11,263,975	\$95,371,965	\$101,885,565	\$6,513,600	\$17,777,576		\$16,801,217

(2), (3) and (4) are net of specific self-insured retention and aggregate retention.

(5) is from Exhibit WC-HC-Indem-9.

(8) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-HC-Indem-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (INDEMNITY)

Exhibit WC-HC-Indem-12

Projected Losses Paid December 1, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1999/00	240.0	98.5%	252.0	99.0%	20.0% *	\$5,199,992	\$1,039,998	\$4,159,994	0.96	\$3,984,910
2000/01	228.0	98.4%	240.0	98.5%	6.2% *	0	0	0	0.96	0
2001/02	216.0	98.2%	228.0	98.4%	11.1% *	3,876	430	3,446	0.95	3,258
2002/03	204.0	97.9%	216.0	98.2%	14.2% *	49,943	7,101	42,842	0.94	40,156
2003/04	192.0	97.6%	204.0	97.9%	12.4% *	144,564	17,948	126,616	0.93	118,050
2004/05	180.0	97.3%	192.0	97.6%	11.0% *	751,416	82,764	668,652	0.93	619,718
2005/06	168.0	97.1%	180.0	97.3%	9.9% *	4,654	461	4,193	0.92	3,861
2006/07	156.0	96.7%	168.0	97.1%	11.6% *	22,234	2,582	19,652	0.91	17,978
2007/08	144.0	96.3%	156.0	96.7%	10.4% *	136,755	14,180	122,575	0.91	111,663
2008/09	132.0	95.7%	144.0	96.3%	13.4% *	126,423	16,928	109,495	0.91	99,251
2009/10	120.0	94.8%	132.0	95.7%	18.1% *	579,850	104,936	474,914	0.91	430,020
2010/11	108.0	92.9%	120.0	94.8%	20.0% *	278,057	55,611	222,446	0.91	202,289
2011/12	96.0	89.5%	108.0	92.9%	20.0% *	306,996	61,399	245,597	0.92	226,048
2012/13	84.0	85.7%	96.0	89.5%	20.0% *	600,526	120,105	480,421	0.93	448,598
2013/14	72.0	78.6%	84.0	85.7%	20.0% *	528,595	105,719	422,876	0.94	396,909
2014/15	60.0	70.8%	72.0	78.6%	20.0% *	689,676	137,935	551,741	0.95	522,100
2015/16	48.0	61.0%	60.0	70.8%	20.0% *	1,089,459	217,892	871,567	0.95	825,795
2016/17	36.0	49.6%	48.0	61.0%	20.0% *	1,601,465	320,293	1,281,172	0.95	1,213,777
2017/18	24.0	34.2%	36.0	49.6%	20.0% *	2,016,191	403,238	1,612,953	0.95	1,525,688
2018/19	12.0	15.2%	24.0	34.2%	20.0% *	3,646,904	729,381	2,917,523	0.95	2,757,701
2019/20	0.0	0.0%	12.0	15.2%	15.2% *	3,163,000	481,021	2,681,979	0.94	2,532,053
Total						\$20,940,576	\$3,919,922	\$17,020,654		\$16,079,823

* - Limited to a maximum of 20% per actuarial judgment.

(3) and (5) are from Exhibit WC-HC-Indem-2.

(7) to 2018/19 is from Exhibit WC-HC-Indem-11. The amount for 2019/20 is from Exhibit WC-HC-Indem-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-HC-Indem-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (INDEMNITY)

Exhibit WC-HC-Indem-13

Projected Losses Paid December 1, 2020 to November 30, 2021

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Months of Development 11/30/21 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/20 to 11/30/21 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/20 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/21 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/21 (9)X(10) (11)
to 1999/00	252.0	99.0%	264.0	99.3%	20.0% *	\$4,159,994	\$831,999	\$3,327,995	0.96	\$3,189,786
2000/01	240.0	98.5%	252.0	99.0%	20.0% *	0	0	0	0.96	0
2001/02	228.0	98.4%	240.0	98.5%	6.2% *	3,446	215	3,231	0.96	3,094
2002/03	216.0	98.2%	228.0	98.4%	11.1% *	42,842	4,748	38,094	0.95	36,016
2003/04	204.0	97.9%	216.0	98.2%	14.2% *	126,616	18,001	108,615	0.94	101,805
2004/05	192.0	97.6%	204.0	97.9%	12.4% *	668,652	83,013	585,639	0.93	546,017
2005/06	180.0	97.3%	192.0	97.6%	11.0% *	4,193	462	3,731	0.93	3,458
2006/07	168.0	97.1%	180.0	97.3%	9.9% *	19,652	1,945	17,707	0.92	16,307
2007/08	156.0	96.7%	168.0	97.1%	11.6% *	122,575	14,236	108,339	0.91	99,111
2008/09	144.0	96.3%	156.0	96.7%	10.4% *	109,495	11,353	98,142	0.91	89,405
2009/10	132.0	95.7%	144.0	96.3%	13.4% *	474,914	63,592	411,322	0.91	372,842
2010/11	120.0	94.8%	132.0	95.7%	18.1% *	222,446	40,256	182,190	0.91	164,968
2011/12	108.0	92.9%	120.0	94.8%	20.0% *	245,597	49,119	196,478	0.91	178,675
2012/13	96.0	89.5%	108.0	92.9%	20.0% *	480,421	96,084	384,337	0.92	353,744
2013/14	84.0	85.7%	96.0	89.5%	20.0% *	422,876	84,575	338,301	0.93	315,892
2014/15	72.0	78.6%	84.0	85.7%	20.0% *	551,741	110,348	441,393	0.94	414,289
2015/16	60.0	70.8%	72.0	78.6%	20.0% *	871,567	174,313	697,254	0.95	659,796
2016/17	48.0	61.0%	60.0	70.8%	20.0% *	1,281,172	256,234	1,024,938	0.95	971,111
2017/18	36.0	49.6%	48.0	61.0%	20.0% *	1,612,953	322,591	1,290,362	0.95	1,222,484
2018/19	24.0	34.2%	36.0	49.6%	20.0% *	2,917,523	583,505	2,334,018	0.95	2,207,741
2019/20	12.0	15.2%	24.0	34.2%	20.0% *	2,681,979	536,396	2,145,583	0.95	2,028,048
2020/21	0.0	0.0%	12.0	15.2%	15.2% *	3,210,000	488,169	2,721,831	0.94	2,569,677
Total						\$20,230,654	\$3,771,154	\$16,459,500		\$15,544,266

* - Limited to a maximum of 20% per actuarial judgment.

(3) and (5) are from Exhibit WC-HC-Indem-2.

(7) to 2019/20 is from Exhibit WC-HC-Indem-12, (9). The amount for 2020/21 is from Exhibit WC-HC-Indem-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-HC-Indem-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (INDEMNITY)

Exhibit WC-HC-Indem-14

Projected Losses Paid December 1, 2021 to November 30, 2022

Claim Period (1)	Months of Development 11/30/21 (2)	Percent Losses Paid (3)	Months of Development 11/30/22 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/21 to 11/30/22 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/21 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/22 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/22 (9)X(10) (11)
to 1999/00	264.0	99.3%	276.0	99.5%	20.0% *	\$3,327,995	\$665,599	\$2,662,396	0.96	\$2,553,986
2000/01	252.0	99.0%	264.0	99.3%	20.0% *	0	0	0	0.96	0
2001/02	240.0	98.5%	252.0	99.0%	20.0% *	3,231	646	2,585	0.96	2,476
2002/03	228.0	98.4%	240.0	98.5%	6.2% *	38,094	2,379	35,715	0.96	34,198
2003/04	216.0	98.2%	228.0	98.4%	11.1% *	108,615	12,037	96,578	0.95	91,311
2004/05	204.0	97.9%	216.0	98.2%	14.2% *	585,639	83,262	502,377	0.94	470,878
2005/06	192.0	97.6%	204.0	97.9%	12.4% *	3,731	463	3,268	0.93	3,047
2006/07	180.0	97.3%	192.0	97.6%	11.0% *	17,707	1,950	15,757	0.93	14,604
2007/08	168.0	97.1%	180.0	97.3%	9.9% *	108,339	10,720	97,619	0.92	89,901
2008/09	156.0	96.7%	168.0	97.1%	11.6% *	98,142	11,399	86,743	0.91	79,354
2009/10	144.0	96.3%	156.0	96.7%	10.4% *	411,322	42,649	368,673	0.91	335,854
2010/11	132.0	95.7%	144.0	96.3%	13.4% *	182,190	24,395	157,795	0.91	143,033
2011/12	120.0	94.8%	132.0	95.7%	18.1% *	196,478	35,557	160,921	0.91	145,709
2012/13	108.0	92.9%	120.0	94.8%	20.0% *	384,337	76,867	307,470	0.91	279,609
2013/14	96.0	89.5%	108.0	92.9%	20.0% *	338,301	67,660	270,641	0.92	249,098
2014/15	84.0	85.7%	96.0	89.5%	20.0% *	441,393	88,279	353,114	0.93	329,724
2015/16	72.0	78.6%	84.0	85.7%	20.0% *	697,254	139,451	557,803	0.94	523,550
2016/17	60.0	70.8%	72.0	78.6%	20.0% *	1,024,938	204,988	819,950	0.95	775,900
2017/18	48.0	61.0%	60.0	70.8%	20.0% *	1,290,362	258,072	1,032,290	0.95	978,077
2018/19	36.0	49.6%	48.0	61.0%	20.0% *	2,334,018	466,804	1,867,214	0.95	1,768,991
2019/20	24.0	34.2%	36.0	49.6%	20.0% *	2,145,583	429,117	1,716,466	0.95	1,623,600
2020/21	12.0	15.2%	24.0	34.2%	20.0% *	2,721,831	544,366	2,177,465	0.95	2,058,183
2021/22	0.0	0.0%	12.0	15.2%	15.2% *	3,259,000	495,620	2,763,380	0.94	2,608,903
Total						\$19,718,500	\$3,662,280	\$16,056,220		\$15,159,986

* - Limited to a maximum of 20% per actuarial judgment.

(3) and (5) are from Exhibit WC-HC-Indem-2.

(7) to 2020/21 is from Exhibit WC-HC-Indem-13, (9). The amount for 2021/22 is from Exhibit WC-HC-Indem-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-HC-Indem-2.

Loss Rate and Severity Trend

I. Benefit Level Changes

Effective Date (1)	Benefit Level Change (2)	Cumulative Benefit Level Change (3)
01/15/10	1.004	1.004
07/01/10	1.001	1.004
07/15/10	1.002	1.007
06/28/11	0.989	0.996
07/01/11	1.001	0.997
09/01/11	0.983	0.980
01/15/13	1.001	0.981
07/15/13	1.001	0.982
01/15/14	1.001	0.983
01/15/15	1.002	0.985
07/01/15	1.002	0.987
07/15/15	1.002	0.989
01/15/16	1.002	0.991
07/01/16	1.002	0.992
07/15/16	1.002	0.994
07/01/17	1.001	0.995
07/01/18	1.001	0.996
07/15/18	1.001	0.997

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2019/20 = 1.000) (2)	Residual Trend (2019/20 = 1.000) (3)	Retention Index (2019/20 = 1.000) (4)	Loss Rate Trend (2019/20 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2019/20 = 1.000) (6)	Severity Trend (2019/20 = 1.000) (5)X(6) (7)
2009/10	0.993	1.161	1.000	1.152	1.344	1.548
2010/11	0.999	1.143	1.000	1.143	1.305	1.491
2011/12	1.018	1.126	1.000	1.147	1.267	1.453
2012/13	1.017	1.110	1.000	1.129	1.230	1.388
2013/14	1.015	1.093	1.000	1.110	1.194	1.326
2014/15	1.012	1.077	1.000	1.090	1.159	1.263
2015/16	1.006	1.061	1.000	1.067	1.126	1.201
2016/17	1.003	1.046	1.000	1.048	1.093	1.146
2017/18	1.001	1.030	1.000	1.031	1.061	1.094
2018/19	1.000	1.015	1.000	1.015	1.030	1.045
2019/20	1.000	1.000	1.000	1.000	1.000	1.000
2020/21	1.000	0.985	1.000	0.985	0.971	0.957
2021/22	1.000	0.971	1.000	0.971	0.943	0.915

Section I, (2) and (3) reflect data published by the NCCI.

Section II, (2) is based on Section I, (2).

Section II, (3) is based on 1.5% trend per actuarial judgment.

Section II, (4) is based on industry statistics and actuarial judgment.

Section II, (6) is based on 3% trend.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (INDEMNITY)

Exhibit WC-HC-Indem-16

List of Large Claims
Reported Incurred Losses Greater Than \$1,000,000

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/19 (5)	Unlimited Case Reserves 11/30/19 (6)	Unlimited Reported Incurred Losses 11/30/19 (7)
20040024	07/28/89	to 1999/00	Unlimited	\$725,355	\$413,739	\$1,139,094
951084	06/14/95	to 1999/00	Unlimited	180,599	1,630,717	1,811,316
960092	11/12/95	to 1999/00	Unlimited	793,489	642,801	1,436,290
971237	07/28/97	to 1999/00	Unlimited	929,713	500,730	1,430,443
20050890	05/08/05	2004/05	Unlimited	721,872	657,115	1,378,987

Amounts are gross of excess insurance and net of other recoveries.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (INDEMNITY)

Exhibit WC-HC-Indem-17

Size of Loss Distribution

I. Reported Claim Count

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	4,812	5	4	4	5	19	4,849		
0.01 - 5,000	4,973	101	127	123	131	90	5,545	5,545	71.3%
5,000 - 10,000	630	16	5	4	7	9	671	6,216	79.9%
10,000 - 25,000	664	17	11	13	8	11	724	6,940	89.2%
25,000 - 50,000	349	9	11	11	13	9	402	7,342	94.4%
50,000 - 100,000	221	6	12	7	14	12	272	7,614	97.9%
100,000 - 250,000	111	4	6	5	1	3	130	7,744	99.5%
250,000 - 500,000	22	0	0	0	0	0	22	7,766	99.8%
500,000 - 750,000	7	0	0	0	0	0	7	7,773	99.9%
750,000 - 1,000,000	3	0	0	0	0	0	3	7,776	99.9%
Over 1,000,000	5	0	0	0	0	0	5	7,781	100.0%
Total	11,797	158	176	167	179	153	12,630	7,781	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
0.01 - 5,000	5,065,627	43,746	82,396	70,240	52,636	48,194	5,362,839	5,362,839	5.6%
5,000 - 10,000	4,534,162	122,259	31,858	33,601	47,392	62,923	4,832,195	10,195,035	10.7%
10,000 - 25,000	10,401,001	255,000	159,448	218,606	160,204	189,307	11,383,566	21,578,601	22.6%
25,000 - 50,000	11,938,546	334,565	414,579	408,172	454,023	311,640	13,861,524	35,440,125	37.2%
50,000 - 100,000	15,063,337	450,004	743,817	500,417	976,721	827,443	18,561,738	54,001,862	56.6%
100,000 - 250,000	17,114,209	536,308	777,832	883,445	102,434	540,038	19,954,266	73,956,128	77.5%
250,000 - 500,000	7,263,421	0	0	0	0	0	7,263,421	81,219,550	85.2%
500,000 - 750,000	4,511,341	0	0	0	0	0	4,511,341	85,730,891	89.9%
750,000 - 1,000,000	2,444,945	0	0	0	0	0	2,444,945	88,175,836	92.5%
Over 1,000,000	7,196,129	0	0	0	0	0	7,196,129	95,371,965	100.0%
Total	\$85,532,719	\$1,741,883	\$2,209,928	\$2,114,480	\$1,793,411	\$1,979,545	\$95,371,965	\$95,371,965	

Amounts are gross of excess insurance and net of other recoveries.

Data was provided by the County.

CookCounty_WC_Healthcare_Indem_113019.xlsx



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (MEDICAL)

Exhibit WC-HC-Med-1 (page 1)

Data Summary as of November 30, 2019
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Payroll (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Limited Paid Losses 11/30/19 (8)	Limited Case Reserves 11/30/19 (9)	Limited Reported Incurred Losses 11/30/19 (10)
to 1999/00	See Note	None	240.0	Not Provided	6,789	15	\$12,284,730	\$407,177	\$12,691,908
2000/01	9,500,000	40,000,000	228.0	425,788	625	0	710,561	0	710,561
2001/02	9,500,000	40,000,000	216.0	434,846	490	1	620,425	0	620,425
2002/03	9,500,000	45,000,000	204.0	441,142	514	2	898,593	20,056	918,650
2003/04	Unlimited	None	192.0	453,644	593	2	1,216,020	112,083	1,328,103
2004/05	Unlimited	None	180.0	458,776	518	1	1,255,164	62,208	1,317,371
2005/06	Unlimited	None	168.0	464,619	510	1	763,576	0	763,576
2006/07	Unlimited	None	156.0	448,051	318	3	925,319	0	925,319
2007/08	Unlimited	None	144.0	445,664	274	5	747,148	3,500	750,648
2008/09	Unlimited	None	132.0	501,624	280	7	687,506	8,987	696,494
2009/10	Unlimited	None	120.0	526,535	214	7	726,160	51,336	777,497
2010/11	Unlimited	None	108.0	489,053	202	10	666,470	24,737	691,207
2011/12	Unlimited	None	96.0	515,084	169	10	976,417	56,679	1,033,096
2012/13	Unlimited	None	84.0	482,783	143	16	980,741	246,795	1,227,536
2013/14	Unlimited	None	72.0	482,783	158	16	642,622	55,378	698,000
2014/15	Unlimited	None	60.0	468,483	158	17	399,026	128,257	527,282
2015/16	Unlimited	None	48.0	497,031	176	27	615,628	266,047	881,676
2016/17	Unlimited	None	36.0	529,113	167	32	358,503	572,098	930,601
2017/18	Unlimited	None	24.0	539,050	179	35	299,301	502,131	801,432
2018/19	Unlimited	None	12.0	580,283	153	78	125,667	1,228,254	1,353,921
Total					12,630	285	\$25,899,579	\$3,745,724	\$29,645,303

* The specific self-insured retention changes are as follows:

Effective Date	Retention
12/01/77	Unlimited
12/01/00	9,500,000
12/01/03	Unlimited

(8), (9) and (10) are net of the specific self-insured retention and other recoveries.

Data was provided by the County.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (MEDICAL)

Exhibit WC-HC-Med-1 (page 2)

Data Summary as of November 30, 2019
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Payroll (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Net Unlimited Paid Losses 11/30/19 (8)	Net Unlimited Case Reserves 11/30/19 (9)	Net Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	6,789	15	\$12,284,730	\$407,177	\$12,691,908
2000/01	Unlimited	40,000,000	228.0	425,788	625	0	710,561	0	710,561
2001/02	Unlimited	40,000,000	216.0	434,846	490	1	620,425	0	620,425
2002/03	Unlimited	45,000,000	204.0	441,142	514	2	898,593	20,056	918,650
2003/04	Unlimited	None	192.0	453,644	593	2	1,216,020	112,083	1,328,103
2004/05	Unlimited	None	180.0	458,776	518	1	1,255,164	62,208	1,317,371
2005/06	Unlimited	None	168.0	464,619	510	1	763,576	0	763,576
2006/07	Unlimited	None	156.0	448,051	318	3	925,319	0	925,319
2007/08	Unlimited	None	144.0	445,664	274	5	747,148	3,500	750,648
2008/09	Unlimited	None	132.0	501,624	280	7	687,506	8,987	696,494
2009/10	Unlimited	None	120.0	526,535	214	7	726,160	51,336	777,497
2010/11	Unlimited	None	108.0	489,053	202	10	666,470	24,737	691,207
2011/12	Unlimited	None	96.0	515,084	169	10	976,417	56,679	1,033,096
2012/13	Unlimited	None	84.0	482,783	143	16	980,741	246,795	1,227,536
2013/14	Unlimited	None	72.0	482,783	158	16	642,622	55,378	698,000
2014/15	Unlimited	None	60.0	468,483	158	17	399,026	128,257	527,282
2015/16	Unlimited	None	48.0	497,031	176	27	615,628	266,047	881,676
2016/17	Unlimited	None	36.0	529,113	167	32	358,503	572,098	930,601
2017/18	Unlimited	None	24.0	539,050	179	35	299,301	502,131	801,432
2018/19	Unlimited	None	12.0	580,283	153	78	125,667	1,228,254	1,353,921
Total					12,630	285	\$25,899,579	\$3,745,724	\$29,645,303

(8), (9) and (10) are gross of the specific self-insured retention and net of other recoveries.

Data was provided by the County.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (MEDICAL)

Exhibit WC-HC-Med-1 (page 3)

Data Summary as of November 30, 2019
Gross Unlimited Losses

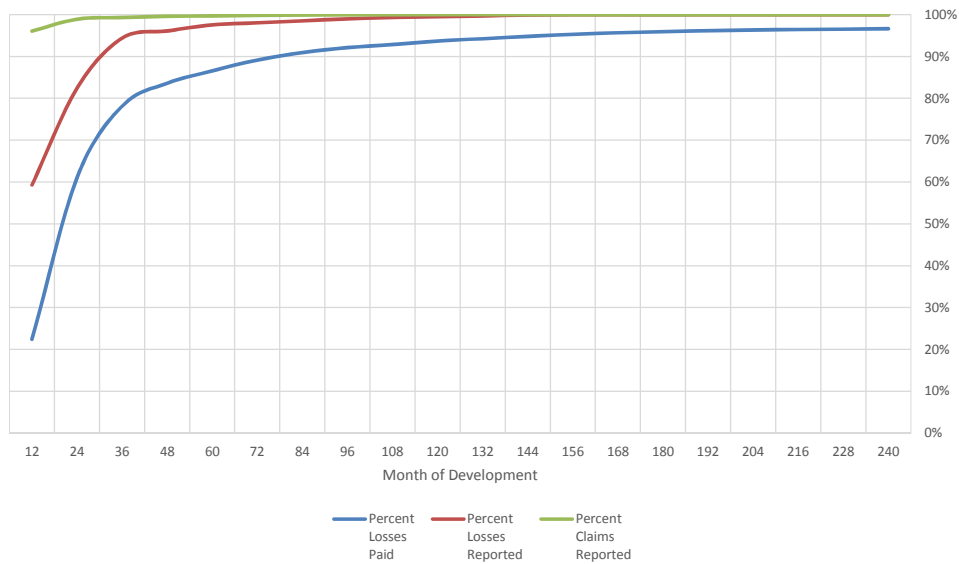
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Payroll (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Gross Unlimited Paid Losses 11/30/19 (8)	Gross Unlimited Case Reserves 11/30/19 (9)	Gross Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	6,789	15	\$12,330,421	\$407,177	\$12,737,598
2000/01	Unlimited	40,000,000	228.0	425,788	625	0	710,937	0	710,937
2001/02	Unlimited	40,000,000	216.0	434,846	490	1	620,425	0	620,425
2002/03	Unlimited	45,000,000	204.0	441,142	514	2	899,025	20,056	919,081
2003/04	Unlimited	None	192.0	453,644	593	2	1,216,902	112,083	1,328,985
2004/05	Unlimited	None	180.0	458,776	518	1	1,255,258	62,208	1,317,466
2005/06	Unlimited	None	168.0	464,619	510	1	763,576	0	763,576
2006/07	Unlimited	None	156.0	448,051	318	3	925,319	0	925,319
2007/08	Unlimited	None	144.0	445,664	274	5	747,148	3,500	750,648
2008/09	Unlimited	None	132.0	501,624	280	7	687,511	8,987	696,498
2009/10	Unlimited	None	120.0	526,535	214	7	726,218	51,336	777,554
2010/11	Unlimited	None	108.0	489,053	202	10	666,470	24,737	691,207
2011/12	Unlimited	None	96.0	515,084	169	10	979,921	56,679	1,036,600
2012/13	Unlimited	None	84.0	482,783	143	16	983,105	246,795	1,229,900
2013/14	Unlimited	None	72.0	482,783	158	16	642,691	55,378	698,070
2014/15	Unlimited	None	60.0	468,483	158	17	405,198	128,257	533,455
2015/16	Unlimited	None	48.0	497,031	176	27	616,592	266,047	882,640
2016/17	Unlimited	None	36.0	529,113	167	32	359,575	572,098	931,673
2017/18	Unlimited	None	24.0	539,050	179	35	300,733	502,131	802,864
2018/19	Unlimited	None	12.0	580,283	153	78	125,667	1,228,254	1,353,921
Total					12,630	285	\$25,962,693	\$3,745,724	\$29,708,417

(8), (9) and (10) are gross of the specific self-insured retention and other recoveries.

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	99.9%	100.0%	100.0%
348.0	99.9%	100.0%	100.0%
336.0	99.8%	100.0%	100.0%
324.0	99.7%	100.0%	100.0%
312.0	99.6%	100.0%	100.0%
300.0	99.4%	100.0%	100.0%
288.0	99.2%	100.0%	100.0%
276.0	98.8%	100.0%	100.0%
264.0	98.3%	100.0%	100.0%
252.0	97.6%	100.0%	100.0%
240.0	96.6%	100.0%	100.0%
228.0	96.5%	100.0%	100.0%
216.0	96.4%	100.0%	100.0%
204.0	96.3%	100.0%	100.0%
192.0	96.1%	100.0%	100.0%
180.0	95.9%	100.0%	100.0%
168.0	95.7%	100.0%	100.0%
156.0	95.3%	100.0%	100.0%
144.0	94.8%	99.9%	100.0%
132.0	94.2%	99.7%	100.0%
120.0	93.7%	99.5%	100.0%
108.0	92.8%	99.3%	100.0%
96.0	92.1%	99.0%	100.0%
84.0	90.9%	98.5%	99.9%
72.0	89.1%	98.0%	99.8%
60.0	86.5%	97.5%	99.7%
48.0	83.6%	96.1%	99.6%
36.0	78.1%	94.4%	99.3%
24.0	61.1%	82.4%	98.9%
12.0	22.4%	59.3%	96.0%



(2) is from Exhibit WC-HC-Med-2 (page 2).

(3) is from Exhibit WC-HC-Med-2 (page 3).

(4) is from Exhibit WC-HC-Med-2 (page 4).

Historical Unlimited Paid Losses (\$000) and Unlimited Paid Loss Development

I. Historical Unlimited Paid Losses (\$000)

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00													\$14,127	\$14,332	\$14,505	\$14,805	\$14,837	\$14,750	\$14,738	\$14,747	\$12,330
2000/01						818	830	834	835	835	835	835	835	835	835	711	711	711	711		
2001/02					650	702	702	702	702	702	702	702	702	702	702	620	620	620	620		
2002/03				1,021	1,029	1,042	1,051	1,051	1,051	1,051	1,053	1,056	1,057	899	899	899	899				
2003/04			827	933	959	972	1,011	1,050	1,072	1,101	1,104	1,105	1,006	1,006	1,096	1,158					
2004/05		964	1,139	1,293	1,330	1,357	1,376	1,399	1,409	1,428	1,436	1,250	1,251	1,253	1,255						
2005/06	393	669	720	763	834	875	875	877	877	877	764	764	764	764							
2006/07	338	849	840	963	975	977	985	1,033	1,033	925	925	925	925								
2007/08	315	656	812	827	799	828	828	852	746	746	747	747									
2008/09	217	526	636	702	738	766	778	684	685	688	688										
2009/10	119	381	608	674	697	743	698	709	718	726											
2010/11	278	590	711	723	734	662	662	662	662	666											
2011/12	167	569	772	997	894	916	979	980													
2012/13	87	557	811	774	856	946	983														
2013/14	223	722	591	631	640	643															
2014/15	240	311	383	400	405																
2015/16	138	444	608	617																	
2016/17	98	233	360																		
2017/18	176	301																			
2018/19	126																				

II. Unlimited Paid Loss Development

Claim Period	Months of Development:																			
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult
to 1999/00												1.014	1.012	1.021	1.002	0.994	0.999	1.001	0.836	
2000/01						1.014	1.006	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.851	1.000	1.000	1.000	
2001/02					1.080	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.884	1.000	1.000	1.000		
2002/03				1.008	1.013	1.009	1.000	1.000	1.000	1.002	1.003	1.001	0.850	1.000	1.000	1.000				
2003/04			1.128	1.028	1.014	1.040	1.038	1.021	1.027	1.003	1.001	0.910	1.089	1.057	1.050					
2004/05		1.182	1.135	1.029	1.020	1.014	1.017	1.007	1.013	1.006	0.870	1.001	1.001	1.002						
2005/06	1.700	1.077	1.060	1.092	1.050	1.000	1.003	1.000	1.000	0.870	1.000	1.000	1.000							
2006/07	2.515	0.989	1.146	1.013	1.002	1.008	1.050	1.000	0.895	1.000	1.000	1.000								
2007/08	2.081	1.238	1.019	0.965	1.037	1.000	1.029	0.875	1.000	1.001	1.000									
2008/09	2.422	1.209	1.105	1.051	1.037	1.015	0.880	1.002	1.003	1.000										
2009/10	3.199	1.597	1.108	1.035	1.066	0.939	1.016	1.013	1.011											
2010/11	2.122	1.206	1.016	1.016	1.002	1.000	1.000	1.006												
2011/12	3.402	1.357	1.291	0.896	1.025	1.069	1.001													
2012/13	6.416	1.455	1.455	0.955	1.106	1.039														
2013/14	3.246	0.818	1.068	1.013	1.005															
2014/15	1.295	1.230	1.045	1.013																
2015/16	3.207	1.371	1.014																	
2016/17	2.384	1.544																		
2017/18	1.711																			
2018/19																				
Average																				
All	2.746	1.252	1.084	1.020	1.027	1.011	1.003	0.993	0.995	0.987	0.984	0.991	0.993	0.994	0.981	0.999	1.000	1.000	0.836	
Wtd 3	2.373	1.368	1.041	1.053	1.048	1.040	1.005	1.007	1.005	1.000	1.000	1.001	1.030	1.020	1.022	1.000	0.999			
Last 3	2.434	1.382	1.042	1.044	1.045	1.036	1.006	1.007	1.005	1.000	1.000	1.000	1.030	1.020	1.017	1.000	1.000			
Last 5	2.434	1.352	1.042	1.014	1.032	1.018	1.006	1.003	1.001	1.000	1.000	1.000	1.000	1.001	1.001					
x-hi,low																				
Similar	2.342	1.324	1.168	1.099	1.058	1.036	1.022	1.015	1.011	1.008	1.006	1.005	1.003	1.003	1.002	1.002	1.002	1.002	1.021	
Previous	2.750	1.275	1.070	1.040	1.033	1.015	1.015	1.010	1.009	1.006	1.006	1.005	1.004	1.003	1.002	1.002	1.001	1.001	1.001	1.035
Selected	2.725	1.280	1.070	1.035	1.030	1.020	1.013	1.008	1.009	1.006	1.006	1.005	1.004	1.003	1.002	1.002	1.001	1.001	1.001	1.035
Cumulative	4.463	1.638	1.280	1.196	1.156	1.122	1.100	1.086	1.077	1.068	1.061	1.055	1.050	1.045	1.042	1.040	1.038	1.037	1.036	1.035
Percent	22.4%	61.1%	78.1%	83.6%	86.5%	89.1%	90.9%	92.1%	92.8%	93.7%	94.2%	94.8%	95.3%	95.7%	95.9%	96.1%	96.3%	96.4%	96.5%	96.6%

The County changed data systems during 2016, resulting in a shift between indemnity and medical. The amounts in the 2016 diagonal are not consistent with prior diagonals.

Amounts are unlimited (gross of excess insurance).

Data was provided by the County.

Historical Unlimited Reported Incurred Losses (\$000) and Unlimited Reported Incurred Loss Development

I. Historical Unlimited Reported Incurred Losses (\$000)

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00													\$15,888	\$16,053	\$15,421	\$15,270	\$15,273	\$15,190	\$15,201	\$15,238	\$12,738
2000/01						1,596	1,598	1,598	861	861	835	835	835	835	835	711	711	711	711	711	
2001/02					1,144	1,170	1,164	705	705	702	702	702	702	702	620	621	621	620	620		
2002/03				1,811	1,787	1,789	1,075	1,071	1,056	1,056	1,058	1,061	1,076	919	920	919	919				
2003/04			1,620	1,633	1,656	999	1,050	1,054	1,076	1,101	1,104	1,430	1,330	1,330	1,329	1,329					
2004/05		1,817	2,002	2,066	1,427	1,395	1,385	1,437	1,437	1,443	1,443	1,272	1,272	1,318	1,317						
2005/06	1,393	1,681	1,726	824	893	875	875	877	877	877	764	764	764	764							
2006/07	1,023	1,534	1,102	1,159	1,004	977	985	1,033	1,033	925	925	925	925								
2007/08	954	932	1,062	849	800	828	828	872	777	780	760	751									
2008/09	768	893	693	720	753	794	799	711	721	700	696										
2009/10	429	480	690	691	741	778	775	744	789	778											
2010/11	442	676	762	778	787	763	706	689	691												
2011/12	367	722	869	1,104	1,004	991	1,170	1,037													
2012/13	385	769	977	969	979	1,235	1,230														
2013/14	608	1,088	886	736	700	698															
2014/15	756	615	536	499	533																
2015/16	1,379	1,037	947	883																	
2016/17	1,400	1,227	932																		
2017/18	926	803																			
2018/19	1,354																				

II. Unlimited Reported Incurred Loss Development

Claim Period	Months of Development:																			
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult
to 1999/00												1.010	0.961	0.990	1.000	0.995	1.001	1.002	0.836	
2000/01						1.001	1.000	0.539	0.999	0.970	1.000	1.000	1.000	1.000	0.851	1.000	1.000	1.000		
2001/02					1.023	0.995	0.606	1.000	0.995	1.000	1.000	1.000	1.000	0.884	1.002	1.000	0.998			
2002/03				0.987	1.001	0.601	0.997	0.986	1.000	1.002	1.003	1.014	0.854	1.001	0.999	1.000				
2003/04			1.008	1.014	0.603	1.050	1.004	1.021	1.023	1.003	1.295	0.930	1.000	0.999	1.000					
2004/05		1.102	1.032	0.691	0.977	0.993	1.038	1.000	1.004	1.000	0.882	1.000	1.036	0.999						
2005/06	1.207	1.027	0.477	1.084	0.980	1.000	1.003	1.000	1.000	0.870	1.000	1.000	1.000							
2006/07	1.500	0.718	1.051	0.866	0.973	1.008	1.050	1.000	0.895	1.000	1.000	1.000								
2007/08	0.977	1.139	0.799	0.942	1.036	1.000	1.053	0.890	1.004	0.974	0.988									
2008/09	1.164	0.775	1.040	1.045	1.055	1.006	0.890	1.014	0.971	0.994										
2009/10	1.120	1.437	1.001	1.072	1.051	0.996	0.960	1.060	0.986											
2010/11	1.528	1.127	1.020	1.012	0.970	0.925	0.976	1.003												
2011/12	1.966	1.203	1.270	0.910	0.987	1.180	0.886													
2012/13	1.996	1.270	0.991	1.011	1.261	0.996														
2013/14	1.790	0.814	0.831	0.951	0.997															
2014/15	0.812	0.872	0.930	1.070																
2015/16	0.752	0.913	0.932																	
2016/17	0.876	0.760																		
2017/18	0.867																			
2018/19																				
Average																				
All	1.273	1.012	0.953	0.973	0.993	0.981	0.955	0.956	0.988	0.979	1.021	0.994	0.979	0.979	0.971	0.999	1.000	1.001	1.001	0.836
Wtd 3	0.828	0.839	0.894	1.004	1.090	1.039	0.932	1.026	0.988	0.990	0.996	1.000	1.014	1.000	1.000	1.000	1.001			
Last 3	0.832	0.848	0.898	1.010	1.082	1.034	0.941	1.025	0.987	0.990	0.996	1.000	1.012	1.000	1.000	1.000				
Last 5	0.852	0.866	0.951	0.991	1.012	0.999	0.942	1.006	0.986	0.990	0.996	1.000	1.000	0.999	1.000					
x-hi,low																				
Similar	1.390	1.102	1.043	1.018	1.006	1.001	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.002	1.000	1.001	1.001	1.007	
Previous	1.400	1.150	1.020	1.015	1.005	1.005	1.005	1.002	1.002	1.002	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Selected	1.390	1.145	1.018	1.015	1.005	1.005	1.005	1.003	1.002	1.002	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Cumulative	1.686	1.213	1.059	1.041	1.025	1.020	1.015	1.010	1.007	1.005	1.003	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Percent	59.3%	82.4%	94.4%	96.1%	97.5%	98.0%	98.5%	99.0%	99.3%	99.5%	99.7%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

The County changed data systems during 2016, resulting in a shift between indemnity and medical. The amounts in the 2016 diagonal are not consistent with prior diagonals.

Amounts are unlimited (gross of excess insurance).

Data was provided by the County.

COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (MEDICAL)

Historical Ratio of Unlimited Paid Losses and Unlimited Reported Incurred Losses

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00													88.9%	89.3%	94.1%	97.0%	97.1%	97.1%	97.0%	96.8%	96.8%
2000/01						51.2%	51.9%	52.2%	96.9%	97.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2001/02					56.8%	60.0%	60.3%	99.5%	99.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.8%	99.8%	100.0%	
2002/03				56.4%	57.6%	58.2%	97.8%	98.2%	99.5%	99.5%	99.5%	99.5%	98.3%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	
2003/04			51.1%	57.1%	57.9%	97.3%	96.3%	99.6%	99.6%	100.0%	100.0%	100.0%	77.3%	75.7%	82.4%	87.2%	91.6%				
2004/05		53.0%	56.9%	62.6%	93.2%	97.3%	99.4%	97.3%	98.0%	98.9%	99.5%	98.2%	98.4%	95.1%	95.3%						
2005/06	28.2%	39.8%	41.7%	92.6%	93.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%						
2006/07	33.0%	55.3%	76.2%	83.1%	97.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%							
2007/08	33.0%	70.3%	76.4%	97.5%	99.9%	100.0%	100.0%	97.7%	96.1%	95.7%	98.3%	99.5%									
2008/09	28.3%	58.9%	91.8%	97.5%	98.0%	96.4%	97.3%	96.2%	95.0%	98.1%	98.7%										
2009/10	27.7%	79.2%	88.1%	97.5%	94.1%	95.4%	90.0%	95.3%	91.1%	93.4%											
2010/11	62.8%	87.2%	93.3%	93.0%	93.3%	86.7%	93.9%	96.1%	96.4%												
2011/12	45.5%	78.8%	88.8%	90.3%	89.0%	92.4%	83.6%	94.5%													
2012/13	22.5%	72.4%	82.9%	79.9%	87.4%	76.6%	79.9%														
2013/14	36.6%	66.4%	66.7%	85.7%	91.3%	92.1%															
2014/15	31.7%	50.6%	71.4%	80.2%	76.0%																
2015/16	10.0%	42.8%	64.2%	69.9%																	
2016/17	7.0%	19.0%	38.6%																		
2017/18	19.0%	37.5%																			
2018/19	9.3%																				
Average																					
All	28.2%	57.9%	70.6%	81.7%	84.6%	86.0%	88.5%	93.9%	97.5%	98.3%	99.6%	95.9%	95.2%	95.6%	96.2%	97.3%	98.7%	99.0%	98.4%	96.8%	
Last 3	11.7%	33.1%	58.1%	78.6%	84.9%	87.0%	85.8%	95.3%	94.2%	95.7%	99.0%	99.8%	99.5%	92.5%	93.4%	96.4%	99.2%	99.0%			
Last 5	12.8%	43.6%	67.4%	81.9%	89.2%	90.4%	89.2%	95.9%	95.8%	97.9%	99.4%	99.3%	98.9%	97.6%	97.7%	98.3%					
x-hi,low																					
Implicit	37.8%	74.1%	82.8%	87.0%	88.7%	90.9%	92.3%	93.0%	93.5%	94.1%	94.5%	94.9%	95.3%	95.7%	95.9%	96.1%	96.3%	96.4%	96.5%	96.6%	
Prior	37.8%	74.2%	82.3%	86.3%	88.5%	90.9%	91.8%	92.8%	93.5%	94.1%	94.5%	94.9%	95.3%	95.7%	95.9%	96.1%	96.3%	96.4%	96.5%	96.6%	



COOK COUNTY, ILLINOIS
 WORKERS' COMPENSATION - HEALTH CARE FACILITIES (MEDICAL)

Exhibit WC-HC-Med-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Paid Losses 11/30/19 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1999/00	240.0	\$12,284,730	96.6%	\$12,714,696
2000/01	228.0	710,561	96.5%	736,166
2001/02	216.0	620,425	96.4%	643,425
2002/03	204.0	898,593	96.3%	932,837
2003/04	192.0	1,216,020	96.1%	1,264,885
2004/05	180.0	1,255,164	95.9%	1,308,213
2005/06	168.0	763,576	95.7%	798,235
2006/07	156.0	925,319	95.3%	971,190
2007/08	144.0	747,148	94.8%	788,108
2008/09	132.0	687,506	94.2%	729,547
2009/10	120.0	726,160	93.7%	775,188
2010/11	108.0	666,470	92.8%	717,871
2011/12	96.0	976,417	92.1%	1,060,136
2012/13	84.0	980,741	90.9%	1,078,674
2013/14	72.0	642,622	89.1%	720,927
2014/15	60.0	399,026	86.5%	461,078
2015/16	48.0	615,628	83.6%	736,262
2016/17	36.0	358,503	78.1%	458,765
2017/18	24.0	299,301	61.1%	490,248
2018/19	12.0	125,667	22.4%	560,913
Total		\$25,899,579		\$27,947,365

(3) is from Exhibit WC-HC-Med-1.

(4) is from Exhibit WC-HC-Med-2.



COOK COUNTY, ILLINOIS
 WORKERS' COMPENSATION - HEALTH CARE FACILITIES (MEDICAL)

Exhibit WC-HC-Med-4

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1999/00	240.0	\$12,691,908	100.0%	\$12,691,908
2000/01	228.0	710,561	100.0%	710,561
2001/02	216.0	620,425	100.0%	620,425
2002/03	204.0	918,650	100.0%	918,650
2003/04	192.0	1,328,103	100.0%	1,328,103
2004/05	180.0	1,317,371	100.0%	1,317,371
2005/06	168.0	763,576	100.0%	763,576
2006/07	156.0	925,319	100.0%	925,319
2007/08	144.0	750,648	99.9%	751,399
2008/09	132.0	696,494	99.7%	698,585
2009/10	120.0	777,497	99.5%	781,391
2010/11	108.0	691,207	99.3%	696,058
2011/12	96.0	1,033,096	99.0%	1,043,468
2012/13	84.0	1,227,536	98.5%	1,246,059
2013/14	72.0	698,000	98.0%	712,075
2014/15	60.0	527,282	97.5%	540,605
2015/16	48.0	881,676	96.1%	917,511
2016/17	36.0	930,601	94.4%	985,856
2017/18	24.0	801,432	82.4%	972,126
2018/19	12.0	1,353,921	59.3%	2,282,778
Total		\$29,645,303		\$30,903,822

(3) is from Exhibit WC-HC-Med-1.

(4) is from Exhibit WC-HC-Med-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (MEDICAL)

Exhibit WC-HC-Med-5

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/19 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/19 (6)	Limited Case Reserves 11/30/19 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1999/00	240.0	96.6%	100.0%	100.0%	\$12,284,730	\$407,177	\$12,691,908
2000/01	228.0	96.5%	100.0%	100.0%	710,561	0	710,561
2001/02	216.0	96.4%	100.0%	100.0%	620,425	0	620,425
2002/03	204.0	96.3%	100.0%	100.0%	898,593	20,056	918,650
2003/04	192.0	96.1%	100.0%	100.0%	1,216,020	112,083	1,328,103
2004/05	180.0	95.9%	100.0%	100.0%	1,255,164	62,208	1,317,371
2005/06	168.0	95.7%	100.0%	100.0%	763,576	0	763,576
2006/07	156.0	95.3%	100.0%	100.0%	925,319	0	925,319
2007/08	144.0	94.8%	99.9%	98.1%	747,148	3,500	750,717
2008/09	132.0	94.2%	99.7%	94.8%	687,506	8,987	696,986
2009/10	120.0	93.7%	99.5%	92.1%	726,160	51,336	781,887
2010/11	108.0	92.8%	99.3%	90.3%	666,470	24,737	693,874
2011/12	96.0	92.1%	99.0%	87.4%	976,417	56,679	1,041,257
2012/13	84.0	90.9%	98.5%	83.6%	980,741	246,795	1,275,855
2013/14	72.0	89.1%	98.0%	81.8%	642,622	55,378	710,320
2014/15	60.0	86.5%	97.5%	81.7%	399,026	128,257	556,032
2015/16	48.0	83.6%	96.1%	76.2%	615,628	266,047	964,945
2016/17	36.0	78.1%	94.4%	74.4%	358,503	572,098	1,127,925
2017/18	24.0	61.1%	82.4%	54.9%	299,301	502,131	1,213,621
2018/19	12.0	22.4%	59.3%	47.6%	125,667	1,228,254	2,708,094
Total					\$25,899,579	\$3,745,724	\$31,797,426

(3) and (4) are from Exhibit WC-HC-Med-2.

(6) and (7) are from Exhibit WC-HC-Med-1.



COOK COUNTY, ILLINOIS
 WORKERS' COMPENSATION - HEALTH CARE FACILITIES (MEDICAL)

Exhibit WC-HC-Med-6

Preliminary Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	Preliminary Projected Ultimate Limited Losses (5)
to 1999/00	\$12,714,696	\$12,691,908	\$12,691,908	\$12,691,908
2000/01	736,166	710,561	710,561	710,561
2001/02	643,425	620,425	620,425	620,425
2002/03	932,837	918,650	918,650	918,650
2003/04	1,264,885	1,328,103	1,328,103	1,328,103
2004/05	1,308,213	1,317,371	1,317,371	1,317,371
2005/06	798,235	763,576	763,576	763,576
2006/07	971,190	925,319	925,319	925,319
2007/08	788,108	751,399	750,717	750,717
2008/09	729,547	698,585	696,986	696,986
2009/10	775,188	781,391	781,887	781,887
2010/11	717,871	696,058	693,874	693,874
2011/12	1,060,136	1,043,468	1,041,257	1,041,478
2012/13	1,078,674	1,246,059	1,275,855	1,269,896
2013/14	720,927	712,075	710,320	710,846
2014/15	461,078	540,605	556,032	549,861
2015/16	736,262	917,511	964,945	923,103
2016/17	458,765	985,856	1,127,925	937,266
2017/18	490,248	972,126	1,213,621	972,348
2018/19	560,913	2,282,778	2,708,094	2,108,531
Total	\$27,947,365	\$30,903,822	\$31,797,426	\$30,712,707

(2) is from Exhibit WC-HC-Med-3.

(3) is from Exhibit WC-HC-Med-4.

(4) is from Exhibit WC-HC-Med-5.

(5) is based on (2) to (4) and actuarial judgment.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (MEDICAL)

Exhibit WC-HC-Med-7

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Payroll (000) (3)	Limited Loss Rate per \$100 of Payroll (2)/(3)/10 (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)	Projected A-priori Loss Rate per \$100 of Payroll (7)/(5) (8)
2009/10	\$781,887	\$526,535	\$0.15	1.359	\$0.20	\$0.17
2010/11	693,874	489,053	0.14	1.338	0.19	0.18
2011/12	1,041,478	515,084	0.20	1.432	0.29	0.17
2012/13	1,269,896	482,783	0.26	1.372	0.36	0.17
2013/14	710,846	482,783	0.15	1.307	0.19	0.18
2014/15	549,861	468,483	0.12	1.242	0.15	0.19
2015/16	923,103	497,031	0.19	1.190	0.22	0.20
2016/17	937,266	529,113	0.18	1.138	0.20	0.21
2017/18	972,348	539,050	0.18	1.083	0.20	0.22
2018/19	2,108,531	580,283	0.36	1.040	0.38	0.23

(7) Projected 2019/20 a-priori loss rate per \$100 of Payroll \$0.24

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Percent Losses Paid (3)	Projected A-priori Loss Rate per \$100 of Payroll (4)	Payroll (000) (5)	B-F Unpaid Losses [100.0%-(3)] X(4)X(5)X10 (6)	B-F Ultimate Limited Paid Losses (2)+(6) (7)
2014/15	\$399,026	86.5%	\$0.19	\$468,483	\$120,601	\$519,627
2015/16	615,628	83.6%	0.20	497,031	162,586	778,215
2016/17	358,503	78.1%	0.21	529,113	241,480	599,982
2017/18	299,301	61.1%	0.22	539,050	460,804	760,105
2018/19	125,667	22.4%	0.23	580,283	1,028,733	1,154,401

III. Bornhuetter - Ferguson Analysis Based on Limited Reported Incurred Losses

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Percent Losses Reported (3)	Projected A-priori Loss Rate per \$100 of Payroll (4)	Payroll (000) (5)	B-F Unreported Losses [100.0%-(3)] X(4)X(5)X10 (6)	B-F Ultimate Limited Reported Losses (2)+(6) (7)
2014/15	\$527,282	97.5%	\$0.19	\$468,483	\$22,083	\$549,366
2015/16	881,676	96.1%	0.20	497,031	38,757	920,432
2016/17	930,601	94.4%	0.21	529,113	61,929	992,530
2017/18	801,432	82.4%	0.22	539,050	207,737	1,009,169
2018/19	1,353,921	59.3%	0.23	580,283	539,447	1,893,368

Section I, (2) is from Exhibit WC-HC-Med-6.

Section I, (3), Section II, (5) and Section III, (5) are from Exhibit WC-HC-Med-10.

Section I, (5) is from Exhibit WC-HC-Med-15.

Section I, (7) is based on Section I, (6) and actuarial judgment.

Sections II and III, (2) are from Exhibit WC-HC-Med-1.

Sections II and III, (3) are from Exhibit WC-HC-Med-2.

Sections II and III, (4) are from Section I, (8).

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/19 (2)	Reported Claims 11/30/19 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2009/10	120.0	214	100.0%	214	\$526,535	0.41
2010/11	108.0	202	100.0%	202	489,053	0.41
2011/12	96.0	169	100.0%	169	515,084	0.33
2012/13	84.0	143	99.9%	143	482,783	0.30
2013/14	72.0	158	99.8%	158	482,783	0.33
2014/15	60.0	158	99.7%	158	468,483	0.34
2015/16	48.0	176	99.6%	177	497,031	0.36
2016/17	36.0	167	99.3%	168	529,113	0.32
2017/18	24.0	179	98.9%	181	539,050	0.34
2018/19	12.0	153	96.0%	159	580,283	0.27

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2019/20 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2019/20 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2009/10	\$781,887	214	\$3,654	1.826	\$6,673	\$4,663	\$997,852
2010/11	693,874	202	3,435	1.746	5,999	4,877	985,079
2011/12	1,041,478	169	6,163	1.814	11,178	4,695	793,479
2012/13	1,269,896	143	8,880	1.687	14,983	5,048	721,823
2013/14	710,846	158	4,499	1.561	7,021	5,457	862,210
2014/15	549,861	158	3,480	1.440	5,011	5,914	934,414
2015/16	923,103	177	5,215	1.339	6,986	6,358	1,125,335
2016/17	937,266	168	5,579	1.243	6,936	6,850	1,150,739
2017/18	972,348	181	5,372	1.149	6,170	7,415	1,342,106
2018/19	2,108,531	159	13,261	1.071	14,205	7,950	1,264,085
						(7) Projected 2019/20 average claim severity	\$8,516

Section I, (3) is from Exhibit WC-HC-Med-1.

Section I, (4) is from Exhibit WC-HC-Med-2.

Section I, (6) is from Exhibit WC-HC-Med-10.

Section II, (2) is from Exhibit WC-HC-Med-6.

Section II, (3) is from Section I, (5).

Section II, (5) is from Exhibit WC-HC-Med-15.

Section II, (7) is based on (6) and actuarial judgment.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (MEDICAL)

Exhibit WC-HC-Med-9

Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	B-F Ultimate Limited Paid Losses (5)	B-F Ultimate Limited Reported Losses (6)	Frequency Times Severity (7)	Prior Projected Ultimate Limited Losses (8)	Projected Ultimate Limited Losses (9)
to 1999/00	\$12,714,696	\$12,691,908	\$12,691,908				\$12,725,535	\$12,715,000
2000/01	736,166	710,561	710,561				710,561	710,561
2001/02	643,425	620,425	620,425				622,000	621,000
2002/03	932,837	918,650	918,650				921,000	919,000
2003/04	1,264,885	1,328,103	1,328,103				1,346,043	1,328,103
2004/05	1,308,213	1,317,371	1,317,371				1,325,000	1,317,371
2005/06	798,235	763,576	763,576				763,576	763,576
2006/07	971,190	925,319	925,319				925,319	925,319
2007/08	788,108	751,399	750,717				761,176	751,000
2008/09	729,547	698,585	696,986				702,000	697,000
2009/10	775,188	781,391	781,887				796,000	782,000
2010/11	717,871	696,058	693,874				693,000	694,000
2011/12	1,060,136	1,043,468	1,041,257				1,198,000	1,052,000
2012/13	1,078,674	1,246,059	1,275,855				1,284,000	1,270,000
2013/14	720,927	712,075	710,320				715,000	712,000
2014/15	461,078	540,605	556,032	519,627	549,366	934,414	525,000	550,000
2015/16	736,262	917,511	964,945	778,215	920,432	1,125,335	1,050,000	923,000
2016/17	458,765	985,856	1,127,925	599,982	992,530	1,150,739	1,500,000	989,000
2017/18	490,248	972,126	1,213,621	760,105	1,009,169	1,342,106	1,450,000	991,000
2018/19	560,913	2,282,778	2,708,094	1,154,401	1,893,368	1,264,085	1,372,000	1,675,000
Total	\$27,947,365	\$30,903,822	\$31,797,426				\$31,385,210	\$30,385,930
2014/15 - 2018/19	2,707,266	5,698,876	6,570,616	3,812,329	5,364,866	5,816,679	5,897,000	5,128,000
to 2013/14	25,240,100	25,204,946	25,226,809				25,488,210	25,257,930
						Change		
						All years		-\$999,280
						2014/15 - 2018/19		-769,000
						to 2013/14		-230,280

(2) is from Exhibit WC-HC-Med-3.

(3) is from Exhibit WC-HC-Med-4.

(4) is from Exhibit WC-HC-Med-5.

(5) and (6) are from Exhibit WC-HC-Med-7.

(7) is from Exhibit WC-HC-Med-8.

(8) is based on (2) to (7) and actuarial judgment.

Projected Ultimate Limited Losses for 2019/20 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Payroll (000) (3)	Limited Loss Rate per \$100 of Payroll (2)/(3)/10 (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2009/10	\$782,000	\$526,535	\$0.15	1.359	\$0.20
2010/11	694,000	489,053	0.14	1.338	0.19
2011/12	1,052,000	515,084	0.20	1.432	0.29
2012/13	1,270,000	482,783	0.26	1.372	0.36
2013/14	712,000	482,783	0.15	1.307	0.19
2014/15	550,000	468,483	0.12	1.242	0.15
2015/16	923,000	497,031	0.19	1.190	0.22
2016/17	989,000	529,113	0.19	1.138	0.21
2017/18	991,000	539,050	0.18	1.083	0.20
2018/19	1,675,000	580,283	0.29	1.040	0.30
Total	\$9,638,000	\$5,110,198	\$0.19		\$0.23

Claim Period (1)	Projected Limited Loss Rate per \$100 of Payroll (7)	Projected Payroll (000) (8)	Projected Ultimate Limited Losses (7)X(8)X10 (9)	Present Value Factor (10)	Present Value of Projected Limited Loss Rate per \$100 of Payroll (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11)X10 (12)
2019/20	\$0.23	\$524,163	\$1,214,000	0.95	\$0.22	\$1,159,000
2020/21	0.24	524,163	1,263,000	0.95	0.23	1,205,000
2021/22	0.25	524,163	1,313,000	0.95	0.24	1,253,000

(2) is from Exhibit WC-HC-Med-9.

(3) was provided by the County.

(5) is from Exhibit WC-HC-Med-15.

(7) 2019/20 is based on (6) and actuarial judgment.
Other period(s) based on 2019/20 plus the trend in Exhibit WC-HC-Med-15.

(8) to 2019/20 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-HC-Med-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (MEDICAL)

Exhibit WC-HC-Med-11

Estimated Outstanding Losses as of November 30, 2019

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Limited Case Reserves 11/30/19 (3)	Limited Reported Incurred Losses 11/30/19 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/19 (5)-(4) (6)	Estimated Outstanding Losses 11/30/19 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/19 (7)X(8) (9)
to 1999/00	\$12,284,730	\$407,177	\$12,691,908	\$12,715,000	\$23,092	\$430,269	0.96	\$411,995
2000/01	710,561	0	710,561	710,561	0	0	0.94	0
2001/02	620,425	0	620,425	621,000	575	575	0.93	535
2002/03	898,593	20,056	918,650	919,000	350	20,406	0.92	18,728
2003/04	1,216,020	112,083	1,328,103	1,328,103	0	112,083	0.91	101,730
2004/05	1,255,164	62,208	1,317,371	1,317,371	0	62,208	0.90	55,858
2005/06	763,576	0	763,576	763,576	0	0	0.89	0
2006/07	925,319	0	925,319	925,319	0	0	0.89	0
2007/08	747,148	3,500	750,648	751,000	352	3,852	0.88	3,401
2008/09	687,506	8,987	696,494	697,000	506	9,493	0.88	8,364
2009/10	726,160	51,336	777,497	782,000	4,503	55,839	0.88	49,037
2010/11	666,470	24,737	691,207	694,000	2,793	27,530	0.88	24,204
2011/12	976,417	56,679	1,033,096	1,052,000	18,904	75,583	0.88	66,292
2012/13	980,741	246,795	1,227,536	1,270,000	42,464	289,259	0.88	254,536
2013/14	642,622	55,378	698,000	712,000	14,000	69,378	0.89	61,518
2014/15	399,026	128,257	527,282	550,000	22,718	150,975	0.90	135,226
2015/16	615,628	266,047	881,676	923,000	41,324	307,371	0.90	277,015
2016/17	358,503	572,098	930,601	989,000	58,399	630,497	0.91	575,809
2017/18	299,301	502,131	801,432	991,000	189,568	691,699	0.94	650,003
2018/19	125,667	1,228,254	1,353,921	1,675,000	321,079	1,549,333	0.96	1,484,737
Total	\$25,899,579	\$3,745,724	\$29,645,303	\$30,385,930	\$740,627	\$4,486,350		\$4,178,988

(2), (3) and (4) are net of specific self-insured retention and aggregate retention.

(5) is from Exhibit WC-HC-Med-9.

(8) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-HC-Med-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (MEDICAL)

Exhibit WC-HC-Med-12

Projected Losses Paid December 1, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1999/00	240.0	96.6%	252.0	97.6%	30.0%	\$430,269	\$129,081	\$301,188	0.96	\$288,512
2000/01	228.0	96.5%	240.0	96.6%	2.8%	0	0	0	0.96	0
2001/02	216.0	96.4%	228.0	96.5%	2.7%	575	16	559	0.94	528
2002/03	204.0	96.3%	216.0	96.4%	2.6%	20,406	535	19,871	0.93	18,490
2003/04	192.0	96.1%	204.0	96.3%	5.0%	112,083	5,578	106,505	0.92	97,745
2004/05	180.0	95.9%	192.0	96.1%	4.7%	62,208	2,944	59,264	0.91	53,790
2005/06	168.0	95.7%	180.0	95.9%	6.6%	0	0	0	0.90	0
2006/07	156.0	95.3%	168.0	95.7%	8.1%	0	0	0	0.89	0
2007/08	144.0	94.8%	156.0	95.3%	9.1%	3,852	351	3,501	0.89	3,102
2008/09	132.0	94.2%	144.0	94.8%	9.8%	9,493	931	8,562	0.88	7,560
2009/10	120.0	93.7%	132.0	94.2%	8.9%	55,839	4,962	50,877	0.88	44,825
2010/11	108.0	92.8%	120.0	93.7%	11.7%	27,530	3,213	24,317	0.88	21,355
2011/12	96.0	92.1%	108.0	92.8%	9.3%	75,583	7,052	68,531	0.88	60,251
2012/13	84.0	90.9%	96.0	92.1%	13.0%	289,259	37,658	251,601	0.88	220,674
2013/14	72.0	89.1%	84.0	90.9%	16.4%	69,378	11,387	57,991	0.88	51,030
2014/15	60.0	86.5%	72.0	89.1%	19.3%	150,975	29,125	121,850	0.89	108,045
2015/16	48.0	83.6%	60.0	86.5%	17.9%	307,371	54,901	252,470	0.90	226,134
2016/17	36.0	78.1%	48.0	83.6%	25.0%	630,497	157,811	472,686	0.90	426,003
2017/18	24.0	61.1%	36.0	78.1%	43.9%	691,699	303,579	388,120	0.91	354,455
2018/19	12.0	22.4%	24.0	61.1%	49.8%	1,549,333	771,651	777,682	0.94	730,803
2019/20	0.0	0.0%	12.0	22.4%	22.4%	1,214,000	271,985	942,015	0.96	902,740
Total						\$5,700,350	\$1,792,760	\$3,907,590		\$3,616,042

(3) and (5) are from Exhibit WC-HC-Med-2.

(7) to 2018/19 is from Exhibit WC-HC-Med-11. The amount for 2019/20 is from Exhibit WC-HC-Med-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-HC-Med-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (MEDICAL)

Exhibit WC-HC-Med-13

Projected Losses Paid December 1, 2020 to November 30, 2021

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Months of Development 11/30/21 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/20 to 11/30/21 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/20 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/21 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/21 (9)X(10) (11)
to 1999/00	252.0	97.6%	264.0	98.3%	30.0%	\$301,188	\$90,356	\$210,832	0.96	\$202,076
2000/01	240.0	96.6%	252.0	97.6%	30.0%	0	0	0	0.96	0
2001/02	228.0	96.5%	240.0	96.6%	2.8%	559	16	543	0.96	520
2002/03	216.0	96.4%	228.0	96.5%	2.7%	19,871	536	19,335	0.94	18,247
2003/04	204.0	96.3%	216.0	96.4%	2.6%	106,505	2,795	103,710	0.93	96,501
2004/05	192.0	96.1%	204.0	96.3%	5.0%	59,264	2,950	56,314	0.92	51,682
2005/06	180.0	95.9%	192.0	96.1%	4.7%	0	0	0	0.91	0
2006/07	168.0	95.7%	180.0	95.9%	6.6%	0	0	0	0.90	0
2007/08	156.0	95.3%	168.0	95.7%	8.1%	3,501	282	3,219	0.89	2,868
2008/09	144.0	94.8%	156.0	95.3%	9.1%	8,562	781	7,781	0.89	6,894
2009/10	132.0	94.2%	144.0	94.8%	9.8%	50,877	4,992	45,885	0.88	40,514
2010/11	120.0	93.7%	132.0	94.2%	8.9%	24,317	2,161	22,156	0.88	19,520
2011/12	108.0	92.8%	120.0	93.7%	11.7%	68,531	7,997	60,534	0.88	53,160
2012/13	96.0	92.1%	108.0	92.8%	9.3%	251,601	23,475	228,126	0.88	200,564
2013/14	84.0	90.9%	96.0	92.1%	13.0%	57,991	7,550	50,441	0.88	44,241
2014/15	72.0	89.1%	84.0	90.9%	16.4%	121,850	19,999	101,851	0.88	89,625
2015/16	60.0	86.5%	72.0	89.1%	19.3%	252,470	48,705	203,765	0.89	180,679
2016/17	48.0	83.6%	60.0	86.5%	17.9%	472,686	84,429	388,257	0.90	347,756
2017/18	36.0	78.1%	48.0	83.6%	25.0%	388,120	97,145	290,975	0.90	262,238
2018/19	24.0	61.1%	36.0	78.1%	43.9%	777,682	341,316	436,366	0.91	398,517
2019/20	12.0	22.4%	24.0	61.1%	49.8%	942,015	469,174	472,841	0.94	444,338
2020/21	0.0	0.0%	12.0	22.4%	22.4%	1,263,000	282,963	980,037	0.96	939,177
Total						\$5,170,590	\$1,487,622	\$3,682,968		\$3,399,117

(3) and (5) are from Exhibit WC-HC-Med-2.

(7) to 2019/20 is from Exhibit WC-HC-Med-12, (9). The amount for 2020/21 is from Exhibit WC-HC-Med-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-HC-Med-2.

Projected Losses Paid December 1, 2021 to November 30, 2022

Claim Period (1)	Months of Development 11/30/21 (2)	Percent Losses Paid (3)	Months of Development 11/30/22 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/21 to 11/30/22 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/21 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/22 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/22 (9)X(10) (11)
to 1999/00	264.0	98.3%	276.0	98.8%	30.0%	\$210,832	\$63,250	\$147,582	0.96	\$141,573
2000/01	252.0	97.6%	264.0	98.3%	30.0%	0	0	0	0.96	0
2001/02	240.0	96.6%	252.0	97.6%	30.0%	543	163	380	0.96	364
2002/03	228.0	96.5%	240.0	96.6%	2.8%	19,335	537	18,798	0.96	18,000
2003/04	216.0	96.4%	228.0	96.5%	2.7%	103,710	2,798	100,912	0.94	95,234
2004/05	204.0	96.3%	216.0	96.4%	2.6%	56,314	1,478	54,836	0.93	51,024
2005/06	192.0	96.1%	204.0	96.3%	5.0%	0	0	0	0.92	0
2006/07	180.0	95.9%	192.0	96.1%	4.7%	0	0	0	0.91	0
2007/08	168.0	95.7%	180.0	95.9%	6.6%	3,219	213	3,006	0.90	2,699
2008/09	156.0	95.3%	168.0	95.7%	8.1%	7,781	628	7,153	0.89	6,372
2009/10	144.0	94.8%	156.0	95.3%	9.1%	45,885	4,185	41,700	0.89	36,948
2010/11	132.0	94.2%	144.0	94.8%	9.8%	22,156	2,174	19,982	0.88	17,643
2011/12	120.0	93.7%	132.0	94.2%	8.9%	60,534	5,379	55,155	0.88	48,594
2012/13	108.0	92.8%	120.0	93.7%	11.7%	228,126	26,621	201,505	0.88	176,959
2013/14	96.0	92.1%	108.0	92.8%	9.3%	50,441	4,706	45,735	0.88	40,209
2014/15	84.0	90.9%	96.0	92.1%	13.0%	101,851	13,260	88,591	0.88	77,701
2015/16	72.0	89.1%	84.0	90.9%	16.4%	203,765	33,444	170,321	0.88	149,876
2016/17	60.0	86.5%	72.0	89.1%	19.3%	388,257	74,901	313,356	0.89	277,853
2017/18	48.0	83.6%	60.0	86.5%	17.9%	290,975	51,973	239,002	0.90	214,071
2018/19	36.0	78.1%	48.0	83.6%	25.0%	436,366	109,221	327,145	0.90	294,836
2019/20	24.0	61.1%	36.0	78.1%	43.9%	472,841	207,524	265,317	0.91	242,304
2020/21	12.0	22.4%	24.0	61.1%	49.8%	980,037	488,111	491,926	0.94	462,273
2021/22	0.0	0.0%	12.0	22.4%	22.4%	1,313,000	294,165	1,018,835	0.96	976,357
Total						\$4,995,968	\$1,384,731	\$3,611,237		\$3,330,890

(3) and (5) are from Exhibit WC-HC-Med-2.

(7) to 2020/21 is from Exhibit WC-HC-Med-13, (9). The amount for 2021/22 is from Exhibit WC-HC-Med-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-HC-Med-2.

Loss Rate and Severity Trend

I. Benefit Level Changes

Effective Date (1)	Benefit Level Change (2)	Cumulative Benefit Level Change (3)
01/01/10	0.992	0.992
01/01/11	1.015	1.007
09/01/11	0.853	0.859
01/01/12	1.015	0.872
11/20/12	0.994	0.867
01/01/13	1.009	0.874
01/01/14	1.008	0.881
07/16/14	1.003	0.884
01/01/15	1.010	0.893
01/01/16	1.003	0.895
01/01/17	1.006	0.901
01/01/18	1.011	0.911

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2019/20 = 1.000) (2)	Residual Trend (2019/20 = 1.000) (3)	Retention Index (2019/20 = 1.000) (4)	Loss Rate Trend (2019/20 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2019/20 = 1.000) (6)	Severity Trend (2019/20 = 1.000) (5)X(6) (7)
2009/10	0.918	1.480	1.000	1.359	1.344	1.826
2010/11	0.940	1.423	1.000	1.338	1.305	1.746
2011/12	1.046	1.369	1.000	1.432	1.267	1.814
2012/13	1.042	1.316	1.000	1.372	1.230	1.687
2013/14	1.033	1.265	1.000	1.307	1.194	1.561
2014/15	1.021	1.217	1.000	1.242	1.159	1.440
2015/16	1.017	1.170	1.000	1.190	1.126	1.339
2016/17	1.012	1.125	1.000	1.138	1.093	1.243
2017/18	1.001	1.082	1.000	1.083	1.061	1.149
2018/19	1.000	1.040	1.000	1.040	1.030	1.071
2019/20	1.000	1.000	1.000	1.000	1.000	1.000
2020/21	1.000	0.962	1.000	0.962	0.971	0.934
2021/22	1.000	0.925	1.000	0.925	0.943	0.871

Section I, (2) and (3) reflect data published by the NCCI.

Section II, (2) is based on Section I, (2).

Section II, (3) is based on 4% trend per actuarial judgment.

Section II, (4) is based on industry statistics and actuarial judgment.

Section II, (6) is based on 3% trend.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (MEDICAL)

Exhibit WC-HC-Med-16

List of Large Claims
Reported Incurred Losses Greater Than \$1,000,000

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/19 (5)	Unlimited Case Reserves 11/30/19 (6)	Unlimited Reported Incurred Losses 11/30/19 (7)
894134	07/23/91	to 1999/00	Unlimited	\$1,181,030	\$18,970	\$1,200,000

Amounts are gross of excess insurance and net of other recoveries.

Size of Loss Distribution

I. Reported Claim Count

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	7,434	102	97	104	105	60	7,902		
0.01 - 5,000	3,556	32	54	42	47	49	3,780	3,780	79.9%
5,000 - 10,000	296	8	9	7	4	7	331	4,111	87.0%
10,000 - 25,000	307	10	4	3	10	20	354	4,465	94.4%
25,000 - 50,000	125	3	8	6	12	7	161	4,626	97.8%
50,000 - 100,000	53	3	3	4	1	10	74	4,700	99.4%
100,000 - 250,000	18	0	1	1	0	0	20	4,720	99.8%
250,000 - 500,000	5	0	0	0	0	0	5	4,725	99.9%
500,000 - 750,000	2	0	0	0	0	0	2	4,727	100.0%
750,000 - 1,000,000	0	0	0	0	0	0	0	4,727	100.0%
Over 1,000,000	1	0	0	0	0	0	1	4,728	100.0%
Total	11,797	158	176	167	179	153	12,630	4,728	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
0.01 - 5,000	3,507,359	45,725	76,359	78,449	74,655	71,680	3,854,226	3,854,226	13.0%
5,000 - 10,000	2,136,165	51,913	69,996	55,409	25,001	53,050	2,391,536	6,245,762	21.1%
10,000 - 25,000	4,884,512	150,202	78,352	52,618	177,727	339,741	5,683,153	11,928,915	40.2%
25,000 - 50,000	4,368,889	96,075	297,406	235,309	464,048	239,650	5,701,377	17,630,292	59.5%
50,000 - 100,000	3,541,352	183,367	219,562	364,960	60,000	649,800	5,019,042	22,649,333	76.4%
100,000 - 250,000	2,517,165	0	140,000	143,855	0	0	2,801,020	25,450,353	85.8%
250,000 - 500,000	1,757,880	0	0	0	0	0	1,757,880	27,208,233	91.8%
500,000 - 750,000	1,237,070	0	0	0	0	0	1,237,070	28,445,303	96.0%
750,000 - 1,000,000	0	0	0	0	0	0	0	28,445,303	96.0%
Over 1,000,000	1,200,000	0	0	0	0	0	1,200,000	29,645,303	100.0%
Total	\$25,150,391	\$527,282	\$881,676	\$930,601	\$801,432	\$1,353,921	\$29,645,303	\$29,645,303	

Amounts are gross of excess insurance and net of other recoveries.

Data was provided by the County.

CookCounty_WC_Healthcare_Med_113019.xlsx



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Data Summary as of November 30, 2019
 Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Limited Paid Losses 11/30/19 (8)	Limited Case Reserves 11/30/19 (9)	Limited Reported Incurred Losses 11/30/19 (10)
to 1999/00	See Note	None	240.0	Not Provided	16	0	\$11,062,000	\$0	\$11,062,000
2000/01	10,000,000	25,000,000	228.0	Not Provided	9	0	950,000	0	950,000
2001/02	15,000,000	50,000,000	216.0	Not Provided	16	0	1,000,000	0	1,000,000
2002/03	20,000,000	80,000,000	204.0	Not Provided	10	0	19,000	0	19,000
2003/04	20,000,000	None	192.0	785	18	0	2,958,500	0	2,958,500
2004/05	20,000,000	None	180.0	748	16	0	750	0	750
2005/06	20,000,000	None	168.0	733	18	0	1,000,000	0	1,000,000
2006/07	20,000,000	None	156.0	613	13	0	2,500	0	2,500
2007/08	20,000,000	None	144.0	Not Provided	8	0	1,000,000	0	1,000,000
2008/09	20,000,000	None	132.0	Not Provided	1	0	0	0	0
2009/10	40,000,000	None	120.0	Not Provided	4	0	1,310,000	0	1,310,000
2010/11	40,000,000	None	108.0	Not Provided	1	0	3,000	0	3,000
2011/12	40,000,000	None	96.0	929	3	0	10,000	0	10,000
2012/13	30,000,000	None	84.0	862	7	0	0	0	0
2013/14	30,000,000	None	72.0	862	0	0	0	0	0
2014/15	25,000,000	None	60.0	877	5	1	41,000	3,000,000	3,041,000
2015/16	25,000,000	80,000,000	48.0	961	3	1	1,955,000	1,000,000	2,955,000
2016/17	25,000,000	80,000,000	36.0	1,303	1	0	900,000	0	900,000
2017/18	25,000,000	80,000,000	24.0	1,300	0	0	0	0	0
2018/19	25,000,000	80,000,000	12.0	1,282	1	0	0	0	0
Total					150	2	\$22,211,750	\$4,000,000	\$26,211,750

* The specific self-insured retention changes are as follows:

Effective Date	Retention
12/01/70	Unlimited
12/01/00	10,000,000
12/01/01	15,000,000
12/01/02	20,000,000
03/01/10	40,000,000
03/01/13	30,000,000
07/01/15	25,000,000

(8), (9) and (10) are net of the specific self-insured retention and other recoveries.

Data was provided by the County.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Data Summary as of November 30, 2019
 Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Net Unlimited Paid Losses 11/30/19 (8)	Net Unlimited Case Reserves 11/30/19 (9)	Net Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	16	0	\$11,062,000	\$0	\$11,062,000
2000/01	Unlimited	25,000,000	228.0	Not Provided	9	0	950,000	0	950,000
2001/02	Unlimited	50,000,000	216.0	Not Provided	16	0	1,000,000	0	1,000,000
2002/03	Unlimited	80,000,000	204.0	Not Provided	10	0	19,000	0	19,000
2003/04	Unlimited	None	192.0	785	18	0	2,958,500	0	2,958,500
2004/05	Unlimited	None	180.0	748	16	0	750	0	750
2005/06	Unlimited	None	168.0	733	18	0	1,000,000	0	1,000,000
2006/07	Unlimited	None	156.0	613	13	0	2,500	0	2,500
2007/08	Unlimited	None	144.0	Not Provided	8	0	1,000,000	0	1,000,000
2008/09	Unlimited	None	132.0	Not Provided	1	0	0	0	0
2009/10	Unlimited	None	120.0	Not Provided	4	0	1,310,000	0	1,310,000
2010/11	Unlimited	None	108.0	Not Provided	1	0	3,000	0	3,000
2011/12	Unlimited	None	96.0	929	3	0	10,000	0	10,000
2012/13	Unlimited	None	84.0	862	7	0	0	0	0
2013/14	Unlimited	None	72.0	862	0	0	0	0	0
2014/15	Unlimited	None	60.0	877	5	1	41,000	3,000,000	3,041,000
2015/16	Unlimited	80,000,000	48.0	961	3	1	1,955,000	1,000,000	2,955,000
2016/17	Unlimited	80,000,000	36.0	1,303	1	0	900,000	0	900,000
2017/18	Unlimited	80,000,000	24.0	1,300	0	0	0	0	0
2018/19	Unlimited	80,000,000	12.0	1,282	1	0	0	0	0
Total					150	2	\$22,211,750	\$4,000,000	\$26,211,750

(8), (9) and (10) are gross of the specific self-insured retention and net of other recoveries.

Data was provided by the County.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Data Summary as of November 30, 2019
 Gross Unlimited Losses

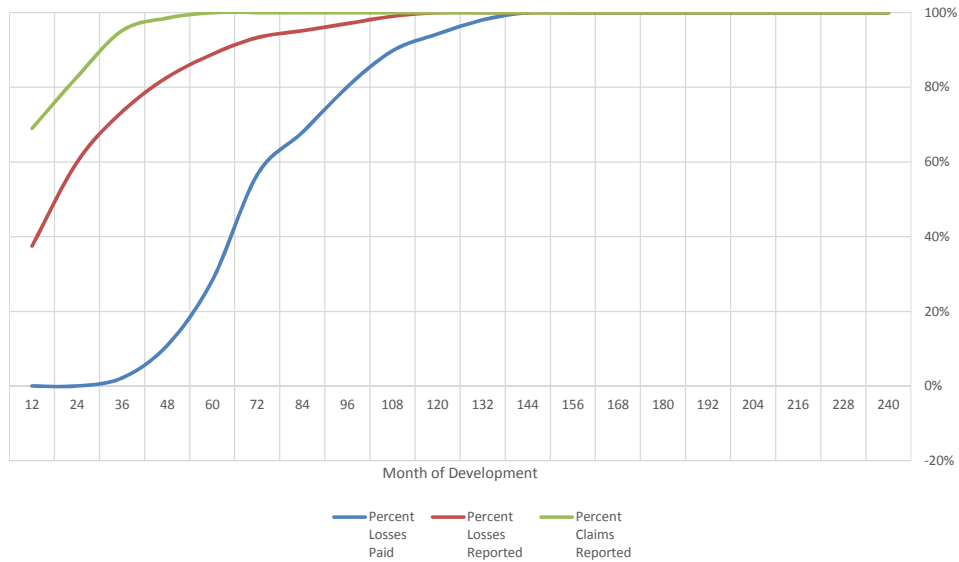
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Gross Unlimited Paid Losses 11/30/19 (8)	Gross Unlimited Case Reserves 11/30/19 (9)	Gross Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	16	0	\$11,062,000	\$0	\$11,062,000
2000/01	Unlimited	25,000,000	228.0	Not Provided	9	0	950,000	0	950,000
2001/02	Unlimited	50,000,000	216.0	Not Provided	16	0	1,000,000	0	1,000,000
2002/03	Unlimited	80,000,000	204.0	Not Provided	10	0	19,000	0	19,000
2003/04	Unlimited	None	192.0	785	18	0	2,958,500	0	2,958,500
2004/05	Unlimited	None	180.0	748	16	0	750	0	750
2005/06	Unlimited	None	168.0	733	18	0	1,000,000	0	1,000,000
2006/07	Unlimited	None	156.0	613	13	0	2,500	0	2,500
2007/08	Unlimited	None	144.0	Not Provided	8	0	1,000,000	0	1,000,000
2008/09	Unlimited	None	132.0	Not Provided	1	0	0	0	0
2009/10	Unlimited	None	120.0	Not Provided	4	0	1,310,000	0	1,310,000
2010/11	Unlimited	None	108.0	Not Provided	1	0	3,000	0	3,000
2011/12	Unlimited	None	96.0	929	3	0	10,000	0	10,000
2012/13	Unlimited	None	84.0	862	7	0	0	0	0
2013/14	Unlimited	None	72.0	862	0	0	0	0	0
2014/15	Unlimited	None	60.0	877	5	1	41,000	3,000,000	3,041,000
2015/16	Unlimited	80,000,000	48.0	961	3	1	1,955,000	1,000,000	2,955,000
2016/17	Unlimited	80,000,000	36.0	1,303	1	0	900,000	0	900,000
2017/18	Unlimited	80,000,000	24.0	1,300	0	0	0	0	0
2018/19	Unlimited	80,000,000	12.0	1,282	1	0	0	0	0
Total					150	2	\$22,211,750	\$4,000,000	\$26,211,750

(8), (9) and (10) are gross of the specific self-insured retention and other recoveries.

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	98.0%	100.0%	100.0%
120.0	94.3%	100.0%	100.0%
108.0	89.8%	99.0%	100.0%
96.0	80.2%	97.1%	100.0%
84.0	67.9%	95.2%	100.0%
72.0	56.6%	93.3%	100.0%
60.0	28.3%	88.9%	100.0%
48.0	10.9%	82.7%	98.5%
36.0	2.2%	73.5%	95.2%
24.0	0.0%	60.0%	82.8%
12.0	0.0%	37.5%	69.0%



(2) is from Exhibit MM-Cermak-2 (page 2).

(3) is from Exhibit MM-Cermak-2 (page 3).

(4) is from Exhibit MM-Cermak-2 (page 4).

Historical Reported Claims and Reported Claim Development

I. Historical Reported Claims

Claim Period	12	24	Months of Development:																		
			36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																			413	413	413
2000/01																107	107	107	107	107	
2001/02															118	118	118	118	118		
2002/03															111	111	111	111			
2003/04														161	161	161	161	161			
2004/05												121	121	121	121	121					
2005/06											100	101	101	101							
2006/07										72	73	73	73								
2007/08									51	51	51	51									
2008/09								46	46	46	46										
2009/10							51	51	51	51											
2010/11						59	59	60	60												
2011/12					56	56	57	57													
2012/13				64	65	65	65														
2013/14			41	42	42	42															
2014/15		33	43	45	47																
2015/16	35	46	53	56																	
2016/17	12	19	25																		
2017/18	28	34																			
2018/19	29																				

II. Reported Claim Development

Claim Period	12-24	24-36	Months of Development:																	
			36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult
to 1999/00																			1.000	1.000
2000/01																1.000	1.000	1.000	1.000	
2001/02															1.000	1.000	1.000			
2002/03														1.000	1.000	1.000				
2003/04													1.000	1.000	1.000					
2004/05												1.000	1.000	1.000						
2005/06											1.010	1.000	1.000							
2006/07										1.014	1.000	1.000								
2007/08									1.000	1.000	1.000									
2008/09								1.000	1.000	1.000										
2009/10									1.000	1.000	1.000									
2010/11						1.000	1.017	1.000												
2011/12					1.000	1.018	1.000													
2012/13				1.016	1.000	1.000														
2013/14			1.024	1.000	1.000															
2014/15		1.303	1.047	1.044																
2015/16	1.314	1.152	1.057																	
2016/17	1.583	1.316																		
2017/18	1.214																			
2018/19																				
Average																				
All	1.371	1.257	1.043	1.020	1.000	1.006	1.006	1.000	1.000	1.005	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Wtd 3	1.320	1.235	1.044	1.020	1.000	1.006	1.006	1.000	1.000	1.006	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 3	1.371	1.257	1.043	1.020	1.000	1.006	1.006	1.000	1.000	1.005	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 5																				
x-hi,low																				
Previous	1.200	1.100	1.030	1.010	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
Selected	1.200	1.150	1.035	1.015	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
Cumulative	1.450	1.208	1.051	1.015	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
Percent	69.0%	82.8%	95.2%	98.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Data was provided by the County and is for Cermak, Stroger and Provident combined.

Historical Ratio of Limited Paid Losses and Limited Reported Incurred Losses

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																				100.0%	100.0%
2000/01	0.0%	0.0%	1.9%	6.2%	12.0%	20.8%	30.0%	30.0%	32.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2001/02	0.0%	0.0%	0.1%	37.8%	49.1%	51.3%	96.9%	96.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2002/03	0.0%	0.1%	21.8%	15.0%	39.4%	66.1%	85.9%	93.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2003/04	0.0%	0.0%	0.0%	22.6%	56.0%	63.7%	96.3%	97.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2004/05	0.0%	0.3%	0.5%	24.0%	78.1%	96.1%	100.0%	94.9%	94.9%	100.0%	100.0%	100.0%	66.3%	49.6%	58.5%						
2005/06	0.0%	0.0%	2.3%	2.1%	39.3%	55.1%	71.5%	73.9%	45.3%	92.2%	100.0%	99.0%	96.0%	97.0%							
2006/07	0.0%	0.1%	0.2%	0.5%	42.7%	35.7%	86.7%	100.0%	100.0%	100.0%	100.0%	97.9%	97.9%								
2007/08	0.0%	1.0%	0.7%	19.9%	46.6%	68.9%	77.1%	100.0%	100.0%	100.0%	100.0%	100.0%									
2008/09	0.0%	0.0%	25.0%	30.8%	33.0%	44.0%	62.4%	97.0%	100.0%	100.0%	100.0%										
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	100.0%	100.0%	100.0%	100.0%											
2010/11	0.0%	0.0%	0.0%	25.7%	43.6%	48.4%	54.9%	100.0%													
2011/12	0.0%	58.7%	52.2%	61.8%	67.1%	91.1%	97.3%	98.0%													
2012/13	0.0%	7.1%	2.9%	5.9%	9.1%	30.6%	50.7%														
2013/14	0.0%	0.0%	0.0%	14.8%	53.6%	75.9%															
2014/15	0.0%	0.3%	0.3%	0.4%	10.4%																
2015/16	1.7%	30.0%	40.1%	37.2%																	
2016/17	0.0%	0.0%	9.1%																		
2017/18	0.0%	0.0%																			
2018/19	0.0%																				
Average																					
All	0.1%	5.4%	9.3%	19.9%	42.4%	59.4%	77.7%	90.1%	88.4%	99.2%	99.8%	99.6%	94.3%	91.1%	91.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 3		10.0%	16.5%	17.5%	24.4%	65.9%	67.6%	99.3%	100.0%	100.0%	99.3%	99.0%	86.8%	82.2%	86.2%	100.0%	100.0%				
Last 5	0.0%	0.1%	4.1%	19.3%	35.9%	69.5%	71.5%	99.3%	100.0%	100.0%	100.0%	99.7%	98.0%	99.0%	100.0%						
x-hi,low																					
Implicit	0.0%	0.0%	3.0%	13.2%	31.9%	60.7%	71.4%	82.6%	90.7%	94.3%	98.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Prior	0.0%	0.0%	3.0%	13.2%	31.9%	60.7%	71.4%	82.6%	90.7%	94.3%	98.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Paid Losses 11/30/19 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1999/00	240.0	\$11,062,000	100.0%	\$11,062,000
2000/01	228.0	950,000	100.0%	950,000
2001/02	216.0	1,000,000	100.0%	1,000,000
2002/03	204.0	19,000	100.0%	19,000
2003/04	192.0	2,958,500	100.0%	2,958,500
2004/05	180.0	750	100.0%	750
2005/06	168.0	1,000,000	100.0%	1,000,000
2006/07	156.0	2,500	100.0%	2,500
2007/08	144.0	1,000,000	100.0%	1,000,000
2008/09	132.0	0	98.0%	0
2009/10	120.0	1,310,000	94.3%	1,389,648
2010/11	108.0	3,000	89.8%	3,342
2011/12	96.0	10,000	80.2%	12,475
2012/13	84.0	0	67.9%	0
2013/14	72.0	0	56.6%	0
2014/15	60.0	41,000	28.3%	144,850
2015/16	48.0	1,955,000	10.9%	17,957,844
2016/17	36.0	900,000	2.2%	41,335,191
2017/18	24.0	0	0.0%	0
2018/19	12.0	0	0.0%	0
Total		\$22,211,750		\$78,836,099

(3) is from Exhibit MM-Cermak-1.

(4) is from Exhibit MM-Cermak-2.

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1999/00	240.0	\$11,062,000	100.0%	\$11,062,000
2000/01	228.0	950,000	100.0%	950,000
2001/02	216.0	1,000,000	100.0%	1,000,000
2002/03	204.0	19,000	100.0%	19,000
2003/04	192.0	2,958,500	100.0%	2,958,500
2004/05	180.0	750	100.0%	750
2005/06	168.0	1,000,000	100.0%	1,000,000
2006/07	156.0	2,500	100.0%	2,500
2007/08	144.0	1,000,000	100.0%	1,000,000
2008/09	132.0	0	100.0%	0
2009/10	120.0	1,310,000	100.0%	1,310,000
2010/11	108.0	3,000	99.0%	3,030
2011/12	96.0	10,000	97.1%	10,302
2012/13	84.0	0	95.2%	0
2013/14	72.0	0	93.3%	0
2014/15	60.0	3,041,000	88.9%	3,422,375
2015/16	48.0	2,955,000	82.7%	3,575,009
2016/17	36.0	900,000	73.5%	1,224,940
2017/18	24.0	0	60.0%	0
2018/19	12.0	0	37.5%	0
Total		\$26,211,750		\$27,538,406

(3) is from Exhibit MM-Cermak-1.

(4) is from Exhibit MM-Cermak-2.

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/19 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/19 (6)	Limited Case Reserves 11/30/19 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1999/00	240.0	100.0%	100.0%	100.0%	\$11,062,000	\$0	\$11,062,000
2000/01	228.0	100.0%	100.0%	100.0%	950,000	0	950,000
2001/02	216.0	100.0%	100.0%	100.0%	1,000,000	0	1,000,000
2002/03	204.0	100.0%	100.0%	100.0%	19,000	0	19,000
2003/04	192.0	100.0%	100.0%	100.0%	2,958,500	0	2,958,500
2004/05	180.0	100.0%	100.0%	100.0%	750	0	750
2005/06	168.0	100.0%	100.0%	100.0%	1,000,000	0	1,000,000
2006/07	156.0	100.0%	100.0%	100.0%	2,500	0	2,500
2007/08	144.0	100.0%	100.0%	100.0%	1,000,000	0	1,000,000
2008/09	132.0	98.0%	100.0%	100.0%	0	0	0
2009/10	120.0	94.3%	100.0%	100.0%	1,310,000	0	1,310,000
2010/11	108.0	89.8%	99.0%	90.3%	3,000	0	3,000
2011/12	96.0	80.2%	97.1%	85.2%	10,000	0	10,000
2012/13	84.0	67.9%	95.2%	84.9%	0	0	0
2013/14	72.0	56.6%	93.3%	84.6%	0	0	0
2014/15	60.0	28.3%	88.9%	84.5%	41,000	3,000,000	3,593,107
2015/16	48.0	10.9%	82.7%	80.5%	1,955,000	1,000,000	3,196,643
2016/17	36.0	2.2%	73.5%	72.9%	900,000	0	900,000
2017/18	24.0	0.0%	60.0%	60.0%	0	0	0
2018/19	12.0	0.0%	37.5%	37.5%	0	0	0
Total					\$22,211,750	\$4,000,000	\$27,005,500

(3) and (4) are from Exhibit MM-Cermak-2.

(6) and (7) are from Exhibit MM-Cermak-1.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-6

Preliminary Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	Preliminary Projected Ultimate Limited Losses (5)
to 1999/00	\$11,062,000	\$11,062,000	\$11,062,000	\$11,062,000
2000/01	950,000	950,000	950,000	950,000
2001/02	1,000,000	1,000,000	1,000,000	1,000,000
2002/03	19,000	19,000	19,000	19,000
2003/04	2,958,500	2,958,500	2,958,500	2,958,500
2004/05	750	750	750	750
2005/06	1,000,000	1,000,000	1,000,000	1,000,000
2006/07	2,500	2,500	2,500	2,500
2007/08	1,000,000	1,000,000	1,000,000	1,000,000
2008/09	0	0	0	0
2009/10	1,389,648	1,310,000	1,310,000	1,310,000
2010/11	3,342	3,030	3,000	3,000
2011/12	12,475	10,302	10,000	10,000
2012/13	0	0	0	0
2013/14	0	0	0	0
2014/15	144,850	3,422,375	3,593,107	3,524,814
2015/16	17,957,844	3,575,009	3,196,643	4,824,110
2016/17	41,335,191	1,224,940	900,000	900,000
2017/18	0	0	0	0
2018/19	0	0	0	0
Total	\$78,836,099	\$27,538,406	\$27,005,500	\$28,564,674

(2) is from Exhibit MM-Cermak-3.

(3) is from Exhibit MM-Cermak-4.

(4) is from Exhibit MM-Cermak-5.

(5) is based on (2) to (4) and actuarial judgment.

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)	Projected A-priori Loss Rate per Occupied Bed Equivalent (7)/(5) (8)
2009/10	\$1,310,000	929	\$1,409.50	1.088	\$1,533.61	\$1,200.78
2010/11	3,000	929	3.23	1.389	4.48	940.89
2011/12	10,000	929	10.76	1.335	14.37	978.52
2012/13	0	862	0.00	1.298	0.00	1,006.40
2013/14	0	862	0.00	1.253	0.00	1,042.88
2014/15	3,524,814	877	4,020.72	1.210	4,863.69	1,080.07
2015/16	4,824,110	961	5,019.37	1.170	5,871.95	1,116.81
2016/17	900,000	1,303	690.77	1.125	777.02	1,161.48
2017/18	0	1,300	0.00	1.082	0.00	1,207.94
2018/19	0	1,282	0.00	1.040	0.00	1,256.26

(7) Projected 2019/20 a-priori loss rate per Occupied Bed Equivalent \$1,306.51

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Percent Losses Paid (3)	Projected A-priori Loss Rate per Occupied Bed Equivalent (4)	Occupied Bed Equivalents (5)	B-F Unpaid Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Paid Losses (2)+(6) (7)
2014/15	\$41,000	28.3%	\$1,080.07	877	\$678,847	\$719,847
2015/16	1,955,000	10.9%	1,116.81	961	956,513	2,911,513
2016/17	900,000	2.2%	1,161.48	1,303	1,480,350	2,380,350
2017/18	0	0.0%	1,207.94	1,300	1,570,478	1,570,478
2018/19	0	0.0%	1,256.26	1,282	1,610,991	1,610,991

III. Bornhuetter - Ferguson Analysis Based on Limited Reported Incurred Losses

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Percent Losses Reported (3)	Projected A-priori Loss Rate per Occupied Bed Equivalent (4)	Occupied Bed Equivalents (5)	B-F Unreported Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Reported Losses (2)+(6) (7)
2014/15	\$3,041,000	88.9%	\$1,080.07	877	\$105,514	\$3,146,514
2015/16	2,955,000	82.7%	1,116.81	961	186,152	3,141,152
2016/17	900,000	73.5%	1,161.48	1,303	401,433	1,301,433
2017/18	0	60.0%	1,207.94	1,300	628,651	628,651
2018/19	0	37.5%	1,256.26	1,282	1,007,183	1,007,183

Section I, (2) is from Exhibit MM-Cermak-6.

Section I, (3), Section II, (5) and Section III, (5) are from Exhibit MM-Cermak-10.

Section I, (5) is based on a 4% trend and adjusted for change in retention.

Section I, (7) is based on Section I, (6) and actuarial judgment.

Sections II and III, (2) are from Exhibit MM-Cermak-1.

Sections II and III, (3) are from Exhibit MM-Cermak-2.

Sections II and III, (4) are from Section I, (8).

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/19 (2)	Reported Claims 11/30/19 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2009/10	120.0	4	100.0%	4	929	0.00
2010/11	108.0	1	100.0%	1	929	0.00
2011/12	96.0	3	100.0%	3	929	0.00
2012/13	84.0	7	100.0%	7	862	0.01
2013/14	72.0	0	100.0%	0	862	0.00
2014/15	60.0	5	100.0%	5	877	0.01
2015/16	48.0	3	98.5%	3	961	0.00
2016/17	36.0	1	95.2%	1	1,303	0.00
2017/18	24.0	0	82.8%	0	1,300	0.00
2018/19	12.0	1	69.0%	1	1,282	0.00

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2019/20 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2019/20 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2009/10	\$1,310,000	4	\$327,500	1.088	\$356,337	\$377,856	\$1,511,425
2010/11	3,000	1	3,000	1.389	4,166	296,074	296,074
2011/12	10,000	3	3,333	1.335	4,451	307,917	923,750
2012/13	0	7	0	1.298	0	316,690	2,216,827
2013/14	0	0	0	1.253	0	328,169	0
2014/15	3,524,814	5	704,963	1.210	852,763	339,871	1,699,354
2015/16	4,824,110	3	1,608,037	1.170	1,881,175	351,433	1,054,299
2016/17	900,000	1	900,000	1.125	1,012,378	365,490	365,490
2017/18	0	0	0	1.082	0	380,110	0
2018/19	0	1	0	1.040	0	395,314	395,314
(7) Projected 2019/20 average claim severity					\$411,127		

Section I, (3) is from Exhibit MM-Cermak-1.

Section I, (4) is from Exhibit MM-Cermak-2.

Section I, (6) is from Exhibit MM-Cermak-10.

Section II, (2) is from Exhibit MM-Cermak-6.

Section II, (3) is from Section I, (5).

Section II, (5) is based on a 4% trend and adjusted for change in retention.

Section II, (7) is based on (6) and actuarial judgment.

Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	B-F Ultimate Limited Paid Losses (5)	B-F Ultimate Limited Reported Losses (6)	Frequency Times Severity (7)	Prior Projected Ultimate Limited Losses (8)	Projected Ultimate Limited Losses (9)
to 1999/00	\$11,062,000	\$11,062,000	\$11,062,000				\$11,062,000	\$11,062,000
2000/01	950,000	950,000	950,000				950,000	950,000
2001/02	1,000,000	1,000,000	1,000,000				1,000,000	1,000,000
2002/03	19,000	19,000	19,000				19,000	19,000
2003/04	2,958,500	2,958,500	2,958,500				2,958,500	2,958,500
2004/05	750	750	750				750	750
2005/06	1,000,000	1,000,000	1,000,000				1,000,000	1,000,000
2006/07	2,500	2,500	2,500				2,500	2,500
2007/08	1,000,000	1,000,000	1,000,000				1,000,000	1,000,000
2008/09	0	0	0				0	0
2009/10	1,389,648	1,310,000	1,310,000				1,310,000	1,310,000
2010/11	3,342	3,030	3,000				3,000	3,000
2011/12	12,475	10,302	10,000				10,000	10,000
2012/13	0	0	0				25,000	0
2013/14	0	0	0				125,000	0
2014/15	144,850	3,422,375	3,593,107	719,847	3,146,514	1,699,354	3,500,000	3,250,000
2015/16	17,957,844	3,575,009	3,196,643	2,911,513	3,141,152	1,054,299	3,400,000	3,300,000
2016/17	41,335,191	1,224,940	900,000	2,380,350	1,301,433	365,490	1,700,000	1,500,000
2017/18	0	0	0	1,570,478	628,651		1,000,000	1,000,000
2018/19	0	0	0	1,610,991	1,007,183	395,314	1,747,000	1,000,000
Total	\$78,836,099	\$27,538,406	\$27,005,500				\$30,812,750	\$29,365,750
2014/15 - 2018/19	59,437,884	8,222,324	7,689,750	9,193,178	9,224,933	3,514,458	11,347,000	10,050,000
to 2013/14	19,398,215	19,316,082	19,315,750				19,465,750	19,315,750
						Change		
						All years		-\$1,447,000
						2014/15 - 2018/19		-1,297,000
						to 2013/14		-150,000

- (2) is from Exhibit MM-Cermak-3.
- (3) is from Exhibit MM-Cermak-4.
- (4) is from Exhibit MM-Cermak-5.
- (5) and (6) are from Exhibit MM-Cermak-7.
- (7) is from Exhibit MM-Cermak-8.
- (8) is based on (2) to (7) and actuarial judgment.

Projected Ultimate Limited Losses for 2019/20 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2009/10	\$1,310,000	929	\$1,409.50	1.088	\$1,533.61
2010/11	3,000	929	3.23	1.389	4.48
2011/12	10,000	929	10.76	1.335	14.37
2012/13	0	862	0.00	1.298	0.00
2013/14	0	862	0.00	1.253	0.00
2014/15	3,250,000	877	3,707.24	1.210	4,484.49
2015/16	3,300,000	961	3,433.57	1.170	4,016.79
2016/17	1,500,000	1,303	1,151.28	1.125	1,295.03
2017/18	1,000,000	1,300	769.02	1.082	831.77
2018/19	1,000,000	1,282	779.74	1.040	810.92
Total	\$11,373,000	10,236	\$1,111.08		\$1,299.15

Claim Period (1)	Projected Limited Loss Rate per Occupied Bed Equivalent (7)	Projected Occupied Bed Equivalents (8)	Projected Ultimate Limited Losses (7)X(8) (9)	Present Value Factor (10)	Present Value of Projected Limited Loss Rate per Occupied Bed Equivalent (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11) (12)
2019/20	\$1,299.15	1,282	\$1,666,000	0.91	\$1,176.92	\$1,509,000
2020/21	1,351.11	1,282	1,733,000	0.91	1,224.00	1,570,000
2021/22	1,405.16	1,282	1,802,000	0.91	1,272.96	1,633,000

(2) is from Exhibit MM-Cermak-9.

(3) 2011/12, 2012/13, 2013/14, 2014/15, 2015/16, 2016/17, 2017/18 and 2018/19 were provided by the County. Other periods assume a 0% trend.

(5) is based on a 4% trend and adjusted for change in retention.

(7) 2019/20 is based on (6) and actuarial judgment.
 Other period(s) based on 2019/20 plus a 4% trend.

(8) to 2019/20 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Cermak-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-11

Estimated Outstanding Losses as of November 30, 2019

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Limited Case Reserves 11/30/19 (3)	Limited Reported Incurred Losses 11/30/19 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/19 (5)-(4) (6)	Estimated Outstanding Losses 11/30/19 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/19 (7)X(8) (9)
to 1999/00	\$11,062,000	\$0	\$11,062,000	\$11,062,000	\$0	\$0	1.00	\$0
2000/01	950,000	0	950,000	950,000	0	0	1.00	0
2001/02	1,000,000	0	1,000,000	1,000,000	0	0	1.00	0
2002/03	19,000	0	19,000	19,000	0	0	1.00	0
2003/04	2,958,500	0	2,958,500	2,958,500	0	0	1.00	0
2004/05	750	0	750	750	0	0	1.00	0
2005/06	1,000,000	0	1,000,000	1,000,000	0	0	1.00	0
2006/07	2,500	0	2,500	2,500	0	0	1.00	0
2007/08	1,000,000	0	1,000,000	1,000,000	0	0	1.00	0
2008/09	0	0	0	0	0	0	0.99	0
2009/10	1,310,000	0	1,310,000	1,310,000	0	0	0.99	0
2010/11	3,000	0	3,000	3,000	0	0	0.98	0
2011/12	10,000	0	10,000	10,000	0	0	0.98	0
2012/13	0	0	0	0	0	0	0.97	0
2013/14	0	0	0	0	0	0	0.97	0
2014/15	41,000	3,000,000	3,041,000	3,250,000	209,000	3,209,000	0.97	3,105,313
2015/16	1,955,000	1,000,000	2,955,000	3,300,000	345,000	1,345,000	0.96	1,291,353
2016/17	900,000	0	900,000	1,500,000	600,000	600,000	0.95	569,459
2017/18	0	0	0	1,000,000	1,000,000	1,000,000	0.94	935,312
2018/19	0	0	0	1,000,000	1,000,000	1,000,000	0.92	920,499
Total	\$22,211,750	\$4,000,000	\$26,211,750	\$29,365,750	\$3,154,000	\$7,154,000		\$6,821,936

(2), (3) and (4) are net of specific self-insured retention and aggregate retention.

(5) is from Exhibit MM-Cermak-9.

(8) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Cermak-2.

Projected Losses Paid December 1, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1999/00	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2010/11	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2011/12	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2012/13	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.98	0
2013/14	72.0	56.6%	84.0	67.9%	26.1%	0	0	0	0.97	0
2014/15	60.0	28.3%	72.0	56.6%	39.5%	3,209,000	1,266,916	1,942,084	0.97	1,878,235
2015/16	48.0	10.9%	60.0	28.3%	19.5%	1,345,000	262,901	1,082,099	0.97	1,047,135
2016/17	36.0	2.2%	48.0	10.9%	8.9%	600,000	53,419	546,581	0.96	524,780
2017/18	24.0	0.0%	36.0	2.2%	2.2%	1,000,000	21,596	978,404	0.95	928,602
2018/19	12.0	0.0%	24.0	0.0%	0.0%	1,000,000	91	999,909	0.94	935,227
2019/20	0.0	0.0%	12.0	0.0%	0.0%	1,666,000	151	1,665,849	0.92	1,533,412
Total						\$8,820,000	\$1,605,074	\$7,214,926		\$6,847,391

(3) and (5) are from Exhibit MM-Cermak-2.

(7) to 2018/19 is from Exhibit MM-Cermak-11. The amount for 2019/20 is from Exhibit MM-Cermak-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Cermak-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-13

Projected Losses Paid December 1, 2020 to November 30, 2021

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Months of Development 11/30/21 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/20 to 11/30/21 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/20 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/21 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/21 (9)X(10) (11)
to 1999/00	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2011/12	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2012/13	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2013/14	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.98	0
2014/15	72.0	56.6%	84.0	67.9%	26.1%	1,942,084	506,766	1,435,318	0.97	1,397,645
2015/16	60.0	28.3%	72.0	56.6%	39.5%	1,082,099	427,214	654,885	0.97	633,355
2016/17	48.0	10.9%	60.0	28.3%	19.5%	546,581	106,838	439,743	0.97	425,534
2017/18	36.0	2.2%	48.0	10.9%	8.9%	978,404	87,109	891,295	0.96	855,745
2018/19	24.0	0.0%	36.0	2.2%	2.2%	999,909	21,594	978,315	0.95	928,517
2019/20	12.0	0.0%	24.0	0.0%	0.0%	1,665,849	151	1,665,698	0.94	1,557,948
2020/21	0.0	0.0%	12.0	0.0%	0.0%	1,733,000	157	1,732,843	0.92	1,595,080
Total						\$8,947,926	\$1,149,829	\$7,798,097		\$7,393,824

(3) and (5) are from Exhibit MM-Cermak-2.

(7) to 2019/20 is from Exhibit MM-Cermak-12, (9). The amount for 2020/21 is from Exhibit MM-Cermak-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Cermak-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-14

Projected Losses Paid December 1, 2021 to November 30, 2022

Claim Period (1)	Months of Development 11/30/21 (2)	Percent Losses Paid (3)	Months of Development 11/30/22 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/21 to 11/30/22 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/21 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/22 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/22 (9)X(10) (11)
to 1999/00	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2012/13	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2013/14	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2014/15	84.0	67.9%	96.0	80.2%	38.1%	1,435,318	547,308	888,010	0.98	868,451
2015/16	72.0	56.6%	84.0	67.9%	26.1%	654,885	170,885	484,000	0.97	471,296
2016/17	60.0	28.3%	72.0	56.6%	39.5%	439,743	173,611	266,132	0.97	257,382
2017/18	48.0	10.9%	60.0	28.3%	19.5%	891,295	174,217	717,078	0.97	693,908
2018/19	36.0	2.2%	48.0	10.9%	8.9%	978,315	87,101	891,214	0.96	855,667
2019/20	24.0	0.0%	36.0	2.2%	2.2%	1,665,698	35,972	1,629,726	0.95	1,546,770
2020/21	12.0	0.0%	24.0	0.0%	0.0%	1,732,843	157	1,732,686	0.94	1,620,602
2021/22	0.0	0.0%	12.0	0.0%	0.0%	1,802,000	163	1,801,837	0.92	1,658,589
Total						\$9,600,097	\$1,189,414	\$8,410,683		\$7,972,665

(3) and (5) are from Exhibit MM-Cermak-2.

(7) to 2020/21 is from Exhibit MM-Cermak-13, (9). The amount for 2021/22 is from Exhibit MM-Cermak-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Cermak-2.

List of Large Claims
 Reported Incurred Losses Greater Than \$1,000,000

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/19 (5)	Unlimited Case Reserves 11/30/19 (6)	Unlimited Reported Incurred Losses 11/30/19 (7)
97001725	10/29/96	to 1999/00	Unlimited	\$8,000,000	\$0	\$8,000,000
97003095	08/14/00	to 1999/00	Unlimited	1,350,000	0	1,350,000
97004651	08/21/02	2001/02	15,000,000	1,000,000	0	1,000,000
97004871	01/05/04	2003/04	20,000,000	2,500,000	0	2,500,000
97006724	09/03/06	2005/06	20,000,000	1,000,000	0	1,000,000
97007443	12/21/07	2007/08	20,000,000	1,000,000	0	1,000,000
97008627	12/19/09	2009/10	20,000,000	1,000,000	0	1,000,000
201502270	01/26/15	2014/15	30,000,000	0	3,000,000	3,000,000
97012728	12/01/15	2015/16	25,000,000	1,950,000	0	1,950,000
201604335	03/20/16	2015/16	25,000,000	0	1,000,000	1,000,000

Amounts are gross of excess insurance and net of other recoveries.

(1) through (7) were provided by the County.

Size of Loss Distribution

I. Reported Claim Count

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	115	1	0	0	0	1	117		
0.01 - 5,000	4	1	1	0	0	0	6	6	18.2%
5,000 - 10,000	3	1	0	0	0	0	4	10	30.3%
10,000 - 25,000	1	0	0	0	0	0	1	11	33.3%
25,000 - 50,000	3	1	0	0	0	0	4	15	45.5%
50,000 - 100,000	0	0	0	0	0	0	0	15	45.5%
100,000 - 250,000	3	0	0	0	0	0	3	18	54.5%
250,000 - 500,000	2	0	0	0	0	0	2	20	60.6%
500,000 - 750,000	0	0	0	0	0	0	0	20	60.6%
750,000 - 1,000,000	6	0	1	1	0	0	8	28	84.8%
Over 1,000,000	3	1	1	0	0	0	5	33	100.0%
Total	140	5	3	1	0	1	150	33	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
0.01 - 5,000	9,650	5,000	5,000	0	0	0	19,650	19,650	0.1%
5,000 - 10,000	27,100	8,000	0	0	0	0	35,100	54,750	0.2%
10,000 - 25,000	19,000	0	0	0	0	0	19,000	73,750	0.3%
25,000 - 50,000	125,000	28,000	0	0	0	0	153,000	226,750	0.9%
50,000 - 100,000	0	0	0	0	0	0	0	226,750	0.9%
100,000 - 250,000	645,000	0	0	0	0	0	645,000	871,750	3.3%
250,000 - 500,000	790,000	0	0	0	0	0	790,000	1,661,750	6.3%
500,000 - 750,000	0	0	0	0	0	0	0	1,661,750	6.3%
750,000 - 1,000,000	5,850,000	0	1,000,000	900,000	0	0	7,750,000	9,411,750	35.9%
Over 1,000,000	11,850,000	3,000,000	1,950,000	0	0	0	16,800,000	26,211,750	100.0%
Total	\$19,315,750	\$3,041,000	\$2,955,000	\$900,000	\$0	\$0	\$26,211,750	\$26,211,750	

Amounts are gross of excess insurance and net of other recoveries.

Data was provided by the County.

CookCounty_MM_Cermak_113019.xlsx

Calculation of Occupied Bed Equivalents

Occurrence Period (1)	Inpatients (2)	ER Visits (3)	Other Visits (4)	Other Visits (5)	Other Visits (6)	Physicians (7)	Occupied Bed Equivalents (8)
to 1999/00							0
2000/01							0
2001/02							0
2002/03							0
2003/04	615	37,188	42,405	42,050	1,175	33	785
2004/05	584	33,691	47,114	37,977	1,057	33	748
2005/06	592	31,496	50,948	32,574	1,105	23	733
2006/07	512	22,505	43,250	28,912	802	14	613
2007/08							0
2008/09							0
2009/10							0
2010/11							0
2011/12	773	24,144	62,000	43,000		35	929
2012/13	713	23,909	28,000	60,000		35	862
2013/14	713	23,909	28,000	60,000		35	862
2014/15	713	29,765	29,186	34,544		41	877
2015/16	779	35,708	29,444	35,555		45	961
2016/17	1,124	29,524	18,266	64,198		46	1,303
2017/18	1,124	29,278	15,879	32,158		52	1,300
2018/19	1,124	26,904	17,099	26,810		46	1,282
2019/20	1,124	26,904	17,099	26,810		46	1,282

(2) through (7) were provided by the County.

The exposures in (2) through (7) are converted to occupied bed equivalents using the following exposure conversion factors, which were published in the Aon/ASHRM Hospital Professional Liability and Physician Liability Benchmark Analysis published in October 2018. The weight for Housestaff is based on actuarial judgement.

Exposure	Conversion Factor
Inpatients	1.000
ER Visits	0.200 per 100
Other Visits	0.040 per 100
Class 1 physician	1.900
Housestaff	0.800 (residents and interns)

Data Summary as of November 30, 2019
 Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Limited Paid Losses 11/30/19 (8)	Limited Case Reserves 11/30/19 (9)	Limited Reported Incurred Losses 11/30/19 (10)
to 1999/00	See Note	None	240.0	Not Provided	347	0	\$249,471,357	\$0	\$249,471,357
2000/01	10,000,000	25,000,000	228.0	2,028	89	0	10,411,000	0	10,411,000
2001/02	15,000,000	50,000,000	216.0	2,090	90	0	23,647,540	0	23,647,540
2002/03	20,000,000	80,000,000	204.0	2,039	87	0	4,268,645	0	4,268,645
2003/04	20,000,000	None	192.0	2,060	129	0	8,377,500	0	8,377,500
2004/05	20,000,000	None	180.0	2,032	92	1	19,606,850	14,000,000	33,606,850
2005/06	20,000,000	None	168.0	1,961	74	1	22,575,000	750,000	23,325,000
2006/07	20,000,000	None	156.0	1,829	57	1	4,750,000	100,000	4,850,000
2007/08	20,000,000	None	144.0	1,864	40	0	7,002,000	0	7,002,000
2008/09	20,000,000	None	132.0	1,949	42	0	7,905,000	0	7,905,000
2009/10	40,000,000	None	120.0	1,807	42	0	9,092,500	0	9,092,500
2010/11	40,000,000	None	108.0	1,814	58	0	10,715,000	0	10,715,000
2011/12	40,000,000	None	96.0	1,814	50	1	35,468,999	750,000	36,218,999
2012/13	30,000,000	None	84.0	1,840	54	4	34,390,000	33,150,000	67,540,000
2013/14	30,000,000	None	72.0	1,840	39	6	1,625,000	650,000	2,275,000
2014/15	25,000,000	None	60.0	1,728	41	6	3,925,000	31,135,000	35,060,000
2015/16	25,000,000	80,000,000	48.0	1,787	50	18	90,000	7,000,000	7,090,000
2016/17	25,000,000	80,000,000	36.0	1,779	20	12	0	4,900,500	4,900,500
2017/18	25,000,000	80,000,000	24.0	1,774	32	15	0	3,855,000	3,855,000
2018/19	25,000,000	80,000,000	12.0	1,638	24	1	0	50,000	50,000
Total					1,457	66	\$453,321,391	\$96,340,500	\$549,661,891

* The specific self-insured retention changes are as follows:

Effective Date	Retention
12/01/70	Unlimited
12/01/00	10,000,000
12/01/01	15,000,000
12/01/02	20,000,000
03/01/10	40,000,000
03/01/13	30,000,000
07/01/15	25,000,000

(8), (9) and (10) are net of the specific self-insured retention and other recoveries.

Data was provided by the County.

Data Summary as of November 30, 2019
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Net Unlimited Paid Losses 11/30/19 (8)	Net Unlimited Case Reserves 11/30/19 (9)	Net Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	347	0	\$249,471,357	\$0	\$249,471,357
2000/01	Unlimited	25,000,000	228.0	2,028	89	0	10,411,000	0	10,411,000
2001/02	Unlimited	50,000,000	216.0	2,090	90	0	23,647,540	0	23,647,540
2002/03	Unlimited	80,000,000	204.0	2,039	87	0	4,268,645	0	4,268,645
2003/04	Unlimited	None	192.0	2,060	129	0	8,377,500	0	8,377,500
2004/05	Unlimited	None	180.0	2,032	92	1	19,606,850	14,000,000	33,606,850
2005/06	Unlimited	None	168.0	1,961	74	1	22,575,000	750,000	23,325,000
2006/07	Unlimited	None	156.0	1,829	57	1	4,750,000	100,000	4,850,000
2007/08	Unlimited	None	144.0	1,864	40	0	7,002,000	0	7,002,000
2008/09	Unlimited	None	132.0	1,949	42	0	7,905,000	0	7,905,000
2009/10	Unlimited	None	120.0	1,807	42	0	9,092,500	0	9,092,500
2010/11	Unlimited	None	108.0	1,814	58	0	10,715,000	0	10,715,000
2011/12	Unlimited	None	96.0	1,814	50	1	35,468,999	750,000	36,218,999
2012/13	Unlimited	None	84.0	1,840	54	4	34,390,000	33,150,000	67,540,000
2013/14	Unlimited	None	72.0	1,840	39	6	1,625,000	650,000	2,275,000
2014/15	Unlimited	None	60.0	1,728	41	6	3,925,000	31,135,000	35,060,000
2015/16	Unlimited	80,000,000	48.0	1,787	50	18	90,000	7,000,000	7,090,000
2016/17	Unlimited	80,000,000	36.0	1,779	20	12	0	4,900,500	4,900,500
2017/18	Unlimited	80,000,000	24.0	1,774	32	15	0	3,855,000	3,855,000
2018/19	Unlimited	80,000,000	12.0	1,638	24	1	0	50,000	50,000
Total					1,457	66	\$453,321,391	\$96,340,500	\$549,661,891

(8), (9) and (10) are gross of the specific self-insured retention and net of other recoveries.

Data was provided by the County.

Data Summary as of November 30, 2019
 Gross Unlimited Losses

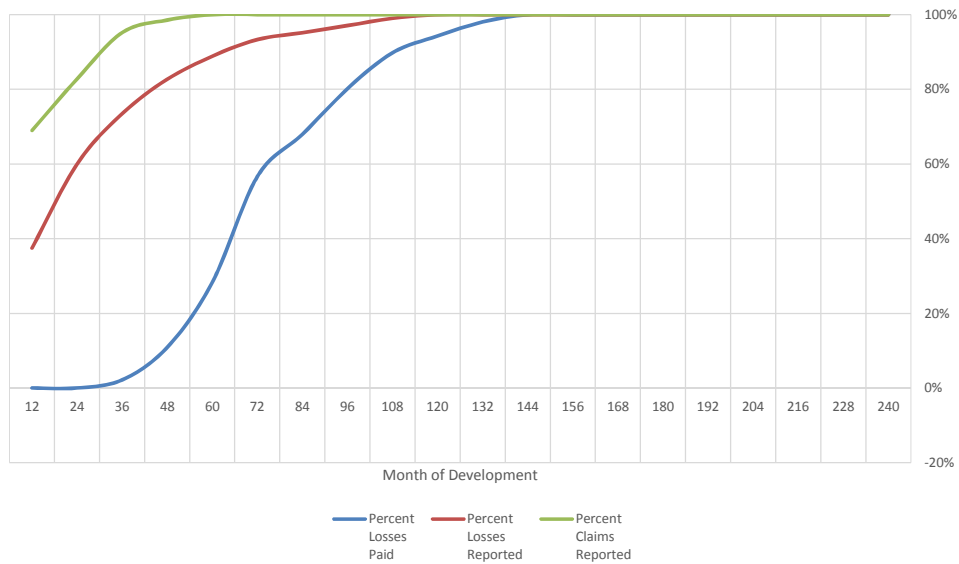
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Gross Unlimited Paid Losses 11/30/19 (8)	Gross Unlimited Case Reserves 11/30/19 (9)	Gross Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	347	0	\$249,471,357	\$0	\$249,471,357
2000/01	Unlimited	25,000,000	228.0	2,028	89	0	10,411,000	0	10,411,000
2001/02	Unlimited	50,000,000	216.0	2,090	90	0	23,647,540	0	23,647,540
2002/03	Unlimited	80,000,000	204.0	2,039	87	0	4,268,645	0	4,268,645
2003/04	Unlimited	None	192.0	2,060	129	0	8,377,500	0	8,377,500
2004/05	Unlimited	None	180.0	2,032	92	1	19,606,850	14,000,000	33,606,850
2005/06	Unlimited	None	168.0	1,961	74	1	22,575,000	750,000	23,325,000
2006/07	Unlimited	None	156.0	1,829	57	1	4,750,000	100,000	4,850,000
2007/08	Unlimited	None	144.0	1,864	40	0	7,002,000	0	7,002,000
2008/09	Unlimited	None	132.0	1,949	42	0	7,905,000	0	7,905,000
2009/10	Unlimited	None	120.0	1,807	42	0	9,092,500	0	9,092,500
2010/11	Unlimited	None	108.0	1,814	58	0	10,715,000	0	10,715,000
2011/12	Unlimited	None	96.0	1,814	50	1	35,468,999	750,000	36,218,999
2012/13	Unlimited	None	84.0	1,840	54	4	34,390,000	33,150,000	67,540,000
2013/14	Unlimited	None	72.0	1,840	39	6	1,625,000	650,000	2,275,000
2014/15	Unlimited	None	60.0	1,728	41	6	3,925,000	31,135,000	35,060,000
2015/16	Unlimited	80,000,000	48.0	1,787	50	18	90,000	7,000,000	7,090,000
2016/17	Unlimited	80,000,000	36.0	1,779	20	12	0	4,900,500	4,900,500
2017/18	Unlimited	80,000,000	24.0	1,774	32	15	0	3,855,000	3,855,000
2018/19	Unlimited	80,000,000	12.0	1,638	24	1	0	50,000	50,000
Total					1,457	66	\$453,321,391	\$96,340,500	\$549,661,891

(8), (9) and (10) are gross of the specific self-insured retention and other recoveries.

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	98.0%	100.0%	100.0%
120.0	94.3%	100.0%	100.0%
108.0	89.8%	99.0%	100.0%
96.0	80.2%	97.1%	100.0%
84.0	67.9%	95.2%	100.0%
72.0	56.6%	93.3%	100.0%
60.0	28.3%	88.9%	100.0%
48.0	10.9%	82.7%	98.5%
36.0	2.2%	73.5%	95.2%
24.0	0.0%	60.0%	82.8%
12.0	0.0%	37.5%	69.0%



(2) is from Exhibit MM-Stroger-2 (page 2).

(3) is from Exhibit MM-Stroger-2 (page 3).

(4) is from Exhibit MM-Stroger-2 (page 4).

Historical Reported Claims and Reported Claim Development

I. Historical Reported Claims

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																			413	413	413
2000/01																107	107	107	107	107	
2001/02															118	118	118	118	118	118	
2002/03															111	111	111	111	111	111	
2003/04															161	161	161	161	161	161	
2004/05												121	121	121	121	121	121	121	121	121	
2005/06											100	101	101	101	101	101	101	101	101	101	
2006/07										72	73	73	73	73	73	73	73	73	73	73	
2007/08										51	51	51	51	51	51	51	51	51	51	51	
2008/09										46	46	46	46	46	46	46	46	46	46	46	
2009/10										51	51	51	51	51	51	51	51	51	51	51	
2010/11										59	59	60	60	60	60	60	60	60	60	60	
2011/12										56	56	57	57	57	57	57	57	57	57	57	
2012/13										64	65	65	65	65	65	65	65	65	65	65	
2013/14										41	42	42	42	42	42	42	42	42	42	42	
2014/15										33	43	45	45	45	45	45	45	45	45	45	
2015/16										35	46	53	56	56	56	56	56	56	56	56	
2016/17										12	19	25	25	25	25	25	25	25	25	25	
2017/18										28	34	34	34	34	34	34	34	34	34	34	
2018/19										29	29	29	29	29	29	29	29	29	29	29	

II. Reported Claim Development

Claim Period	Months of Development:																				
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult	
to 1999/00																			1.000	1.000	
2000/01																			1.000	1.000	
2001/02																			1.000	1.000	
2002/03																			1.000	1.000	
2003/04																			1.000	1.000	
2004/05																			1.000	1.000	
2005/06																			1.000	1.000	
2006/07																			1.000	1.000	
2007/08																			1.000	1.000	
2008/09																			1.000	1.000	
2009/10																			1.000	1.000	
2010/11																			1.000	1.017	1.000
2011/12																			1.000	1.018	1.000
2012/13																			1.000	1.016	1.000
2013/14																			1.000	1.024	1.000
2014/15																			1.047	1.044	1.044
2015/16																			1.314	1.152	1.057
2016/17																			1.583	1.316	1.316
2017/18																			1.214	1.214	1.214
2018/19																			1.214	1.214	1.214
Average																					
All	1.371	1.257	1.043	1.020	1.000	1.006	1.006	1.000	1.000	1.005	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Wtd 3	1.320	1.235	1.044	1.020	1.000	1.006	1.006	1.000	1.000	1.006	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 3	1.371	1.257	1.043	1.020	1.000	1.006	1.006	1.000	1.000	1.005	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 5																					
x-hi,low																					
Previous	1.200	1.100	1.030	1.010	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
Selected	1.200	1.150	1.035	1.015	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
Cumulative	1.450	1.208	1.051	1.015	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
Percent	69.0%	82.8%	95.2%	98.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Data was provided by the County and is for Cermak, Stroger and Provident combined.

Historical Ratio of Limited Paid Losses and Limited Reported Incurred Losses

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																				100.0%	100.0%
2000/01	0.0%	0.0%	1.9%	6.2%	12.0%	20.8%	30.0%	30.0%	32.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2001/02	0.0%	0.0%	0.1%	37.8%	49.1%	51.3%	96.9%	96.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2002/03	0.0%	0.1%	21.8%	15.0%	39.4%	66.1%	85.9%	93.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2003/04	0.0%	0.0%	0.0%	22.6%	56.0%	63.7%	96.3%	97.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2004/05	0.0%	0.3%	0.5%	24.0%	78.1%	96.1%	100.0%	94.9%	94.9%	100.0%	100.0%	100.0%	66.3%	49.6%	58.5%						
2005/06	0.0%	0.0%	2.3%	2.1%	39.3%	55.1%	71.5%	73.9%	45.3%	92.2%	100.0%	99.0%	96.0%	97.0%							
2006/07	0.0%	0.1%	0.2%	0.5%	42.7%	35.7%	86.7%	100.0%	100.0%	100.0%	100.0%	97.9%	97.9%								
2007/08	0.0%	1.0%	0.7%	19.9%	46.6%	68.9%	77.1%	100.0%	100.0%	100.0%	100.0%	100.0%									
2008/09	0.0%	0.0%	25.0%	30.8%	33.0%	44.0%	62.4%	97.0%	100.0%	100.0%	100.0%										
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	100.0%	100.0%	100.0%	100.0%											
2010/11	0.0%	0.0%	0.0%	25.7%	43.6%	48.4%	54.9%	100.0%													
2011/12	0.0%	58.7%	52.2%	61.8%	67.1%	91.1%	97.3%	98.0%													
2012/13	0.0%	7.1%	2.9%	5.9%	9.1%	30.6%	50.7%														
2013/14	0.0%	0.0%	0.0%	14.8%	53.6%	75.9%															
2014/15	0.0%	0.3%	0.3%	0.4%	10.4%																
2015/16	1.7%	30.0%	40.1%	37.2%																	
2016/17	0.0%	0.0%	9.1%																		
2017/18	0.0%	0.0%																			
2018/19	0.0%																				
Average																					
All	0.1%	5.4%	9.3%	19.9%	42.4%	59.4%	77.7%	90.1%	88.4%	99.2%	99.8%	99.6%	94.3%	91.1%	91.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 3		10.0%	16.5%	17.5%	24.4%	65.9%	67.6%	99.3%	100.0%	100.0%	99.3%	99.0%	86.8%	82.2%	86.2%	100.0%	100.0%				
Last 5	0.0%	0.1%	4.1%	19.3%	35.9%	69.5%	71.5%	99.3%	100.0%	100.0%	100.0%	99.7%	98.0%	99.0%	100.0%						
x-hi,low																					
Implicit	0.0%	0.0%	3.0%	13.2%	31.9%	60.7%	71.4%	82.6%	90.7%	94.3%	98.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Prior	0.0%	0.0%	3.0%	13.2%	31.9%	60.7%	71.4%	82.6%	90.7%	94.3%	98.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Paid Losses 11/30/19 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1999/00	240.0	\$249,471,357	100.0%	\$249,471,357
2000/01	228.0	10,411,000	100.0%	10,411,000
2001/02	216.0	23,647,540	100.0%	23,647,540
2002/03	204.0	4,268,645	100.0%	4,268,645
2003/04	192.0	8,377,500	100.0%	8,377,500
2004/05	180.0	19,606,850	100.0%	19,606,850
2005/06	168.0	22,575,000	100.0%	22,575,000
2006/07	156.0	4,750,000	100.0%	4,750,000
2007/08	144.0	7,002,000	100.0%	7,002,000
2008/09	132.0	7,905,000	98.0%	8,063,100
2009/10	120.0	9,092,500	94.3%	9,645,324
2010/11	108.0	10,715,000	89.8%	11,934,796
2011/12	96.0	35,468,999	80.2%	44,247,605
2012/13	84.0	34,390,000	67.9%	50,623,832
2013/14	72.0	1,625,000	56.6%	2,870,499
2014/15	60.0	3,925,000	28.3%	13,866,720
2015/16	48.0	90,000	10.9%	826,704
2016/17	36.0	0	2.2%	0
2017/18	24.0	0	0.0%	0
2018/19	12.0	0	0.0%	0
Total		\$453,321,391		\$492,188,472

(3) is from Exhibit MM-Stroger-1.

(4) is from Exhibit MM-Stroger-2.

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1999/00	240.0	\$249,471,357	100.0%	\$249,471,357
2000/01	228.0	10,411,000	100.0%	10,411,000
2001/02	216.0	23,647,540	100.0%	23,647,540
2002/03	204.0	4,268,645	100.0%	4,268,645
2003/04	192.0	8,377,500	100.0%	8,377,500
2004/05	180.0	33,606,850	100.0%	33,606,850
2005/06	168.0	23,325,000	100.0%	23,325,000
2006/07	156.0	4,850,000	100.0%	4,850,000
2007/08	144.0	7,002,000	100.0%	7,002,000
2008/09	132.0	7,905,000	100.0%	7,905,000
2009/10	120.0	9,092,500	100.0%	9,092,500
2010/11	108.0	10,715,000	99.0%	10,822,150
2011/12	96.0	36,218,999	97.1%	37,312,813
2012/13	84.0	67,540,000	95.2%	69,447,182 *
2013/14	72.0	2,275,000	93.3%	2,438,391
2014/15	60.0	35,060,000	88.9%	39,456,913
2015/16	48.0	7,090,000	82.7%	8,577,602
2016/17	36.0	4,900,500	73.5%	6,669,796
2017/18	24.0	3,855,000	60.0%	6,427,360
2018/19	12.0	50,000	37.5%	133,382
Total		\$549,661,891		\$563,242,982

* - Indicates large claim(s) limited to retention. For details, see Exhibit MM-Stroger-15.

(3) is from Exhibit MM-Stroger-1.

(4) is from Exhibit MM-Stroger-2.

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/19 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/19 (6)	Limited Case Reserves 11/30/19 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1999/00	240.0	100.0%	100.0%	100.0%	\$249,471,357	\$0	\$249,471,357
2000/01	228.0	100.0%	100.0%	100.0%	10,411,000	0	10,411,000
2001/02	216.0	100.0%	100.0%	100.0%	23,647,540	0	23,647,540
2002/03	204.0	100.0%	100.0%	100.0%	4,268,645	0	4,268,645
2003/04	192.0	100.0%	100.0%	100.0%	8,377,500	0	8,377,500
2004/05	180.0	100.0%	100.0%	100.0%	19,606,850	14,000,000	33,606,850
2005/06	168.0	100.0%	100.0%	100.0%	22,575,000	750,000	23,325,000
2006/07	156.0	100.0%	100.0%	100.0%	4,750,000	100,000	4,850,000
2007/08	144.0	100.0%	100.0%	100.0%	7,002,000	0	7,002,000
2008/09	132.0	98.0%	100.0%	100.0%	7,905,000	0	7,905,000
2009/10	120.0	94.3%	100.0%	100.0%	9,092,500	0	9,092,500
2010/11	108.0	89.8%	99.0%	90.3%	10,715,000	0	10,715,000
2011/12	96.0	80.2%	97.1%	85.2%	35,468,999	750,000	36,349,030
2012/13	84.0	67.9%	95.2%	84.9%	34,390,000	33,150,000	68,099,235 *
2013/14	72.0	56.6%	93.3%	84.6%	1,625,000	650,000	2,393,714
2014/15	60.0	28.3%	88.9%	84.5%	3,925,000	31,135,000	40,789,946
2015/16	48.0	10.9%	82.7%	80.5%	90,000	7,000,000	8,781,503
2016/17	36.0	2.2%	73.5%	72.9%	0	4,900,500	6,723,829
2017/18	24.0	0.0%	60.0%	60.0%	0	3,855,000	6,428,139
2018/19	12.0	0.0%	37.5%	37.5%	0	50,000	133,402
Total					\$453,321,391	\$96,340,500	\$562,371,192

* - Indicates large claim(s) limited to retention. For details, see Exhibit MM-Stroger-15.

(3) and (4) are from Exhibit MM-Stroger-2.

(6) and (7) are from Exhibit MM-Stroger-1.

Preliminary Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	Preliminary Projected Ultimate Limited Losses (5)
to 1999/00	\$249,471,357	\$249,471,357	\$249,471,357	\$249,471,357
2000/01	10,411,000	10,411,000	10,411,000	10,411,000
2001/02	23,647,540	23,647,540	23,647,540	23,647,540
2002/03	4,268,645	4,268,645	4,268,645	4,268,645
2003/04	8,377,500	8,377,500	8,377,500	8,377,500
2004/05	19,606,850	33,606,850	33,606,850	35,006,850
2005/06	22,575,000	23,325,000	23,325,000	23,400,000
2006/07	4,750,000	4,850,000	4,850,000	4,860,000
2007/08	7,002,000	7,002,000	7,002,000	7,002,000
2008/09	8,063,100	7,905,000	7,905,000	7,905,000
2009/10	9,645,324	9,092,500	9,092,500	9,092,500
2010/11	11,934,796	10,822,150	10,715,000	10,715,000
2011/12	44,247,605	37,312,813	36,349,030	36,445,408
2012/13	50,623,832	69,447,182	68,099,235	70,855,000
2013/14	2,870,499	2,438,391	2,393,714	2,407,117
2014/15	13,866,720	39,456,913	40,789,946	40,256,733
2015/16	826,704	8,577,602	8,781,503	8,679,552
2016/17	0	6,669,796	6,723,829	6,696,813
2017/18	0	6,427,360	6,428,139	6,427,750
2018/19	0	133,382	133,402	133,392
Total	\$492,188,472	\$563,242,982	\$562,371,192	\$566,059,158

(2) is from Exhibit MM-Stroger-3.

(3) is from Exhibit MM-Stroger-4.

(4) is from Exhibit MM-Stroger-5.

(5) is based on (2) to (4) and actuarial judgment.

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)	Projected A-priori Loss Rate per Occupied Bed Equivalent (7)/(5) (8)
2009/10	\$9,092,500	1,807	\$5,032.95	1.088	\$5,476.10	\$8,587.02
2010/11	10,715,000	1,814	5,907.15	1.389	8,202.65	6,728.46
2011/12	36,445,408	1,814	20,092.25	1.335	26,826.95	6,997.60
2012/13	70,855,000	1,840	38,510.45	1.298	49,994.32	7,196.97
2013/14	2,407,117	1,840	1,308.29	1.253	1,639.02	7,457.84
2014/15	40,256,733	1,728	23,301.43	1.210	28,186.72	7,723.78
2015/16	8,679,552	1,787	4,857.10	1.170	5,682.12	7,986.54
2016/17	6,696,813	1,779	3,764.42	1.125	4,234.46	8,306.00
2017/18	6,427,750	1,774	3,623.09	1.082	3,918.74	8,638.24
2018/19	133,392	1,638	81.43	1.040	84.69	8,983.77

(7) Projected 2019/20 a-priori loss rate per Occupied Bed Equivalent \$9,343.12

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Percent Losses Paid (3)	Projected A-priori Loss Rate per Occupied Bed Equivalent (4)	Occupied Bed Equivalents (5)	B-F Unpaid Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Paid Losses (2)+(6) (7)
2014/15	\$3,925,000	28.3%	\$7,723.78	1,728	\$9,566,954	\$13,491,954
2015/16	90,000	10.9%	7,986.54	1,787	12,718,079	12,808,079
2016/17	0	2.2%	8,306.00	1,779	14,454,455	14,454,455
2017/18	0	0.0%	8,638.24	1,774	15,322,375	15,322,375
2018/19	0	0.0%	8,983.77	1,638	14,715,221	14,715,221

III. Bornhuetter - Ferguson Analysis Based on Limited Reported Incurred Losses

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Percent Losses Reported (3)	Projected A-priori Loss Rate per Occupied Bed Equivalent (4)	Occupied Bed Equivalents (5)	B-F Unreported Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Reported Losses (2)+(6) (7)
2014/15	\$35,060,000	88.9%	\$7,723.78	1,728	\$1,486,999	\$36,546,999
2015/16	7,090,000	82.7%	7,986.54	1,787	2,475,138	9,565,138
2016/17	4,900,500	73.5%	8,306.00	1,779	3,919,676	8,820,176
2017/18	3,855,000	60.0%	8,638.24	1,774	6,133,439	9,988,439
2018/19	50,000	37.5%	8,983.77	1,638	9,199,874	9,249,874

Section I, (2) is from Exhibit MM-Stroger-6.

Section I, (3), Section II, (5) and Section III, (5) are from Exhibit MM-Stroger-10.

Section I, (5) is based on a 4% trend and adjusted for change in retention.

Section I, (7) is based on Section I, (6) and actuarial judgment.

Sections II and III, (2) are from Exhibit MM-Stroger-1.

Sections II and III, (3) are from Exhibit MM-Stroger-2.

Sections II and III, (4) are from Section I, (8).



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - JOHN H. STROGER, JR. HOSPITAL

Exhibit MM-Stroger-8

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/19 (2)	Reported Claims 11/30/19 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2009/10	120.0	42	100.0%	42	1,807	0.02
2010/11	108.0	58	100.0%	58	1,814	0.03
2011/12	96.0	50	100.0%	50	1,814	0.03
2012/13	84.0	54	100.0%	54	1,840	0.03
2013/14	72.0	39	100.0%	39	1,840	0.02
2014/15	60.0	41	100.0%	41	1,728	0.02
2015/16	48.0	50	98.5%	51	1,787	0.03
2016/17	36.0	20	95.2%	21	1,779	0.01
2017/18	24.0	32	82.8%	39	1,774	0.02
2018/19	12.0	24	69.0%	35	1,638	0.02

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2019/20 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2019/20 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2009/10	\$9,092,500	42	\$216,488	1.088	\$235,550	\$352,014	\$14,784,597
2010/11	10,715,000	58	184,741	1.389	256,531	275,825	15,997,840
2011/12	36,445,408	50	728,908	1.335	973,230	286,858	14,342,891
2012/13	70,855,000	54	1,312,130	1.298	1,703,408	295,031	15,931,669
2013/14	2,407,117	39	61,721	1.253	77,323	305,725	11,923,273
2014/15	40,256,733	41	981,872	1.210	1,187,727	316,627	12,981,696
2015/16	8,679,552	51	170,187	1.170	199,095	327,398	16,697,305
2016/17	6,696,813	21	318,896	1.125	358,714	340,494	7,150,375
2017/18	6,427,750	39	164,814	1.082	178,263	354,114	13,810,439
2018/19	133,392	35	3,811	1.040	3,964	368,278	12,889,743

(7) Projected 2019/20 average claim severity \$383,010

Section I, (3) is from Exhibit MM-Stroger-1.

Section I, (4) is from Exhibit MM-Stroger-2.

Section I, (6) is from Exhibit MM-Stroger-10.

Section II, (2) is from Exhibit MM-Stroger-6.

Section II, (3) is from Section I, (5).

Section II, (5) is based on a 4% trend and adjusted for change in retention.

Section II, (7) is based on (6) and actuarial judgment.

Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	B-F Ultimate Limited Paid Losses (5)	B-F Ultimate Limited Reported Losses (6)	Frequency Times Severity (7)	Prior Projected Ultimate Limited Losses (8)	Projected Ultimate Limited Losses (9)
to 1999/00	\$249,471,357	\$249,471,357	\$249,471,357				\$249,471,357	\$249,471,357
2000/01	10,411,000	10,411,000	10,411,000				10,411,000	10,411,000
2001/02	23,647,540	23,647,540	23,647,540				23,647,540	23,647,540
2002/03	4,268,645	4,268,645	4,268,645				4,268,500	4,268,645
2003/04	8,377,500	8,377,500	8,377,500				8,377,500	8,377,500
2004/05	19,606,850	33,606,850	33,606,850				41,610,000	33,606,850
2005/06	22,575,000	23,325,000	23,325,000				23,680,000	23,400,000
2006/07	4,750,000	4,850,000	4,850,000				4,860,000	4,860,000
2007/08	7,002,000	7,002,000	7,002,000				7,002,000	7,002,000
2008/09	8,063,100	7,905,000	7,905,000				7,905,000	7,905,000
2009/10	9,645,324	9,092,500	9,092,500				9,092,500	9,092,500
2010/11	11,934,796	10,822,150	10,715,000				10,715,000	10,715,000
2011/12	44,247,605	37,312,813	36,349,030				37,040,000	36,445,000
2012/13	50,623,832	69,447,182	68,099,235				65,000,000	68,000,000
2013/14	2,870,499	2,438,391	2,393,714				7,500,000	7,000,000
2014/15	13,866,720	39,456,913	40,789,946	13,491,954	36,546,999	12,981,696	15,000,000	37,000,000
2015/16	826,704	8,577,602	8,781,503	12,808,079	9,565,138	16,697,305	10,000,000	10,000,000
2016/17	0	6,669,796	6,723,829	14,454,455	8,820,176	7,150,375	11,500,000	11,000,000
2017/18	0	6,427,360	6,428,139	15,322,375	9,988,439	13,810,439	12,500,000	12,000,000
2018/19	0	133,382	133,402	14,715,221	9,249,874	12,889,743	16,840,000	12,500,000
Total	\$492,188,472	\$563,242,982	\$562,371,192				\$576,420,397	\$586,702,392
2014/15 - 2018/19	14,693,424	61,265,053	62,856,820	70,792,085	74,170,626	63,529,558	65,840,000	82,500,000
to 2013/14	477,495,048	501,977,928	499,514,372				510,580,397	504,202,392
						Change		
						All years		\$10,281,995
						2014/15 - 2018/19		16,660,000
						to 2013/14		-6,378,005

(2) is from Exhibit MM-Stroger-3.

(3) is from Exhibit MM-Stroger-4.

(4) is from Exhibit MM-Stroger-5.

(5) and (6) are from Exhibit MM-Stroger-7.

(7) is from Exhibit MM-Stroger-8.

(8) is based on (2) to (7) and actuarial judgment.

Projected Ultimate Limited Losses for 2019/20 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2009/10	\$9,092,500	1,807	\$5,032.95	1.088	\$5,476.10
2010/11	10,715,000	1,814	5,907.15	1.389	8,202.65
2011/12	36,445,000	1,814	20,092.02	1.335	26,826.65
2012/13	68,000,000	1,840	36,958.73	1.298	47,979.87
2013/14	7,000,000	1,840	3,804.58	1.253	4,766.34
2014/15	37,000,000	1,728	21,416.37	1.210	25,906.44
2015/16	10,000,000	1,787	5,596.03	1.170	6,546.56
2016/17	11,000,000	1,779	6,183.33	1.125	6,955.41
2017/18	12,000,000	1,774	6,763.97	1.082	7,315.91
2018/19	12,500,000	1,638	7,630.67	1.040	7,935.89
Total	\$213,752,500	17,820	\$11,995.07		\$14,791.18

Claim Period (1)	Projected Limited Loss Rate per Occupied Bed Equivalent (7)	Projected Occupied Bed Equivalents (8)	Projected Ultimate Limited Losses (7)X(8) (9)	Present Value Factor (10)	Present Value of Projected Limited Loss Rate per Occupied Bed Equivalent (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11) (12)
2019/20	\$10,539.05	1,638	\$17,264,000	0.91	\$9,547.55	\$15,640,000
2020/21	10,960.61	1,638	17,955,000	0.91	9,929.45	16,266,000
2021/22	11,399.03	1,638	18,673,000	0.91	10,326.63	16,916,000

(2) is from Exhibit MM-Stroger-9.

(3) was provided by the County.

(5) is based on a 4% trend and adjusted for change in retention.

(7) 2019/20 is based on (6) and actuarial judgment.
 Other period(s) based on 2019/20 plus a 4% trend.

(8) to 2019/20 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Stroger-2.

Estimated Outstanding Losses as of November 30, 2019

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Limited Case Reserves 11/30/19 (3)	Limited Reported Incurred Losses 11/30/19 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/19 (5)-(4) (6)	Estimated Outstanding Losses 11/30/19 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/19 (7)X(8) (9)
to 1999/00	\$249,471,357	\$0	\$249,471,357	\$249,471,357	\$0	\$0	1.00	\$0
2000/01	10,411,000	0	10,411,000	10,411,000	0	0	1.00	0
2001/02	23,647,540	0	23,647,540	23,647,540	0	0	1.00	0
2002/03	4,268,645	0	4,268,645	4,268,645	0	0	1.00	0
2003/04	8,377,500	0	8,377,500	8,377,500	0	0	1.00	0
2004/05	19,606,850	14,000,000	33,606,850	33,606,850	0	14,000,000	1.00	14,000,000
2005/06	22,575,000	750,000	23,325,000	23,400,000	75,000	825,000	1.00	825,000
2006/07	4,750,000	100,000	4,850,000	4,860,000	10,000	110,000	1.00	110,000
2007/08	7,002,000	0	7,002,000	7,002,000	0	0	1.00	0
2008/09	7,905,000	0	7,905,000	7,905,000	0	0	0.99	0
2009/10	9,092,500	0	9,092,500	9,092,500	0	0	0.99	0
2010/11	10,715,000	0	10,715,000	10,715,000	0	0	0.98	0
2011/12	35,468,999	750,000	36,218,999	36,445,000	226,001	976,001	0.98	954,504
2012/13	34,390,000	33,150,000	67,540,000	68,000,000	460,000	33,610,000	0.97	32,727,841
2013/14	1,625,000	650,000	2,275,000	7,000,000	4,725,000	5,375,000	0.97	5,198,288
2014/15	3,925,000	31,135,000	35,060,000	37,000,000	1,940,000	33,075,000	0.97	32,006,307
2015/16	90,000	7,000,000	7,090,000	10,000,000	2,910,000	9,910,000	0.96	9,514,729
2016/17	0	4,900,500	4,900,500	11,000,000	6,099,500	11,000,000	0.95	10,440,082
2017/18	0	3,855,000	3,855,000	12,000,000	8,145,000	12,000,000	0.94	11,223,747
2018/19	0	50,000	50,000	12,500,000	12,450,000	12,500,000	0.92	11,506,235
Total	\$453,321,391	\$96,340,500	\$549,661,891	\$586,702,392	\$37,040,501	\$133,381,001		\$128,506,733

(2), (3) and (4) are net of specific self-insured retention and aggregate retention.

(5) is from Exhibit MM-Stroger-9.

(8) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Stroger-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - JOHN H. STROGER, JR. HOSPITAL

Exhibit MM-Stroger-12

Projected Losses Paid December 1, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1999/00	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	180.0	100.0%	192.0	100.0%	100.0%	14,000,000	14,000,000	0	1.00	0
2005/06	168.0	100.0%	180.0	100.0%	100.0%	825,000	825,000	0	1.00	0
2006/07	156.0	100.0%	168.0	100.0%	100.0%	110,000	110,000	0	1.00	0
2007/08	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2010/11	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2011/12	96.0	80.2%	108.0	89.8%	48.5%	976,001	473,211	502,790	0.98	492,866
2012/13	84.0	67.9%	96.0	80.2%	38.1%	33,610,000	12,815,990	20,794,010	0.98	20,336,012
2013/14	72.0	56.6%	84.0	67.9%	26.1%	5,375,000	1,402,550	3,972,450	0.97	3,868,185
2014/15	60.0	28.3%	72.0	56.6%	39.5%	33,075,000	13,058,040	20,016,960	0.97	19,358,871
2015/16	48.0	10.9%	60.0	28.3%	19.5%	9,910,000	1,937,061	7,972,939	0.97	7,715,324
2016/17	36.0	2.2%	48.0	10.9%	8.9%	11,000,000	979,345	10,020,655	0.96	9,620,970
2017/18	24.0	0.0%	36.0	2.2%	2.2%	12,000,000	259,148	11,740,852	0.95	11,143,223
2018/19	12.0	0.0%	24.0	0.0%	0.0%	12,500,000	1,134	12,498,866	0.94	11,690,342
2019/20	0.0	0.0%	12.0	0.0%	0.0%	17,264,000	1,566	17,262,434	0.92	15,890,050
Total						\$150,645,001	\$45,863,045	\$104,781,956		\$100,115,843

For 2004/05, only open claim assumed to be paid in 2019/20 based on information provided by County.

(3) and (5) are from Exhibit MM-Stroger-2.

(7) to 2018/19 is from Exhibit MM-Stroger-11. The amount for 2019/20 is from Exhibit MM-Stroger-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Stroger-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - JOHN H. STROGER, JR. HOSPITAL

Exhibit MM-Stroger-13

Projected Losses Paid December 1, 2020 to November 30, 2021

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Months of Development 11/30/21 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/20 to 11/30/21 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/20 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/21 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/21 (9)X(10) (11)
to 1999/00	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2011/12	108.0	89.8%	120.0	94.3%	43.9%	502,790	220,832	281,958	0.99	278,199
2012/13	96.0	80.2%	108.0	89.8%	48.5%	20,794,010	10,081,912	10,712,098	0.98	10,500,675
2013/14	84.0	67.9%	96.0	80.2%	38.1%	3,972,450	1,514,754	2,457,696	0.98	2,403,564
2014/15	72.0	56.6%	84.0	67.9%	26.1%	20,016,960	5,223,216	14,793,744	0.97	14,405,454
2015/16	60.0	28.3%	72.0	56.6%	39.5%	7,972,939	3,147,724	4,825,215	0.97	4,666,578
2016/17	48.0	10.9%	60.0	28.3%	19.5%	10,020,655	1,958,690	8,061,965	0.97	7,801,473
2017/18	36.0	2.2%	48.0	10.9%	8.9%	11,740,852	1,045,304	10,695,548	0.96	10,268,944
2018/19	24.0	0.0%	36.0	2.2%	2.2%	12,498,866	269,922	12,228,944	0.95	11,606,471
2019/20	12.0	0.0%	24.0	0.0%	0.0%	17,262,434	1,566	17,260,868	0.94	16,144,301
2020/21	0.0	0.0%	12.0	0.0%	0.0%	17,955,000	1,629	17,953,371	0.92	16,526,057
Total						\$122,736,956	\$23,465,549	\$99,271,407		\$94,601,716

(3) and (5) are from Exhibit MM-Stroger-2.

(7) to 2019/20 is from Exhibit MM-Stroger-12, (9). The amount for 2020/21 is from Exhibit MM-Stroger-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Stroger-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - JOHN H. STROGER, JR. HOSPITAL

Exhibit MM-Stroger-14

Projected Losses Paid December 1, 2021 to November 30, 2022

Claim Period (1)	Months of Development 11/30/21 (2)	Percent Losses Paid (3)	Months of Development 11/30/22 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/21 to 11/30/22 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/21 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/22 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/22 (9)X(10) (11)
to 1999/00	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	120.0	94.3%	132.0	98.0%	65.8%	281,958	185,499	96,459	0.99	95,692
2012/13	108.0	89.8%	120.0	94.3%	43.9%	10,712,098	4,704,892	6,007,206	0.99	5,927,120
2013/14	96.0	80.2%	108.0	89.8%	48.5%	2,457,696	1,191,606	1,266,090	0.98	1,241,101
2014/15	84.0	67.9%	96.0	80.2%	38.1%	14,793,744	5,641,073	9,152,671	0.98	8,951,079
2015/16	72.0	56.6%	84.0	67.9%	26.1%	4,825,215	1,259,089	3,566,126	0.97	3,472,526
2016/17	60.0	28.3%	72.0	56.6%	39.5%	8,061,965	3,182,871	4,879,094	0.97	4,718,686
2017/18	48.0	10.9%	60.0	28.3%	19.5%	10,695,548	2,090,608	8,604,940	0.97	8,326,904
2018/19	36.0	2.2%	48.0	10.9%	8.9%	12,228,944	1,088,760	11,140,184	0.96	10,695,845
2019/20	24.0	0.0%	36.0	2.2%	2.2%	17,260,868	372,760	16,888,108	0.95	16,028,476
2020/21	12.0	0.0%	24.0	0.0%	0.0%	17,953,371	1,629	17,951,742	0.94	16,790,484
2021/22	0.0	0.0%	12.0	0.0%	0.0%	18,673,000	1,694	18,671,306	0.92	17,186,915
Total						\$117,944,407	\$19,720,481	\$98,223,926		\$93,434,828

(3) and (5) are from Exhibit MM-Stroger-2.

(7) to 2020/21 is from Exhibit MM-Stroger-13, (9). The amount for 2021/22 is from Exhibit MM-Stroger-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Stroger-2.

List of Large Claims
 Reported Incurred Losses Greater Than \$1,000,000

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/19 (5)	Unlimited Case Reserves 11/30/19 (6)	Unlimited Reported Incurred Losses 11/30/19 (7)
94000155	08/23/72	to 1999/00	Unlimited	\$2,514,239	\$0	\$2,514,239
97009089	05/09/76	to 1999/00	Unlimited	5,000,000	0	5,000,000
94000244	08/04/79	to 1999/00	Unlimited	3,000,000	0	3,000,000
94000027	02/18/84	to 1999/00	Unlimited	3,000,000	0	3,000,000
94000325	10/31/85	to 1999/00	Unlimited	9,750,000	0	9,750,000
94000164	08/17/86	to 1999/00	Unlimited	6,750,000	0	6,750,000
94000082	09/10/86	to 1999/00	Unlimited	1,656,477	0	1,656,477
94000312	01/27/87	to 1999/00	Unlimited	1,000,000	0	1,000,000
94000192	03/06/88	to 1999/00	Unlimited	5,250,000	0	5,250,000
97005676	01/21/90	to 1999/00	Unlimited	6,500,000	0	6,500,000
94000032	01/31/90	to 1999/00	Unlimited	1,450,000	0	1,450,000
94000221	04/12/90	to 1999/00	Unlimited	3,000,000	0	3,000,000
94000123	09/05/90	to 1999/00	Unlimited	1,750,000	0	1,750,000
94000045	12/27/90	to 1999/00	Unlimited	1,875,000	0	1,875,000
94000081	05/05/91	to 1999/00	Unlimited	3,600,000	0	3,600,000
97001530	01/01/93	to 1999/00	Unlimited	6,000,000	0	6,000,000
94000196	05/19/93	to 1999/00	Unlimited	7,400,000	0	7,400,000
94000168	05/25/93	to 1999/00	Unlimited	1,500,000	0	1,500,000
94000200	06/19/93	to 1999/00	Unlimited	3,600,000	0	3,600,000
94000215	06/23/93	to 1999/00	Unlimited	1,850,000	0	1,850,000
94000166	06/30/93	to 1999/00	Unlimited	1,500,000	0	1,500,000
94000047	07/18/93	to 1999/00	Unlimited	15,000,000	0	15,000,000
94000203	08/21/93	to 1999/00	Unlimited	2,000,000	0	2,000,000
94000217	09/15/93	to 1999/00	Unlimited	2,000,000	0	2,000,000
94000197	09/24/93	to 1999/00	Unlimited	5,000,000	0	5,000,000
94000216	10/16/93	to 1999/00	Unlimited	2,500,000	0	2,500,000
94000210	12/28/93	to 1999/00	Unlimited	1,500,000	0	1,500,000
94000193	02/09/94	to 1999/00	Unlimited	2,000,000	0	2,000,000
94000252	06/22/94	to 1999/00	Unlimited	2,000,000	0	2,000,000
94000275	10/08/94	to 1999/00	Unlimited	1,000,000	0	1,000,000
94000278	01/26/95	to 1999/00	Unlimited	2,800,000	0	2,800,000
94000306	07/19/95	to 1999/00	Unlimited	3,000,000	0	3,000,000
94000333	07/27/95	to 1999/00	Unlimited	3,000,000	0	3,000,000
94000290	08/03/95	to 1999/00	Unlimited	1,350,000	0	1,350,000
94000291	08/16/95	to 1999/00	Unlimited	3,500,000	0	3,500,000
97003948	01/01/96	to 1999/00	Unlimited	5,200,000	0	5,200,000
94000311	01/16/96	to 1999/00	Unlimited	1,000,000	0	1,000,000
94000319	03/05/96	to 1999/00	Unlimited	2,430,979	0	2,430,979
97001646	06/26/96	to 1999/00	Unlimited	1,750,000	0	1,750,000
97004522	11/25/96	to 1999/00	Unlimited	1,500,000	0	1,500,000
97002438	10/21/97	to 1999/00	Unlimited	6,750,000	0	6,750,000
97002235	11/23/97	to 1999/00	Unlimited	1,100,000	0	1,100,000
97002578	12/12/97	to 1999/00	Unlimited	3,500,000	0	3,500,000
97002232	04/09/98	to 1999/00	Unlimited	19,250,000	0	19,250,000
97004204	08/28/98	to 1999/00	Unlimited	1,500,000	0	1,500,000
97002721	10/18/98	to 1999/00	Unlimited	1,500,000	0	1,500,000
97009808	05/04/99	to 1999/00	Unlimited	5,500,000	0	5,500,000
97002733	05/05/99	to 1999/00	Unlimited	2,000,000	0	2,000,000
97003168	10/19/99	to 1999/00	Unlimited	3,000,000	0	3,000,000
97003099	12/08/99	to 1999/00	Unlimited	4,000,000	0	4,000,000
97003142	01/03/00	to 1999/00	Unlimited	12,000,000	0	12,000,000
97003171	01/05/00	to 1999/00	Unlimited	1,250,000	0	1,250,000
97003311	05/31/00	to 1999/00	Unlimited	10,000,000	0	10,000,000
97003790	10/17/00	to 1999/00	Unlimited	1,250,000	0	1,250,000
97003837	11/22/00	to 1999/00	Unlimited	2,100,000	0	2,100,000
97003451	03/06/01	2000/01	10,000,000	7,000,000	0	7,000,000
97003672	07/20/01	2000/01	10,000,000	1,100,000	0	1,100,000
97004134	09/09/02	2001/02	15,000,000	12,000,000	0	12,000,000
97004269	09/20/02	2001/02	15,000,000	9,000,000	0	9,000,000
97004515	11/29/02	2001/02	15,000,000	1,350,000	0	1,350,000
97004537	04/21/03	2002/03	20,000,000	1,200,000	0	1,200,000
97005041	07/21/03	2002/03	20,000,000	1,500,000	0	1,500,000
97004808	12/19/03	2003/04	20,000,000	3,750,000	0	3,750,000
97005973	01/05/04	2003/04	20,000,000	1,450,000	0	1,450,000
97005705	03/04/05	2004/05	20,000,000	4,500,000	0	4,500,000
97005615	04/22/05	2004/05	20,000,000	1,000,000	0	1,000,000
97006373	05/13/05	2004/05	20,000,000	2,000,000	0	2,000,000
97005709	08/02/05	2004/05	20,000,000	0	14,000,000	14,000,000
97005712	08/12/05	2004/05	20,000,000	9,800,000	0	9,800,000
97009247	08/08/06	2005/06	20,000,000	12,000,000	0	12,000,000
97006800	09/15/06	2005/06	20,000,000	6,250,000	0	6,250,000
97006263	09/23/06	2005/06	20,000,000	1,200,000	0	1,200,000
97006482	10/21/06	2005/06	20,000,000	1,250,000	0	1,250,000
97007988	03/01/07	2006/07	20,000,000	1,750,000	0	1,750,000
97008116	10/03/07	2006/07	20,000,000	1,000,000	0	1,000,000
97007247	10/19/07	2006/07	20,000,000	1,700,000	0	1,700,000
97007071	01/18/08	2007/08	20,000,000	2,400,000	0	2,400,000



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - JOHN H. STROGER, JR. HOSPITAL

Exhibit MM-Stroger-15

List of Large Claims
 Reported Incurred Losses Greater Than \$1,000,000

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/19 (5)	Unlimited Case Reserves 11/30/19 (6)	Unlimited Reported Incurred Losses 11/30/19 (7)
97007276	05/30/08	2007/08	20,000,000	2,050,000	0	2,050,000
97007510	10/11/08	2007/08	20,000,000	2,500,000	0	2,500,000
97008908	01/10/09	2008/09	20,000,000	3,000,000	0	3,000,000
97008090	04/06/09	2008/09	20,000,000	2,250,000	0	2,250,000
97008088	06/21/09	2008/09	20,000,000	1,250,000	0	1,250,000
97009127	06/16/10	2009/10	40,000,000	1,337,500	0	1,337,500
97009609	06/21/10	2009/10	40,000,000	2,250,000	0	2,250,000
97008821	09/01/10	2009/10	40,000,000	1,700,000	0	1,700,000
97008751	10/05/10	2009/10	40,000,000	3,000,000	0	3,000,000
97009478	12/19/10	2010/11	40,000,000	2,400,000	0	2,400,000
97009939	03/20/11	2010/11	40,000,000	1,400,000	0	1,400,000
97009208	09/29/11	2010/11	40,000,000	4,500,000	0	4,500,000
97009296	12/02/11	2011/12	40,000,000	20,000,000	0	20,000,000
97009816	12/24/11	2011/12	40,000,000	1,300,000	0	1,300,000
97009427	02/05/12	2011/12	40,000,000	1,500,000	0	1,500,000
97009447	02/28/12	2011/12	40,000,000	3,000,000	0	3,000,000
97009531	05/07/12	2011/12	40,000,000	3,000,000	0	3,000,000
97009669	06/25/12	2011/12	40,000,000	5,000,000	0	5,000,000
97011081	12/26/12	2012/13	40,000,000	2,000,000	0	2,000,000
97010090	03/05/13	2012/13	30,000,000	0	3,000,000	3,000,000
97011195	04/11/13	2012/13	30,000,000	3,000,000	0	3,000,000
97012020	05/09/13	2012/13	30,000,000	6,450,000	0	6,450,000
97011271	07/12/13	2012/13	30,000,000	0	30,000,000 *	30,000,000 *
97012456	09/05/13	2012/13	30,000,000	3,980,000	0	3,980,000
97012455	10/05/13	2012/13	30,000,000	5,900,000	0	5,900,000
97012538	11/15/13	2012/13	30,000,000	1,500,000	0	1,500,000
97010481	11/28/13	2012/13	30,000,000	7,000,000	0	7,000,000
201505603	01/02/15	2014/15	30,000,000	0	10,000,000	10,000,000
201507573	08/19/15	2014/15	25,000,000	0	15,000,000	15,000,000
97012405	09/14/15	2014/15	25,000,000	0	5,000,000	5,000,000
97012520	11/04/15	2014/15	25,000,000	3,000,000	0	3,000,000
97012831	01/25/16	2015/16	25,000,000	0	2,500,000	2,500,000
201605669	07/23/16	2015/16	25,000,000	0	1,000,000	1,000,000
201702225	03/28/17	2016/17	25,000,000	0	3,000,000	3,000,000
201705560	04/04/17	2016/17	25,000,000	0	1,250,000	1,250,000
201806912	04/21/18	2017/18	25,000,000	0	2,000,000	2,000,000

The claim(s) indicated by a "*" have been limited in development.

Amounts are gross of excess insurance and net of other recoveries.

(1) through (7) were provided by the County.

Size of Loss Distribution

I. Reported Claim Count

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	950	32	31	8	17	23	1,061		
0.01 - 5,000	9	0	0	1	1	0	11	11	2.8%
5,000 - 10,000	19	0	0	0	0	0	19	30	7.6%
10,000 - 25,000	12	1	0	2	0	0	15	45	11.4%
25,000 - 50,000	25	0	6	5	0	1	37	82	20.7%
50,000 - 100,000	36	1	4	1	11	0	53	135	34.1%
100,000 - 250,000	45	0	1	1	1	0	48	183	46.2%
250,000 - 500,000	43	1	5	0	1	0	50	233	58.8%
500,000 - 750,000	27	1	1	0	0	0	29	262	66.2%
750,000 - 1,000,000	25	1	1	0	0	0	27	289	73.0%
Over 1,000,000	99	4	1	2	1	0	107	396	100.0%
Total	1,290	41	50	20	32	24	1,457	396	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
0.01 - 5,000	20,085	0	0	500	5,000	0	25,585	25,585	0.0%
5,000 - 10,000	167,500	0	0	0	0	0	167,500	193,085	0.0%
10,000 - 25,000	246,200	25,000	0	50,000	0	0	321,200	514,285	0.1%
25,000 - 50,000	1,112,500	0	300,000	250,000	0	50,000	1,712,500	2,226,785	0.4%
50,000 - 100,000	3,119,349	60,000	390,000	100,000	1,100,000	0	4,769,349	6,996,134	1.3%
100,000 - 250,000	8,108,000	0	150,000	250,000	250,000	0	8,758,000	15,754,134	2.9%
250,000 - 500,000	17,253,563	325,000	2,000,000	0	500,000	0	20,078,563	35,832,697	6.5%
500,000 - 750,000	18,900,000	750,000	750,000	0	0	0	20,400,000	56,232,697	10.2%
750,000 - 1,000,000	22,135,000	900,000	1,000,000	0	0	0	24,035,000	80,267,697	14.6%
Over 1,000,000	427,644,194	33,000,000	2,500,000	4,250,000	2,000,000	0	469,394,194	549,661,891	100.0%
Total	\$498,706,391	\$35,060,000	\$7,090,000	\$4,900,500	\$3,855,000	\$50,000	\$549,661,891	\$549,661,891	

Amounts are gross of excess insurance and net of other recoveries.

Data was provided by the County.

CookCounty_MM_JohnHStrogerHosp_113019.xlsx

Calculation of Occupied Bed Equivalents

Occurrence Period (1)	Inpatients (2)	ER Visits (3)	Other Visits (4)	Other Visits (5)	Physicians (6)	Housestaff (7)	Occupied Bed Equivalents (8)
to 1999/00							
2000/01	360	136,073	481,095	269,485	381	465	2,028
2001/02	388	141,693	502,382	189,599	414	444	2,090
2002/03	345	150,271	498,328	172,516	400	457	2,039
2003/04	353	148,568	520,088	174,789	401	463	2,060
2004/05	352	141,500	511,426	173,667	397	461	2,032
2005/06	338	135,358	512,883	152,169	378	460	1,961
2006/07	317	128,643	415,673	136,033	355	450	1,829
2007/08	314	127,998	392,825	128,266	389	433	1,864
2008/09	313	155,000	432,529	143,627	389	446	1,949
2009/10	313	155,000	127,500	64,000	389	460	1,807
2010/11	313	131,000	127,500	64,000	420	455	1,814
2011/12	313	131,000	127,500	64,000	420	455	1,814
2012/13	302	137,000	175,000	64,000	433	433	1,840
2013/14	302	137,000	175,000	64,000	433	433	1,840
2014/15	281	116,583	153,407	43,077	420	420	1,728
2015/16	281	123,158	258,721	52,714	420	421	1,787
2016/17	281	122,537	252,642	50,027	420	417	1,779
2017/18	281	115,511	274,154	47,549	420	418	1,774
2018/19	245	118,368	0	46,970	420	424	1,638
2019/20	245	118,368	0	46,970	420	424	1,638

(2) through (7) were provided by the County.

The exposures in (2) through (7) are converted to occupied bed equivalents using the following exposure conversion factors, which were published in the Aon/ASHRM Hospital Professional Liability and Physician Liability Benchmark Analysis published in October 2018. The weight for Housestaff is based on actuarial judgement.

Exposure	Conversion Factor
Inpatients	1.000
ER Visits	0.200 per 100
Other Visits	0.040 per 100
Class 1 physician	1.900
Housestaff	0.800 (residents and interns)

Data Summary as of November 30, 2019
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Limited Paid Losses 11/30/19 (8)	Limited Case Reserves 11/30/19 (9)	Limited Reported Incurred Losses 11/30/19 (10)
to 1999/00	See Note	None	240.0	Not Provided	11	0	\$3,980,000	\$0	\$3,980,000
2000/01	10,000,000	25,000,000	228.0	276	3	0	0	0	0
2001/02	15,000,000	50,000,000	216.0	271	2	0	100,000	0	100,000
2002/03	20,000,000	80,000,000	204.0	282	3	0	1,050,000	0	1,050,000
2003/04	20,000,000	None	192.0	315	6	0	20,375,000	0	20,375,000
2004/05	20,000,000	None	180.0	321	7	0	1,900,000	0	1,900,000
2005/06	20,000,000	None	168.0	312	11	0	620,000	0	620,000
2006/07	20,000,000	None	156.0	283	5	0	0	0	0
2007/08	20,000,000	None	144.0	234	4	0	0	0	0
2008/09	20,000,000	None	132.0	281	2	0	175,000	0	175,000
2009/10	40,000,000	None	120.0	193	2	0	0	0	0
2010/11	40,000,000	None	108.0	203	1	0	0	0	0
2011/12	40,000,000	None	96.0	144	1	0	0	0	0
2012/13	30,000,000	None	84.0	43	0	0	0	0	0
2013/14	30,000,000	None	72.0	43	0	0	0	0	0
2014/15	25,000,000	None	60.0	19	0	0	0	0	0
2015/16	25,000,000	80,000,000	48.0	4	0	0	0	0	0
2016/17	25,000,000	80,000,000	36.0	17	0	0	0	0	0
2017/18	25,000,000	80,000,000	24.0	18	0	0	0	0	0
2018/19	25,000,000	80,000,000	12.0	19	0	0	0	0	0
Total					58		\$28,200,000	\$0	\$28,200,000

* The specific self-insured retention changes are as follows:

Effective Date	Retention
12/01/70	Unlimited
12/01/00	10,000,000
12/01/01	15,000,000
12/01/02	20,000,000
03/01/10	40,000,000
03/01/13	30,000,000
07/01/15	25,000,000

(8), (9) and (10) are net of the specific self-insured retention and other recoveries.

Data was provided by the County.

Data Summary as of November 30, 2019
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Net Unlimited Paid Losses 11/30/19 (8)	Net Unlimited Case Reserves 11/30/19 (9)	Net Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	11	0	\$3,980,000	\$0	\$3,980,000
2000/01	Unlimited	25,000,000	228.0	276	3	0	0	0	0
2001/02	Unlimited	50,000,000	216.0	271	2	0	100,000	0	100,000
2002/03	Unlimited	80,000,000	204.0	282	3	0	1,050,000	0	1,050,000
2003/04	Unlimited	None	192.0	315	6	0	20,375,000	0	20,375,000
2004/05	Unlimited	None	180.0	321	7	0	1,900,000	0	1,900,000
2005/06	Unlimited	None	168.0	312	11	0	620,000	0	620,000
2006/07	Unlimited	None	156.0	283	5	0	0	0	0
2007/08	Unlimited	None	144.0	234	4	0	0	0	0
2008/09	Unlimited	None	132.0	281	2	0	175,000	0	175,000
2009/10	Unlimited	None	120.0	193	2	0	0	0	0
2010/11	Unlimited	None	108.0	203	1	0	0	0	0
2011/12	Unlimited	None	96.0	144	1	0	0	0	0
2012/13	Unlimited	None	84.0	43	0	0	0	0	0
2013/14	Unlimited	None	72.0	43	0	0	0	0	0
2014/15	Unlimited	None	60.0	19	0	0	0	0	0
2015/16	Unlimited	80,000,000	48.0	4	0	0	0	0	0
2016/17	Unlimited	80,000,000	36.0	17	0	0	0	0	0
2017/18	Unlimited	80,000,000	24.0	18	0	0	0	0	0
2018/19	Unlimited	80,000,000	12.0	19	0	0	0	0	0
Total					58		\$28,200,000	\$0	\$28,200,000

(8), (9) and (10) are gross of the specific self-insured retention and net of other recoveries.

Data was provided by the County.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Data Summary as of November 30, 2019
 Gross Unlimited Losses

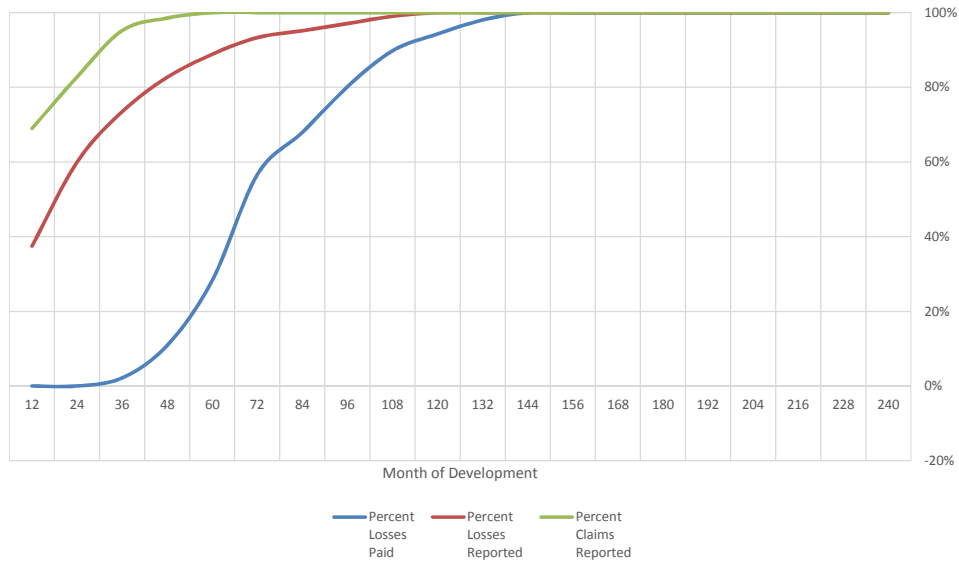
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Gross Unlimited Paid Losses 11/30/19 (8)	Gross Unlimited Case Reserves 11/30/19 (9)	Gross Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	11	0	\$3,980,000	\$0	\$3,980,000
2000/01	Unlimited	25,000,000	228.0	276	3	0	0	0	0
2001/02	Unlimited	50,000,000	216.0	271	2	0	100,000	0	100,000
2002/03	Unlimited	80,000,000	204.0	282	3	0	1,050,000	0	1,050,000
2003/04	Unlimited	None	192.0	315	6	0	20,375,000	0	20,375,000
2004/05	Unlimited	None	180.0	321	7	0	1,900,000	0	1,900,000
2005/06	Unlimited	None	168.0	312	11	0	620,000	0	620,000
2006/07	Unlimited	None	156.0	283	5	0	0	0	0
2007/08	Unlimited	None	144.0	234	4	0	0	0	0
2008/09	Unlimited	None	132.0	281	2	0	175,000	0	175,000
2009/10	Unlimited	None	120.0	193	2	0	0	0	0
2010/11	Unlimited	None	108.0	203	1	0	0	0	0
2011/12	Unlimited	None	96.0	144	1	0	0	0	0
2012/13	Unlimited	None	84.0	43	0	0	0	0	0
2013/14	Unlimited	None	72.0	43	0	0	0	0	0
2014/15	Unlimited	None	60.0	19	0	0	0	0	0
2015/16	Unlimited	80,000,000	48.0	4	0	0	0	0	0
2016/17	Unlimited	80,000,000	36.0	17	0	0	0	0	0
2017/18	Unlimited	80,000,000	24.0	18	0	0	0	0	0
2018/19	Unlimited	80,000,000	12.0	19	0	0	0	0	0
Total					58		\$28,200,000	\$0	\$28,200,000

(8), (9) and (10) are gross of the specific self-insured retention and other recoveries.

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	98.0%	100.0%	100.0%
120.0	94.3%	100.0%	100.0%
108.0	89.8%	99.0%	100.0%
96.0	80.2%	97.1%	100.0%
84.0	67.9%	95.2%	100.0%
72.0	56.6%	93.3%	100.0%
60.0	28.3%	88.9%	100.0%
48.0	10.9%	82.7%	98.5%
36.0	2.2%	73.5%	95.2%
24.0	0.0%	60.0%	82.8%
12.0	0.0%	37.5%	69.0%



(2) is from Exhibit MM-Oak Forest-2 (page 2).

(3) is from Exhibit MM-Oak Forest-2 (page 3).

(4) is from Exhibit MM-Oak Forest-2 (page 4).

Historical Reported Claims and Reported Claim Development

I. Historical Reported Claims

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																			413	413	413
2000/01																107	107	107	107	107	
2001/02															118	118	118	118	118	118	
2002/03															111	111	111	111	111	111	
2003/04															161	161	161	161	161	161	
2004/05												121	121	121	121	121	121	121	121	121	
2005/06											100	101	101	101	101	101	101	101	101	101	
2006/07										72	73	73	73	73	73	73	73	73	73	73	
2007/08										51	51	51	51	51	51	51	51	51	51	51	
2008/09										46	46	46	46	46	46	46	46	46	46	46	
2009/10										51	51	51	51	51	51	51	51	51	51	51	
2010/11										59	59	60	60	60	60	60	60	60	60	60	
2011/12										56	56	57	57	57	57	57	57	57	57	57	
2012/13										64	65	65	65	65	65	65	65	65	65	65	
2013/14										41	42	42	42	42	42	42	42	42	42	42	
2014/15										33	43	45	45	45	45	45	45	45	45	45	
2015/16										35	46	53	56	56	56	56	56	56	56	56	
2016/17										12	19	25	25	25	25	25	25	25	25	25	
2017/18										28	34	34	34	34	34	34	34	34	34	34	
2018/19										29	29	29	29	29	29	29	29	29	29	29	

II. Reported Claim Development

Claim Period	Months of Development:																				
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult	
to 1999/00																			1.000	1.000	
2000/01																			1.000	1.000	
2001/02																			1.000	1.000	
2002/03																			1.000	1.000	
2003/04																			1.000	1.000	
2004/05																			1.000	1.000	
2005/06																			1.000	1.000	
2006/07																			1.000	1.000	
2007/08																			1.000	1.000	
2008/09																			1.000	1.000	
2009/10																			1.000	1.000	
2010/11																			1.000	1.017	1.000
2011/12																			1.000	1.018	1.000
2012/13																			1.000	1.016	1.000
2013/14																			1.000	1.024	1.000
2014/15																			1.047	1.044	1.044
2015/16																			1.057	1.316	1.316
2016/17																			1.316	1.583	1.583
2017/18																			1.316	1.583	1.583
2018/19																			1.316	1.583	1.583
Average																					
All	1.371	1.257	1.043	1.020	1.000	1.006	1.006	1.000	1.000	1.005	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Wtd 3	1.320	1.235	1.044	1.020	1.000	1.006	1.006	1.000	1.000	1.006	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Last 3	1.371	1.257	1.043	1.020	1.000	1.006	1.006	1.000	1.000	1.005	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Last 5																					
x-hi,low																					
Previous	1.200	1.100	1.030	1.010	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	
Selected	1.200	1.150	1.035	1.015	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	
Cumulative	1.450	1.208	1.051	1.015	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	
Percent	69.0%	82.8%	95.2%	98.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Data was provided by the County and is for Cermak, Stroger and Provident combined.

Historical Ratio of Limited Paid Losses and Limited Reported Incurred Losses

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																				100.0%	100.0%
2000/01	0.0%	0.0%	1.9%	6.2%	12.0%	20.8%	30.0%	30.0%	32.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2001/02	0.0%	0.0%	0.1%	37.8%	49.1%	51.3%	96.9%	96.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2002/03	0.0%	0.1%	21.8%	15.0%	39.4%	66.1%	85.9%	93.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2003/04	0.0%	0.0%	0.0%	22.6%	56.0%	63.7%	96.3%	97.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2004/05	0.0%	0.3%	0.5%	24.0%	78.1%	96.1%	100.0%	94.9%	94.9%	100.0%	100.0%	100.0%	66.3%	49.6%	58.5%						
2005/06	0.0%	0.0%	2.3%	2.1%	39.3%	55.1%	71.5%	73.9%	45.3%	92.2%	100.0%	99.0%	96.0%	97.0%							
2006/07	0.0%	0.1%	0.2%	0.5%	42.7%	35.7%	86.7%	100.0%	100.0%	100.0%	100.0%	97.9%	97.9%								
2007/08	0.0%	1.0%	0.7%	19.9%	46.6%	68.9%	77.1%	100.0%	100.0%	100.0%	100.0%	100.0%									
2008/09	0.0%	0.0%	25.0%	30.8%	33.0%	44.0%	62.4%	97.0%	100.0%	100.0%	100.0%										
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	100.0%	100.0%	100.0%	100.0%											
2010/11	0.0%	0.0%	0.0%	25.7%	43.6%	48.4%	54.9%	100.0%													
2011/12	0.0%	58.7%	52.2%	61.8%	67.1%	91.1%	97.3%	98.0%													
2012/13	0.0%	7.1%	2.9%	5.9%	9.1%	30.6%	50.7%														
2013/14	0.0%	0.0%	0.0%	14.8%	53.6%	75.9%															
2014/15	0.0%	0.3%	0.3%	0.4%	10.4%																
2015/16	1.7%	30.0%	40.1%	37.2%																	
2016/17	0.0%	0.0%	9.1%																		
2017/18	0.0%	0.0%																			
2018/19	0.0%																				
Average																					
All	0.1%	5.4%	9.3%	19.9%	42.4%	59.4%	77.7%	90.1%	88.4%	99.2%	99.8%	99.6%	94.3%	91.1%	91.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 3		10.0%	16.5%	17.5%	24.4%	65.9%	67.6%	99.3%	100.0%	100.0%	99.3%	99.0%	86.8%	82.2%	86.2%	100.0%	100.0%				
Last 5	0.0%	0.1%	4.1%	19.3%	35.9%	69.5%	71.5%	99.3%	100.0%	100.0%	100.0%	99.7%	98.0%	99.0%	100.0%						
x-hi,low																					
Implicit	0.0%	0.0%	3.0%	13.2%	31.9%	60.7%	71.4%	82.6%	90.7%	94.3%	98.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Prior	0.0%	0.0%	3.0%	13.2%	31.9%	60.7%	71.4%	82.6%	90.7%	94.3%	98.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Paid Losses 11/30/19 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1999/00	240.0	\$3,980,000	100.0%	\$3,980,000
2000/01	228.0	0	100.0%	0
2001/02	216.0	100,000	100.0%	100,000
2002/03	204.0	1,050,000	100.0%	1,050,000
2003/04	192.0	20,375,000	100.0%	20,375,000
2004/05	180.0	1,900,000	100.0%	1,900,000
2005/06	168.0	620,000	100.0%	620,000
2006/07	156.0	0	100.0%	0
2007/08	144.0	0	100.0%	0
2008/09	132.0	175,000	98.0%	178,500
2009/10	120.0	0	94.3%	0
2010/11	108.0	0	89.8%	0
2011/12	96.0	0	80.2%	0
2012/13	84.0	0	67.9%	0
2013/14	72.0	0	56.6%	0
2014/15	60.0	0	28.3%	0
2015/16	48.0	0	10.9%	0
2016/17	36.0	0	2.2%	0
2017/18	24.0	0	0.0%	0
2018/19	12.0	0	0.0%	0
Total		\$28,200,000		\$28,203,500

(3) is from Exhibit MM-Oak Forest-1.

(4) is from Exhibit MM-Oak Forest-2.

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1999/00	240.0	\$3,980,000	100.0%	\$3,980,000
2000/01	228.0	0	100.0%	0
2001/02	216.0	100,000	100.0%	100,000
2002/03	204.0	1,050,000	100.0%	1,050,000
2003/04	192.0	20,375,000	100.0%	20,375,000
2004/05	180.0	1,900,000	100.0%	1,900,000
2005/06	168.0	620,000	100.0%	620,000
2006/07	156.0	0	100.0%	0
2007/08	144.0	0	100.0%	0
2008/09	132.0	175,000	100.0%	175,000
2009/10	120.0	0	100.0%	0
2010/11	108.0	0	99.0%	0
2011/12	96.0	0	97.1%	0
2012/13	84.0	0	95.2%	0
2013/14	72.0	0	93.3%	0
2014/15	60.0	0	88.9%	0
2015/16	48.0	0	82.7%	0
2016/17	36.0	0	73.5%	0
2017/18	24.0	0	60.0%	0
2018/19	12.0	0	37.5%	0
Total		\$28,200,000		\$28,200,000

(3) is from Exhibit MM-Oak Forest-1.

(4) is from Exhibit MM-Oak Forest-2.

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/19 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/19 (6)	Limited Case Reserves 11/30/19 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1999/00	240.0	100.0%	100.0%	100.0%	\$3,980,000	\$0	\$3,980,000
2000/01	228.0	100.0%	100.0%	100.0%	0	0	0
2001/02	216.0	100.0%	100.0%	100.0%	100,000	0	100,000
2002/03	204.0	100.0%	100.0%	100.0%	1,050,000	0	1,050,000
2003/04	192.0	100.0%	100.0%	100.0%	20,375,000	0	20,375,000
2004/05	180.0	100.0%	100.0%	100.0%	1,900,000	0	1,900,000
2005/06	168.0	100.0%	100.0%	100.0%	620,000	0	620,000
2006/07	156.0	100.0%	100.0%	100.0%	0	0	0
2007/08	144.0	100.0%	100.0%	100.0%	0	0	0
2008/09	132.0	98.0%	100.0%	100.0%	175,000	0	175,000
2009/10	120.0	94.3%	100.0%	100.0%	0	0	0
2010/11	108.0	89.8%	99.0%	90.3%	0	0	0
2011/12	96.0	80.2%	97.1%	85.2%	0	0	0
2012/13	84.0	67.9%	95.2%	84.9%	0	0	0
2013/14	72.0	56.6%	93.3%	84.6%	0	0	0
2014/15	60.0	28.3%	88.9%	84.5%	0	0	0
2015/16	48.0	10.9%	82.7%	80.5%	0	0	0
2016/17	36.0	2.2%	73.5%	72.9%	0	0	0
2017/18	24.0	0.0%	60.0%	60.0%	0	0	0
2018/19	12.0	0.0%	37.5%	37.5%	0	0	0
Total					\$28,200,000	\$0	\$28,200,000

(3) and (4) are from Exhibit MM-Oak Forest-2.

(6) and (7) are from Exhibit MM-Oak Forest-1.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Exhibit MM-Oak Forest-6

Preliminary Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	Preliminary Projected Ultimate Limited Losses (5)
to 1999/00	\$3,980,000	\$3,980,000	\$3,980,000	\$3,980,000
2000/01	0	0	0	0
2001/02	100,000	100,000	100,000	100,000
2002/03	1,050,000	1,050,000	1,050,000	1,050,000
2003/04	20,375,000	20,375,000	20,375,000	20,375,000
2004/05	1,900,000	1,900,000	1,900,000	1,900,000
2005/06	620,000	620,000	620,000	620,000
2006/07	0	0	0	0
2007/08	0	0	0	0
2008/09	178,500	175,000	175,000	175,000
2009/10	0	0	0	0
2010/11	0	0	0	0
2011/12	0	0	0	0
2012/13	0	0	0	0
2013/14	0	0	0	0
2014/15	0	0	0	0
2015/16	0	0	0	0
2016/17	0	0	0	0
2017/18	0	0	0	0
2018/19	0	0	0	0
Total	\$28,203,500	\$28,200,000	\$28,200,000	\$28,200,000

(2) is from Exhibit MM-Oak Forest-3.

(3) is from Exhibit MM-Oak Forest-4.

(4) is from Exhibit MM-Oak Forest-5.

(5) is based on (2) to (4) and actuarial judgment.

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)	Projected A-priori Loss Rate per Occupied Bed Equivalent (7)/(5) (8)
2009/10	\$0	193	\$0.00	1.088	\$0.00	\$459.54
2010/11	0	203	0.00	1.389	0.00	360.08
2011/12	0	144	0.00	1.335	0.00	374.48
2012/13	0	43	0.00	1.298	0.00	385.15
2013/14	0	43	0.00	1.253	0.00	399.11
2014/15	0	19	0.00	1.210	0.00	413.34
2015/16	0	4	0.00	1.170	0.00	427.40
2016/17	0	17	0.00	1.125	0.00	444.50
2017/18	0	18	0.00	1.082	0.00	462.28
2018/19	0	19	0.00	1.040	0.00	480.77

(7) Projected 2019/20 a-priori loss rate per Occupied Bed Equivalent \$500.00

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Percent Losses Paid (3)	Projected A-priori Loss Rate per Occupied Bed Equivalent (4)	Occupied Bed Equivalents (5)	B-F Unpaid Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Paid Losses (2)+(6) (7)
2014/15	\$0	28.3%	\$413.34	19	\$5,632	\$5,632
2015/16	0	10.9%	427.40	4	1,698	1,698
2016/17	0	2.2%	444.50	17	7,565	7,565
2017/18	0	0.0%	462.28	18	8,367	8,367
2018/19	0	0.0%	480.77	19	9,095	9,095

III. Bornhuetter - Ferguson Analysis Based on Limited Reported Incurred Losses

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Percent Losses Reported (3)	Projected A-priori Loss Rate per Occupied Bed Equivalent (4)	Occupied Bed Equivalents (5)	B-F Unreported Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Reported Losses (2)+(6) (7)
2014/15	\$0	88.9%	\$413.34	19	\$875	\$875
2015/16	0	82.7%	427.40	4	331	331
2016/17	0	73.5%	444.50	17	2,052	2,052
2017/18	0	60.0%	462.28	18	3,349	3,349
2018/19	0	37.5%	480.77	19	5,686	5,686

Section I, (2) is from Exhibit MM-Oak Forest-6.

Section I, (3), Section II, (5) and Section III, (5) are from Exhibit MM-Oak Forest-10.

Section I, (5) is based on a 4% trend and adjusted for change in retention.

Section I, (7) is based on Section I, (6) and actuarial judgment.

Sections II and III, (2) are from Exhibit MM-Oak Forest-1.

Sections II and III, (3) are from Exhibit MM-Oak Forest-2.

Sections II and III, (4) are from Section I, (8).



Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/19 (2)	Reported Claims 11/30/19 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2009/10	120.0	2	100.0%	2	193	0.01
2010/11	108.0	1	100.0%	1	203	0.00
2011/12	96.0	1	100.0%	1	144	0.01
2012/13	84.0	0	100.0%	0	43	0.00
2013/14	72.0	0	100.0%	0	43	0.00
2014/15	60.0	0	100.0%	0	19	0.00
2015/16	48.0	0	98.5%	0	4	0.00
2016/17	36.0	0	95.2%	0	17	0.00
2017/18	24.0	0	82.8%	0	18	0.00
2018/19	12.0	0	69.0%	0	19	0.00

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2019/20 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2019/20 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2009/10	\$0	2	\$0	1.088	\$0	\$91,907	\$183,815
2010/11	0	1	0	1.389	0	72,015	72,015
2011/12	0	1	0	1.335	0	74,896	74,896
2012/13	0	0	0	1.298	0	77,030	0
2013/14	0	0	0	1.253	0	79,822	0
2014/15	0	0	0	1.210	0	82,668	0
2015/16	0	0	0	1.170	0	85,480	0
2016/17	0	0	0	1.125	0	88,900	0
2017/18	0	0	0	1.082	0	92,456	0
2018/19	0	0	0	1.040	0	96,154	0

(7) Projected 2019/20 average claim severity

\$100,000

Section I, (3) is from Exhibit MM-Oak Forest-1.

Section I, (4) is from Exhibit MM-Oak Forest-2.

Section I, (6) is from Exhibit MM-Oak Forest-10.

Section II, (2) is from Exhibit MM-Oak Forest-6.

Section II, (3) is from Section I, (5).

Section II, (5) is based on a 4% trend and adjusted for change in retention.

Section II, (7) is based on (6) and actuarial judgment.

Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	B-F Ultimate Limited Paid Losses (5)	B-F Ultimate Limited Reported Losses (6)	Frequency Times Severity (7)	Prior Projected Ultimate Limited Losses (8)	Projected Ultimate Limited Losses (9)
to 1999/00	\$3,980,000	\$3,980,000	\$3,980,000				\$3,980,000	\$3,980,000
2000/01	0	0	0					0
2001/02	100,000	100,000	100,000				100,000	100,000
2002/03	1,050,000	1,050,000	1,050,000				1,050,000	1,050,000
2003/04	20,375,000	20,375,000	20,375,000				20,375,000	20,375,000
2004/05	1,900,000	1,900,000	1,900,000				1,900,000	1,900,000
2005/06	620,000	620,000	620,000				620,000	620,000
2006/07	0	0	0					0
2007/08	0	0	0					0
2008/09	178,500	175,000	175,000				175,000	175,000
2009/10	0	0	0					0
2010/11	0	0	0					0
2011/12	0	0	0					0
2012/13	0	0	0					0
2013/14	0	0	0					0
2014/15	0	0	0	5,632	875		15,000	0
2015/16	0	0	0	1,698	331		20,000	15,000
2016/17	0	0	0	7,565	2,052		25,000	20,000
2017/18	0	0	0	8,367	3,349		30,000	25,000
2018/19	0	0	0	9,095	5,686		16,000	30,000
Total	\$28,203,500	\$28,200,000	\$28,200,000				\$28,306,000	\$28,290,000
2014/15 - 2018/19	0	0	0	32,358	12,293	0	106,000	90,000
to 2013/14	28,203,500	28,200,000	28,200,000				28,200,000	28,200,000
						Change		
						All years		-16,000
						2014/15 - 2018/19		-16,000
						to 2013/14		0

- (2) is from Exhibit MM-Oak Forest-3.
- (3) is from Exhibit MM-Oak Forest-4.
- (4) is from Exhibit MM-Oak Forest-5.
- (5) and (6) are from Exhibit MM-Oak Forest-7.
- (7) is from Exhibit MM-Oak Forest-8.
- (8) is based on (2) to (7) and actuarial judgment.

Projected Ultimate Limited Losses for 2019/20 and Subsequent

Claim Period (1)	Projected Ultimate Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2009/10	\$0	193	\$0.00	1.088	\$0.00
2010/11	0	203	0.00	1.389	0.00
2011/12	0	144	0.00	1.335	0.00
2012/13	0	43	0.00	1.298	0.00
2013/14	0	43	0.00	1.253	0.00
2014/15	0	19	0.00	1.210	0.00
2015/16	15,000	4	3,363.83	1.170	3,935.21
2016/17	20,000	17	1,149.50	1.125	1,293.04
2017/18	25,000	18	1,380.96	1.082	1,493.64
2018/19	30,000	19	1,585.76	1.040	1,649.19
Total	\$90,000	704	\$127.86		\$837.11

Claim Period (1)	Projected Limited Loss Rate per Occupied Bed Equivalent (7)	Projected Occupied Bed Equivalents (8)	Projected Ultimate Limited Losses (7)X(8) (9)	Present Value Factor (10)	Present Value of Projected Limited Loss Rate per Occupied Bed Equivalent (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11) (12)
2019/20	\$837.11	19	\$16,000	0.91	\$758.35	\$14,000
2020/21	870.59	19	16,000	0.91	788.69	15,000
2021/22	905.42	19	17,000	0.91	820.24	16,000

(2) is from Exhibit MM-Oak Forest-9.

(3) was provided by the County.

(5) is based on a 4% trend and adjusted for change in retention.

(7) 2019/20 is based on (6) and actuarial judgment.
 Other period(s) based on 2019/20 plus a 4% trend.

(8) to 2019/20 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Oak Forest-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Exhibit MM-Oak Forest-11

Estimated Outstanding Losses as of November 30, 2019

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Limited Case Reserves 11/30/19 (3)	Limited Reported Incurred Losses 11/30/19 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/19 (5)-(4) (6)	Estimated Outstanding Losses 11/30/19 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/19 (7)X(8) (9)
to 1999/00	\$3,980,000	\$0	\$3,980,000	\$3,980,000	\$0	\$0	1.00	\$0
2000/01	0	0	0	0	0	0	1.00	0
2001/02	100,000	0	100,000	100,000	0	0	1.00	0
2002/03	1,050,000	0	1,050,000	1,050,000	0	0	1.00	0
2003/04	20,375,000	0	20,375,000	20,375,000	0	0	1.00	0
2004/05	1,900,000	0	1,900,000	1,900,000	0	0	1.00	0
2005/06	620,000	0	620,000	620,000	0	0	1.00	0
2006/07	0	0	0	0	0	0	1.00	0
2007/08	0	0	0	0	0	0	1.00	0
2008/09	175,000	0	175,000	175,000	0	0	0.99	0
2009/10	0	0	0	0	0	0	0.99	0
2010/11	0	0	0	0	0	0	0.98	0
2011/12	0	0	0	0	0	0	0.98	0
2012/13	0	0	0	0	0	0	0.97	0
2013/14	0	0	0	0	0	0	0.97	0
2014/15	0	0	0	0	0	0	0.97	0
2015/16	0	0	0	15,000	15,000	15,000	0.96	14,402
2016/17	0	0	0	20,000	20,000	20,000	0.95	18,982
2017/18	0	0	0	25,000	25,000	25,000	0.94	23,383
2018/19	0	0	0	30,000	30,000	30,000	0.92	27,615
Total	\$28,200,000	\$0	\$28,200,000	\$28,290,000	\$90,000	\$90,000		\$84,382

(2), (3) and (4) are net of specific self-insured retention and aggregate retention.

(5) is from Exhibit MM-Oak Forest-9.

(8) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Oak Forest-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Exhibit MM-Oak Forest-12

Projected Losses Paid December 1, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1999/00	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2010/11	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2011/12	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2012/13	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.98	0
2013/14	72.0	56.6%	84.0	67.9%	26.1%	0	0	0	0.97	0
2014/15	60.0	28.3%	72.0	56.6%	39.5%	0	0	0	0.97	0
2015/16	48.0	10.9%	60.0	28.3%	19.5%	15,000	2,932	12,068	0.97	11,678
2016/17	36.0	2.2%	48.0	10.9%	8.9%	20,000	1,781	18,219	0.96	17,492
2017/18	24.0	0.0%	36.0	2.2%	2.2%	25,000	540	24,460	0.95	23,215
2018/19	12.0	0.0%	24.0	0.0%	0.0%	30,000	3	29,997	0.94	28,057
2019/20	0.0	0.0%	12.0	0.0%	0.0%	16,000	1	15,999	0.92	14,727
Total						\$106,000	\$5,257	\$100,743		\$95,169

(3) and (5) are from Exhibit MM-Oak Forest-2.

(7) to 2018/19 is from Exhibit MM-Oak Forest-11. The amount for 2019/20 is from Exhibit MM-Oak Forest-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Oak Forest-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Exhibit MM-Oak Forest-13

Projected Losses Paid December 1, 2020 to November 30, 2021

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Months of Development 11/30/21 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/20 to 11/30/21 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/20 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/21 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/21 (9)X(10) (11)
to 1999/00	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2011/12	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2012/13	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2013/14	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.98	0
2014/15	72.0	56.6%	84.0	67.9%	26.1%	0	0	0	0.97	0
2015/16	60.0	28.3%	72.0	56.6%	39.5%	12,068	4,764	7,304	0.97	7,064
2016/17	48.0	10.9%	60.0	28.3%	19.5%	18,219	3,561	14,658	0.97	14,184
2017/18	36.0	2.2%	48.0	10.9%	8.9%	24,460	2,178	22,282	0.96	21,393
2018/19	24.0	0.0%	36.0	2.2%	2.2%	29,997	648	29,349	0.95	27,855
2019/20	12.0	0.0%	24.0	0.0%	0.0%	15,999	1	15,998	0.94	14,963
2020/21	0.0	0.0%	12.0	0.0%	0.0%	16,000	1	15,999	0.92	14,727
Total						\$116,743	\$11,153	\$105,590		\$100,186

(3) and (5) are from Exhibit MM-Oak Forest-2.

(7) to 2019/20 is from Exhibit MM-Oak Forest-12, (9). The amount for 2020/21 is from Exhibit MM-Oak Forest-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Oak Forest-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Exhibit MM-Oak Forest-14

Projected Losses Paid December 1, 2021 to November 30, 2022

Claim Period (1)	Months of Development 11/30/21 (2)	Percent Losses Paid (3)	Months of Development 11/30/22 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/21 to 11/30/22 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/21 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/22 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/22 (9)X(10) (11)
to 1999/00	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2012/13	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2013/14	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2014/15	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.98	0
2015/16	72.0	56.6%	84.0	67.9%	26.1%	7,304	1,906	5,398	0.97	5,256
2016/17	60.0	28.3%	72.0	56.6%	39.5%	14,658	5,787	8,871	0.97	8,579
2017/18	48.0	10.9%	60.0	28.3%	19.5%	22,282	4,355	17,927	0.97	17,348
2018/19	36.0	2.2%	48.0	10.9%	8.9%	29,349	2,613	26,736	0.96	25,670
2019/20	24.0	0.0%	36.0	2.2%	2.2%	15,998	345	15,653	0.95	14,856
2020/21	12.0	0.0%	24.0	0.0%	0.0%	15,999	1	15,998	0.94	14,963
2021/22	0.0	0.0%	12.0	0.0%	0.0%	17,000	2	16,998	0.92	15,647
Total						\$122,590	\$15,009	\$107,581		\$102,319

(3) and (5) are from Exhibit MM-Oak Forest-2.

(7) to 2020/21 is from Exhibit MM-Oak Forest-13, (9). The amount for 2021/22 is from Exhibit MM-Oak Forest-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Oak Forest-2.

List of Large Claims
 Reported Incurred Losses Greater Than \$1,000,000

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/19 (5)	Unlimited Case Reserves 11/30/19 (6)	Unlimited Reported Incurred Losses 11/30/19 (7)
94000125	09/15/87	to 1999/00	Unlimited	\$2,500,000	\$0	\$2,500,000
94000234	12/15/93	to 1999/00	Unlimited	1,200,000	0	1,200,000
97005031	05/19/04	2003/04	20,000,000	20,000,000	0	20,000,000
97006028	11/03/05	2004/05	20,000,000	1,000,000	0	1,000,000

Amounts are gross of excess insurance and net of other recoveries.

(1) through (7) were provided by the County.

Size of Loss Distribution

I. Reported Claim Count

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	41	0	0	0	0	0	41		
0.01 - 5,000	2	0	0	0	0	0	2	2	11.8%
5,000 - 10,000	0	0	0	0	0	0	0	2	11.8%
10,000 - 25,000	2	0	0	0	0	0	2	4	23.5%
25,000 - 50,000	0	0	0	0	0	0	0	4	23.5%
50,000 - 100,000	2	0	0	0	0	0	2	6	35.3%
100,000 - 250,000	2	0	0	0	0	0	2	8	47.1%
250,000 - 500,000	2	0	0	0	0	0	2	10	58.8%
500,000 - 750,000	2	0	0	0	0	0	2	12	70.6%
750,000 - 1,000,000	2	0	0	0	0	0	2	14	82.4%
Over 1,000,000	3	0	0	0	0	0	3	17	100.0%
Total	58	0	0	0	0	0	58	17	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
0.01 - 5,000	5,000	0	0	0	0	0	5,000	5,000	0.0%
5,000 - 10,000	0	0	0	0	0	0	0	5,000	0.0%
10,000 - 25,000	45,000	0	0	0	0	0	45,000	50,000	0.2%
25,000 - 50,000	0	0	0	0	0	0	0	50,000	0.2%
50,000 - 100,000	175,000	0	0	0	0	0	175,000	225,000	0.8%
100,000 - 250,000	425,000	0	0	0	0	0	425,000	650,000	2.3%
250,000 - 500,000	600,000	0	0	0	0	0	600,000	1,250,000	4.4%
500,000 - 750,000	1,350,000	0	0	0	0	0	1,350,000	2,600,000	9.2%
750,000 - 1,000,000	1,900,000	0	0	0	0	0	1,900,000	4,500,000	16.0%
Over 1,000,000	23,700,000	0	0	0	0	0	23,700,000	28,200,000	100.0%
Total	\$28,200,000	\$0	\$0	\$0	\$0	\$0	\$28,200,000	\$28,200,000	

Amounts are gross of excess insurance and net of other recoveries.

Data was provided by the County.

CookCounty_MM_OakForest_113019.xlsx

Calculation of Occupied Bed Equivalents

Occurrence Period (1)	Inpatients (2)	ER Visits (3)	Other Visits (4)	Other Visits (5)	Other Visits (6)	Physicians (7)	Occupied Bed Equivalents (8)
to 1999/00							
2000/01	78	14,340	91,232			70	276
2001/02	61	20,542	84,449			71	271
2002/03	67	23,156	88,763			70	282
2003/04	67	25,006	92,054			85	315
2004/05	67	31,162	85,787			83	321
2005/06	56	30,249	90,702			84	312
2006/07	39	29,012	75,083			82	283
2007/08	42	28,768	59,543			58	234
2008/09	46	27,785	72,464			79	281
2009/10	46	27,785	64,819			34	193
2010/11	46	33,000	64,819			34	203
2011/12	46	16,500	0			34	144
2012/13	0	0	0			23	43
2013/14	0	0	0			23	43
2014/15	0	0	0		47,516	0	19
2015/16	0	0	0	0	11,148	0	4
2016/17	0	0	0	0	43,497	0	17
2017/18	0	0	0	0	33,621	2	18
2018/19	0	0	0	0	47,296	0	19
2019/20	0	0	0	0	47,296	0	19

(2) through (7) were provided by the County.

The exposures in (2) through (7) are converted to occupied bed equivalents using the following exposure conversion factors, which were published in the Aon/ASHRM Hospital Professional Liability and Physician Liability Benchmark Analysis published in October 2018. The weight for Housestaff is based on actuarial judgement.

Exposure	Conversion Factor
Inpatients	1.000
ER Visits	0.200 per 100
Other Visits	0.040 per 100
Class 1 physician	1.900
Housestaff	0.800 (residents and interns)



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Data Summary as of November 30, 2019
 Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Limited Paid Losses 11/30/19 (8)	Limited Case Reserves 11/30/19 (9)	Limited Reported Incurred Losses 11/30/19 (10)
to 1999/00	See Note	None	240.0	Not Provided	50	0	\$13,020,000	\$0	\$13,020,000
2000/01	10,000,000	25,000,000	228.0	280	9	0	345,000	0	345,000
2001/02	15,000,000	50,000,000	216.0	326	12	0	200,000	0	200,000
2002/03	20,000,000	80,000,000	204.0	334	14	0	1,025,000	0	1,025,000
2003/04	20,000,000	None	192.0	329	14	0	7,860,000	0	7,860,000
2004/05	20,000,000	None	180.0	330	13	0	90,000	0	90,000
2005/06	20,000,000	None	168.0	322	9	0	425,000	0	425,000
2006/07	20,000,000	None	156.0	309	3	0	0	0	0
2007/08	20,000,000	None	144.0	317	3	0	300,000	0	300,000
2008/09	20,000,000	None	132.0	410	3	0	300,000	0	300,000
2009/10	40,000,000	None	120.0	303	5	0	800,000	0	800,000
2010/11	40,000,000	None	108.0	303	1	0	0	0	0
2011/12	40,000,000	None	96.0	293	4	0	1,815,000	0	1,815,000
2012/13	30,000,000	None	84.0	202	4	1	1,175,000	1,500,000	2,675,000
2013/14	30,000,000	None	72.0	202	3	0	425,000	0	425,000
2014/15	25,000,000	None	60.0	176	1	0	0	0	0
2015/16	25,000,000	80,000,000	48.0	181	3	1	2,790,000	155,000	2,945,000
2016/17	25,000,000	80,000,000	36.0	185	4	3	0	4,050,000	4,050,000
2017/18	25,000,000	80,000,000	24.0	167	2	1	0	100,000	100,000
2018/19	25,000,000	80,000,000	12.0	172	4	0	0	0	0
Total					161	6	\$30,570,000	\$5,805,000	\$36,375,000

* The specific self-insured retention changes are as follows:

Effective Date	Retention
12/01/70	Unlimited
12/01/00	10,000,000
12/01/01	15,000,000
12/01/02	20,000,000
03/01/10	40,000,000
03/01/13	30,000,000
07/01/15	25,000,000

(8), (9) and (10) are net of the specific self-insured retention and other recoveries.

Data was provided by the County.

Data Summary as of November 30, 2019
 Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Net Unlimited Paid Losses 11/30/19 (8)	Net Unlimited Case Reserves 11/30/19 (9)	Net Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	50	0	\$13,020,000	\$0	\$13,020,000
2000/01	Unlimited	25,000,000	228.0	280	9	0	345,000	0	345,000
2001/02	Unlimited	50,000,000	216.0	326	12	0	200,000	0	200,000
2002/03	Unlimited	80,000,000	204.0	334	14	0	1,025,000	0	1,025,000
2003/04	Unlimited	None	192.0	329	14	0	7,860,000	0	7,860,000
2004/05	Unlimited	None	180.0	330	13	0	90,000	0	90,000
2005/06	Unlimited	None	168.0	322	9	0	425,000	0	425,000
2006/07	Unlimited	None	156.0	309	3	0	0	0	0
2007/08	Unlimited	None	144.0	317	3	0	300,000	0	300,000
2008/09	Unlimited	None	132.0	410	3	0	300,000	0	300,000
2009/10	Unlimited	None	120.0	303	5	0	800,000	0	800,000
2010/11	Unlimited	None	108.0	303	1	0	0	0	0
2011/12	Unlimited	None	96.0	293	4	0	1,815,000	0	1,815,000
2012/13	Unlimited	None	84.0	202	4	1	1,175,000	1,500,000	2,675,000
2013/14	Unlimited	None	72.0	202	3	0	425,000	0	425,000
2014/15	Unlimited	None	60.0	176	1	0	0	0	0
2015/16	Unlimited	80,000,000	48.0	181	3	1	2,790,000	155,000	2,945,000
2016/17	Unlimited	80,000,000	36.0	185	4	3	0	4,050,000	4,050,000
2017/18	Unlimited	80,000,000	24.0	167	2	1	0	100,000	100,000
2018/19	Unlimited	80,000,000	12.0	172	4	0	0	0	0
Total					161	6	\$30,570,000	\$5,805,000	\$36,375,000

(8), (9) and (10) are gross of the specific self-insured retention and net of other recoveries.

Data was provided by the County.

Data Summary as of November 30, 2019
 Gross Unlimited Losses

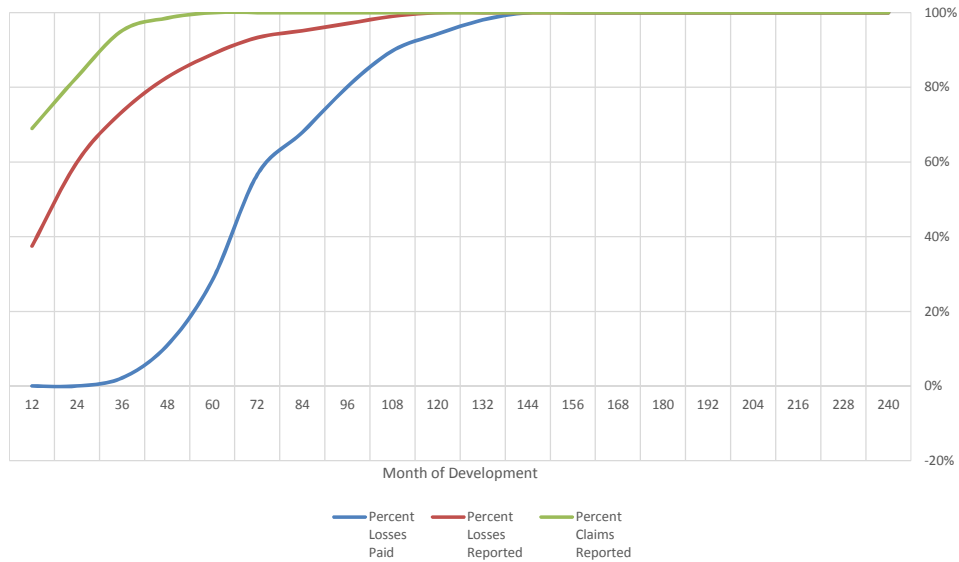
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Gross Unlimited Paid Losses 11/30/19 (8)	Gross Unlimited Case Reserves 11/30/19 (9)	Gross Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	50	0	\$13,020,000	\$0	\$13,020,000
2000/01	Unlimited	25,000,000	228.0	280	9	0	345,000	0	345,000
2001/02	Unlimited	50,000,000	216.0	326	12	0	200,000	0	200,000
2002/03	Unlimited	80,000,000	204.0	334	14	0	1,025,000	0	1,025,000
2003/04	Unlimited	None	192.0	329	14	0	7,860,000	0	7,860,000
2004/05	Unlimited	None	180.0	330	13	0	90,000	0	90,000
2005/06	Unlimited	None	168.0	322	9	0	425,000	0	425,000
2006/07	Unlimited	None	156.0	309	3	0	0	0	0
2007/08	Unlimited	None	144.0	317	3	0	300,000	0	300,000
2008/09	Unlimited	None	132.0	410	3	0	300,000	0	300,000
2009/10	Unlimited	None	120.0	303	5	0	800,000	0	800,000
2010/11	Unlimited	None	108.0	303	1	0	0	0	0
2011/12	Unlimited	None	96.0	293	4	0	1,815,000	0	1,815,000
2012/13	Unlimited	None	84.0	202	4	1	1,175,000	1,500,000	2,675,000
2013/14	Unlimited	None	72.0	202	3	0	425,000	0	425,000
2014/15	Unlimited	None	60.0	176	1	0	0	0	0
2015/16	Unlimited	80,000,000	48.0	181	3	1	2,790,000	155,000	2,945,000
2016/17	Unlimited	80,000,000	36.0	185	4	3	0	4,050,000	4,050,000
2017/18	Unlimited	80,000,000	24.0	167	2	1	0	100,000	100,000
2018/19	Unlimited	80,000,000	12.0	172	4	0	0	0	0
Total					161	6	\$30,570,000	\$5,805,000	\$36,375,000

(8), (9) and (10) are gross of the specific self-insured retention and other recoveries.

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	98.0%	100.0%	100.0%
120.0	94.3%	100.0%	100.0%
108.0	89.8%	99.0%	100.0%
96.0	80.2%	97.1%	100.0%
84.0	67.9%	95.2%	100.0%
72.0	56.6%	93.3%	100.0%
60.0	28.3%	88.9%	100.0%
48.0	10.9%	82.7%	98.5%
36.0	2.2%	73.5%	95.2%
24.0	0.0%	60.0%	82.8%
12.0	0.0%	37.5%	69.0%



(2) is from Exhibit MM-Provident-2 (page 2).

(3) is from Exhibit MM-Provident-2 (page 3).

(4) is from Exhibit MM-Provident-2 (page 4).

Historical Reported Claims and Reported Claim Development

I. Historical Reported Claims

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																			413	413	413
2000/01																107	107	107	107	107	
2001/02															118	118	118	118	118	118	
2002/03															111	111	111	111	111	111	
2003/04															161	161	161	161	161	161	
2004/05												121	121	121	121	121	121	121	121	121	
2005/06											100	101	101	101	101	101	101	101	101	101	
2006/07										72	73	73	73	73	73	73	73	73	73	73	
2007/08										51	51	51	51	51	51	51	51	51	51	51	
2008/09										46	46	46	46	46	46	46	46	46	46	46	
2009/10										51	51	51	51	51	51	51	51	51	51	51	
2010/11										59	59	60	60	60	60	60	60	60	60	60	
2011/12										56	56	57	57	57	57	57	57	57	57	57	
2012/13										64	65	65	65	65	65	65	65	65	65	65	
2013/14										41	42	42	42	42	42	42	42	42	42	42	
2014/15										33	43	45	45	45	45	45	45	45	45	45	
2015/16										35	46	53	56	56	56	56	56	56	56	56	
2016/17										12	19	25	25	25	25	25	25	25	25	25	
2017/18										28	34	34	34	34	34	34	34	34	34	34	
2018/19										29	29	29	29	29	29	29	29	29	29	29	

II. Reported Claim Development

Claim Period	Months of Development:																				
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult	
to 1999/00																				1.000	1.000
2000/01																				1.000	1.000
2001/02																				1.000	1.000
2002/03																				1.000	1.000
2003/04																				1.000	1.000
2004/05																				1.000	1.000
2005/06																				1.000	1.000
2006/07																				1.000	1.000
2007/08																				1.000	1.000
2008/09																				1.000	1.000
2009/10																				1.000	1.000
2010/11																				1.000	1.000
2011/12																				1.000	1.000
2012/13																				1.000	1.000
2013/14																				1.000	1.000
2014/15																				1.000	1.000
2015/16																				1.000	1.000
2016/17																				1.000	1.000
2017/18																				1.000	1.000
2018/19																				1.000	1.000
Average																					
All	1.371	1.257	1.043	1.020	1.000	1.006	1.006	1.000	1.000	1.005	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Wtd 3	1.320	1.235	1.044	1.020	1.000	1.006	1.006	1.000	1.000	1.006	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Last 3	1.371	1.257	1.043	1.020	1.000	1.006	1.006	1.000	1.000	1.005	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Last 5																					
x-hi,low																					
Previous	1.200	1.100	1.030	1.010	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	
Selected	1.200	1.150	1.035	1.015	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	
Cumulative	1.450	1.208	1.051	1.015	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	
Percent	69.0%	82.8%	95.2%	98.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Data was provided by the County and is for Cermak, Stroger and Provident combined.

Historical Ratio of Limited Paid Losses and Limited Reported Incurred Losses

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																				100.0%	100.0%
2000/01	0.0%	0.0%	1.9%	6.2%	12.0%	20.8%	30.0%	30.0%	32.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2001/02	0.0%	0.0%	0.1%	37.8%	49.1%	51.3%	96.9%	96.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2002/03	0.0%	0.1%	21.8%	15.0%	39.4%	66.1%	85.9%	93.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2003/04	0.0%	0.0%	0.0%	22.6%	56.0%	63.7%	96.3%	97.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2004/05	0.0%	0.3%	0.5%	24.0%	78.1%	96.1%	100.0%	94.9%	94.9%	100.0%	100.0%	100.0%	66.3%	49.6%	58.5%						
2005/06	0.0%	0.0%	2.3%	2.1%	39.3%	55.1%	71.5%	73.9%	45.3%	92.2%	100.0%	99.0%	96.0%	97.0%							
2006/07	0.0%	0.1%	0.2%	0.5%	42.7%	35.7%	86.7%	100.0%	100.0%	100.0%	100.0%	97.9%	97.9%								
2007/08	0.0%	1.0%	0.7%	19.9%	46.6%	68.9%	77.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%								
2008/09	0.0%	0.0%	25.0%	30.8%	33.0%	44.0%	62.4%	97.0%	100.0%	100.0%	100.0%										
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	100.0%	100.0%	100.0%	100.0%											
2010/11	0.0%	0.0%	0.0%	25.7%	43.6%	48.4%	54.9%	100.0%													
2011/12	0.0%	58.7%	52.2%	61.8%	67.1%	91.1%	97.3%	98.0%													
2012/13	0.0%	7.1%	2.9%	5.9%	9.1%	30.6%	50.7%														
2013/14	0.0%	0.0%	0.0%	14.8%	53.6%	75.9%															
2014/15	0.0%	0.3%	0.3%	0.4%	10.4%																
2015/16	1.7%	30.0%	40.1%	37.2%																	
2016/17	0.0%	0.0%	9.1%																		
2017/18	0.0%	0.0%																			
2018/19	0.0%																				
Average																					
All	0.1%	5.4%	9.3%	19.9%	42.4%	59.4%	77.7%	90.1%	88.4%	99.2%	99.8%	99.6%	94.3%	91.1%	91.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 3		10.0%	16.5%	17.5%	24.4%	65.9%	67.6%	99.3%	100.0%	100.0%	99.3%	99.0%	86.8%	82.2%	86.2%	100.0%	100.0%				
Last 5	0.0%	0.1%	4.1%	19.3%	35.9%	69.5%	71.5%	99.3%	100.0%	100.0%	100.0%	99.7%	98.0%	99.0%	100.0%						
x-hi,low																					
Implicit	0.0%	0.0%	3.0%	13.2%	31.9%	60.7%	71.4%	82.6%	90.7%	94.3%	98.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Prior	0.0%	0.0%	3.0%	13.2%	31.9%	60.7%	71.4%	82.6%	90.7%	94.3%	98.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Paid Losses 11/30/19 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1999/00	240.0	\$13,020,000	100.0%	\$13,020,000
2000/01	228.0	345,000	100.0%	345,000
2001/02	216.0	200,000	100.0%	200,000
2002/03	204.0	1,025,000	100.0%	1,025,000
2003/04	192.0	7,860,000	100.0%	7,860,000
2004/05	180.0	90,000	100.0%	90,000
2005/06	168.0	425,000	100.0%	425,000
2006/07	156.0	0	100.0%	0
2007/08	144.0	300,000	100.0%	300,000
2008/09	132.0	300,000	98.0%	306,000
2009/10	120.0	800,000	94.3%	848,640
2010/11	108.0	0	89.8%	0
2011/12	96.0	1,815,000	80.2%	2,264,214
2012/13	84.0	1,175,000	67.9%	1,729,660
2013/14	72.0	425,000	56.6%	750,746
2014/15	60.0	0	28.3%	0
2015/16	48.0	2,790,000	10.9%	25,627,818
2016/17	36.0	0	2.2%	0
2017/18	24.0	0	0.0%	0
2018/19	12.0	0	0.0%	0
Total		\$30,570,000		\$54,792,078

(3) is from Exhibit MM-Provident-1.

(4) is from Exhibit MM-Provident-2.

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1999/00	240.0	\$13,020,000	100.0%	\$13,020,000
2000/01	228.0	345,000	100.0%	345,000
2001/02	216.0	200,000	100.0%	200,000
2002/03	204.0	1,025,000	100.0%	1,025,000
2003/04	192.0	7,860,000	100.0%	7,860,000
2004/05	180.0	90,000	100.0%	90,000
2005/06	168.0	425,000	100.0%	425,000
2006/07	156.0	0	100.0%	0
2007/08	144.0	300,000	100.0%	300,000
2008/09	132.0	300,000	100.0%	300,000
2009/10	120.0	800,000	100.0%	800,000
2010/11	108.0	0	99.0%	0
2011/12	96.0	1,815,000	97.1%	1,869,813
2012/13	84.0	2,675,000	95.2%	2,810,901
2013/14	72.0	425,000	93.3%	455,524
2014/15	60.0	0	88.9%	0
2015/16	48.0	2,945,000	82.7%	3,562,911
2016/17	36.0	4,050,000	73.5%	5,512,228
2017/18	24.0	100,000	60.0%	166,728
2018/19	12.0	0	37.5%	0
Total		\$36,375,000		\$38,743,104

(3) is from Exhibit MM-Provident-1.

(4) is from Exhibit MM-Provident-2.

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/19 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/19 (6)	Limited Case Reserves 11/30/19 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1999/00	240.0	100.0%	100.0%	100.0%	\$13,020,000	\$0	\$13,020,000
2000/01	228.0	100.0%	100.0%	100.0%	345,000	0	345,000
2001/02	216.0	100.0%	100.0%	100.0%	200,000	0	200,000
2002/03	204.0	100.0%	100.0%	100.0%	1,025,000	0	1,025,000
2003/04	192.0	100.0%	100.0%	100.0%	7,860,000	0	7,860,000
2004/05	180.0	100.0%	100.0%	100.0%	90,000	0	90,000
2005/06	168.0	100.0%	100.0%	100.0%	425,000	0	425,000
2006/07	156.0	100.0%	100.0%	100.0%	0	0	0
2007/08	144.0	100.0%	100.0%	100.0%	300,000	0	300,000
2008/09	132.0	98.0%	100.0%	100.0%	300,000	0	300,000
2009/10	120.0	94.3%	100.0%	100.0%	800,000	0	800,000
2010/11	108.0	89.8%	99.0%	90.3%	0	0	0
2011/12	96.0	80.2%	97.1%	85.2%	1,815,000	0	1,815,000
2012/13	84.0	67.9%	95.2%	84.9%	1,175,000	1,500,000	2,941,302
2013/14	72.0	56.6%	93.3%	84.6%	425,000	0	425,000
2014/15	60.0	28.3%	88.9%	84.5%	0	0	0
2015/16	48.0	10.9%	82.7%	80.5%	2,790,000	155,000	2,982,455
2016/17	36.0	2.2%	73.5%	72.9%	0	4,050,000	5,556,884
2017/18	24.0	0.0%	60.0%	60.0%	0	100,000	166,748
2018/19	12.0	0.0%	37.5%	37.5%	0	0	0
Total					\$30,570,000	\$5,805,000	\$38,252,389

(3) and (4) are from Exhibit MM-Provident-2.

(6) and (7) are from Exhibit MM-Provident-1.

Preliminary Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	Preliminary Projected Ultimate Limited Losses (5)
to 1999/00	\$13,020,000	\$13,020,000	\$13,020,000	\$13,020,000
2000/01	345,000	345,000	345,000	345,000
2001/02	200,000	200,000	200,000	200,000
2002/03	1,025,000	1,025,000	1,025,000	1,025,000
2003/04	7,860,000	7,860,000	7,860,000	7,860,000
2004/05	90,000	90,000	90,000	90,000
2005/06	425,000	425,000	425,000	425,000
2006/07	0	0	0	0
2007/08	300,000	300,000	300,000	300,000
2008/09	306,000	300,000	300,000	300,000
2009/10	848,640	800,000	800,000	800,000
2010/11	0	0	0	0
2011/12	2,264,214	1,869,813	1,815,000	1,815,000
2012/13	1,729,660	2,810,901	2,941,302	2,915,222
2013/14	750,746	455,524	425,000	425,000
2014/15	0	0	0	0
2015/16	25,627,818	3,562,911	2,982,455	5,479,173
2016/17	0	5,512,228	5,556,884	4,455,000
2017/18	0	166,728	166,748	133,390
2018/19	0	0	0	0
Total	\$54,792,078	\$38,743,104	\$38,252,389	\$39,587,786

(2) is from Exhibit MM-Provident-3.

(3) is from Exhibit MM-Provident-4.

(4) is from Exhibit MM-Provident-5.

(5) is based on (2) to (4) and actuarial judgment.

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)	Projected A-priori Loss Rate per Occupied Bed Equivalent (7)/(5) (8)
2009/10	\$800,000	303	\$2,644.29	1.088	\$2,877.12	\$8,823.62
2010/11	0	303	0.00	1.389	0.00	6,913.85
2011/12	1,815,000	293	6,204.30	1.335	8,283.91	7,190.41
2012/13	2,915,222	202	14,402.62	1.298	18,697.50	7,395.27
2013/14	425,000	202	2,099.71	1.253	2,630.49	7,663.33
2014/15	0	176	0.00	1.210	0.00	7,936.60
2015/16	5,479,173	181	30,339.87	1.170	35,493.35	8,206.59
2016/17	4,455,000	185	24,145.27	1.125	27,160.14	8,534.86
2017/18	133,390	167	797.91	1.082	863.02	8,876.25
2018/19	0	172	0.00	1.040	0.00	9,231.30
(7) Projected 2019/20 a-priori loss rate per Occupied Bed Equivalent						\$9,600.55

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Percent Losses Paid (3)	Projected A-priori Loss Rate per Occupied Bed Equivalent (4)	Occupied Bed Equivalents (5)	B-F Unpaid Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Paid Losses (2)+(6) (7)
2014/15	\$0	28.3%	\$7,936.60	176	\$999,279	\$999,279
2015/16	2,790,000	10.9%	8,206.59	181	1,320,709	4,110,709
2016/17	0	2.2%	8,534.86	185	1,540,464	1,540,464
2017/18	0	0.0%	8,876.25	167	1,483,620	1,483,620
2018/19	0	0.0%	9,231.30	172	1,588,232	1,588,232

III. Bornhuetter - Ferguson Analysis Based on Limited Reported Incurred Losses

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Percent Losses Reported (3)	Projected A-priori Loss Rate per Occupied Bed Equivalent (4)	Occupied Bed Equivalents (5)	B-F Unreported Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Reported Losses (2)+(6) (7)
2014/15	\$0	88.9%	\$7,936.60	176	\$155,319	\$155,319
2015/16	2,945,000	82.7%	8,206.59	181	257,031	3,202,031
2016/17	4,050,000	73.5%	8,534.86	185	417,734	4,467,734
2017/18	100,000	60.0%	8,876.25	167	593,883	693,883
2018/19	0	37.5%	9,231.30	172	992,954	992,954

Section I, (2) is from Exhibit MM-Provident-6.

Section I, (3), Section II, (5) and Section III, (5) are from Exhibit MM-Provident-10.

Section I, (5) is based on a 4% trend and adjusted for change in retention.

Section I, (7) is based on Section I, (6) and actuarial judgment.

Sections II and III, (2) are from Exhibit MM-Provident-1.

Sections II and III, (3) are from Exhibit MM-Provident-2.

Sections II and III, (4) are from Section I, (8).

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/19 (2)	Reported Claims 11/30/19 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2009/10	120.0	5	100.0%	5	303	0.02
2010/11	108.0	1	100.0%	1	303	0.00
2011/12	96.0	4	100.0%	4	293	0.01
2012/13	84.0	4	100.0%	4	202	0.02
2013/14	72.0	3	100.0%	3	202	0.01
2014/15	60.0	1	100.0%	1	176	0.01
2015/16	48.0	3	98.5%	3	181	0.02
2016/17	36.0	4	95.2%	4	185	0.02
2017/18	24.0	2	82.8%	2	167	0.01
2018/19	12.0	4	69.0%	6	172	0.03

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2019/20 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2019/20 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2009/10	\$800,000	5	\$160,000	1.088	\$174,088	\$493,094	\$2,465,472
2010/11	0	1	0	1.389	0	386,370	386,370
2011/12	1,815,000	4	453,750	1.335	605,842	401,825	1,607,299
2012/13	2,915,222	4	728,806	1.298	946,136	413,273	1,653,093
2013/14	425,000	3	141,667	1.253	177,479	428,253	1,284,760
2014/15	0	1	0	1.210	0	443,524	443,524
2015/16	5,479,173	3	1,826,391	1.170	2,136,619	458,613	1,375,838
2016/17	4,455,000	4	1,113,750	1.125	1,252,817	476,957	1,907,829
2017/18	133,390	2	66,695	1.082	72,138	496,035	992,071
2018/19	0	6	0	1.040	0	515,877	3,095,261
						(7) Projected 2019/20 average claim severity \$536,512	

Section I, (3) is from Exhibit MM-Provident-1.

Section I, (4) is from Exhibit MM-Provident-2.

Section I, (6) is from Exhibit MM-Provident-10.

Section II, (2) is from Exhibit MM-Provident-6.

Section II, (3) is from Section I, (5).

Section II, (5) is based on a 4% trend and adjusted for change in retention.

Section II, (7) is based on (6) and actuarial judgment.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Exhibit MM-Provident-9

Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	B-F Ultimate Limited Paid Losses (5)	B-F Ultimate Limited Reported Losses (6)	Frequency Times Severity (7)	Prior Projected Ultimate Limited Losses (8)	Projected Ultimate Limited Losses (9)
to 1999/00	\$13,020,000	\$13,020,000	\$13,020,000				\$13,020,000	\$13,020,000
2000/01	345,000	345,000	345,000				345,000	345,000
2001/02	200,000	200,000	200,000				200,000	200,000
2002/03	1,025,000	1,025,000	1,025,000				1,025,000	1,025,000
2003/04	7,860,000	7,860,000	7,860,000				7,860,000	7,860,000
2004/05	90,000	90,000	90,000				90,000	90,000
2005/06	425,000	425,000	425,000				425,000	425,000
2006/07	0	0	0				0	0
2007/08	300,000	300,000	300,000				300,000	300,000
2008/09	306,000	300,000	300,000				300,000	300,000
2009/10	848,640	800,000	800,000				800,000	800,000
2010/11	0	0	0				0	0
2011/12	2,264,214	1,869,813	1,815,000				1,900,000	1,815,000
2012/13	1,729,660	2,810,901	2,941,302				2,900,000	2,900,000
2013/14	750,746	455,524	425,000				500,000	425,000
2014/15	0	0	0	999,279	155,319	443,524	300,000	275,000
2015/16	25,627,818	3,562,911	2,982,455	4,110,709	3,202,031	1,375,838	4,100,000	4,000,000
2016/17	0	5,512,228	5,556,884	1,540,464	4,467,734	1,907,829	900,000	4,500,000
2017/18	0	166,728	166,748	1,483,620	693,883	992,071	1,000,000	1,000,000
2018/19	0	0	0	1,588,232	992,954	3,095,261	1,210,000	1,000,000
Total	\$54,792,078	\$38,743,104	\$38,252,389				\$37,175,000	\$40,280,000
2014/15 - 2018/19	25,627,818	9,241,867	8,706,087	9,722,304	9,511,920	7,814,523	7,510,000	10,775,000
to 2013/14	29,164,260	29,501,237	29,546,302				29,665,000	29,505,000
						Change		
						All years 2014/15 - 2018/19 to 2013/14		\$3,105,000 3,265,000 -160,000

(2) is from Exhibit MM-Provident-3.

(3) is from Exhibit MM-Provident-4.

(4) is from Exhibit MM-Provident-5.

(5) and (6) are from Exhibit MM-Provident-7.

(7) is from Exhibit MM-Provident-8.

(8) is based on (2) to (7) and actuarial judgment.

Projected Ultimate Limited Losses for 2019/20 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2009/10	\$800,000	303	\$2,644.29	1.088	\$2,877.12
2010/11	0	303	0.00	1.389	0.00
2011/12	1,815,000	293	6,204.30	1.335	8,283.91
2012/13	2,900,000	202	14,327.41	1.298	18,599.87
2013/14	425,000	202	2,099.71	1.253	2,630.49
2014/15	275,000	176	1,565.91	1.210	1,894.22
2015/16	4,000,000	181	22,149.23	1.170	25,911.46
2016/17	4,500,000	185	24,389.16	1.125	27,434.49
2017/18	1,000,000	167	5,981.75	1.082	6,469.86
2018/19	1,000,000	172	5,811.78	1.040	6,044.26
Total	\$16,715,000	2,182	\$7,659.02		\$10,014.57

Claim Period (1)	Projected Limited Loss Rate per Occupied Bed Equivalent (7)	Projected Occupied Bed Equivalents (8)	Projected Ultimate Limited Losses (7)X(8) (9)	Present Value Factor (10)	Present Value of Projected Limited Loss Rate per Occupied Bed Equivalent (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11) (12)
2019/20	\$10,014.57	172	\$1,723,000	0.91	\$9,072.41	\$1,561,000
2020/21	10,415.15	172	1,792,000	0.91	9,435.31	1,623,000
2021/22	10,831.76	172	1,864,000	0.91	9,812.72	1,688,000

(2) is from Exhibit MM-Provident-9.

(3) was provided by the County.

(5) is based on a 4% trend and adjusted for change in retention.

(7) 2019/20 is based on (6) and actuarial judgment.
 Other period(s) based on 2019/20 plus a 4% trend.

(8) to 2019/20 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Provident-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Exhibit MM-Provident-11

Estimated Outstanding Losses as of November 30, 2019

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Limited Case Reserves 11/30/19 (3)	Limited Reported Incurred Losses 11/30/19 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/19 (5)-(4) (6)	Estimated Outstanding Losses 11/30/19 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/19 (7)X(8) (9)
to 1999/00	\$13,020,000	\$0	\$13,020,000	\$13,020,000	\$0	\$0	1.00	\$0
2000/01	345,000	0	345,000	345,000	0	0	1.00	0
2001/02	200,000	0	200,000	200,000	0	0	1.00	0
2002/03	1,025,000	0	1,025,000	1,025,000	0	0	1.00	0
2003/04	7,860,000	0	7,860,000	7,860,000	0	0	1.00	0
2004/05	90,000	0	90,000	90,000	0	0	1.00	0
2005/06	425,000	0	425,000	425,000	0	0	1.00	0
2006/07	0	0	0	0	0	0	1.00	0
2007/08	300,000	0	300,000	300,000	0	0	1.00	0
2008/09	300,000	0	300,000	300,000	0	0	0.99	0
2009/10	800,000	0	800,000	800,000	0	0	0.99	0
2010/11	0	0	0	0	0	0	0.98	0
2011/12	1,815,000	0	1,815,000	1,815,000	0	0	0.98	0
2012/13	1,175,000	1,500,000	2,675,000	2,900,000	225,000	1,725,000	0.97	1,679,724
2013/14	425,000	0	425,000	425,000	0	0	0.97	0
2014/15	0	0	0	275,000	275,000	275,000	0.97	266,114
2015/16	2,790,000	155,000	2,945,000	4,000,000	1,055,000	1,210,000	0.96	1,161,738
2016/17	0	4,050,000	4,050,000	4,500,000	450,000	4,500,000	0.95	4,270,943
2017/18	0	100,000	100,000	1,000,000	900,000	1,000,000	0.94	935,312
2018/19	0	0	0	1,000,000	1,000,000	1,000,000	0.92	920,499
Total	\$30,570,000	\$5,805,000	\$36,375,000	\$40,280,000	\$3,905,000	\$9,710,000		\$9,234,330

(2), (3) and (4) are net of specific self-insured retention and aggregate retention.

(5) is from Exhibit MM-Provident-9.

(8) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Provident-2.

Projected Losses Paid December 1, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1999/00	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2010/11	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2011/12	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2012/13	84.0	67.9%	96.0	80.2%	38.1%	1,725,000	657,768	1,067,232	0.98	1,043,726
2013/14	72.0	56.6%	84.0	67.9%	26.1%	0	0	0	0.97	0
2014/15	60.0	28.3%	72.0	56.6%	39.5%	275,000	108,570	166,430	0.97	160,958
2015/16	48.0	10.9%	60.0	28.3%	19.5%	1,210,000	236,513	973,487	0.97	942,032
2016/17	36.0	2.2%	48.0	10.9%	8.9%	4,500,000	400,641	4,099,359	0.96	3,935,852
2017/18	24.0	0.0%	36.0	2.2%	2.2%	1,000,000	21,596	978,404	0.95	928,602
2018/19	12.0	0.0%	24.0	0.0%	0.0%	1,000,000	91	999,909	0.94	935,227
2019/20	0.0	0.0%	12.0	0.0%	0.0%	1,723,000	156	1,722,844	0.92	1,585,876
Total						\$11,433,000	\$1,425,335	\$10,007,665		\$9,532,273

(3) and (5) are from Exhibit MM-Provident-2.

(7) to 2018/19 is from Exhibit MM-Provident-11. The amount for 2019/20 is from Exhibit MM-Provident-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Provident-2.

Projected Losses Paid December 1, 2020 to November 30, 2021

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Months of Development 11/30/21 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/20 to 11/30/21 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/20 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/21 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/21 (9)X(10) (11)
to 1999/00	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2011/12	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2012/13	96.0	80.2%	108.0	89.8%	48.5%	1,067,232	517,444	549,788	0.98	538,937
2013/14	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.98	0
2014/15	72.0	56.6%	84.0	67.9%	26.1%	166,430	43,428	123,002	0.97	119,774
2015/16	60.0	28.3%	72.0	56.6%	39.5%	973,487	384,334	589,153	0.97	569,784
2016/17	48.0	10.9%	60.0	28.3%	19.5%	4,099,359	801,282	3,298,077	0.97	3,191,512
2017/18	36.0	2.2%	48.0	10.9%	8.9%	978,404	87,109	891,295	0.96	855,745
2018/19	24.0	0.0%	36.0	2.2%	2.2%	999,909	21,594	978,315	0.95	928,517
2019/20	12.0	0.0%	24.0	0.0%	0.0%	1,722,844	156	1,722,688	0.94	1,611,251
2020/21	0.0	0.0%	12.0	0.0%	0.0%	1,792,000	163	1,791,837	0.92	1,649,384
Total						\$11,799,665	\$1,855,510	\$9,944,155		\$9,464,904

(3) and (5) are from Exhibit MM-Provident-2.

(7) to 2019/20 is from Exhibit MM-Provident-12, (9). The amount for 2020/21 is from Exhibit MM-Provident-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Provident-2.

Projected Losses Paid December 1, 2021 to November 30, 2022

Claim Period (1)	Months of Development 11/30/21 (2)	Percent Losses Paid (3)	Months of Development 11/30/22 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/21 to 11/30/22 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/21 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/22 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/22 (9)X(10) (11)
to 1999/00	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2012/13	108.0	89.8%	120.0	94.3%	43.9%	549,788	241,474	308,314	0.99	304,204
2013/14	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2014/15	84.0	67.9%	96.0	80.2%	38.1%	123,002	46,902	76,100	0.98	74,424
2015/16	72.0	56.6%	84.0	67.9%	26.1%	589,153	153,733	435,420	0.97	423,992
2016/17	60.0	28.3%	72.0	56.6%	39.5%	3,298,077	1,302,084	1,995,993	0.97	1,930,372
2017/18	48.0	10.9%	60.0	28.3%	19.5%	891,295	174,217	717,078	0.97	693,908
2018/19	36.0	2.2%	48.0	10.9%	8.9%	978,315	87,101	891,214	0.96	855,667
2019/20	24.0	0.0%	36.0	2.2%	2.2%	1,722,688	37,203	1,685,485	0.95	1,599,691
2020/21	12.0	0.0%	24.0	0.0%	0.0%	1,791,837	163	1,791,674	0.94	1,675,775
2021/22	0.0	0.0%	12.0	0.0%	0.0%	1,864,000	169	1,863,831	0.92	1,715,654
Total						\$11,808,155	\$2,043,046	\$9,765,109		\$9,273,687

(3) and (5) are from Exhibit MM-Provident-2.

(7) to 2020/21 is from Exhibit MM-Provident-13, (9). The amount for 2021/22 is from Exhibit MM-Provident-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Provident-2.

List of Large Claims
 Reported Incurred Losses Greater Than \$1,000,000

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/19 (5)	Unlimited Case Reserves 11/30/19 (6)	Unlimited Reported Incurred Losses 11/30/19 (7)
97002199	06/02/97	to 1999/00	Unlimited	\$2,500,000	\$0	\$2,500,000
97002200	09/18/97	to 1999/00	Unlimited	1,000,000	0	1,000,000
97002205	12/18/97	to 1999/00	Unlimited	1,000,000	0	1,000,000
97002437	01/25/98	to 1999/00	Unlimited	1,000,000	0	1,000,000
97002440	04/17/99	to 1999/00	Unlimited	1,250,000	0	1,250,000
97003552	08/08/00	to 1999/00	Unlimited	1,500,000	0	1,500,000
97006011	02/20/04	2003/04	20,000,000	1,500,000	0	1,500,000
97005673	05/18/04	2003/04	20,000,000	2,500,000	0	2,500,000
97005708	07/02/04	2003/04	20,000,000	2,850,000	0	2,850,000
97009704	03/27/12	2011/12	40,000,000	1,450,000	0	1,450,000
97010465	11/05/13	2012/13	30,000,000	0	1,500,000	1,500,000
97012730	12/30/15	2015/16	25,000,000	2,500,000	0	2,500,000
201706973	11/06/17	2016/17	25,000,000	0	4,000,000	4,000,000

Amounts are gross of excess insurance and net of other recoveries.

(1) through (7) were provided by the County.

Size of Loss Distribution

I. Reported Claim Count

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	100	1	0	1	1	4	107		
0.01 - 5,000	2	0	0	0	0	0	2	2	3.7%
5,000 - 10,000	1	0	0	0	0	0	1	3	5.6%
10,000 - 25,000	3	0	0	2	0	0	5	8	14.8%
25,000 - 50,000	3	0	0	0	0	0	3	11	20.4%
50,000 - 100,000	5	0	0	0	1	0	6	17	31.5%
100,000 - 250,000	5	0	1	0	0	0	6	23	42.6%
250,000 - 500,000	10	0	1	0	0	0	11	34	63.0%
500,000 - 750,000	2	0	0	0	0	0	2	36	66.7%
750,000 - 1,000,000	8	0	0	0	0	0	8	44	81.5%
Over 1,000,000	8	0	1	1	0	0	10	54	100.0%
Total	147	1	3	4	2	4	161	54	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
0.01 - 5,000	6,000	0	0	0	0	0	6,000	6,000	0.0%
5,000 - 10,000	10,000	0	0	0	0	0	10,000	16,000	0.0%
10,000 - 25,000	64,000	0	0	50,000	0	0	114,000	130,000	0.4%
25,000 - 50,000	140,000	0	0	0	0	0	140,000	270,000	0.7%
50,000 - 100,000	395,000	0	0	0	100,000	0	495,000	765,000	2.1%
100,000 - 250,000	880,000	0	155,000	0	0	0	1,035,000	1,800,000	4.9%
250,000 - 500,000	3,640,000	0	290,000	0	0	0	3,930,000	5,730,000	15.8%
500,000 - 750,000	1,450,000	0	0	0	0	0	1,450,000	7,180,000	19.7%
750,000 - 1,000,000	7,645,000	0	0	0	0	0	7,645,000	14,825,000	40.8%
Over 1,000,000	15,050,000	0	2,500,000	4,000,000	0	0	21,550,000	36,375,000	100.0%
Total	\$29,280,000	\$0	\$2,945,000	\$4,050,000	\$100,000	\$0	\$36,375,000	\$36,375,000	

Amounts are gross of excess insurance and net of other recoveries.

Data was provided by the County.

Calculation of Occupied Bed Equivalents

Occurrence Period (1)	Inpatients (2)	ER Visits (3)	Other Visits (4)	Other Visits (5)	Other Visits (6)	Physicians (7)	Occupied Bed Equivalents (8)
to 1999/00							
2000/01	71	53,876	59,623	1,646	852	40	280
2001/02	75	52,325	62,898	1,652	950	63	326
2002/03	80	50,888	64,367	2,233	702	66	334
2003/04	78	51,988	50,698	2,371	450	66	329
2004/05	72	50,678	46,053	2,012	925	72	330
2005/06	76	47,949	45,248	1,853	656	69	322
2006/07	60	43,563	36,774	2,053	705	77	309
2007/08	57	40,370	42,204	1,885	604	85	317
2008/09	53	39,647	44,955	1,627	605	136	410
2009/10	45	40,000	49,663	1,505	605	83	303
2010/11	45	40,000	49,663	1,505	605	83	303
2011/12	45	35,000	49,663	1,505	605	83	293
2012/13	25	38,450	49,663	1,505	605	42	202
2013/14	25	38,450	49,663	1,505	605	42	202
2014/15	25	22,650	49,663	1,505	605	45	176
2015/16	25	22,260	49,663	1,505	605	48	181
2016/17	25	29,965	49,663	1,505	605	42	185
2017/18	25	29,155	49,663	1,505	605	33	167
2018/19	25	29,994	49,663	1,505	605	35	172
2019/20	25	29,994	49,663	1,505	605	35	172

(2) through (7) were provided by the County.

The exposures in (2) through (7) are converted to occupied bed equivalents using the following exposure conversion factors, which were published in the Aon/ASHRM Hospital Professional Liability and Physician Liability Benchmark Analysis published in October 2018. The weight for Housestaff is based on actuarial judgement.

Exposure	Conversion Factor
Inpatients	1.000
ER Visits	0.200 per 100
Other Visits	0.040 per 100
Class 1 physician	1.900
Housestaff	0.800 (residents and interns)



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - UNSPECIFIED HOSPITAL / AMBULATORY CARE

Data Summary as of November 30, 2019
 Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Limited Paid Losses 11/30/19 (8)	Limited Case Reserves 11/30/19 (9)	Limited Reported Incurred Losses 11/30/19 (10)
to 1999/00	See Note	None	240.0	Not Provided	115	0	\$44,383,067	\$0	\$44,383,067
2000/01	10,000,000	25,000,000	228.0	Not Provided	3	0	0	0	0
2001/02	15,000,000	50,000,000	216.0	Not Provided	6	0	750,000	0	750,000
2002/03	20,000,000	80,000,000	204.0	Not Provided	8	0	800,000	0	800,000
2003/04	20,000,000	None	192.0	Not Provided	3	0	0	0	0
2004/05	20,000,000	None	180.0	Not Provided	4	0	0	0	0
2005/06	20,000,000	None	168.0	Not Provided	3	0	0	0	0
2006/07	20,000,000	None	156.0	Not Provided	0	0	0	0	0
2007/08	20,000,000	None	144.0	Not Provided	0	0	0	0	0
2008/09	20,000,000	None	132.0	Not Provided	0	0	0	0	0
2009/10	40,000,000	None	120.0	399	0	0	0	0	0
2010/11	40,000,000	None	108.0	399	2	0	0	0	0
2011/12	40,000,000	None	96.0	399	0	0	0	0	0
2012/13	30,000,000	None	84.0	358	1	0	0	0	0
2013/14	30,000,000	None	72.0	358	0	0	0	0	0
2014/15	25,000,000	None	60.0	223	2	1	715	50,000	50,715
2015/16	25,000,000	80,000,000	48.0	220	0	0	0	0	0
2016/17	25,000,000	80,000,000	36.0	222	0	0	0	0	0
2017/18	25,000,000	80,000,000	24.0	281	0	0	0	0	0
2018/19	25,000,000	80,000,000	12.0	313	1	0	0	0	0
Total					148	1	\$45,933,782	\$50,000	\$45,983,782

* The specific self-insured retention changes are as follows:

Effective Date	Retention
12/01/70	Unlimited
12/01/00	10,000,000
12/01/01	15,000,000
12/01/02	20,000,000
03/01/10	40,000,000
03/01/13	30,000,000
07/01/15	25,000,000

(8), (9) and (10) are net of the specific self-insured retention and other recoveries.

Data was provided by the County.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - UNSPECIFIED HOSPITAL / AMBULATORY CARE

Data Summary as of November 30, 2019
 Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Net Unlimited Paid Losses 11/30/19 (8)	Net Unlimited Case Reserves 11/30/19 (9)	Net Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	115	0	\$44,383,067	\$0	\$44,383,067
2000/01	Unlimited	25,000,000	228.0	Not Provided	3	0	0	0	0
2001/02	Unlimited	50,000,000	216.0	Not Provided	6	0	750,000	0	750,000
2002/03	Unlimited	80,000,000	204.0	Not Provided	8	0	800,000	0	800,000
2003/04	Unlimited	None	192.0	Not Provided	3	0	0	0	0
2004/05	Unlimited	None	180.0	Not Provided	4	0	0	0	0
2005/06	Unlimited	None	168.0	Not Provided	3	0	0	0	0
2006/07	Unlimited	None	156.0	Not Provided	0	0	0	0	0
2007/08	Unlimited	None	144.0	Not Provided	0	0	0	0	0
2008/09	Unlimited	None	132.0	Not Provided	0	0	0	0	0
2009/10	Unlimited	None	120.0	399	0	0	0	0	0
2010/11	Unlimited	None	108.0	399	2	0	0	0	0
2011/12	Unlimited	None	96.0	399	0	0	0	0	0
2012/13	Unlimited	None	84.0	358	1	0	0	0	0
2013/14	Unlimited	None	72.0	358	0	0	0	0	0
2014/15	Unlimited	None	60.0	223	2	1	715	50,000	50,715
2015/16	Unlimited	80,000,000	48.0	220	0	0	0	0	0
2016/17	Unlimited	80,000,000	36.0	222	0	0	0	0	0
2017/18	Unlimited	80,000,000	24.0	281	0	0	0	0	0
2018/19	Unlimited	80,000,000	12.0	313	1	0	0	0	0
Total					148	1	\$45,933,782	\$50,000	\$45,983,782

(8), (9) and (10) are gross of the specific self-insured retention and net of other recoveries.

Data was provided by the County.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - UNSPECIFIED HOSPITAL / AMBULATORY CARE

Data Summary as of November 30, 2019
 Gross Unlimited Losses

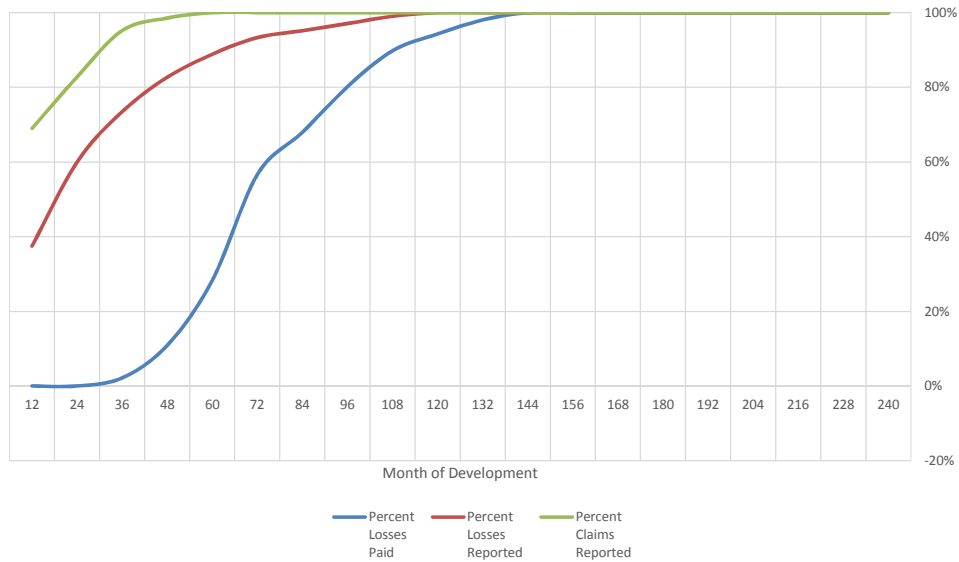
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Gross Unlimited Paid Losses 11/30/19 (8)	Gross Unlimited Case Reserves 11/30/19 (9)	Gross Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	115	0	\$44,383,067	\$0	\$44,383,067
2000/01	Unlimited	25,000,000	228.0	Not Provided	3	0	0	0	0
2001/02	Unlimited	50,000,000	216.0	Not Provided	6	0	750,000	0	750,000
2002/03	Unlimited	80,000,000	204.0	Not Provided	8	0	800,000	0	800,000
2003/04	Unlimited	None	192.0	Not Provided	3	0	0	0	0
2004/05	Unlimited	None	180.0	Not Provided	4	0	0	0	0
2005/06	Unlimited	None	168.0	Not Provided	3	0	0	0	0
2006/07	Unlimited	None	156.0	Not Provided	0	0	0	0	0
2007/08	Unlimited	None	144.0	Not Provided	0	0	0	0	0
2008/09	Unlimited	None	132.0	Not Provided	0	0	0	0	0
2009/10	Unlimited	None	120.0	399	0	0	0	0	0
2010/11	Unlimited	None	108.0	399	2	0	0	0	0
2011/12	Unlimited	None	96.0	399	0	0	0	0	0
2012/13	Unlimited	None	84.0	358	1	0	0	0	0
2013/14	Unlimited	None	72.0	358	0	0	0	0	0
2014/15	Unlimited	None	60.0	223	2	1	715	50,000	50,715
2015/16	Unlimited	80,000,000	48.0	220	0	0	0	0	0
2016/17	Unlimited	80,000,000	36.0	222	0	0	0	0	0
2017/18	Unlimited	80,000,000	24.0	281	0	0	0	0	0
2018/19	Unlimited	80,000,000	12.0	313	1	0	0	0	0
Total					148	1	\$45,933,782	\$50,000	\$45,983,782

(8), (9) and (10) are gross of the specific self-insured retention and other recoveries.

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	98.0%	100.0%	100.0%
120.0	94.3%	100.0%	100.0%
108.0	89.8%	99.0%	100.0%
96.0	80.2%	97.1%	100.0%
84.0	67.9%	95.2%	100.0%
72.0	56.6%	93.3%	100.0%
60.0	28.3%	88.9%	100.0%
48.0	10.9%	82.7%	98.5%
36.0	2.2%	73.5%	95.2%
24.0	0.0%	60.0%	82.8%
12.0	0.0%	37.5%	69.0%



(2) is from Exhibit MM-Unspecified-2 (page 2).

(3) is from Exhibit MM-Unspecified-2 (page 3).

(4) is from Exhibit MM-Unspecified-2 (page 4).

Historical Reported Claims and Reported Claim Development

I. Historical Reported Claims

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																			413	413	413
2000/01																					
2001/02																107	107	107	107	107	
2002/03															111	111	111	111	111	111	
2003/04														161	161	161	161	161	161	161	
2004/05												121	121	121	121	121	121	121	121	121	
2005/06											100	101	101	101	101	101	101	101	101	101	
2006/07										72	73	73	73	73	73	73	73	73	73	73	
2007/08									51	51	51	51	51	51	51	51	51	51	51	51	
2008/09									46	46	46	46	46	46	46	46	46	46	46	46	
2009/10									51	51	51	51	51	51	51	51	51	51	51	51	
2010/11									59	59	60	60	60	60	60	60	60	60	60	60	
2011/12									56	56	57	57	57	57	57	57	57	57	57	57	
2012/13									64	65	65	65	65	65	65	65	65	65	65	65	
2013/14									41	42	42	42	42	42	42	42	42	42	42	42	
2014/15									33	43	45	45	45	45	45	45	45	45	45	45	
2015/16									35	46	53	56	56	56	56	56	56	56	56	56	
2016/17									12	19	25	25	25	25	25	25	25	25	25	25	
2017/18									28	34	34	34	34	34	34	34	34	34	34	34	
2018/19									29	29	29	29	29	29	29	29	29	29	29	29	

II. Reported Claim Development

Claim Period	Months of Development:																				
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult	
to 1999/00																				1.000	1.000
2000/01																					
2001/02																					
2002/03																					
2003/04																					
2004/05																					
2005/06																					
2006/07																					
2007/08																					
2008/09																					
2009/10																					
2010/11																					
2011/12																					
2012/13																					
2013/14																					
2014/15																					
2015/16																					
2016/17																					
2017/18																					
2018/19																					
Average																					
All	1.371	1.257	1.043	1.020	1.000	1.006	1.006	1.000	1.000	1.005	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Wtd 3	1.320	1.235	1.044	1.020	1.000	1.006	1.006	1.000	1.000	1.006	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 3	1.371	1.257	1.043	1.020	1.000	1.006	1.006	1.000	1.000	1.005	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 5																					
x-hi,low																					
Previous	1.200	1.100	1.030	1.010	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
Selected	1.200	1.150	1.035	1.015	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
Cumulative	1.450	1.208	1.051	1.015	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
Percent	69.0%	82.8%	95.2%	98.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Data was provided by the County and is for Cermak, Stroger and Provident combined.

Historical Ratio of Limited Paid Losses and Limited Reported Incurred Losses

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																				100.0%	100.0%
2000/01	0.0%	0.0%	1.9%	6.2%	12.0%	20.8%	30.0%	30.0%	32.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2001/02	0.0%	0.0%	0.1%	37.8%	49.1%	51.3%	96.9%	96.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2002/03	0.0%	0.1%	21.8%	15.0%	39.4%	66.1%	85.9%	93.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2003/04	0.0%	0.0%	0.0%	22.6%	56.0%	63.7%	96.3%	97.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2004/05	0.0%	0.3%	0.5%	24.0%	78.1%	96.1%	100.0%	94.9%	94.9%	100.0%	100.0%	100.0%	66.3%	49.6%	58.5%						
2005/06	0.0%	0.0%	2.3%	2.1%	39.3%	55.1%	71.5%	73.9%	45.3%	92.2%	100.0%	99.0%	96.0%	97.0%							
2006/07	0.0%	0.1%	0.2%	0.5%	42.7%	35.7%	86.7%	100.0%	100.0%	100.0%	100.0%	97.9%	97.9%								
2007/08	0.0%	1.0%	0.7%	19.9%	46.6%	68.9%	77.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%								
2008/09	0.0%	0.0%	25.0%	30.8%	33.0%	44.0%	62.4%	97.0%	100.0%	100.0%	100.0%										
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	100.0%	100.0%	100.0%	100.0%											
2010/11	0.0%	0.0%	0.0%	25.7%	43.6%	48.4%	54.9%	100.0%													
2011/12	0.0%	58.7%	52.2%	61.8%	67.1%	91.1%	97.3%	98.0%													
2012/13	0.0%	7.1%	2.9%	5.9%	9.1%	30.6%	50.7%														
2013/14	0.0%	0.0%	0.0%	14.8%	53.6%	75.9%															
2014/15	0.0%	0.3%	0.3%	0.4%	10.4%																
2015/16	1.7%	30.0%	40.1%	37.2%																	
2016/17	0.0%	0.0%	9.1%																		
2017/18	0.0%	0.0%																			
2018/19	0.0%																				
Average																					
All	0.1%	5.4%	9.3%	19.9%	42.4%	59.4%	77.7%	90.1%	88.4%	99.2%	99.8%	99.6%	94.3%	91.1%	91.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 3		10.0%	16.5%	17.5%	24.4%	65.9%	67.6%	99.3%	100.0%	100.0%	99.3%	99.0%	86.8%	82.2%	86.2%	100.0%	100.0%				
Last 5	0.0%	0.1%	4.1%	19.3%	35.9%	69.5%	71.5%	99.3%	100.0%	100.0%	100.0%	99.7%	98.0%	99.0%	100.0%						
x-hi,low																					
Implicit	0.0%	0.0%	3.0%	13.2%	31.9%	60.7%	71.4%	82.6%	90.7%	94.3%	98.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Prior	0.0%	0.0%	3.0%	13.2%	31.9%	60.7%	71.4%	82.6%	90.7%	94.3%	98.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - UNSPECIFIED HOSPITAL / AMBULATORY CARE

Exhibit MM-Unspecified-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Paid Losses 11/30/19 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1999/00	240.0	\$44,383,067	100.0%	\$44,383,067
2000/01	228.0	0	100.0%	0
2001/02	216.0	750,000	100.0%	750,000
2002/03	204.0	800,000	100.0%	800,000
2003/04	192.0	0	100.0%	0
2004/05	180.0	0	100.0%	0
2005/06	168.0	0	100.0%	0
2006/07	156.0	0	100.0%	0
2007/08	144.0	0	100.0%	0
2008/09	132.0	0	98.0%	0
2009/10	120.0	0	94.3%	0
2010/11	108.0	0	89.8%	0
2011/12	96.0	0	80.2%	0
2012/13	84.0	0	67.9%	0
2013/14	72.0	0	56.6%	0
2014/15	60.0	715	28.3%	2,526
2015/16	48.0	0	10.9%	0
2016/17	36.0	0	2.2%	0
2017/18	24.0	0	0.0%	0
2018/19	12.0	0	0.0%	0
Total		\$45,933,782		\$45,935,593

(3) is from Exhibit MM-Unspecified-1.

(4) is from Exhibit MM-Unspecified-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - UNSPECIFIED HOSPITAL / AMBULATORY CARE

Exhibit MM-Unspecified-4

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1999/00	240.0	\$44,383,067	100.0%	\$44,383,067
2000/01	228.0	0	100.0%	0
2001/02	216.0	750,000	100.0%	750,000
2002/03	204.0	800,000	100.0%	800,000
2003/04	192.0	0	100.0%	0
2004/05	180.0	0	100.0%	0
2005/06	168.0	0	100.0%	0
2006/07	156.0	0	100.0%	0
2007/08	144.0	0	100.0%	0
2008/09	132.0	0	100.0%	0
2009/10	120.0	0	100.0%	0
2010/11	108.0	0	99.0%	0
2011/12	96.0	0	97.1%	0
2012/13	84.0	0	95.2%	0
2013/14	72.0	0	93.3%	0
2014/15	60.0	50,715	88.9%	57,075
2015/16	48.0	0	82.7%	0
2016/17	36.0	0	73.5%	0
2017/18	24.0	0	60.0%	0
2018/19	12.0	0	37.5%	0
Total		\$45,983,782		\$45,990,142

(3) is from Exhibit MM-Unspecified-1.

(4) is from Exhibit MM-Unspecified-2.

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/19 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/19 (6)	Limited Case Reserves 11/30/19 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1999/00	240.0	100.0%	100.0%	100.0%	\$44,383,067	\$0	\$44,383,067
2000/01	228.0	100.0%	100.0%	100.0%	0	0	0
2001/02	216.0	100.0%	100.0%	100.0%	750,000	0	750,000
2002/03	204.0	100.0%	100.0%	100.0%	800,000	0	800,000
2003/04	192.0	100.0%	100.0%	100.0%	0	0	0
2004/05	180.0	100.0%	100.0%	100.0%	0	0	0
2005/06	168.0	100.0%	100.0%	100.0%	0	0	0
2006/07	156.0	100.0%	100.0%	100.0%	0	0	0
2007/08	144.0	100.0%	100.0%	100.0%	0	0	0
2008/09	132.0	98.0%	100.0%	100.0%	0	0	0
2009/10	120.0	94.3%	100.0%	100.0%	0	0	0
2010/11	108.0	89.8%	99.0%	90.3%	0	0	0
2011/12	96.0	80.2%	97.1%	85.2%	0	0	0
2012/13	84.0	67.9%	95.2%	84.9%	0	0	0
2013/14	72.0	56.6%	93.3%	84.6%	0	0	0
2014/15	60.0	28.3%	88.9%	84.5%	715	50,000	59,917
2015/16	48.0	10.9%	82.7%	80.5%	0	0	0
2016/17	36.0	2.2%	73.5%	72.9%	0	0	0
2017/18	24.0	0.0%	60.0%	60.0%	0	0	0
2018/19	12.0	0.0%	37.5%	37.5%	0	0	0
Total					\$45,933,782	\$50,000	\$45,992,984

(3) and (4) are from Exhibit MM-Unspecified-2.

(6) and (7) are from Exhibit MM-Unspecified-1.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - UNSPECIFIED HOSPITAL / AMBULATORY CARE

Exhibit MM-Unspecified-6

Preliminary Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	Preliminary Projected Ultimate Limited Losses (5)
to 1999/00	\$44,383,067	\$44,383,067	\$44,383,067	\$44,383,067
2000/01	0	0	0	0
2001/02	750,000	750,000	750,000	750,000
2002/03	800,000	800,000	800,000	800,000
2003/04	0	0	0	0
2004/05	0	0	0	0
2005/06	0	0	0	0
2006/07	0	0	0	0
2007/08	0	0	0	0
2008/09	0	0	0	0
2009/10	0	0	0	0
2010/11	0	0	0	0
2011/12	0	0	0	0
2012/13	0	0	0	0
2013/14	0	0	0	0
2014/15	2,526	57,075	59,917	58,780
2015/16	0	0	0	0
2016/17	0	0	0	0
2017/18	0	0	0	0
2018/19	0	0	0	0
Total	\$45,935,593	\$45,990,142	\$45,992,984	\$45,991,847

(2) is from Exhibit MM-Unspecified-3.

(3) is from Exhibit MM-Unspecified-4.

(4) is from Exhibit MM-Unspecified-5.

(5) is based on (2) to (4) and actuarial judgment.

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)	Projected A-priori Loss Rate per Occupied Bed Equivalent (7)/(5) (8)
2009/10	\$0	399	\$0.00	1.088	\$0.00	\$29.33
2010/11	0	399	0.00	1.389	0.00	22.99
2011/12	0	399	0.00	1.335	0.00	23.91
2012/13	0	358	0.00	1.298	0.00	24.59
2013/14	0	358	0.00	1.253	0.00	25.48
2014/15	58,780	223	263.86	1.210	319.18	26.39
2015/16	0	220	0.00	1.170	0.00	27.28
2016/17	0	222	0.00	1.125	0.00	28.37
2017/18	0	281	0.00	1.082	0.00	29.51
2018/19	0	313	0.00	1.040	0.00	30.69

(7) Projected 2019/20 a-priori loss rate per Occupied Bed Equivalent \$31.92

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Percent Losses Paid (3)	Projected A-priori Loss Rate per Occupied Bed Equivalent (4)	Occupied Bed Equivalents (5)	B-F Unpaid Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Paid Losses (2)+(6) (7)
2014/15	\$715	28.3%	\$26.39	223	\$4,214	\$4,929
2015/16	0	10.9%	27.28	220	5,349	5,349
2016/17	0	2.2%	28.37	222	6,162	6,162
2017/18	0	0.0%	29.51	281	8,280	8,280
2018/19	0	0.0%	30.69	313	9,598	9,598

III. Bornhuetter - Ferguson Analysis Based on Limited Reported Incurred Losses

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Percent Losses Reported (3)	Projected A-priori Loss Rate per Occupied Bed Equivalent (4)	Occupied Bed Equivalents (5)	B-F Unreported Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Reported Losses (2)+(6) (7)
2014/15	\$50,715	88.9%	\$26.39	223	\$655	\$51,370
2015/16	0	82.7%	27.28	220	1,041	1,041
2016/17	0	73.5%	28.37	222	1,671	1,671
2017/18	0	60.0%	29.51	281	3,315	3,315
2018/19	0	37.5%	30.69	313	6,001	6,001

Section I, (2) is from Exhibit MM-Unspecified-6.

Section I, (3), Section II, (5) and Section III, (5) are from Exhibit MM-Unspecified-10.

Section I, (5) is based on a 4% trend and adjusted for change in retention.

Section I, (7) is based on Section I, (6) and actuarial judgment.

Sections II and III, (2) are from Exhibit MM-Unspecified-1.

Sections II and III, (3) are from Exhibit MM-Unspecified-2.

Sections II and III, (4) are from Section I, (8).



Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/19 (2)	Reported Claims 11/30/19 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2009/10	120.0	0	100.0%	0	399	0.00
2010/11	108.0	2	100.0%	2	399	0.01
2011/12	96.0	0	100.0%	0	399	0.00
2012/13	84.0	1	100.0%	1	358	0.00
2013/14	72.0	0	100.0%	0	358	0.00
2014/15	60.0	2	100.0%	2	223	0.01
2015/16	48.0	0	98.5%	0	220	0.00
2016/17	36.0	0	95.2%	0	222	0.00
2017/18	24.0	0	82.8%	0	281	0.00
2018/19	12.0	1	69.0%	1	313	0.00

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2019/20 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2019/20 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2009/10	\$0	0	\$0	1.088	\$0	\$3,267	\$0
2010/11	0	2	0	1.389	0	2,560	5,121
2011/12	0	0	0	1.335	0	2,663	0
2012/13	0	1	0	1.298	0	2,739	2,739
2013/14	0	0	0	1.253	0	2,838	0
2014/15	58,780	2	29,390	1.210	35,552	2,939	5,878
2015/16	0	0	0	1.170	0	3,039	0
2016/17	0	0	0	1.125	0	3,161	0
2017/18	0	0	0	1.082	0	3,287	0
2018/19	0	1	0	1.040	0	3,418	3,418
			(7) Projected 2019/20 average claim severity		\$3,555		

Section I, (3) is from Exhibit MM-Unspecified-1.

Section I, (4) is from Exhibit MM-Unspecified-2.

Section I, (6) is from Exhibit MM-Unspecified-10.

Section II, (2) is from Exhibit MM-Unspecified-6.

Section II, (3) is from Section I, (5).

Section II, (5) is based on a 4% trend and adjusted for change in retention.

Section II, (7) is based on (6) and actuarial judgment.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - UNSPECIFIED HOSPITAL / AMBULATORY CARE

Exhibit MM-Unspecified-9

Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	B-F Ultimate Limited Paid Losses (5)	B-F Ultimate Limited Reported Losses (6)	Frequency Times Severity (7)	Prior Projected Ultimate Limited Losses (8)	Projected Ultimate Limited Losses (9)
to 1999/00	\$44,383,067	\$44,383,067	\$44,383,067				\$44,383,067	\$44,383,067
2000/01	0	0	0					0
2001/02	750,000	750,000	750,000				750,000	750,000
2002/03	800,000	800,000	800,000				800,000	800,000
2003/04	0	0	0					0
2004/05	0	0	0					0
2005/06	0	0	0					0
2006/07	0	0	0					0
2007/08	0	0	0					0
2008/09	0	0	0					0
2009/10	0	0	0					0
2010/11	0	0	0					0
2011/12	0	0	0					0
2012/13	0	0	0					0
2013/14	0	0	0					0
2014/15	2,526	57,075	59,917	4,929	51,370	5,878	100,000	75,000
2015/16	0	0	0	5,349	1,041		10,000	7,500
2016/17	0	0	0	6,162	1,671		15,000	10,000
2017/18	0	0	0	8,280	3,315		20,000	15,000
2018/19	0	0	0	9,598	6,001	3,418	20,000	20,000
Total	\$45,935,593	\$45,990,142	\$45,992,984				\$46,098,067	\$46,060,567
2014/15 - 2018/19	2,526	57,075	59,917	34,319	63,397	9,296	165,000	127,500
to 2013/14	45,933,067	45,933,067	45,933,067				45,933,067	45,933,067
						Change		
						All years 2014/15 - 2018/19 to 2013/14		-\$37,500
								-37,500
								0

(2) is from Exhibit MM-Unspecified-3.

(3) is from Exhibit MM-Unspecified-4.

(4) is from Exhibit MM-Unspecified-5.

(5) and (6) are from Exhibit MM-Unspecified-7.

(7) is from Exhibit MM-Unspecified-8.

(8) is based on (2) to (7) and actuarial judgment.

Projected Ultimate Limited Losses for 2019/20 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2009/10	\$0	399	\$0.00	1.088	\$0.00
2010/11	0	399	0.00	1.389	0.00
2011/12	0	399	0.00	1.335	0.00
2012/13	0	358	0.00	1.298	0.00
2013/14	0	358	0.00	1.253	0.00
2014/15	75,000	223	336.67	1.210	407.25
2015/16	7,500	220	34.09	1.170	39.88
2016/17	10,000	222	45.04	1.125	50.67
2017/18	15,000	281	53.45	1.082	57.81
2018/19	20,000	313	63.95	1.040	66.50
Total	\$127,500	3,171	\$40.21		\$62.21

Claim Period (1)	Projected Limited Loss Rate per Occupied Bed Equivalent (7)	Projected Occupied Bed Equivalents (8)	Projected Ultimate Limited Losses (7)X(8) (9)	Present Value Factor (10)	Present Value of Projected Limited Loss Rate per Occupied Bed Equivalent (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11) (12)
2019/20	\$62.21	313	\$19,000	0.91	\$56.36	\$18,000
2020/21	64.70	313	20,000	0.91	58.61	18,000
2021/22	67.29	313	21,000	0.91	60.96	19,000

(2) is from Exhibit MM-Unspecified-9.

(3) was provided by the County.

(5) is based on a 4% trend and adjusted for change in retention.

(7) 2019/20 is based on (6) and actuarial judgment.
 Other period(s) based on 2019/20 plus a 4% trend.

(8) to 2019/20 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Unspecified-2.



COOK COUNTY, ILLINOIS
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Exhibit MM-Unspecified-11

Estimated Outstanding Losses as of November 30, 2019

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Limited Case Reserves 11/30/19 (3)	Limited Reported Incurred Losses 11/30/19 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/19 (5)-(4) (6)	Estimated Outstanding Losses 11/30/19 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/19 (7)X(8) (9)
to 1999/00	\$44,383,067	\$0	\$44,383,067	\$44,383,067	\$0	\$0	1.00	\$0
2000/01	0	0	0	0	0	0	1.00	0
2001/02	750,000	0	750,000	750,000	0	0	1.00	0
2002/03	800,000	0	800,000	800,000	0	0	1.00	0
2003/04	0	0	0	0	0	0	1.00	0
2004/05	0	0	0	0	0	0	1.00	0
2005/06	0	0	0	0	0	0	1.00	0
2006/07	0	0	0	0	0	0	1.00	0
2007/08	0	0	0	0	0	0	1.00	0
2008/09	0	0	0	0	0	0	0.99	0
2009/10	0	0	0	0	0	0	0.99	0
2010/11	0	0	0	0	0	0	0.98	0
2011/12	0	0	0	0	0	0	0.98	0
2012/13	0	0	0	0	0	0	0.97	0
2013/14	0	0	0	0	0	0	0.97	0
2014/15	715	50,000	50,715	75,000	24,285	74,285	0.97	71,885
2015/16	0	0	0	7,500	7,500	7,500	0.96	7,201
2016/17	0	0	0	10,000	10,000	10,000	0.95	9,491
2017/18	0	0	0	15,000	15,000	15,000	0.94	14,030
2018/19	0	0	0	20,000	20,000	20,000	0.92	18,410
Total	\$45,933,782	\$50,000	\$45,983,782	\$46,060,567	\$76,785	\$126,785		\$121,017

(2), (3) and (4) are net of specific self-insured retention and aggregate retention.

(5) is from Exhibit MM-Unspecified-9.

(8) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Unspecified-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - UNSPECIFIED HOSPITAL / AMBULATORY CARE

Exhibit MM-Unspecified-12

Projected Losses Paid December 1, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1999/00	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2010/11	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2011/12	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2012/13	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.98	0
2013/14	72.0	56.6%	84.0	67.9%	26.1%	0	0	0	0.97	0
2014/15	60.0	28.3%	72.0	56.6%	39.5%	74,285	29,328	44,957	0.97	43,479
2015/16	48.0	10.9%	60.0	28.3%	19.5%	7,500	1,466	6,034	0.97	5,839
2016/17	36.0	2.2%	48.0	10.9%	8.9%	10,000	890	9,110	0.96	8,747
2017/18	24.0	0.0%	36.0	2.2%	2.2%	15,000	324	14,676	0.95	13,929
2018/19	12.0	0.0%	24.0	0.0%	0.0%	20,000	2	19,998	0.94	18,704
2019/20	0.0	0.0%	12.0	0.0%	0.0%	19,000	2	18,998	0.92	17,488
Total						\$145,785	\$32,012	\$113,773		\$108,186

(3) and (5) are from Exhibit MM-Unspecified-2.

(7) to 2018/19 is from Exhibit MM-Unspecified-11. The amount for 2019/20 is from Exhibit MM-Unspecified-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Unspecified-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - UNSPECIFIED HOSPITAL / AMBULATORY CARE

Exhibit MM-Unspecified-13

Projected Losses Paid December 1, 2020 to November 30, 2021

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Months of Development 11/30/21 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/20 to 11/30/21 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/20 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/21 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/21 (9)X(10) (11)
to 1999/00	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2011/12	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2012/13	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2013/14	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.98	0
2014/15	72.0	56.6%	84.0	67.9%	26.1%	44,957	11,731	33,226	0.97	32,354
2015/16	60.0	28.3%	72.0	56.6%	39.5%	6,034	2,382	3,652	0.97	3,532
2016/17	48.0	10.9%	60.0	28.3%	19.5%	9,110	1,781	7,329	0.97	7,092
2017/18	36.0	2.2%	48.0	10.9%	8.9%	14,676	1,307	13,369	0.96	12,836
2018/19	24.0	0.0%	36.0	2.2%	2.2%	19,998	432	19,566	0.95	18,570
2019/20	12.0	0.0%	24.0	0.0%	0.0%	18,998	2	18,996	0.94	17,767
2020/21	0.0	0.0%	12.0	0.0%	0.0%	20,000	2	19,998	0.92	18,408
Total						\$133,773	\$17,637	\$116,136		\$110,559

(3) and (5) are from Exhibit MM-Unspecified-2.

(7) to 2019/20 is from Exhibit MM-Unspecified-12, (9). The amount for 2020/21 is from Exhibit MM-Unspecified-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Unspecified-2.



COOK COUNTY, ILLINOIS
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Exhibit MM-Unspecified-14

Projected Losses Paid December 1, 2021 to November 30, 2022

Claim Period (1)	Months of Development 11/30/21 (2)	Percent Losses Paid (3)	Months of Development 11/30/22 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/21 to 11/30/22 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/21 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/22 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/22 (9)X(10) (11)
to 1999/00	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2012/13	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2013/14	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2014/15	84.0	67.9%	96.0	80.2%	38.1%	33,226	12,670	20,556	0.98	20,103
2015/16	72.0	56.6%	84.0	67.9%	26.1%	3,652	953	2,699	0.97	2,628
2016/17	60.0	28.3%	72.0	56.6%	39.5%	7,329	2,893	4,436	0.97	4,290
2017/18	48.0	10.9%	60.0	28.3%	19.5%	13,369	2,613	10,756	0.97	10,408
2018/19	36.0	2.2%	48.0	10.9%	8.9%	19,566	1,742	17,824	0.96	17,113
2019/20	24.0	0.0%	36.0	2.2%	2.2%	18,996	410	18,586	0.95	17,640
2020/21	12.0	0.0%	24.0	0.0%	0.0%	19,998	2	19,996	0.94	18,703
2021/22	0.0	0.0%	12.0	0.0%	0.0%	21,000	2	20,998	0.92	19,329
Total						\$137,136	\$21,285	\$115,851		\$110,214

(3) and (5) are from Exhibit MM-Unspecified-2.

(7) to 2020/21 is from Exhibit MM-Unspecified-13, (9). The amount for 2021/22 is from Exhibit MM-Unspecified-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit MM-Unspecified-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - UNSPECIFIED HOSPITAL / AMBULATORY CARE

Exhibit MM-Unspecified-15

List of Large Claims
 Reported Incurred Losses Greater Than \$1,000,000

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/19 (5)	Unlimited Case Reserves 11/30/19 (6)	Unlimited Reported Incurred Losses 11/30/19 (7)
94000157	05/15/78	to 1999/00	Unlimited	\$2,575,459	\$0	\$2,575,459
94000147	12/12/81	to 1999/00	Unlimited	5,000,000	0	5,000,000
94000146	09/01/87	to 1999/00	Unlimited	1,155,901	0	1,155,901
94000156	01/13/88	to 1999/00	Unlimited	4,000,000	0	4,000,000
94000042	04/22/88	to 1999/00	Unlimited	1,500,000	0	1,500,000
94000145	01/14/89	to 1999/00	Unlimited	2,750,000	0	2,750,000
94000096	02/01/90	to 1999/00	Unlimited	2,500,000	0	2,500,000
94000080	08/29/90	to 1999/00	Unlimited	6,500,000	0	6,500,000
94000026	03/25/91	to 1999/00	Unlimited	3,500,000	0	3,500,000
97002717	09/01/98	to 1999/00	Unlimited	8,500,000	0	8,500,000

Amounts are gross of excess insurance and net of other recoveries.

(1) through (7) were provided by the County.

Size of Loss Distribution

I. Reported Claim Count

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	98	0	0	0	0	1	99		
0.01 - 5,000	2	1	0	0	0	0	3	3	6.1%
5,000 - 10,000	3	0	0	0	0	0	3	6	12.2%
10,000 - 25,000	4	0	0	0	0	0	4	10	20.4%
25,000 - 50,000	1	1	0	0	0	0	2	12	24.5%
50,000 - 100,000	7	0	0	0	0	0	7	19	38.8%
100,000 - 250,000	10	0	0	0	0	0	10	29	59.2%
250,000 - 500,000	6	0	0	0	0	0	6	35	71.4%
500,000 - 750,000	3	0	0	0	0	0	3	38	77.6%
750,000 - 1,000,000	1	0	0	0	0	0	1	39	79.6%
Over 1,000,000	10	0	0	0	0	0	10	49	100.0%
Total	145	2	0	0	0	1	148	49	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
0.01 - 5,000	6,500	715	0	0	0	0	7,215	7,215	0.0%
5,000 - 10,000	25,207	0	0	0	0	0	25,207	32,422	0.1%
10,000 - 25,000	82,000	0	0	0	0	0	82,000	114,422	0.2%
25,000 - 50,000	35,000	50,000	0	0	0	0	85,000	199,422	0.4%
50,000 - 100,000	548,000	0	0	0	0	0	548,000	747,422	1.6%
100,000 - 250,000	1,975,000	0	0	0	0	0	1,975,000	2,722,422	5.9%
250,000 - 500,000	2,305,000	0	0	0	0	0	2,305,000	5,027,422	10.9%
500,000 - 750,000	2,175,000	0	0	0	0	0	2,175,000	7,202,422	15.7%
750,000 - 1,000,000	800,000	0	0	0	0	0	800,000	8,002,422	17.4%
Over 1,000,000	37,981,360	0	0	0	0	0	37,981,360	45,983,782	100.0%
Total	\$45,933,067	\$50,715	\$0	\$0	\$0	\$0	\$45,983,782	\$45,983,782	

Amounts are gross of excess insurance and net of other recoveries.

Data was provided by the County.

CookCounty_MM_Unspecified_113019.xlsx

Calculation of Occupied Bed Equivalents

Occurrence Period (1)	Inpatients (2)	ER Visits (3)	Other Visits (4)	Other Visits (5)	Other Visits (6)	Physicians (7)	Occupied Bed Equivalents (8)
to 1999/00							
2000/01							0
2001/02							0
2002/03							0
2003/04							0
2004/05							0
2005/06							0
2006/07							0
2007/08							0
2008/09							0
2009/10			750,000			52	399
2010/11			750,000			52	399
2011/12			750,000			52	399
2012/13			620,000			58	358
2013/14			620,000			58	358
2014/15			411,102			31	223
2015/16			399,120			32	220
2016/17			334,779			46	222
2017/18			474,293			48	281
2018/19			554,569			48	313
2019/20			554,569			48	313

(2) through (7) were provided by the County.

The exposures in (2) through (7) are converted to occupied bed equivalents using the following exposure conversion factors, which were published in the Aon/ASHRM Hospital Professional Liability and Physician Liability Benchmark Analysis published in October 2018. The weight for Housestaff is based on actuarial judgement.

Exposure	Conversion Factor
Inpatients	1.000
ER Visits	0.200 per 100
Other Visits	0.040 per 100
Class 1 physician	1.900
Housestaff	0.800 (residents and interns)



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)

Exhibit WC-Gov-Indem-1 (page 1)

Data Summary as of November 30, 2019
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Payroll (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Limited Paid Losses 11/30/19 (8)	Limited Case Reserves 11/30/19 (9)	Limited Reported Incurred Losses 11/30/19 (10)
to 1999/00	See Note	None	240.0	Not Provided	16,302	12	\$77,087,102	\$1,824,176	\$78,911,277
2000/01	9,500,000	40,000,000	228.0	719,952	1,183	3	8,334,030	434,594	8,768,624
2001/02	9,500,000	40,000,000	216.0	752,457	1,161	1	8,325,726	679,551	9,005,276
2002/03	9,500,000	45,000,000	204.0	779,098	1,223	2	8,244,993	148,241	8,393,234
2003/04	Unlimited	None	192.0	810,182	1,218	4	8,154,639	638,938	8,793,577
2004/05	Unlimited	None	180.0	832,363	1,318	5	8,485,150	669,837	9,154,987
2005/06	Unlimited	None	168.0	826,479	1,159	2	9,054,549	76,127	9,130,677
2006/07	Unlimited	None	156.0	859,906	903	5	11,591,659	286,145	11,877,804
2007/08	Unlimited	None	144.0	914,260	777	7	16,884,297	541,369	17,425,666
2008/09	Unlimited	None	132.0	942,707	767	8	13,975,911	494,821	14,470,732
2009/10	Unlimited	None	120.0	998,250	862	18	12,687,873	1,053,243	13,741,116
2010/11	Unlimited	None	108.0	928,082	789	14	10,691,520	1,054,779	11,746,299
2011/12	Unlimited	None	96.0	899,082	783	24	12,542,535	759,640	13,302,175
2012/13	Unlimited	None	84.0	949,338	720	29	9,844,881	2,686,873	12,531,753
2013/14	Unlimited	None	72.0	988,081	760	50	11,726,539	2,864,722	14,591,261
2014/15	Unlimited	None	60.0	998,567	778	71	13,515,378	3,808,399	17,323,777
2015/16	Unlimited	None	48.0	1,053,931	1,109	149	17,855,223	6,230,461	24,085,685
2016/17	Unlimited	None	36.0	1,075,248	1,238	183	15,478,451	7,795,528	23,273,979
2017/18	Unlimited	None	24.0	1,006,546	1,086	270	12,256,170	11,018,472	23,274,642
2018/19	Unlimited	None	12.0	1,038,161	1,020	561	5,270,287	14,106,818	19,377,105
Total					35,156	1,418	\$292,006,913	\$57,172,733	\$349,179,646

* The specific self-insured retention changes are as follows:

Effective Date	Retention
12/01/77	Unlimited
12/01/00	9,500,000
12/01/03	Unlimited

(8), (9) and (10) are net of the specific self-insured retention and other recoveries.

Data was provided by the County.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)

Data Summary as of November 30, 2019
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Payroll (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Net Unlimited Paid Losses 11/30/19 (8)	Net Unlimited Case Reserves 11/30/19 (9)	Net Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	16,302	12	\$77,087,102	\$1,824,176	\$78,911,277
2000/01	Unlimited	40,000,000	228.0	719,952	1,183	3	8,334,030	434,594	8,768,624
2001/02	Unlimited	40,000,000	216.0	752,457	1,161	1	8,325,726	679,551	9,005,276
2002/03	Unlimited	45,000,000	204.0	779,098	1,223	2	8,244,993	148,241	8,393,234
2003/04	Unlimited	None	192.0	810,182	1,218	4	8,154,639	638,938	8,793,577
2004/05	Unlimited	None	180.0	832,363	1,318	5	8,485,150	669,837	9,154,987
2005/06	Unlimited	None	168.0	826,479	1,159	2	9,054,549	76,127	9,130,677
2006/07	Unlimited	None	156.0	859,906	903	5	11,591,659	286,145	11,877,804
2007/08	Unlimited	None	144.0	914,260	777	7	16,884,297	541,369	17,425,666
2008/09	Unlimited	None	132.0	942,707	767	8	13,975,911	494,821	14,470,732
2009/10	Unlimited	None	120.0	998,250	862	18	12,687,873	1,053,243	13,741,116
2010/11	Unlimited	None	108.0	928,082	789	14	10,691,520	1,054,779	11,746,299
2011/12	Unlimited	None	96.0	899,082	783	24	12,542,535	759,640	13,302,175
2012/13	Unlimited	None	84.0	949,338	720	29	9,844,881	2,686,873	12,531,753
2013/14	Unlimited	None	72.0	988,081	760	50	11,726,539	2,864,722	14,591,261
2014/15	Unlimited	None	60.0	998,567	778	71	13,515,378	3,808,399	17,323,777
2015/16	Unlimited	None	48.0	1,053,931	1,109	149	17,855,223	6,230,461	24,085,685
2016/17	Unlimited	None	36.0	1,075,248	1,238	183	15,478,451	7,795,528	23,273,979
2017/18	Unlimited	None	24.0	1,006,546	1,086	270	12,256,170	11,018,472	23,274,642
2018/19	Unlimited	None	12.0	1,038,161	1,020	561	5,270,287	14,106,818	19,377,105
Total					35,156	1,418	\$292,006,913	\$57,172,733	\$349,179,646

(8), (9) and (10) are gross of the specific self-insured retention and net of other recoveries.

Data was provided by the County.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)

Exhibit WC-Gov-Indem-1 (page 3)

Data Summary as of November 30, 2019
Gross Unlimited Losses

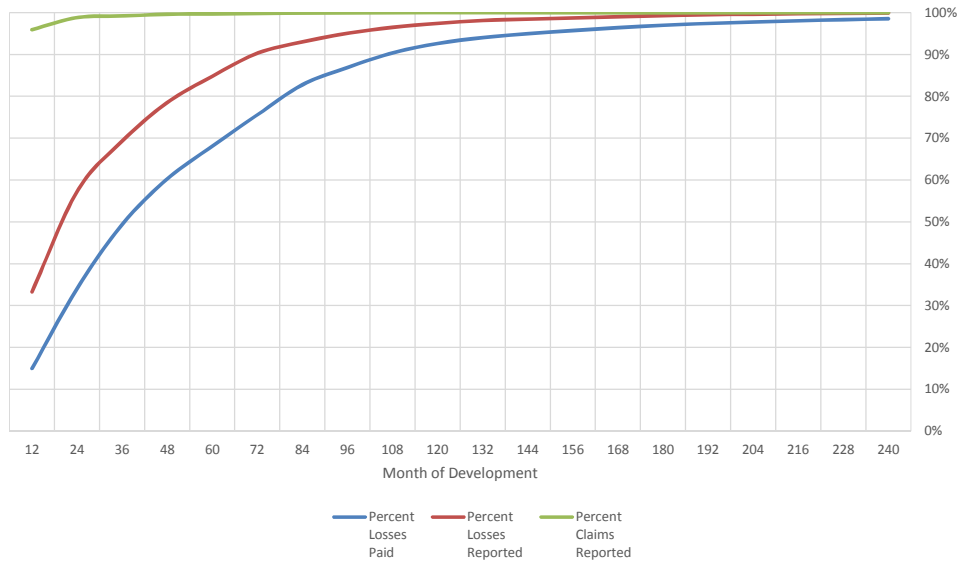
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Payroll (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Gross Unlimited Paid Losses 11/30/19 (8)	Gross Unlimited Case Reserves 11/30/19 (9)	Gross Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	16,302	12	\$77,549,004	\$1,824,176	\$79,373,179
2000/01	Unlimited	40,000,000	228.0	719,952	1,183	3	8,339,643	434,594	8,774,237
2001/02	Unlimited	40,000,000	216.0	752,457	1,161	1	8,407,826	679,551	9,087,377
2002/03	Unlimited	45,000,000	204.0	779,098	1,223	2	8,274,423	148,241	8,422,664
2003/04	Unlimited	None	192.0	810,182	1,218	4	8,248,768	638,938	8,887,706
2004/05	Unlimited	None	180.0	832,363	1,318	5	8,591,861	669,837	9,261,698
2005/06	Unlimited	None	168.0	826,479	1,159	2	9,072,562	76,127	9,148,690
2006/07	Unlimited	None	156.0	859,906	903	5	11,635,745	286,145	11,921,890
2007/08	Unlimited	None	144.0	914,260	777	7	17,028,530	541,369	17,569,899
2008/09	Unlimited	None	132.0	942,707	767	8	14,000,516	494,821	14,495,337
2009/10	Unlimited	None	120.0	998,250	862	18	12,689,465	1,053,243	13,742,708
2010/11	Unlimited	None	108.0	928,082	789	14	10,721,813	1,054,779	11,776,591
2011/12	Unlimited	None	96.0	899,082	783	24	12,693,479	759,640	13,453,119
2012/13	Unlimited	None	84.0	949,338	720	29	9,860,946	2,686,873	12,547,819
2013/14	Unlimited	None	72.0	988,081	760	50	11,813,626	2,864,722	14,678,348
2014/15	Unlimited	None	60.0	998,567	778	71	13,574,068	3,808,399	17,382,467
2015/16	Unlimited	None	48.0	1,053,931	1,109	149	17,987,532	6,230,461	24,217,993
2016/17	Unlimited	None	36.0	1,075,248	1,238	183	15,522,156	7,795,528	23,317,684
2017/18	Unlimited	None	24.0	1,006,546	1,086	270	12,360,224	11,018,472	23,378,696
2018/19	Unlimited	None	12.0	1,038,161	1,020	561	5,270,690	14,106,818	19,377,508
Total					35,156	1,418	\$293,642,877	\$57,172,733	\$350,815,610

(8), (9) and (10) are gross of the specific self-insured retention and other recoveries.

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	99.9%	100.0%	100.0%
336.0	99.9%	100.0%	100.0%
324.0	99.9%	100.0%	100.0%
312.0	99.8%	100.0%	100.0%
300.0	99.8%	100.0%	100.0%
288.0	99.6%	100.0%	100.0%
276.0	99.5%	100.0%	100.0%
264.0	99.3%	100.0%	100.0%
252.0	99.0%	100.0%	100.0%
240.0	98.5%	99.9%	100.0%
228.0	98.3%	99.8%	100.0%
216.0	98.0%	99.7%	100.0%
204.0	97.7%	99.6%	100.0%
192.0	97.4%	99.5%	100.0%
180.0	97.0%	99.3%	100.0%
168.0	96.4%	99.0%	100.0%
156.0	95.7%	98.7%	100.0%
144.0	95.0%	98.4%	100.0%
132.0	94.0%	98.1%	100.0%
120.0	92.6%	97.4%	100.0%
108.0	90.4%	96.5%	100.0%
96.0	86.9%	95.0%	100.0%
84.0	82.8%	93.0%	99.9%
72.0	75.6%	90.3%	99.8%
60.0	68.1%	84.8%	99.7%
48.0	60.3%	78.5%	99.6%
36.0	49.4%	69.3%	99.2%
24.0	34.1%	57.3%	98.8%
12.0	15.0%	33.3%	95.9%



(2) is from Exhibit WC-Gov-Indem-2 (page 2).

(3) is from Exhibit WC-Gov-Indem-2 (page 3).

(4) is from Exhibit WC-Gov-Indem-2 (page 4).

COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)

Historical Ratio of Unlimited Paid Losses and Unlimited Reported Incurred Losses

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00													88.0%	90.1%	83.4%	87.7%	97.6%	98.2%	98.1%	98.3%	97.7%
2000/01						71.9%	72.0%	75.7%	94.9%	95.4%	99.0%	98.5%	99.2%	90.1%	91.5%	92.9%	94.1%	94.6%	95.0%		
2001/02					73.9%	74.4%	77.8%	95.0%	95.3%	98.5%	95.8%	96.1%	85.8%	86.1%	89.9%	92.0%	92.4%	92.5%			
2002/03				60.7%	61.4%	62.9%	95.9%	94.2%	99.8%	99.2%	99.3%	92.1%	95.2%	96.0%	96.5%	95.4%	98.2%				
2003/04			52.5%	57.3%	63.8%	94.2%	93.1%	95.5%	91.6%	92.6%	86.5%	87.1%	90.6%	91.5%	95.3%	92.8%					
2004/05		47.6%	50.4%	56.8%	88.0%	90.0%	94.7%	95.2%	95.5%	95.5%	92.5%	93.7%	96.6%	94.2%	92.8%						
2005/06	43.7%	54.4%	59.2%	87.7%	90.6%	96.8%	97.8%	98.1%	95.2%	96.8%	96.7%	98.3%	99.0%	99.2%							
2006/07	46.4%	58.6%	85.1%	89.3%	97.7%	96.4%	96.0%	90.0%	90.1%	94.3%	93.8%	96.4%	97.6%								
2007/08	45.9%	69.7%	81.2%	97.1%	93.5%	95.4%	87.2%	88.9%	95.7%	96.9%	95.6%	96.9%									
2008/09	53.5%	68.1%	91.7%	93.1%	95.4%	77.7%	85.8%	90.2%	93.9%	95.9%	96.6%										
2009/10	52.1%	87.8%	91.0%	96.2%	75.6%	76.3%	85.2%	89.0%	91.1%	92.3%											
2010/11	65.5%	87.3%	95.7%	73.4%	80.5%	87.7%	88.4%	89.2%	91.0%												
2011/12	64.3%	66.8%	59.1%	63.2%	77.6%	84.2%	90.6%	94.4%													
2012/13	53.6%	45.4%	61.5%	77.6%	81.1%	82.6%	78.6%														
2013/14	40.3%	51.6%	67.7%	77.5%	83.7%	80.5%															
2014/15	41.2%	65.9%	72.7%	75.3%	78.1%																
2015/16	47.7%	55.5%	68.5%	74.3%																	
2016/17	33.6%	59.1%	66.6%																		
2017/18	32.3%	52.9%																			
2018/19	27.2%																				
Average																					
All	46.2%	62.2%	71.6%	77.1%	81.5%	83.6%	87.9%	91.3%	94.0%	95.7%	95.1%	94.1%	94.3%	91.5%	92.3%	94.1%	95.7%	95.1%	96.7%	97.7%	
Last 3	31.1%	55.8%	69.3%	75.7%	81.0%	82.4%	85.9%	90.8%	92.0%	95.0%	95.3%	97.2%	97.7%	95.0%	94.8%	93.4%	94.9%	95.1%			
Last 5	35.7%	55.8%	67.6%	75.7%	79.9%	82.4%	86.5%	89.4%	92.0%	95.7%	95.3%	95.7%	96.4%	93.9%	93.2%	93.7%					
x-hi,low																					
Implicit	45.0%	59.5%	71.3%	76.8%	80.3%	83.7%	89.0%	91.4%	93.7%	95.1%	95.8%	96.5%	97.0%	97.4%	97.6%	97.9%	98.1%	98.3%	98.5%	98.6%	
Prior	45.7%	58.8%	70.0%	75.7%	81.0%	84.4%	90.1%	92.6%	94.7%	96.1%	96.8%	97.2%	97.3%	97.6%	97.8%	98.0%	98.2%	98.4%	98.5%	98.6%	



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)

Exhibit WC-Gov-Indem-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Paid Losses 11/30/19 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1999/00	240.0	\$77,087,102	98.5%	\$78,243,408
2000/01	228.0	8,334,030	98.3%	8,475,958
2001/02	216.0	8,325,726	98.0%	8,492,915
2002/03	204.0	8,244,993	97.7%	8,435,794
2003/04	192.0	8,154,639	97.4%	8,368,379
2004/05	180.0	8,485,150	97.0%	8,751,090
2005/06	168.0	9,054,549	96.4%	9,394,365
2006/07	156.0	11,591,659	95.7%	12,110,879
2007/08	144.0	16,884,297	95.0%	17,781,713
2008/09	132.0	13,975,911	94.0%	14,865,930
2009/10	120.0	12,687,873	92.6%	13,698,305
2010/11	108.0	10,691,520	90.4%	11,831,542
2011/12	96.0	12,542,535	86.9%	14,435,125
2012/13	84.0	9,844,881	82.8%	11,896,932
2013/14	72.0	11,726,539	75.6%	15,517,026
2014/15	60.0	13,515,378	68.1%	19,851,340
2015/16	48.0	17,855,223	60.3%	29,635,029
2016/17	36.0	15,478,451	49.4%	31,342,049
2017/18	24.0	12,256,170	34.1%	35,985,096
2018/19	12.0	5,270,287	15.0%	35,203,317
Total		\$292,006,913		\$394,316,193

(3) is from Exhibit WC-Gov-Indem-1.

(4) is from Exhibit WC-Gov-Indem-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)

Exhibit WC-Gov-Indem-4

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1999/00	240.0	\$78,911,277	99.9%	\$78,990,189
2000/01	228.0	8,768,624	99.8%	8,786,170
2001/02	216.0	9,005,276	99.7%	9,032,319
2002/03	204.0	8,393,234	99.6%	8,426,858
2003/04	192.0	8,793,577	99.5%	8,837,633
2004/05	180.0	9,154,987	99.3%	9,219,255
2005/06	168.0	9,130,677	99.0%	9,222,359
2006/07	156.0	11,877,804	98.7%	12,033,061
2007/08	144.0	17,425,666	98.4%	17,706,401
2008/09	132.0	14,470,732	98.1%	14,747,973
2009/10	120.0	13,741,116	97.4%	14,102,409
2010/11	108.0	11,746,299	96.5%	12,175,694
2011/12	96.0	13,302,175	95.0%	13,995,273
2012/13	84.0	12,531,753	93.0%	13,474,773
2013/14	72.0	14,591,261	90.3%	16,159,937
2014/15	60.0	17,323,777	84.8%	20,433,325
2015/16	48.0	24,085,685	78.5%	30,681,685
2016/17	36.0	23,273,979	69.3%	33,590,832
2017/18	24.0	23,274,642	57.3%	40,646,065
2018/19	12.0	19,377,105	33.3%	58,204,001
Total		\$349,179,646		\$430,466,211

(3) is from Exhibit WC-Gov-Indem-1.

(4) is from Exhibit WC-Gov-Indem-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)

Exhibit WC-Gov-Indem-5

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/19 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/19 (6)	Limited Case Reserves 11/30/19 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1999/00	240.0	98.5%	99.9%	93.2%	\$77,087,102	\$1,824,176	\$79,043,530
2000/01	228.0	98.3%	99.8%	88.1%	8,334,030	434,594	8,827,472
2001/02	216.0	98.0%	99.7%	84.8%	8,325,726	679,551	9,127,168
2002/03	204.0	97.7%	99.6%	82.4%	8,244,993	148,241	8,424,987
2003/04	192.0	97.4%	99.5%	80.5%	8,154,639	638,938	8,948,524
2004/05	180.0	97.0%	99.3%	77.1%	8,485,150	669,837	9,354,382
2005/06	168.0	96.4%	99.0%	72.5%	9,054,549	76,127	9,159,528
2006/07	156.0	95.7%	98.7%	69.9%	11,591,659	286,145	12,000,995
2007/08	144.0	95.0%	98.4%	68.6%	16,884,297	541,369	17,673,645
2008/09	132.0	94.0%	98.1%	68.6%	13,975,911	494,821	14,697,215
2009/10	120.0	92.6%	97.4%	65.3%	12,687,873	1,053,243	14,301,586
2010/11	108.0	90.4%	96.5%	63.4%	10,691,520	1,054,779	12,355,232
2011/12	96.0	86.9%	95.0%	62.2%	12,542,535	759,640	13,763,285
2012/13	84.0	82.8%	93.0%	59.4%	9,844,881	2,686,873	14,366,244
2013/14	72.0	75.6%	90.3%	60.3%	11,726,539	2,864,722	16,480,325
2014/15	60.0	68.1%	84.8%	52.3%	13,515,378	3,808,399	20,794,416
2015/16	48.0	60.3%	78.5%	45.9%	17,855,223	6,230,461	31,424,479
2016/17	36.0	49.4%	69.3%	39.3%	15,478,451	7,795,528	35,304,775
2017/18	24.0	34.1%	57.3%	35.2%	12,256,170	11,018,472	43,570,124
2018/19	12.0	15.0%	33.3%	21.5%	5,270,287	14,106,818	70,742,021
Total					\$292,006,913	\$57,172,733	\$450,359,934

(3) and (4) are from Exhibit WC-Gov-Indem-2.

(6) and (7) are from Exhibit WC-Gov-Indem-1.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)

Exhibit WC-Gov-Indem-6

Preliminary Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	Preliminary Projected Ultimate Limited Losses (5)
to 1999/00	\$78,243,408	\$78,990,189	\$79,043,530	\$79,093,695
2000/01	8,475,958	8,786,170	8,827,472	8,812,083
2001/02	8,492,915	9,032,319	9,127,168	9,073,231
2002/03	8,435,794	8,426,858	8,424,987	8,435,794
2003/04	8,368,379	8,837,633	8,948,524	8,857,471
2004/05	8,751,090	9,219,255	9,354,382	9,221,971
2005/06	9,394,365	9,222,359	9,159,528	9,394,365
2006/07	12,110,879	12,033,061	12,000,995	12,110,879
2007/08	17,781,713	17,706,401	17,673,645	17,781,713
2008/09	14,865,930	14,747,973	14,697,215	14,865,930
2009/10	13,698,305	14,102,409	14,301,586	14,102,409
2010/11	11,831,542	12,175,694	12,355,232	11,851,776
2011/12	14,435,125	13,995,273	13,763,285	14,435,125
2012/13	11,896,932	13,474,773	14,366,244	13,474,773
2013/14	15,517,026	16,159,937	16,480,325	15,517,026
2014/15	19,851,340	20,433,325	20,794,416	19,851,340
2015/16	29,635,029	30,681,685	31,424,479	29,635,029
2016/17	31,342,049	33,590,832	35,304,775	31,342,049
2017/18	35,985,096	40,646,065	43,570,124	35,985,096
2018/19	35,203,317	58,204,001	70,742,021	35,203,317
Total	\$394,316,193	\$430,466,211	\$450,359,934	\$399,045,073

(2) is from Exhibit WC-Gov-Indem-3.

(3) is from Exhibit WC-Gov-Indem-4.

(4) is from Exhibit WC-Gov-Indem-5.

(5) is based on (2) to (4) and actuarial judgment.

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Payroll (000) (3)	Limited Loss Rate per \$100 of Payroll (2)/(3)/10 (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)	Projected A-priori Loss Rate per \$100 of Payroll (7)/(5) (8)
2009/10	\$14,102,409	\$998,250	\$1.41	1.152	\$1.63	\$2.05
2010/11	11,851,776	928,082	1.28	1.143	1.46	2.07
2011/12	14,435,125	899,082	1.61	1.147	1.84	2.06
2012/13	13,474,773	949,338	1.42	1.129	1.60	2.09
2013/14	15,517,026	988,081	1.57	1.110	1.74	2.13
2014/15	19,851,340	998,567	1.99	1.090	2.17	2.17
2015/16	29,635,029	1,053,931	2.81	1.067	3.00	2.21
2016/17	31,342,049	1,075,248	2.91	1.048	3.06	2.25
2017/18	35,985,096	1,006,546	3.58	1.031	3.69	2.29
2018/19	35,203,317	1,038,161	3.39	1.015	3.44	2.33

(7) Projected 2019/20 a-priori loss rate per \$100 of Payroll \$2.36

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Percent Losses Paid (3)	Projected A-priori Loss Rate per \$100 of Payroll (4)	Payroll (000) (5)	B-F Unpaid Losses [100.0%-(3)] X(4)X(5)X10 (6)	B-F Ultimate Limited Paid Losses (2)+(6) (7)
2014/15	\$13,515,378	68.1%	\$2.17	\$998,567	\$6,908,991	\$20,424,369
2015/16	17,855,223	60.3%	2.21	1,053,931	9,273,146	27,128,369
2016/17	15,478,451	49.4%	2.25	1,075,248	12,264,799	27,743,249
2017/18	12,256,170	34.1%	2.29	1,006,546	15,203,138	27,459,307
2018/19	5,270,287	15.0%	2.33	1,038,161	20,547,601	25,817,888

III. Bornhuetter - Ferguson Analysis Based on Limited Reported Incurred Losses

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Percent Losses Reported (3)	Projected A-priori Loss Rate per \$100 of Payroll (4)	Payroll (000) (5)	B-F Unreported Losses [100.0%-(3)] X(4)X(5)X10 (6)	B-F Ultimate Limited Reported Losses (2)+(6) (7)
2014/15	\$17,323,777	84.8%	\$2.17	\$998,567	\$3,294,201	\$20,617,978
2015/16	24,085,685	78.5%	2.21	1,053,931	5,015,287	29,100,972
2016/17	23,273,979	69.3%	2.25	1,075,248	7,442,393	30,716,372
2017/18	23,274,642	57.3%	2.29	1,006,546	9,853,594	33,128,237
2018/19	19,377,105	33.3%	2.33	1,038,161	16,120,328	35,497,433

Section I, (2) is from Exhibit WC-Gov-Indem-6.

Section I, (3), Section II, (5) and Section III, (5) are from Exhibit WC-Gov-Indem-10.

Section I, (5) is from Exhibit WC-Gov-Indem-15.

Section I, (7) is based on Section I, (6) and actuarial judgment.

Sections II and III, (2) are from Exhibit WC-Gov-Indem-1.

Sections II and III, (3) are from Exhibit WC-Gov-Indem-2.

Sections II and III, (4) are from Section I, (8).

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/19 (2)	Reported Claims 11/30/19 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2009/10	120.0	862	100.0%	862	\$998,250	0.86
2010/11	108.0	789	100.0%	789	928,082	0.85
2011/12	96.0	783	100.0%	783	899,082	0.87
2012/13	84.0	720	99.9%	721	949,338	0.76
2013/14	72.0	760	99.8%	762	988,081	0.77
2014/15	60.0	778	99.7%	780	998,567	0.78
2015/16	48.0	1,109	99.6%	1,113	1,053,931	1.06
2016/17	36.0	1,238	99.2%	1,248	1,075,248	1.16
2017/18	24.0	1,086	98.8%	1,099	1,006,546	1.09
2018/19	12.0	1,020	95.9%	1,063	1,038,161	1.02

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2019/20 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2019/20 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2009/10	\$14,102,409	862	\$16,360	1.548	\$25,326	\$18,786	\$16,193,200
2010/11	11,851,776	789	15,021	1.491	22,395	19,505	15,389,578
2011/12	14,435,125	783	18,436	1.453	26,785	20,015	15,672,021
2012/13	13,474,773	721	18,689	1.388	25,940	20,951	15,105,959
2013/14	15,517,026	762	20,364	1.326	26,992	21,939	16,717,588
2014/15	19,851,340	780	25,450	1.263	32,156	23,016	17,952,633
2015/16	29,635,029	1,113	26,626	1.201	31,987	24,207	26,942,230
2016/17	31,342,049	1,248	25,114	1.146	28,770	25,385	31,680,018
2017/18	35,985,096	1,099	32,743	1.094	35,830	26,575	29,206,014
2018/19	35,203,317	1,063	33,117	1.045	34,622	27,816	29,568,559
						(7) Projected 2019/20 average claim severity \$29,080	

Section I, (3) is from Exhibit WC-Gov-Indem-1.

Section I, (4) is from Exhibit WC-Gov-Indem-2.

Section I, (6) is from Exhibit WC-Gov-Indem-10.

Section II, (2) is from Exhibit WC-Gov-Indem-6.

Section II, (3) is from Section I, (5).

Section II, (5) is from Exhibit WC-Gov-Indem-15.

Section II, (7) is based on (6) and actuarial judgment.

Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	B-F Ultimate Limited Paid Losses (5)	B-F Ultimate Limited Reported Losses (6)	Frequency Times Severity (7)	Prior Projected Ultimate Limited Losses (8)	Projected Ultimate Limited Losses (9)
to 1999/00	\$78,243,408	\$78,990,189	\$79,043,530				\$77,892,000	\$79,020,000
2000/01	8,475,958	8,786,170	8,827,472				8,859,000	8,812,083
2001/02	8,492,915	9,032,319	9,127,168				9,137,000	9,080,000
2002/03	8,435,794	8,426,858	8,424,987				8,719,000	8,431,000
2003/04	8,368,379	8,837,633	8,948,524				8,612,000	8,893,000
2004/05	8,751,090	9,219,255	9,354,382				9,068,000	9,287,000
2005/06	9,394,365	9,222,359	9,159,528				8,902,000	9,308,000
2006/07	12,110,879	12,033,061	12,000,995				12,043,000	12,072,000
2007/08	17,781,713	17,706,401	17,673,645				17,834,000	17,744,000
2008/09	14,865,930	14,747,973	14,697,215				14,320,000	14,807,000
2009/10	13,698,305	14,102,409	14,301,586				14,010,000	14,202,000
2010/11	11,831,542	12,175,694	12,355,232				11,974,000	12,135,000
2011/12	14,435,125	13,995,273	13,763,285				13,946,000	14,215,000
2012/13	11,896,932	13,474,773	14,366,244				12,301,000	13,921,000
2013/14	15,517,026	16,159,937	16,480,325				14,462,000	15,838,000
2014/15	19,851,340	20,433,325	20,794,416	20,424,369	20,617,978	17,952,633	20,191,000	20,521,000
2015/16	29,635,029	30,681,685	31,424,479	27,128,369	29,100,972	26,942,230	27,000,000	28,115,000
2016/17	31,342,049	33,590,832	35,304,775	27,743,249	30,716,372	31,680,018	29,250,000	29,527,000
2017/18	35,985,096	40,646,065	43,570,124	27,459,307	33,128,237	29,206,014	29,500,000	29,727,000
2018/19	35,203,317	58,204,001	70,742,021	25,817,888	35,497,433	29,568,559	27,601,000	33,078,000
Total	\$394,316,193	\$430,466,211	\$450,359,934				\$375,621,000	\$388,733,083
2014/15 - 2018/19	152,016,831	183,555,907	201,835,816	128,573,183	149,060,991	135,349,453	133,542,000	140,968,000
to 2013/14	242,299,362	246,910,304	248,524,118				242,079,000	247,765,083
						Change		
						All years 2014/15 - 2018/19 to 2013/14		\$13,112,083 7,426,000 5,686,083

(2) is from Exhibit WC-Gov-Indem-3.

(3) is from Exhibit WC-Gov-Indem-4.

(4) is from Exhibit WC-Gov-Indem-5.

(5) and (6) are from Exhibit WC-Gov-Indem-7.

(7) is from Exhibit WC-Gov-Indem-8.

(8) is based on (2) to (7) and actuarial judgment.

Projected Ultimate Limited Losses for 2019/20 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Payroll (000) (3)	Limited Loss Rate per \$100 of Payroll (2)/(3)/10 (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2009/10	\$14,202,000	\$998,250	\$1.42	1.152	\$1.64
2010/11	12,135,000	928,082	1.31	1.143	1.49
2011/12	14,215,000	899,082	1.58	1.147	1.81
2012/13	13,921,000	949,338	1.47	1.129	1.65
2013/14	15,838,000	988,081	1.60	1.110	1.78
2014/15	20,521,000	998,567	2.06	1.090	2.24
2015/16	28,115,000	1,053,931	2.67	1.067	2.85
2016/17	29,527,000	1,075,248	2.75	1.048	2.88
2017/18	29,727,000	1,006,546	2.95	1.031	3.05
2018/19	33,078,000	1,038,161	3.19	1.015	3.23
Total	\$211,279,000	\$9,935,287	\$2.13		\$2.26

Claim Period (1)	Projected Limited Loss Rate per \$100 of Payroll (7)	Projected Payroll (000) (8)	Projected Ultimate Limited Losses (7)X(8)X10 (9)	Present Value Factor (10)	Present Value of Projected Limited Loss Rate per \$100 of Payroll (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11)X10 (12)
2019/20	\$2.75	\$1,053,919	\$29,015,000	0.94	\$2.58	\$27,143,000
2020/21	2.79	1,053,919	29,450,000	0.94	2.61	27,550,000
2021/22	2.84	1,053,919	29,892,000	0.94	2.65	27,964,000

(2) is from Exhibit WC-Gov-Indem-9.

(3) was provided by the County.

(5) is from Exhibit WC-Gov-Indem-15.

(7) 2019/20 is based on (6) and actuarial judgment.
Other period(s) based on 2019/20 plus the trend in Exhibit WC-Gov-Indem-15.

(8) to 2019/20 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-Gov-Indem-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)

Exhibit WC-Gov-Indem-11

Estimated Outstanding Losses as of November 30, 2019

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Limited Case Reserves 11/30/19 (3)	Limited Reported Incurred Losses 11/30/19 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/19 (5)-(4) (6)	Estimated Outstanding Losses 11/30/19 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/19 (7)X(8) (9)
to 1999/00	\$77,087,102	\$1,824,176	\$78,911,277	\$79,020,000	\$108,723	\$1,932,899	0.96	\$1,850,805
2000/01	8,334,030	434,594	8,768,624	8,812,083	43,459	478,053	0.95	453,286
2001/02	8,325,726	679,551	9,005,276	9,080,000	74,724	754,275	0.94	710,500
2002/03	8,244,993	148,241	8,393,234	8,431,000	37,766	186,007	0.94	174,003
2003/04	8,154,639	638,938	8,793,577	8,893,000	99,423	738,361	0.93	685,801
2004/05	8,485,150	669,837	9,154,987	9,287,000	132,013	801,850	0.93	742,941
2005/06	9,054,549	76,127	9,130,677	9,308,000	177,323	253,450	0.92	234,359
2006/07	11,591,659	286,145	11,877,804	12,072,000	194,196	480,341	0.92	443,278
2007/08	16,884,297	541,369	17,425,666	17,744,000	318,334	859,703	0.92	791,645
2008/09	13,975,911	494,821	14,470,732	14,807,000	336,268	831,089	0.92	764,368
2009/10	12,687,873	1,053,243	13,741,116	14,202,000	460,884	1,514,127	0.92	1,395,288
2010/11	10,691,520	1,054,779	11,746,299	12,135,000	388,701	1,443,480	0.93	1,337,922
2011/12	12,542,535	759,640	13,302,175	14,215,000	912,825	1,672,465	0.93	1,561,005
2012/13	9,844,881	2,686,873	12,531,753	13,921,000	1,389,247	4,076,120	0.94	3,816,036
2013/14	11,726,539	2,864,722	14,591,261	15,838,000	1,246,739	4,111,461	0.94	3,873,547
2014/15	13,515,378	3,808,399	17,323,777	20,521,000	3,197,223	7,005,622	0.94	6,602,240
2015/16	17,855,223	6,230,461	24,085,685	28,115,000	4,029,315	10,259,776	0.94	9,646,331
2016/17	15,478,451	7,795,528	23,273,979	29,527,000	6,253,021	14,048,549	0.94	13,200,528
2017/18	12,256,170	11,018,472	23,274,642	29,727,000	6,452,358	17,470,830	0.94	16,429,392
2018/19	5,270,287	14,106,818	19,377,105	33,078,000	13,700,895	27,807,713	0.94	26,151,226
Total	\$292,006,913	\$57,172,733	\$349,179,646	\$388,733,083	\$39,553,437	\$96,726,171		\$90,864,501

(2), (3) and (4) are net of specific self-insured retention and aggregate retention.

(5) is from Exhibit WC-Gov-Indem-9.

(8) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-Gov-Indem-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)

Exhibit WC-Gov-Indem-12

Projected Losses Paid December 1, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1999/00	240.0	98.5%	252.0	99.0%	30.0%	\$1,932,899	\$579,870	\$1,353,029	0.96	\$1,296,083
2000/01	228.0	98.3%	240.0	98.5%	11.7%	478,053	56,142	421,911	0.96	403,992
2001/02	216.0	98.0%	228.0	98.3%	14.9%	754,275	112,684	641,591	0.95	608,351
2002/03	204.0	97.7%	216.0	98.0%	13.0%	186,007	24,114	161,893	0.94	152,497
2003/04	192.0	97.4%	204.0	97.7%	11.4%	738,361	84,510	653,851	0.94	611,655
2004/05	180.0	97.0%	192.0	97.4%	16.0%	801,850	127,920	673,930	0.93	625,957
2005/06	168.0	96.4%	180.0	97.0%	16.0%	253,450	40,520	212,930	0.93	197,287
2006/07	156.0	95.7%	168.0	96.4%	15.6%	480,341	75,066	405,275	0.92	374,747
2007/08	144.0	95.0%	156.0	95.7%	15.1%	859,703	129,398	730,305	0.92	673,955
2008/09	132.0	94.0%	144.0	95.0%	15.7%	831,089	130,505	700,584	0.92	645,123
2009/10	120.0	92.6%	132.0	94.0%	18.8%	1,514,127	285,191	1,228,936	0.92	1,130,275
2010/11	108.0	90.4%	120.0	92.6%	23.4%	1,443,480	338,436	1,105,044	0.92	1,018,313
2011/12	96.0	86.9%	108.0	90.4%	26.5%	1,672,465	443,349	1,229,116	0.93	1,139,234
2012/13	84.0	82.8%	96.0	86.9%	24.0%	4,076,120	977,776	3,098,344	0.93	2,891,858
2013/14	72.0	75.6%	84.0	82.8%	29.4%	4,111,461	1,208,355	2,903,106	0.94	2,717,868
2014/15	60.0	68.1%	72.0	75.6%	23.5%	7,005,622	1,643,823	5,361,799	0.94	5,051,533
2015/16	48.0	60.3%	60.0	68.1%	19.7%	10,259,776	2,021,661	8,238,115	0.94	7,763,766
2016/17	36.0	49.4%	48.0	60.3%	21.5%	14,048,549	3,015,643	11,032,906	0.94	10,373,235
2017/18	24.0	34.1%	36.0	49.4%	23.2%	17,470,830	4,060,717	13,410,113	0.94	12,600,630
2018/19	12.0	15.0%	24.0	34.1%	22.4%	27,807,713	6,242,507	21,565,206	0.94	20,279,702
2019/20	0.0	0.0%	12.0	15.0%	15.0%	29,015,000	4,343,835	24,671,165	0.94	23,201,520
Total						\$125,741,171	\$25,942,022	\$99,799,149		\$93,757,581

(3) and (5) are from Exhibit WC-Gov-Indem-2.

(7) to 2018/19 is from Exhibit WC-Gov-Indem-11. The amount for 2019/20 is from Exhibit WC-Gov-Indem-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-Gov-Indem-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)

Exhibit WC-Gov-Indem-13

Projected Losses Paid December 1, 2020 to November 30, 2021

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Months of Development 11/30/21 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/20 to 11/30/21 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/20 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/21 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/21 (9)X(10) (11)
to 1999/00	252.0	99.0%	264.0	99.3%	30.0%	\$1,353,029	\$405,909	\$947,120	0.96	\$907,787
2000/01	240.0	98.5%	252.0	99.0%	30.0%	421,911	126,573	295,338	0.96	282,908
2001/02	228.0	98.3%	240.0	98.5%	11.7%	641,591	75,348	566,243	0.96	542,193
2002/03	216.0	98.0%	228.0	98.3%	14.9%	161,893	24,186	137,707	0.95	130,573
2003/04	204.0	97.7%	216.0	98.0%	13.0%	653,851	84,764	569,087	0.94	536,059
2004/05	192.0	97.4%	204.0	97.7%	11.4%	673,930	77,136	596,794	0.94	558,280
2005/06	180.0	97.0%	192.0	97.4%	16.0%	212,930	33,969	178,961	0.93	166,222
2006/07	168.0	96.4%	180.0	97.0%	16.0%	405,275	64,792	340,483	0.93	315,469
2007/08	156.0	95.7%	168.0	96.4%	15.6%	730,305	114,129	616,176	0.92	569,762
2008/09	144.0	95.0%	156.0	95.7%	15.1%	700,584	105,448	595,136	0.92	549,216
2009/10	132.0	94.0%	144.0	95.0%	15.7%	1,228,936	192,979	1,035,957	0.92	953,946
2010/11	120.0	92.6%	132.0	94.0%	18.8%	1,105,044	208,138	896,906	0.92	824,901
2011/12	108.0	90.4%	120.0	92.6%	23.4%	1,229,116	288,177	940,939	0.92	867,088
2012/13	96.0	86.9%	108.0	90.4%	26.5%	3,098,344	821,331	2,277,013	0.93	2,110,501
2013/14	84.0	82.8%	96.0	86.9%	24.0%	2,903,106	696,394	2,206,712	0.93	2,059,648
2014/15	72.0	75.6%	84.0	82.8%	29.4%	5,361,799	1,575,828	3,785,971	0.94	3,544,400
2015/16	60.0	68.1%	72.0	75.6%	23.5%	8,238,115	1,933,019	6,305,096	0.94	5,940,245
2016/17	48.0	60.3%	60.0	68.1%	19.7%	11,032,906	2,174,004	8,858,902	0.94	8,348,809
2017/18	36.0	49.4%	48.0	60.3%	21.5%	13,410,113	2,878,597	10,531,516	0.94	9,901,823
2018/19	24.0	34.1%	36.0	49.4%	23.2%	21,565,206	5,012,366	16,552,840	0.94	15,553,651
2019/20	12.0	15.0%	24.0	34.1%	22.4%	24,671,165	5,538,389	19,132,776	0.94	17,992,270
2020/21	0.0	0.0%	12.0	15.0%	15.0%	29,450,000	4,408,958	25,041,042	0.94	23,549,364
Total						\$129,249,149	\$26,840,434	\$102,408,715		\$96,205,115

(3) and (5) are from Exhibit WC-Gov-Indem-2.

(7) to 2019/20 is from Exhibit WC-Gov-Indem-12, (9). The amount for 2020/21 is from Exhibit WC-Gov-Indem-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-Gov-Indem-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)

Exhibit WC-Gov-Indem-14

Projected Losses Paid December 1, 2021 to November 30, 2022

Claim Period (1)	Months of Development 11/30/21 (2)	Percent Losses Paid (3)	Months of Development 11/30/22 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/21 to 11/30/22 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/21 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/22 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/22 (9)X(10) (11)
to 1999/00	264.0	99.3%	276.0	99.5%	30.0%	\$947,120	\$284,136	\$662,984	0.96	\$635,988
2000/01	252.0	99.0%	264.0	99.3%	30.0%	295,338	88,601	206,737	0.96	198,151
2001/02	240.0	98.5%	252.0	99.0%	30.0%	566,243	169,873	396,370	0.96	379,688
2002/03	228.0	98.3%	240.0	98.5%	11.7%	137,707	16,172	121,535	0.96	116,373
2003/04	216.0	98.0%	228.0	98.3%	14.9%	569,087	85,018	484,069	0.95	458,990
2004/05	204.0	97.7%	216.0	98.0%	13.0%	596,794	77,367	519,427	0.94	489,281
2005/06	192.0	97.4%	204.0	97.7%	11.4%	178,961	20,483	158,478	0.94	148,251
2006/07	180.0	97.0%	192.0	97.4%	16.0%	340,483	54,318	286,165	0.93	265,795
2007/08	168.0	96.4%	180.0	97.0%	16.0%	616,176	98,510	517,666	0.93	479,635
2008/09	156.0	95.7%	168.0	96.4%	15.6%	595,136	93,005	502,131	0.92	464,307
2009/10	144.0	95.0%	156.0	95.7%	15.1%	1,035,957	155,927	880,030	0.92	812,127
2010/11	132.0	94.0%	144.0	95.0%	15.7%	896,906	140,840	756,066	0.92	696,213
2011/12	120.0	92.6%	132.0	94.0%	18.8%	940,939	177,229	763,710	0.92	702,398
2012/13	108.0	90.4%	120.0	92.6%	23.4%	2,277,013	533,865	1,743,148	0.92	1,606,334
2013/14	96.0	86.9%	108.0	90.4%	26.5%	2,206,712	584,971	1,621,741	0.93	1,503,147
2014/15	84.0	82.8%	96.0	86.9%	24.0%	3,785,971	908,175	2,877,796	0.93	2,686,008
2015/16	72.0	75.6%	84.0	82.8%	29.4%	6,305,096	1,853,063	4,452,033	0.94	4,167,963
2016/17	60.0	68.1%	72.0	75.6%	23.5%	8,858,902	2,078,683	6,780,219	0.94	6,387,875
2017/18	48.0	60.3%	60.0	68.1%	19.7%	10,531,516	2,075,207	8,456,309	0.94	7,969,397
2018/19	36.0	49.4%	48.0	60.3%	21.5%	16,552,840	3,553,211	12,999,629	0.94	12,222,365
2019/20	24.0	34.1%	36.0	49.4%	23.2%	19,132,776	4,447,000	14,685,776	0.94	13,799,290
2020/21	12.0	15.0%	24.0	34.1%	22.4%	25,041,042	5,621,422	19,419,620	0.94	18,262,015
2021/22	0.0	0.0%	12.0	15.0%	15.0%	29,892,000	4,475,130	25,416,870	0.94	23,902,804
Total						\$132,300,715	\$27,592,206	\$104,708,509		\$98,354,395

(3) and (5) are from Exhibit WC-Gov-Indem-2.

(7) to 2020/21 is from Exhibit WC-Gov-Indem-13. (9). The amount for 2021/22 is from Exhibit WC-Gov-Indem-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-Gov-Indem-2.

Loss Rate and Severity Trend

I. Benefit Level Changes

Effective Date (1)	Benefit Level Change (2)	Cumulative Benefit Level Change (3)
01/15/10	1.004	1.004
07/01/10	1.001	1.004
07/15/10	1.002	1.007
06/28/11	0.989	0.996
07/01/11	1.001	0.997
09/01/11	0.983	0.980
01/15/13	1.001	0.981
07/15/13	1.001	0.982
01/15/14	1.001	0.983
01/15/15	1.002	0.985
07/01/15	1.002	0.987
07/15/15	1.002	0.989
01/15/16	1.002	0.991
07/01/16	1.002	0.992
07/15/16	1.002	0.994
07/01/17	1.001	0.995
07/01/18	1.001	0.996
07/15/18	1.001	0.997

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2019/20 = 1.000) (2)	Residual Trend (2019/20 = 1.000) (3)	Retention Index (2019/20 = 1.000) (4)	Loss Rate Trend (2019/20 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2019/20 = 1.000) (6)	Severity Trend (2019/20 = 1.000) (5)X(6) (7)
2009/10	0.993	1.161	1.000	1.152	1.344	1.548
2010/11	0.999	1.143	1.000	1.143	1.305	1.491
2011/12	1.018	1.126	1.000	1.147	1.267	1.453
2012/13	1.017	1.110	1.000	1.129	1.230	1.388
2013/14	1.015	1.093	1.000	1.110	1.194	1.326
2014/15	1.012	1.077	1.000	1.090	1.159	1.263
2015/16	1.006	1.061	1.000	1.067	1.126	1.201
2016/17	1.003	1.046	1.000	1.048	1.093	1.146
2017/18	1.001	1.030	1.000	1.031	1.061	1.094
2018/19	1.000	1.015	1.000	1.015	1.030	1.045
2019/20	1.000	1.000	1.000	1.000	1.000	1.000
2020/21	1.000	0.985	1.000	0.985	0.971	0.957
2021/22	1.000	0.971	1.000	0.971	0.943	0.915

Section I, (2) and (3) reflect data published by the NCCI.

Section II, (2) is based on Section I, (2).

Section II, (3) is based on 1.5% trend per actuarial judgment.

Section II, (4) is based on industry statistics and actuarial judgment.

Section II, (6) is based on 3% trend.



COOK COUNTY, ILLINOIS
 WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)

Exhibit WC-Gov-Indem-16

List of Large Claims
 Reported Incurred Losses Greater Than \$1,000,000

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/19 (5)	Unlimited Case Reserves 11/30/19 (6)	Unlimited Reported Incurred Losses 11/30/19 (7)
981246	08/07/98	to 1999/00	Unlimited	\$618,389	\$915,945	\$1,534,333
20020274	01/24/02	2001/02	9,500,000	450,640	679,551	1,130,191
20071070	08/01/07	2006/07	Unlimited	1,531,623	0	1,531,623
20090036	07/01/08	2007/08	Unlimited	2,777,098	0	2,777,098
20090386	07/01/08	2007/08	Unlimited	1,301,369	0	1,301,369
20081090	08/01/08	2007/08	Unlimited	1,219,594	0	1,219,594
20130939	11/20/13	2012/13	Unlimited	342,210	848,400	1,190,610

Amounts are gross of excess insurance and net of other recoveries.

Size of Loss Distribution

I. Reported Claim Count

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	16,462	57	25	69	8	30	16,651		
0.01 - 5,000	8,436	491	704	823	719	622	11,795	11,795	63.7%
5,000 - 10,000	1,363	24	50	38	39	41	1,555	13,350	72.1%
10,000 - 25,000	1,636	56	85	70	55	54	1,956	15,306	82.7%
25,000 - 50,000	949	47	97	79	103	115	1,390	16,696	90.2%
50,000 - 100,000	604	53	79	86	99	117	1,038	17,734	95.8%
100,000 - 250,000	319	40	57	64	54	40	574	18,308	98.9%
250,000 - 500,000	114	8	10	9	9	1	151	18,459	99.8%
500,000 - 750,000	25	2	2	0	0	0	29	18,488	99.9%
750,000 - 1,000,000	10	0	0	0	0	0	10	18,498	100.0%
Over 1,000,000	7	0	0	0	0	0	7	18,505	100.0%
Total	29,925	778	1,109	1,238	1,086	1,020	35,156	18,505	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
0.01 - 5,000	7,480,592	205,077	261,027	342,945	381,161	345,869	9,016,670	9,016,670	2.6%
5,000 - 10,000	10,033,878	177,045	366,915	268,373	286,241	284,596	11,417,048	20,433,718	5.9%
10,000 - 25,000	26,598,563	986,614	1,457,452	1,191,995	952,154	928,069	32,114,848	52,548,566	15.0%
25,000 - 50,000	33,400,732	1,743,133	3,441,214	3,065,512	3,748,835	4,350,527	49,749,953	102,298,520	29.3%
50,000 - 100,000	41,576,008	3,921,078	5,535,759	6,119,335	7,135,175	7,891,377	72,178,732	174,477,251	50.0%
100,000 - 250,000	49,617,167	6,478,583	8,543,985	9,423,819	7,831,259	5,304,798	87,199,610	261,676,862	74.9%
250,000 - 500,000	38,874,617	2,692,776	3,381,856	2,861,999	2,939,817	271,869	51,022,934	312,699,796	89.6%
500,000 - 750,000	14,899,654	1,119,471	1,097,478	0	0	0	17,116,604	329,816,399	94.5%
750,000 - 1,000,000	8,680,487	0	0	0	0	0	8,680,487	338,496,887	96.9%
Over 1,000,000	10,684,819	0	0	0	0	0	10,684,819	349,181,706	100.0%
Total	\$241,846,518	\$17,323,777	\$24,085,685	\$23,273,979	\$23,274,642	\$19,377,105	\$349,181,706	\$349,181,706	

Amounts are gross of excess insurance and net of other recoveries.

Data was provided by the County.

CookCounty_WC_Govt_Indem_113019.xlsx



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Exhibit WC-Gov-Med-1 (page 1)

Data Summary as of November 30, 2019
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Payroll (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Limited Paid Losses 11/30/19 (8)	Limited Case Reserves 11/30/19 (9)	Limited Reported Incurred Losses 11/30/19 (10)
to 1999/00	See Note	None	240.0	Not Provided	16,302	12	\$27,332,257	\$281,695	\$27,613,952
2000/01	9,500,000	40,000,000	228.0	719,952	1,183	3	4,443,619	18,476	4,462,095
2001/02	9,500,000	40,000,000	216.0	752,457	1,161	1	4,016,315	24,098	4,040,413
2002/03	9,500,000	45,000,000	204.0	779,098	1,223	2	4,100,394	29,671	4,130,065
2003/04	Unlimited	None	192.0	810,182	1,218	4	3,720,647	86,950	3,807,597
2004/05	Unlimited	None	180.0	832,363	1,318	5	11,641,652	23,805	11,665,456
2005/06	Unlimited	None	168.0	826,479	1,159	2	3,983,736	756	3,984,492
2006/07	Unlimited	None	156.0	859,906	903	5	4,664,167	80,579	4,744,746
2007/08	Unlimited	None	144.0	914,260	777	7	6,065,313	129,819	6,195,132
2008/09	Unlimited	None	132.0	942,707	767	8	6,451,488	132,958	6,584,447
2009/10	Unlimited	None	120.0	998,250	862	18	6,294,139	192,211	6,486,351
2010/11	Unlimited	None	108.0	928,082	789	14	4,649,243	435,306	5,084,548
2011/12	Unlimited	None	96.0	899,082	783	24	4,383,864	282,882	4,666,746
2012/13	Unlimited	None	84.0	949,338	720	29	4,146,333	450,920	4,597,253
2013/14	Unlimited	None	72.0	988,081	760	50	4,461,459	1,966,921	6,428,380
2014/15	Unlimited	None	60.0	998,567	778	71	4,723,147	1,618,474	6,341,620
2015/16	Unlimited	None	48.0	1,053,931	1,109	149	7,874,090	2,471,221	10,345,311
2016/17	Unlimited	None	36.0	1,075,248	1,238	183	7,171,288	3,161,622	10,332,910
2017/18	Unlimited	None	24.0	1,006,546	1,086	270	5,487,905	5,893,646	11,381,551
2018/19	Unlimited	None	12.0	1,038,161	1,020	561	2,084,247	9,903,335	11,987,582
Total					35,156	1,418	\$127,695,305	\$27,185,346	\$154,880,650

* The specific self-insured retention changes are as follows:

Effective Date	Retention
12/01/77	Unlimited
12/01/00	9,500,000
12/01/03	Unlimited

(8), (9) and (10) are net of the specific self-insured retention and other recoveries.

Data was provided by the County.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Data Summary as of November 30, 2019
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Payroll (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Net Unlimited Paid Losses 11/30/19 (8)	Net Unlimited Case Reserves 11/30/19 (9)	Net Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	16,302	12	\$27,332,257	\$281,695	\$27,613,952
2000/01	Unlimited	40,000,000	228.0	719,952	1,183	3	4,443,619	18,476	4,462,095
2001/02	Unlimited	40,000,000	216.0	752,457	1,161	1	4,016,315	24,098	4,040,413
2002/03	Unlimited	45,000,000	204.0	779,098	1,223	2	4,100,394	29,671	4,130,065
2003/04	Unlimited	None	192.0	810,182	1,218	4	3,720,647	86,950	3,807,597
2004/05	Unlimited	None	180.0	832,363	1,318	5	11,641,652	23,805	11,665,456
2005/06	Unlimited	None	168.0	826,479	1,159	2	3,983,736	756	3,984,492
2006/07	Unlimited	None	156.0	859,906	903	5	4,664,167	80,579	4,744,746
2007/08	Unlimited	None	144.0	914,260	777	7	6,065,313	129,819	6,195,132
2008/09	Unlimited	None	132.0	942,707	767	8	6,451,488	132,958	6,584,447
2009/10	Unlimited	None	120.0	998,250	862	18	6,294,139	192,211	6,486,351
2010/11	Unlimited	None	108.0	928,082	789	14	4,649,243	435,306	5,084,548
2011/12	Unlimited	None	96.0	899,082	783	24	4,383,864	282,882	4,666,746
2012/13	Unlimited	None	84.0	949,338	720	29	4,146,333	450,920	4,597,253
2013/14	Unlimited	None	72.0	988,081	760	50	4,461,459	1,966,921	6,428,380
2014/15	Unlimited	None	60.0	998,567	778	71	4,723,147	1,618,474	6,341,620
2015/16	Unlimited	None	48.0	1,053,931	1,109	149	7,874,090	2,471,221	10,345,311
2016/17	Unlimited	None	36.0	1,075,248	1,238	183	7,171,288	3,161,622	10,332,910
2017/18	Unlimited	None	24.0	1,006,546	1,086	270	5,487,905	5,893,646	11,381,551
2018/19	Unlimited	None	12.0	1,038,161	1,020	561	2,084,247	9,903,335	11,987,582
Total					35,156	1,418	\$127,695,305	\$27,185,346	\$154,880,650

(8), (9) and (10) are gross of the specific self-insured retention and net of other recoveries.

Data was provided by the County.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Data Summary as of November 30, 2019
Gross Unlimited Losses

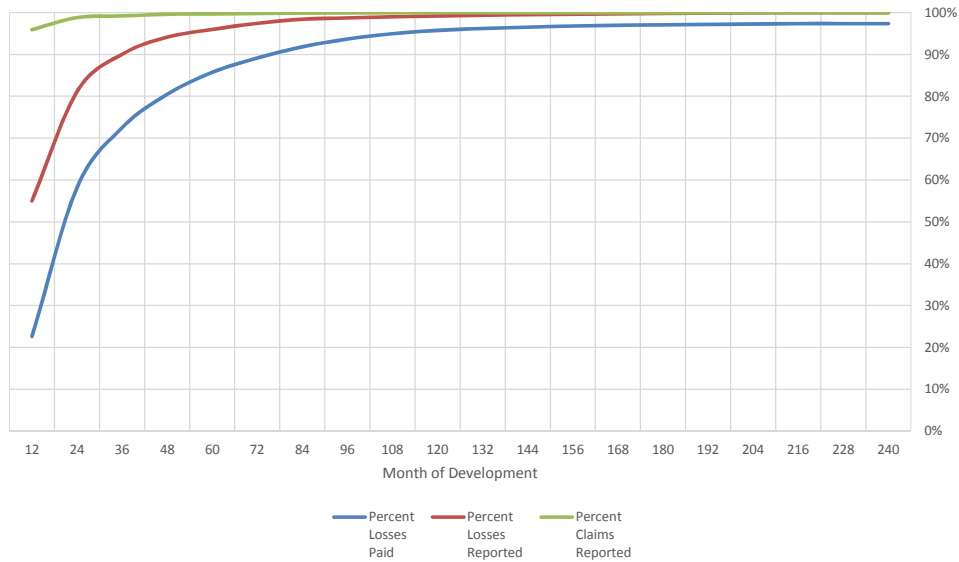
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Payroll (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Gross Unlimited Paid Losses 11/30/19 (8)	Gross Unlimited Case Reserves 11/30/19 (9)	Gross Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	16,302	12	\$27,722,555	\$281,695	\$28,004,251
2000/01	Unlimited	40,000,000	228.0	719,952	1,183	3	4,457,168	18,476	4,475,644
2001/02	Unlimited	40,000,000	216.0	752,457	1,161	1	4,108,700	24,098	4,132,798
2002/03	Unlimited	45,000,000	204.0	779,098	1,223	2	4,119,835	29,671	4,149,506
2003/04	Unlimited	None	192.0	810,182	1,218	4	3,812,532	86,950	3,899,482
2004/05	Unlimited	None	180.0	832,363	1,318	5	11,679,467	23,805	11,703,272
2005/06	Unlimited	None	168.0	826,479	1,159	2	3,985,583	756	3,986,339
2006/07	Unlimited	None	156.0	859,906	903	5	4,710,166	80,579	4,790,745
2007/08	Unlimited	None	144.0	914,260	777	7	6,108,265	129,819	6,238,085
2008/09	Unlimited	None	132.0	942,707	767	8	6,468,751	132,958	6,601,710
2009/10	Unlimited	None	120.0	998,250	862	18	6,294,474	192,211	6,486,685
2010/11	Unlimited	None	108.0	928,082	789	14	4,682,701	435,306	5,118,007
2011/12	Unlimited	None	96.0	899,082	783	24	4,460,757	282,882	4,743,639
2012/13	Unlimited	None	84.0	949,338	720	29	4,154,423	450,920	4,605,342
2013/14	Unlimited	None	72.0	988,081	760	50	4,496,918	1,966,921	6,463,840
2014/15	Unlimited	None	60.0	998,567	778	71	4,755,229	1,618,474	6,373,702
2015/16	Unlimited	None	48.0	1,053,931	1,109	149	7,922,313	2,471,221	10,393,534
2016/17	Unlimited	None	36.0	1,075,248	1,238	183	7,191,401	3,161,622	10,353,024
2017/18	Unlimited	None	24.0	1,006,546	1,086	270	5,543,789	5,893,646	11,437,436
2018/19	Unlimited	None	12.0	1,038,161	1,020	561	2,084,420	9,903,335	11,987,755
Total					35,156	1,418	\$128,759,448	\$27,185,346	\$155,944,793

(8), (9) and (10) are gross of the specific self-insured retention and other recoveries.

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	99.9%	100.0%	100.0%
348.0	99.9%	100.0%	100.0%
336.0	99.8%	100.0%	100.0%
324.0	99.8%	100.0%	100.0%
312.0	99.7%	100.0%	100.0%
300.0	99.6%	100.0%	100.0%
288.0	99.4%	100.0%	100.0%
276.0	99.1%	100.0%	100.0%
264.0	98.7%	100.0%	100.0%
252.0	98.2%	100.0%	100.0%
240.0	97.4%	100.0%	100.0%
228.0	97.4%	100.0%	100.0%
216.0	97.4%	100.0%	100.0%
204.0	97.3%	100.0%	100.0%
192.0	97.2%	99.9%	100.0%
180.0	97.1%	99.8%	100.0%
168.0	97.0%	99.7%	100.0%
156.0	96.8%	99.6%	100.0%
144.0	96.5%	99.5%	100.0%
132.0	96.2%	99.4%	100.0%
120.0	95.7%	99.2%	100.0%
108.0	95.0%	99.0%	100.0%
96.0	93.7%	98.7%	100.0%
84.0	91.8%	98.4%	99.9%
72.0	89.2%	97.4%	99.8%
60.0	85.7%	96.0%	99.7%
48.0	80.5%	94.1%	99.6%
36.0	72.5%	90.1%	99.2%
24.0	58.2%	81.1%	98.8%
12.0	22.6%	55.0%	95.9%



(2) is from Exhibit WC-Gov-Med-2 (page 2).

(3) is from Exhibit WC-Gov-Med-2 (page 3).

(4) is from Exhibit WC-Gov-Med-2 (page 4).

I. Historical Unlimited Paid Losses (\$000)

Claim Period	Months of Development:																			
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
to 1999/00												\$31,028	\$31,051	\$31,112	\$31,201	\$31,214	\$30,953	\$30,834	\$30,727	\$27,723
2000/01						4,107	4,366	4,557	4,609	4,626	4,665	4,680	4,684	4,762	4,886	4,451	4,453	4,457	4,457	
2001/02					4,276	4,349	4,428	4,537	4,588	4,533	4,537	4,538	4,542	4,543	4,109	4,109	4,109	4,109		
2002/03				3,952	4,078	4,303	4,430	4,479	4,505	4,529	4,547	4,547	4,547	4,113	4,119	4,120	4,120			
2003/04			3,311	3,503	3,746	3,978	4,034	4,054	4,104	4,102	4,146	4,162	3,752	3,753	3,783	3,813				
2004/05		5,701	7,315	8,522	9,779	10,801	12,081	12,098	12,107	12,140	12,167	11,670	11,677	11,679						
2005/06	1,556	3,288	3,886	3,990	4,074	4,060	4,158	4,166	4,298	4,314	3,984	3,985	3,985	3,986						
2006/07	1,789	3,762	4,388	4,717	5,071	5,140	5,263	5,287	5,327	4,699	4,701	4,702	4,710							
2007/08	1,529	4,502	5,603	6,919	8,632	9,724	10,180	10,418	5,942	5,999	6,065	6,108								
2008/09	1,517	3,587	4,561	5,257	5,476	5,859	6,385	6,069	6,266	6,399	6,469									
2009/10	1,420	3,831	5,014	5,631	6,071	6,522	6,143	6,204	6,239	6,294										
2010/11	1,383	3,204	4,162	4,507	4,771	4,476	4,569	4,651	4,683											
2011/12	985	3,192	4,280	4,798	4,181	4,298	4,454	4,461												
2012/13	1,044	3,263	4,045	3,589	3,869	3,945	4,154													
2013/14	1,530	4,276	4,077	4,381	4,442	4,497														
2014/15	1,801	3,400	4,207	4,622	4,755															
2015/16	2,195	6,335	7,366	7,922																
2016/17	2,613	5,872	7,191																	
2017/18	2,296	5,544																		
2018/19	2,084																			

II. Unlimited Paid Loss Development

Claim Period	Months of Development:																			
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult
to 1999/00													1.001	1.002	1.003	1.000	0.992	0.996	0.997	0.902
2000/01						1.063	1.044	1.011	1.004	1.009	1.003	1.001	1.017	1.026	0.911	1.000	1.001	1.000		
2001/02					1.017	1.018	1.025	1.011	0.988	1.001	1.000	1.001	1.000	0.904	1.000	1.000	1.000			
2002/03				1.032	1.055	1.030	1.011	1.006	1.005	1.004	1.000	1.000	0.905	1.002	1.000	1.000				
2003/04			1.058	1.069	1.062	1.014	1.005	1.012	0.999	1.011	1.004	1.001	1.000	1.008	1.008					
2004/05		1.283	1.165	1.147	1.105	1.119	1.001	1.001	1.003	1.002	0.959	1.001	1.000	1.000						
2005/06	2.113	1.182	1.027	1.021	0.996	1.024	1.002	1.032	1.004	0.924	1.000	1.000	1.000							
2006/07	2.103	1.166	1.075	1.075	1.014	1.024	1.005	1.008	0.882	1.000	1.000	1.002								
2007/08	2.945	1.245	1.235	1.248	1.126	1.047	1.023	0.570	1.010	1.011	1.007									
2008/09	2.364	1.272	1.153	1.042	1.070	1.090	0.950	1.032	1.021	1.011										
2009/10	2.698	1.309	1.123	1.078	1.074	0.942	1.010	1.006	1.009											
2010/11	2.317	1.299	1.083	1.059	0.938	1.021	1.018	1.007												
2011/12	3.242	1.341	1.121	0.871	1.028	1.036	1.002													
2012/13	3.126	1.240	0.887	1.078	1.019	1.053														
2013/14	2.795	0.954	1.075	1.014	1.012															
2014/15	1.887	1.237	1.099	1.029																
2015/16	2.886	1.163	1.076																	
2016/17	2.247	1.225																		
2017/18	2.415																			
2018/19																				
Average																				
All	2.549	1.224	1.090	1.059	1.040	1.037	1.008	0.972	0.992	0.997	0.997	0.988	0.989	0.991	0.984	0.998	0.999	0.998	0.902	
Wtd 3	2.499	1.202	1.081	1.038	1.020	1.036	1.010	1.016	1.013	1.008	1.003	1.001	1.000	1.002	1.002	1.000	0.997			
Last 3	2.516	1.208	1.083	1.040	1.020	1.037	1.010	1.015	1.013	1.007	1.003	1.001	1.000	1.003	1.003	1.000	0.999			
Last 5	2.486	1.208	1.083	1.034	1.020	1.037	1.010	1.007	1.007	1.004	1.002	1.000	1.000	1.003	1.000					
x-hi,low																				
Similar	2.342	1.324	1.168	1.099	1.058	1.036	1.022	1.015	1.011	1.008	1.006	1.005	1.003	1.003	1.002	1.002	1.002	1.002	1.021	
Previous	2.600	1.250	1.120	1.070	1.040	1.030	1.020	1.014	1.008	1.005	1.003	1.003	1.002	1.001	1.001	1.001	1.001	1.000	1.000	1.027
Selected	2.575	1.245	1.110	1.065	1.040	1.030	1.020	1.014	1.008	1.005	1.003	1.003	1.002	1.001	1.001	1.001	1.001	1.000	1.000	1.027
Cumulative	4.421	1.717	1.379	1.242	1.167	1.122	1.089	1.068	1.053	1.045	1.039	1.036	1.033	1.031	1.030	1.029	1.028	1.027	1.027	1.027
Percent	22.6%	58.2%	72.5%	80.5%	85.7%	89.2%	91.8%	93.7%	95.0%	95.7%	96.2%	96.5%	96.8%	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%	97.4%

The County changed data systems during 2016, resulting in a shift between indemnity and medical. The amounts in the 2016 diagonal are not consistent with prior diagonals.

Amounts are unlimited (gross of excess insurance).

Data was provided by the County.

Historical Unlimited Reported Incurred Losses (\$000) and Unlimited Reported Incurred Loss Development

I. Historical Unlimited Reported Incurred Losses (\$000)

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00													\$33,658	\$33,123	\$32,143	\$31,525	\$31,534	\$31,133	\$31,015	\$30,838	\$28,004
2000/01						6,126	6,320	6,432	4,782	4,769	4,755	4,763	4,827	4,872	5,017	4,553	4,479	4,475	4,476		
2001/02					6,009	5,980	5,941	4,783	4,931	4,638	4,642	4,559	4,546	4,547	4,134	4,133	4,133	4,133	4,133		
2002/03				5,782	5,810	6,088	4,710	4,581	4,529	4,530	4,547	4,547	4,547	4,130	4,150	4,150	4,150	4,150	4,150		
2003/04			5,366	5,485	5,699	4,179	4,196	4,152	4,206	4,143	4,200	4,352	3,846	3,847	3,899	3,899					
2004/05		8,064	9,500	10,932	10,549	11,302	12,173	12,186	12,187	12,166	12,189	11,693	11,698	11,703	11,703						
2005/06	3,931	5,751	6,271	4,309	4,260	4,069	4,172	4,180	4,357	4,402	4,055	4,002	4,000	3,986							
2006/07	3,884	6,034	4,949	5,170	5,213	5,235	5,337	5,353	5,469	4,796	4,821	4,797	4,791								
2007/08	4,148	5,959	6,910	7,132	8,868	9,869	10,291	10,662	6,216	6,265	6,286	6,238									
2008/09	3,195	4,643	4,930	5,619	5,666	6,115	6,990	6,621	6,773	6,575	6,602										
2009/10	3,198	4,218	5,291	5,924	6,344	7,192	6,775	6,762	6,520	6,487											
2010/11	2,330	3,673	4,360	4,739	5,288	4,820	5,194	5,170	5,118												
2011/12	2,234	3,794	4,744	5,846	4,792	4,872	4,836	4,744													
2012/13	2,791	4,957	5,613	4,510	4,726	4,567	4,605														
2013/14	4,820	7,672	5,891	5,896	5,550	6,464															
2014/15	8,228	6,243	6,556	6,338	6,374																
2015/16	8,185	11,180	10,552	10,394																	
2016/17	10,950	10,649	10,353																		
2017/18	9,883	11,437																			
2018/19	11,988																				

II. Unlimited Reported Incurred Loss Development

Claim Period	Months of Development:																			
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult
to 1999/00												0.984	0.970	0.981	1.000	0.987	0.996	0.994	0.908	
2000/01						1.032	1.018	0.744	0.997	0.997	1.002	1.013	1.009	1.030	0.908	0.984	0.999	1.000	1.000	
2001/02					0.995	0.993	0.805	1.031	0.941	1.001	0.982	0.997	1.000	0.909	1.000	1.000	1.000			
2002/03				1.005	1.048	0.774	0.973	0.989	1.000	1.004	1.000	1.000	0.908	1.005	1.000	1.000				
2003/04			1.022	1.039	0.733	1.004	0.989	1.013	0.985	1.014	1.036	0.884	1.000	1.014	1.000					
2004/05		1.178	1.151	0.965	1.071	1.077	1.001	1.000	0.998	1.002	0.959	1.000	1.000	1.000						
2005/06	1.463	1.090	0.687	0.989	0.955	1.025	1.002	1.042	1.010	0.921	0.987	0.999	0.997							
2006/07	1.554	0.820	1.045	1.008	1.004	1.020	1.003	1.022	0.877	1.005	0.995	0.999								
2007/08	1.437	1.160	1.032	1.243	1.113	1.043	1.036	0.583	1.008	1.003	0.992									
2008/09	1.453	1.062	1.140	1.008	1.079	1.143	0.947	1.023	0.971	1.004										
2009/10	1.319	1.255	1.120	1.071	1.134	0.942	0.998	0.964	0.995											
2010/11	1.577	1.187	1.087	1.116	0.911	1.077	0.995	0.990												
2011/12	1.698	1.250	1.232	0.820	1.017	0.993	0.981													
2012/13	1.776	1.132	0.803	1.048	0.966	1.008														
2013/14	1.592	0.768	1.001	0.941	1.165															
2014/15	0.759	1.050	0.967	1.006																
2015/16	1.366	0.944	0.985																	
2016/17	0.973	0.972																		
2017/18	1.157																			
2018/19																				
Average																				
All	1.394	1.067	1.021	1.020	1.015	1.010	0.979	0.946	0.978	0.995	0.994	0.985	0.984	0.990	0.982	0.993	0.998	0.997	0.908	
Wtd 3	1.146	0.978	0.984	0.994	1.055	1.026	0.992	0.992	0.991	1.004	0.992	1.000	1.000	1.004	1.000	0.994	0.997			
Last 3	1.165	0.989	0.984	0.998	1.049	1.026	0.991	0.992	0.991	1.004	0.991	1.000	0.999	1.006	1.000	0.995	0.998			
Last 5	1.165	0.989	0.984	0.998	1.039	1.026	0.991	0.992	0.991	1.003	0.991	0.999	0.999	1.006	1.000					
x-hi,low																				
Similar	1.390	1.102	1.043	1.018	1.006	1.001	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.002	1.000	1.001	1.001	1.007	
Previous	1.500	1.120	1.050	1.020	1.015	1.010	1.003	1.003	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000
Selected	1.475	1.110	1.045	1.020	1.015	1.010	1.003	1.003	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000
Cumulative	1.818	1.232	1.110	1.063	1.042	1.026	1.016	1.013	1.010	1.008	1.006	1.005	1.004	1.003	1.002	1.001	1.000	1.000	1.000	1.000
Percent	55.0%	81.1%	90.1%	94.1%	96.0%	97.4%	98.4%	98.7%	99.0%	99.2%	99.4%	99.5%	99.6%	99.7%	99.8%	99.9%	100.0%	100.0%	100.0%	100.0%

The County changed data systems during 2016, resulting in a shift between indemnity and medical. The amounts in the 2016 diagonal are not consistent with prior diagonals.

Amounts are unlimited (gross of excess insurance).

Data was provided by the County.

COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Historical Ratio of Unlimited Paid Losses and Unlimited Reported Incurred Losses

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00													92.2%	93.7%	96.8%	99.0%	99.0%	99.4%	99.4%	99.6%	99.0%
2000/01						67.0%	69.1%	70.9%	96.4%	97.0%	98.1%	98.2%	97.0%	97.7%	97.4%	97.8%	99.4%	99.6%	99.6%		
2001/02					71.2%	72.7%	74.5%	94.9%	93.0%	97.7%	97.7%	99.5%	99.9%	99.9%	99.4%	99.4%	99.4%	99.4%			
2002/03				68.3%	70.2%	70.7%	94.1%	97.8%	99.5%	100.0%	100.0%	100.0%	100.0%	99.6%	99.3%	99.3%	99.3%				
2003/04			61.7%	63.9%	65.7%	95.2%	96.1%	97.6%	97.6%	99.0%	98.7%	95.6%	97.5%	97.6%	97.0%	97.8%					
2004/05		70.7%	77.0%	78.0%	92.7%	95.6%	99.2%	99.3%	99.3%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%						
2005/06	39.6%	57.2%	62.0%	92.6%	95.6%	99.8%	99.7%	99.7%	98.6%	98.0%	98.3%	99.6%	99.6%	100.0%							
2006/07	46.1%	62.3%	88.7%	91.2%	97.3%	98.2%	98.6%	98.8%	97.4%	98.0%	97.5%	98.0%	98.3%								
2007/08	36.9%	75.5%	81.1%	97.0%	97.3%	98.5%	98.9%	97.7%	95.6%	95.8%	96.5%	97.9%									
2008/09	47.5%	77.2%	92.5%	93.6%	96.6%	95.8%	91.3%	91.7%	92.5%	97.3%	98.0%										
2009/10	44.4%	90.8%	94.8%	95.1%	95.7%	90.7%	90.7%	91.7%	95.7%	97.0%											
2010/11	59.4%	87.2%	95.5%	95.1%	90.2%	92.9%	88.0%	90.0%	91.5%												
2011/12	44.1%	84.1%	90.2%	82.1%	87.3%	88.2%	92.1%	94.0%													
2012/13	37.4%	65.8%	72.1%	79.6%	81.9%	86.4%	90.2%														
2013/14	31.7%	55.7%	69.2%	74.3%	80.0%	69.6%															
2014/15	21.9%	54.5%	64.2%	72.9%	74.6%																
2015/16	26.8%	56.7%	69.8%	76.2%																	
2016/17	23.9%	55.1%	69.5%																		
2017/18	23.2%	48.5%																			
2018/19	17.4%																				
Average																					
All	35.7%	67.3%	77.7%	82.8%	85.5%	87.2%	91.0%	93.7%	96.1%	98.0%	98.3%	97.9%	98.3%	98.8%	98.6%	98.6%	99.4%	99.5%	99.6%	99.0%	
Last 3	21.5%	53.4%	67.8%	74.5%	78.8%	81.4%	90.1%	91.9%	93.2%	96.7%	97.3%	98.5%	99.3%	99.1%	98.7%	98.8%	99.4%	99.5%			
Last 5	23.0%	55.1%	69.5%	76.7%	83.1%	88.4%	90.7%	92.5%	94.6%	97.4%	97.9%	98.5%	99.3%	99.8%	98.7%	98.7%					
x-hi,low																					
Implicit	41.1%	71.8%	80.5%	85.5%	89.3%	91.5%	93.3%	94.9%	95.9%	96.5%	96.8%	97.0%	97.2%	97.3%	97.3%	97.3%	97.3%	97.4%	97.4%	97.4%	97.4%
Prior	41.3%	71.5%	79.8%	85.1%	89.3%	91.5%	93.3%	94.9%	95.9%	96.5%	96.8%	97.0%	97.2%	97.3%	97.3%	97.3%	97.3%	97.4%	97.4%	97.4%	97.4%



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Exhibit WC-Gov-Med-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Paid Losses 11/30/19 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1999/00	240.0	\$27,332,257	97.4%	\$28,070,228
2000/01	228.0	4,443,619	97.4%	4,563,597
2001/02	216.0	4,016,315	97.4%	4,124,756
2002/03	204.0	4,100,394	97.3%	4,215,316
2003/04	192.0	3,720,647	97.2%	3,828,751
2004/05	180.0	11,641,652	97.1%	11,991,880
2005/06	168.0	3,983,736	97.0%	4,107,687
2006/07	156.0	4,664,167	96.8%	4,818,908
2007/08	144.0	6,065,313	96.5%	6,285,338
2008/09	132.0	6,451,488	96.2%	6,705,579
2009/10	120.0	6,294,139	95.7%	6,574,743
2010/11	108.0	4,649,243	95.0%	4,895,366
2011/12	96.0	4,383,864	93.7%	4,680,562
2012/13	84.0	4,146,333	91.8%	4,515,494
2013/14	72.0	4,461,459	89.2%	5,004,436
2014/15	60.0	4,723,147	85.7%	5,509,892
2015/16	48.0	7,874,090	80.5%	9,782,765
2016/17	36.0	7,171,288	72.5%	9,889,660
2017/18	24.0	5,487,905	58.2%	9,422,370
2018/19	12.0	2,084,247	22.6%	9,214,676
Total		\$127,695,305		\$148,202,001

(3) is from Exhibit WC-Gov-Med-1.

(4) is from Exhibit WC-Gov-Med-2.



COOK COUNTY, ILLINOIS
 WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Exhibit WC-Gov-Med-4

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1999/00	240.0	\$27,613,952	100.0%	\$27,613,952
2000/01	228.0	4,462,095	100.0%	4,462,095
2001/02	216.0	4,040,413	100.0%	4,040,413
2002/03	204.0	4,130,065	100.0%	4,130,065
2003/04	192.0	3,807,597	99.9%	3,811,405
2004/05	180.0	11,665,456	99.8%	11,688,799
2005/06	168.0	3,984,492	99.7%	3,996,458
2006/07	156.0	4,744,746	99.6%	4,763,754
2007/08	144.0	6,195,132	99.5%	6,226,170
2008/09	132.0	6,584,447	99.4%	6,624,052
2009/10	120.0	6,486,351	99.2%	6,538,417
2010/11	108.0	5,084,548	99.0%	5,135,613
2011/12	96.0	4,666,746	98.7%	4,727,756
2012/13	84.0	4,597,253	98.4%	4,671,326
2013/14	72.0	6,428,380	97.4%	6,597,276
2014/15	60.0	6,341,620	96.0%	6,605,861
2015/16	48.0	10,345,311	94.1%	10,991,904
2016/17	36.0	10,332,910	90.1%	11,472,771
2017/18	24.0	11,381,551	81.1%	14,027,171
2018/19	12.0	11,987,582	55.0%	21,791,757
Total		\$154,880,650		\$169,917,015

(3) is from Exhibit WC-Gov-Med-1.

(4) is from Exhibit WC-Gov-Med-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Exhibit WC-Gov-Med-5

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/19 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/19 (6)	Limited Case Reserves 11/30/19 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1999/00	240.0	97.4%	100.0%	100.0%	\$27,332,257	\$281,695	\$27,613,952
2000/01	228.0	97.4%	100.0%	100.0%	4,443,619	18,476	4,462,095
2001/02	216.0	97.4%	100.0%	100.0%	4,016,315	24,098	4,040,413
2002/03	204.0	97.3%	100.0%	100.0%	4,100,394	29,671	4,130,065
2003/04	192.0	97.2%	99.9%	96.5%	3,720,647	86,950	3,810,787
2004/05	180.0	97.1%	99.8%	93.2%	11,641,652	23,805	11,667,204
2005/06	168.0	97.0%	99.7%	90.1%	3,983,736	756	3,984,575
2006/07	156.0	96.8%	99.6%	87.6%	4,664,167	80,579	4,756,179
2007/08	144.0	96.5%	99.5%	85.8%	6,065,313	129,819	6,216,689
2008/09	132.0	96.2%	99.4%	84.2%	6,451,488	132,958	6,609,357
2009/10	120.0	95.7%	99.2%	81.3%	6,294,139	192,211	6,530,440
2010/11	108.0	95.0%	99.0%	80.2%	4,649,243	435,306	5,191,862
2011/12	96.0	93.7%	98.7%	79.6%	4,383,864	282,882	4,739,054
2012/13	84.0	91.8%	98.4%	80.6%	4,146,333	450,920	4,705,759
2013/14	72.0	89.2%	97.4%	76.4%	4,461,459	1,966,921	7,035,812
2014/15	60.0	85.7%	96.0%	72.0%	4,723,147	1,618,474	6,971,472
2015/16	48.0	80.5%	94.1%	69.8%	7,874,090	2,471,221	11,411,988
2016/17	36.0	72.5%	90.1%	63.9%	7,171,288	3,161,622	12,122,589
2017/18	24.0	58.2%	81.1%	54.8%	5,487,905	5,893,646	16,236,477
2018/19	12.0	22.6%	55.0%	41.9%	2,084,247	9,903,335	25,743,098
Total					\$127,695,305	\$27,185,346	\$177,979,867

(3) and (4) are from Exhibit WC-Gov-Med-2.

(6) and (7) are from Exhibit WC-Gov-Med-1.

Preliminary Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	Preliminary Projected Ultimate Limited Losses (5)
to 1999/00	\$28,070,228	\$27,613,952	\$27,613,952	\$27,642,122
2000/01	4,563,597	4,462,095	4,462,095	4,463,943
2001/02	4,124,756	4,040,413	4,040,413	4,042,823
2002/03	4,215,316	4,130,065	4,130,065	4,133,032
2003/04	3,828,751	3,811,405	3,810,787	3,816,292
2004/05	11,991,880	11,688,799	11,667,204	11,667,837
2005/06	4,107,687	3,996,458	3,984,575	3,984,575
2006/07	4,818,908	4,763,754	4,756,179	4,756,179
2007/08	6,285,338	6,226,170	6,216,689	6,216,689
2008/09	6,705,579	6,624,052	6,609,357	6,609,357
2009/10	6,574,743	6,538,417	6,530,440	6,530,440
2010/11	4,895,366	5,135,613	5,191,862	5,191,862
2011/12	4,680,562	4,727,756	4,739,054	4,736,795
2012/13	4,515,494	4,671,326	4,705,759	4,695,429
2013/14	5,004,436	6,597,276	7,035,812	6,860,398
2014/15	5,509,892	6,605,861	6,971,472	6,679,070
2015/16	9,782,765	10,991,904	11,411,988	10,918,110
2016/17	9,889,660	11,472,771	12,122,589	11,351,094
2017/18	9,422,370	14,027,171	16,236,477	13,548,072
2018/19	9,214,676	21,791,757	25,743,098	20,929,183
Total	\$148,202,001	\$169,917,015	\$177,979,867	\$168,773,301

(2) is from Exhibit WC-Gov-Med-3.

(3) is from Exhibit WC-Gov-Med-4.

(4) is from Exhibit WC-Gov-Med-5.

(5) is based on (2) to (4) and actuarial judgment.

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Payroll (000) (3)	Limited Loss Rate per \$100 of Payroll (2)/(3)/10 (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)	Projected A-priori Loss Rate per \$100 of Payroll (7)/(5) (8)
2009/10	\$6,530,440	\$998,250	\$0.65	1.359	\$0.89	\$0.71
2010/11	5,191,862	928,082	0.56	1.338	0.75	0.72
2011/12	4,736,795	899,082	0.53	1.432	0.75	0.68
2012/13	4,695,429	949,338	0.49	1.372	0.68	0.70
2013/14	6,860,398	988,081	0.69	1.307	0.91	0.74
2014/15	6,679,070	998,567	0.67	1.242	0.83	0.78
2015/16	10,918,110	1,053,931	1.04	1.190	1.23	0.81
2016/17	11,351,094	1,075,248	1.06	1.138	1.20	0.85
2017/18	13,548,072	1,006,546	1.35	1.083	1.46	0.89
2018/19	20,929,183	1,038,161	2.02	1.040	2.10	0.93

(7) Projected 2019/20 a-priori loss rate per \$100 of Payroll \$0.97

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Percent Losses Paid (3)	Projected A-priori Loss Rate per \$100 of Payroll (4)	Payroll (000) (5)	B-F Unpaid Losses [100.0%-(3)] X(4)X(5)X10 (6)	B-F Ultimate Limited Paid Losses (2)+(6) (7)
2014/15	\$4,723,147	85.7%	\$0.78	\$998,567	\$1,109,619	\$5,832,766
2015/16	7,874,090	80.5%	0.81	1,053,931	1,670,233	9,544,323
2016/17	7,171,288	72.5%	0.85	1,075,248	2,511,033	9,682,321
2017/18	5,487,905	58.2%	0.89	1,006,546	3,753,004	9,240,909
2018/19	2,084,247	22.6%	0.93	1,038,161	7,467,134	9,551,382

III. Bornhuetter - Ferguson Analysis Based on Limited Reported Incurred Losses

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Percent Losses Reported (3)	Projected A-priori Loss Rate per \$100 of Payroll (4)	Payroll (000) (5)	B-F Unreported Losses [100.0%-(3)] X(4)X(5)X10 (6)	B-F Ultimate Limited Reported Losses (2)+(6) (7)
2014/15	\$6,341,620	96.0%	\$0.78	\$998,567	\$310,852	\$6,652,472
2015/16	10,345,311	94.1%	0.81	1,053,931	503,575	10,848,887
2016/17	10,332,910	90.1%	0.85	1,075,248	907,629	11,240,539
2017/18	11,381,551	81.1%	0.89	1,006,546	1,695,160	13,076,712
2018/19	11,987,582	55.0%	0.93	1,038,161	4,341,474	16,329,056

Section I, (2) is from Exhibit WC-Gov-Med-6.

Section I, (3), Section II, (5) and Section III, (5) are from Exhibit WC-Gov-Med-10.

Section I, (5) is from Exhibit WC-Gov-Med-15.

Section I, (7) is based on Section I, (6) and actuarial judgment.

Sections II and III, (2) are from Exhibit WC-Gov-Med-1.

Sections II and III, (3) are from Exhibit WC-Gov-Med-2.

Sections II and III, (4) are from Section I, (8).

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/19 (2)	Reported Claims 11/30/19 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2009/10	120.0	862	100.0%	862	\$998,250	0.86
2010/11	108.0	789	100.0%	789	928,082	0.85
2011/12	96.0	783	100.0%	783	899,082	0.87
2012/13	84.0	720	99.9%	721	949,338	0.76
2013/14	72.0	760	99.8%	762	988,081	0.77
2014/15	60.0	778	99.7%	780	998,567	0.78
2015/16	48.0	1,109	99.6%	1,113	1,053,931	1.06
2016/17	36.0	1,238	99.2%	1,248	1,075,248	1.16
2017/18	24.0	1,086	98.8%	1,099	1,006,546	1.09
2018/19	12.0	1,020	95.9%	1,063	1,038,161	1.02

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2019/20 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2019/20 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2009/10	\$6,530,440	862	\$7,576	1.826	\$13,837	\$6,830	\$5,887,858
2010/11	5,191,862	789	6,580	1.746	11,491	7,144	5,636,302
2011/12	4,736,795	783	6,050	1.814	10,973	6,878	5,385,276
2012/13	4,695,429	721	6,512	1.687	10,987	7,394	5,331,230
2013/14	6,860,398	762	9,003	1.561	14,050	7,994	6,091,282
2014/15	6,679,070	780	8,563	1.440	12,331	8,663	6,757,322
2015/16	10,918,110	1,113	9,810	1.339	13,140	9,313	10,365,763
2016/17	11,351,094	1,248	9,095	1.243	11,309	10,034	12,522,168
2017/18	13,548,072	1,099	12,328	1.149	14,159	10,862	11,937,225
2018/19	20,929,183	1,063	19,689	1.071	21,091	11,646	12,379,695
						(7) Projected 2019/20 average claim severity \$12,475	

Section I, (3) is from Exhibit WC-Gov-Med-1.

Section I, (4) is from Exhibit WC-Gov-Med-2.

Section I, (6) is from Exhibit WC-Gov-Med-10.

Section II, (2) is from Exhibit WC-Gov-Med-6.

Section II, (3) is from Section I, (5).

Section II, (5) is from Exhibit WC-Gov-Med-15.

Section II, (7) is based on (6) and actuarial judgment.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Exhibit WC-Gov-Med-9

Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	B-F Ultimate Limited Paid Losses (5)	B-F Ultimate Limited Reported Losses (6)	Frequency Times Severity (7)	Prior Projected Ultimate Limited Losses (8)	Projected Ultimate Limited Losses (9)
to 1999/00	\$28,070,228	\$27,613,952	\$27,613,952				\$27,557,156	\$27,642,122
2000/01	4,563,597	4,462,095	4,462,095				4,464,000	4,464,000
2001/02	4,124,756	4,040,413	4,040,413				4,043,000	4,043,000
2002/03	4,215,316	4,130,065	4,130,065				4,134,000	4,133,032
2003/04	3,828,751	3,811,405	3,810,787				3,819,197	3,816,292
2004/05	11,991,880	11,688,799	11,667,204				11,668,046	11,668,000
2005/06	4,107,687	3,996,458	3,984,575				4,000,000	3,985,000
2006/07	4,818,908	4,763,754	4,756,179				4,767,000	4,756,000
2007/08	6,285,338	6,226,170	6,216,689				6,323,000	6,217,000
2008/09	6,705,579	6,624,052	6,609,357				6,613,000	6,609,000
2009/10	6,574,743	6,538,417	6,530,440				6,589,000	6,530,000
2010/11	4,895,366	5,135,613	5,191,862				5,289,000	5,192,000
2011/12	4,680,562	4,727,756	4,739,054				4,856,000	4,737,000
2012/13	4,515,494	4,671,326	4,705,759				4,724,000	4,695,000
2013/14	5,004,436	6,597,276	7,035,812				5,813,000	6,860,000
2014/15	5,509,892	6,605,861	6,971,472	5,832,766	6,652,472	6,757,322	7,000,000	6,679,000
2015/16	9,782,765	10,991,904	11,411,988	9,544,323	10,848,887	10,365,763	12,000,000	10,918,000
2016/17	9,889,660	11,472,771	12,122,589	9,682,321	11,240,539	12,522,168	13,000,000	11,351,000
2017/18	9,422,370	14,027,171	16,236,477	9,240,909	13,076,712	11,937,225	14,000,000	12,933,000
2018/19	9,214,676	21,791,757	25,743,098	9,551,382	16,329,056	12,379,695	9,343,000	14,635,000
Total	\$148,202,001	\$169,917,015	\$177,979,867				\$160,002,399	\$161,863,446
2014/15 - 2018/19	43,819,363	64,889,464	72,485,624	43,851,700	58,147,665	53,962,173	55,343,000	56,516,000
to 2013/14	104,382,638	105,027,551	105,494,243				104,659,399	105,347,446
						Change		
						All years		\$1,861,047
						2014/15 - 2018/19		1,173,000
						to 2013/14		688,047

(2) is from Exhibit WC-Gov-Med-3.

(3) is from Exhibit WC-Gov-Med-4.

(4) is from Exhibit WC-Gov-Med-5.

(5) and (6) are from Exhibit WC-Gov-Med-7.

(7) is from Exhibit WC-Gov-Med-8.

(8) is based on (2) to (7) and actuarial judgment.

Projected Ultimate Limited Losses for 2019/20 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Payroll (000) (3)	Limited Loss Rate per \$100 of Payroll (2)/(3)/10 (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2009/10	\$6,530,000	\$998,250	\$0.65	1.359	\$0.89
2010/11	5,192,000	928,082	0.56	1.338	0.75
2011/12	4,737,000	899,082	0.53	1.432	0.75
2012/13	4,695,000	949,338	0.49	1.372	0.68
2013/14	6,860,000	988,081	0.69	1.307	0.91
2014/15	6,679,000	998,567	0.67	1.242	0.83
2015/16	10,918,000	1,053,931	1.04	1.190	1.23
2016/17	11,351,000	1,075,248	1.06	1.138	1.20
2017/18	12,933,000	1,006,546	1.28	1.083	1.39
2018/19	14,635,000	1,038,161	1.41	1.040	1.47
Total	\$84,530,000	\$9,935,287	\$0.85		\$1.01

Claim Period (1)	Projected Limited Loss Rate per \$100 of Payroll (7)	Projected Payroll (000) (8)	Projected Ultimate Limited Losses (7)X(8)X10 (9)	Present Value Factor (10)	Present Value of Projected Limited Loss Rate per \$100 of Payroll (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11)X10 (12)
2019/20	\$0.96	\$1,053,919	\$10,110,000	0.95	\$0.92	\$9,654,000
2020/21	1.00	1,053,919	10,515,000	0.95	0.95	10,041,000
2021/22	1.04	1,053,919	10,935,000	0.95	0.99	10,442,000

(2) is from Exhibit WC-Gov-Med-9.

(3) was provided by the County.

(5) is from Exhibit WC-Gov-Med-15.

(7) 2019/20 is based on (6) and actuarial judgment.
Other period(s) based on 2019/20 plus the trend in Exhibit WC-Gov-Med-15.

(8) to 2019/20 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-Gov-Med-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Exhibit WC-Gov-Med-11

Estimated Outstanding Losses as of November 30, 2019

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Limited Case Reserves 11/30/19 (3)	Limited Reported Incurred Losses 11/30/19 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/19 (5)-(4) (6)	Estimated Outstanding Losses 11/30/19 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/19 (7)X(8) (9)
to 1999/00	\$27,332,257	\$281,695	\$27,613,952	\$27,642,122	\$28,170	\$309,865	0.96	\$296,704
2000/01	4,443,619	18,476	4,462,095	4,464,000	1,905	20,381	0.94	19,206
2001/02	4,016,315	24,098	4,040,413	4,043,000	2,587	26,685	0.93	24,748
2002/03	4,100,394	29,671	4,130,065	4,133,032	2,967	32,638	0.92	29,882
2003/04	3,720,647	86,950	3,807,597	3,816,292	8,695	95,645	0.90	86,481
2004/05	11,641,652	23,805	11,665,456	11,668,000	2,544	26,349	0.89	23,536
2005/06	3,983,736	756	3,984,492	3,985,000	508	1,264	0.88	1,116
2006/07	4,664,167	80,579	4,744,746	4,756,000	11,254	91,833	0.88	80,462
2007/08	6,065,313	129,819	6,195,132	6,217,000	21,868	151,687	0.87	132,426
2008/09	6,451,488	132,958	6,584,447	6,609,000	24,553	157,511	0.87	136,926
2009/10	6,294,139	192,211	6,486,351	6,530,000	43,649	235,860	0.87	205,398
2010/11	4,649,243	435,306	5,084,548	5,192,000	107,452	542,758	0.88	476,243
2011/12	4,383,864	282,882	4,666,746	4,737,000	70,254	353,136	0.89	314,336
2012/13	4,146,333	450,920	4,597,253	4,695,000	97,747	548,667	0.90	494,945
2013/14	4,461,459	1,966,921	6,428,380	6,860,000	431,620	2,398,541	0.91	2,191,046
2014/15	4,723,147	1,618,474	6,341,620	6,679,000	337,380	1,955,854	0.92	1,802,039
2015/16	7,874,090	2,471,221	10,345,311	10,918,000	572,689	3,043,910	0.93	2,829,704
2016/17	7,171,288	3,161,622	10,332,910	11,351,000	1,018,090	4,179,712	0.94	3,917,584
2017/18	5,487,905	5,893,646	11,381,551	12,933,000	1,551,449	7,445,095	0.95	7,044,720
2018/19	2,084,247	9,903,335	11,987,582	14,635,000	2,647,418	12,550,753	0.96	12,039,038
Total	\$127,695,305	\$27,185,346	\$154,880,650	\$161,863,446	\$6,982,799	\$34,168,144		\$32,146,540

(2), (3) and (4) are net of specific self-insured retention and aggregate retention.

(5) is from Exhibit WC-Gov-Med-9.

(8) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-Gov-Med-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Exhibit WC-Gov-Med-12

Projected Losses Paid December 1, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1999/00	240.0	97.4%	252.0	98.2%	30.0% *	\$309,865	\$92,959	\$216,906	0.96	\$207,777
2000/01	228.0	97.4%	240.0	97.4%	30.0% *	20,381	6,114	14,267	0.96	13,661
2001/02	216.0	97.4%	228.0	97.4%	30.0% *	26,685	8,006	18,679	0.94	17,602
2002/03	204.0	97.3%	216.0	97.4%	3.6% *	32,638	1,165	31,473	0.93	29,189
2003/04	192.0	97.2%	204.0	97.3%	3.4% *	95,645	3,292	92,353	0.92	84,555
2004/05	180.0	97.1%	192.0	97.2%	3.3% *	26,349	876	25,473	0.90	23,032
2005/06	168.0	97.0%	180.0	97.1%	3.2% *	1,264	41	1,223	0.89	1,092
2006/07	156.0	96.8%	168.0	97.0%	6.0% *	91,833	5,536	86,297	0.88	76,177
2007/08	144.0	96.5%	156.0	96.8%	8.3% *	151,687	12,544	139,143	0.88	121,914
2008/09	132.0	96.2%	144.0	96.5%	7.6% *	157,511	11,998	145,513	0.87	127,036
2009/10	120.0	95.7%	132.0	96.2%	11.2% *	235,860	26,453	209,407	0.87	182,040
2010/11	108.0	95.0%	120.0	95.7%	15.1% *	542,758	82,021	460,737	0.87	401,232
2011/12	96.0	93.7%	108.0	95.0%	20.7% *	353,136	73,049	280,087	0.88	245,762
2012/13	84.0	91.8%	96.0	93.7%	22.5% *	548,667	123,250	425,417	0.89	378,675
2013/14	72.0	89.2%	84.0	91.8%	24.6% *	2,398,541	591,239	1,807,302	0.90	1,630,342
2014/15	60.0	85.7%	72.0	89.2%	24.0% *	1,955,854	469,671	1,486,183	0.91	1,357,615
2015/16	48.0	80.5%	60.0	85.7%	26.8% *	3,043,910	816,232	2,227,678	0.92	2,052,486
2016/17	36.0	72.5%	48.0	80.5%	29.0% *	4,179,712	1,212,906	2,966,806	0.93	2,758,026
2017/18	24.0	58.2%	36.0	72.5%	30.0% *	7,445,095	2,233,529	5,211,566	0.94	4,884,726
2018/19	12.0	22.6%	24.0	58.2%	30.0% *	12,550,753	3,765,226	8,785,527	0.95	8,313,067
2019/20	0.0	0.0%	12.0	22.6%	22.6% *	10,110,000	2,286,759	7,823,241	0.96	7,504,275
Total						\$44,278,144	\$11,822,866	\$32,455,278		\$30,410,281

* - Limited to a maximum of 30% per actuarial judgment.

(3) and (5) are from Exhibit WC-Gov-Med-2.

(7) to 2018/19 is from Exhibit WC-Gov-Med-11. The amount for 2019/20 is from Exhibit WC-Gov-Med-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-Gov-Med-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Exhibit WC-Gov-Med-13

Projected Losses Paid December 1, 2020 to November 30, 2021

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Months of Development 11/30/21 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/20 to 11/30/21 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/20 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/21 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/21 (9)X(10) (11)
to 1999/00	252.0	98.2%	264.0	98.7%	30.0% *	\$216,906	\$65,072	\$151,834	0.96	\$145,528
2000/01	240.0	97.4%	252.0	98.2%	30.0% *	14,267	4,280	9,987	0.96	9,567
2001/02	228.0	97.4%	240.0	97.4%	30.0% *	18,679	5,604	13,075	0.96	12,520
2002/03	216.0	97.4%	228.0	97.4%	30.0% *	31,473	9,442	22,031	0.94	20,761
2003/04	204.0	97.3%	216.0	97.4%	3.6% *	92,353	3,295	89,058	0.93	82,595
2004/05	192.0	97.2%	204.0	97.3%	3.4% *	25,473	877	24,596	0.92	22,519
2005/06	180.0	97.1%	192.0	97.2%	3.3% *	1,223	41	1,182	0.90	1,069
2006/07	168.0	97.0%	180.0	97.1%	3.2% *	86,297	2,774	83,523	0.89	74,607
2007/08	156.0	96.8%	168.0	97.0%	6.0% *	139,143	8,388	130,755	0.88	115,421
2008/09	144.0	96.5%	156.0	96.8%	8.3% *	145,513	12,034	133,479	0.88	116,951
2009/10	132.0	96.2%	144.0	96.5%	7.6% *	209,407	15,951	193,456	0.87	168,892
2010/11	120.0	95.7%	132.0	96.2%	11.2% *	460,737	51,673	409,064	0.87	355,604
2011/12	108.0	95.0%	120.0	95.7%	15.1% *	280,087	42,327	237,760	0.87	207,053
2012/13	96.0	93.7%	108.0	95.0%	20.7% *	425,417	88,001	337,416	0.88	296,065
2013/14	84.0	91.8%	96.0	93.7%	22.5% *	1,807,302	405,984	1,401,318	0.89	1,247,352
2014/15	72.0	89.2%	84.0	91.8%	24.6% *	1,486,183	366,344	1,119,839	0.90	1,010,191
2015/16	60.0	85.7%	72.0	89.2%	24.0% *	2,227,678	534,946	1,692,732	0.91	1,546,296
2016/17	48.0	80.5%	60.0	85.7%	26.8% *	2,966,806	795,556	2,171,250	0.92	2,000,495
2017/18	36.0	72.5%	48.0	80.5%	29.0% *	5,211,566	1,512,339	3,699,227	0.93	3,438,905
2018/19	24.0	58.2%	36.0	72.5%	30.0% *	8,785,527	2,635,658	6,149,869	0.94	5,764,183
2019/20	12.0	22.6%	24.0	58.2%	30.0% *	7,823,241	2,346,972	5,476,269	0.95	5,181,771
2020/21	0.0	0.0%	12.0	22.6%	22.6% *	10,515,000	2,378,365	8,136,635	0.96	7,804,891
Total						\$42,970,278	\$11,285,923	\$31,684,355		\$29,623,236

* - Limited to a maximum of 30% per actuarial judgment.

(3) and (5) are from Exhibit WC-Gov-Med-2.

(7) to 2019/20 is from Exhibit WC-Gov-Med-12, (9). The amount for 2020/21 is from Exhibit WC-Gov-Med-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-Gov-Med-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Exhibit WC-Gov-Med-14

Projected Losses Paid December 1, 2021 to November 30, 2022

Claim Period (1)	Months of Development 11/30/21 (2)	Percent Losses Paid (3)	Months of Development 11/30/22 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/21 to 11/30/22 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/21 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/22 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/22 (9)X(10) (11)
to 1999/00	264.0	98.7%	276.0	99.1%	30.0% *	\$151,834	\$45,550	\$106,284	0.96	\$101,956
2000/01	252.0	98.2%	264.0	98.7%	30.0% *	9,987	2,996	6,991	0.96	6,701
2001/02	240.0	97.4%	252.0	98.2%	30.0% *	13,075	3,922	9,153	0.96	8,768
2002/03	228.0	97.4%	240.0	97.4%	30.0% *	22,031	6,609	15,422	0.96	14,767
2003/04	216.0	97.4%	228.0	97.4%	30.0% *	89,058	26,717	62,341	0.94	58,747
2004/05	204.0	97.3%	216.0	97.4%	3.6% *	24,596	878	23,718	0.93	21,997
2005/06	192.0	97.2%	204.0	97.3%	3.4% *	1,182	41	1,141	0.92	1,045
2006/07	180.0	97.1%	192.0	97.2%	3.3% *	83,523	2,776	80,747	0.90	73,010
2007/08	168.0	97.0%	180.0	97.1%	3.2% *	130,755	4,202	126,553	0.89	113,044
2008/09	156.0	96.8%	168.0	97.0%	6.0% *	133,479	8,047	125,432	0.88	110,723
2009/10	144.0	96.5%	156.0	96.8%	8.3% *	193,456	15,999	177,457	0.88	155,484
2010/11	132.0	96.2%	144.0	96.5%	7.6% *	409,064	31,159	377,905	0.87	329,920
2011/12	120.0	95.7%	132.0	96.2%	11.2% *	237,760	26,666	211,094	0.87	183,506
2012/13	108.0	95.0%	120.0	95.7%	15.1% *	337,416	50,990	286,426	0.87	249,433
2013/14	96.0	93.7%	108.0	95.0%	20.7% *	1,401,318	289,873	1,111,445	0.88	975,237
2014/15	84.0	91.8%	96.0	93.7%	22.5% *	1,119,839	251,556	868,283	0.89	772,882
2015/16	72.0	89.2%	84.0	91.8%	24.6% *	1,692,732	417,258	1,275,474	0.90	1,150,587
2016/17	60.0	85.7%	72.0	89.2%	24.0% *	2,171,250	521,396	1,649,854	0.91	1,507,127
2017/18	48.0	80.5%	60.0	85.7%	26.8% *	3,699,227	991,957	2,707,270	0.92	2,494,361
2018/19	36.0	72.5%	48.0	80.5%	29.0% *	6,149,869	1,784,624	4,365,245	0.93	4,058,054
2019/20	24.0	58.2%	36.0	72.5%	30.0% *	5,476,269	1,642,881	3,833,388	0.94	3,592,979
2020/21	12.0	22.6%	24.0	58.2%	30.0% *	8,136,635	2,440,991	5,695,644	0.95	5,389,349
2021/22	0.0	0.0%	12.0	22.6%	22.6% *	10,935,000	2,473,364	8,461,636	0.96	8,116,641
Total						\$42,619,355	\$11,040,452	\$31,578,903		\$29,486,318

* - Limited to a maximum of 30% per actuarial judgment.

(3) and (5) are from Exhibit WC-Gov-Med-2.

(7) to 2020/21 is from Exhibit WC-Gov-Med-13, (9). The amount for 2021/22 is from Exhibit WC-Gov-Med-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit WC-Gov-Med-2.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Exhibit WC-Gov-Med-15

Loss Rate and Severity Trend

I. Benefit Level Changes

Effective Date (1)	Benefit Level Change (2)	Cumulative Benefit Level Change (3)
01/01/10	0.992	0.992
01/01/11	1.015	1.007
09/01/11	0.853	0.859
01/01/12	1.015	0.872
11/20/12	0.994	0.867
01/01/13	1.009	0.874
01/01/14	1.008	0.881
07/16/14	1.003	0.884
01/01/15	1.010	0.893
01/01/16	1.003	0.895
01/01/17	1.006	0.901
01/01/18	1.011	0.911

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2019/20 = 1.000) (2)	Residual Trend (2019/20 = 1.000) (3)	Retention Index (2019/20 = 1.000) (4)	Loss Rate Trend (2019/20 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2019/20 = 1.000) (6)	Severity Trend (2019/20 = 1.000) (5)X(6) (7)
2009/10	0.918	1.480	1.000	1.359	1.344	1.826
2010/11	0.940	1.423	1.000	1.338	1.305	1.746
2011/12	1.046	1.369	1.000	1.432	1.267	1.814
2012/13	1.042	1.316	1.000	1.372	1.230	1.687
2013/14	1.033	1.265	1.000	1.307	1.194	1.561
2014/15	1.021	1.217	1.000	1.242	1.159	1.440
2015/16	1.017	1.170	1.000	1.190	1.126	1.339
2016/17	1.012	1.125	1.000	1.138	1.093	1.243
2017/18	1.001	1.082	1.000	1.083	1.061	1.149
2018/19	1.000	1.040	1.000	1.040	1.030	1.071
2019/20	1.000	1.000	1.000	1.000	1.000	1.000
2020/21	1.000	0.962	1.000	0.962	0.971	0.934
2021/22	1.000	0.925	1.000	0.925	0.943	0.871

Section I, (2) and (3) reflect data published by the NCCI.

Section II, (2) is based on Section I, (2).

Section II, (3) is based on 4% trend per actuarial judgment.

Section II, (4) is based on industry statistics and actuarial judgment.

Section II, (6) is based on 3% trend.



COOK COUNTY, ILLINOIS
 WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Exhibit WC-Gov-Med-16

List of Large Claims
 Reported Incurred Losses Greater Than \$1,000,000

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/19 (5)	Unlimited Case Reserves 11/30/19 (6)	Unlimited Reported Incurred Losses 11/30/19 (7)
981246	08/07/98	to 1999/00	Unlimited	\$6,171,677	\$0	\$6,171,677
20020274	01/24/02	2001/02	9,500,000	1,471,257	0	1,471,257
20071070	08/01/07	2006/07	Unlimited	9,758	1,090,325	1,100,083

Amounts are gross of excess insurance and net of other recoveries.

Size of Loss Distribution

I. Reported Claim Count

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	16,856	423	517	639	492	323	19,250		
0.01 - 5,000	10,334	189	315	342	291	340	11,811	11,811	74.3%
5,000 - 10,000	976	38	76	71	71	43	1,275	13,086	82.3%
10,000 - 25,000	884	48	95	62	89	149	1,327	14,413	90.6%
25,000 - 50,000	462	47	52	65	76	111	813	15,226	95.7%
50,000 - 100,000	239	22	36	39	51	44	431	15,657	98.4%
100,000 - 250,000	148	10	15	20	15	9	217	15,874	99.8%
250,000 - 500,000	19	1	3	0	1	1	25	15,899	100.0%
500,000 - 750,000	4	0	0	0	0	0	4	15,903	100.0%
750,000 - 1,000,000	0	0	0	0	0	0	0	15,903	100.0%
Over 1,000,000	3	0	0	0	0	0	3	15,906	100.0%
Total	29,925	778	1,109	1,238	1,086	1,020	35,156	15,906	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
0.01 - 5,000	10,620,834	268,812	452,379	485,416	428,153	508,269	12,763,862	12,763,862	8.2%
5,000 - 10,000	6,867,921	257,484	564,880	525,311	536,042	335,458	9,087,097	21,850,959	14.1%
10,000 - 25,000	14,360,733	808,877	1,656,563	1,045,448	1,623,488	2,631,654	22,126,763	43,977,722	28.4%
25,000 - 50,000	16,193,832	1,594,961	1,916,269	2,448,016	2,788,875	4,048,850	28,990,803	72,968,525	47.1%
50,000 - 100,000	16,339,456	1,531,905	2,746,606	2,743,104	3,552,772	3,040,939	29,954,783	102,923,308	66.4%
100,000 - 250,000	22,761,811	1,584,463	2,149,300	3,085,616	2,152,221	1,116,652	32,850,063	135,773,371	87.6%
250,000 - 500,000	6,338,566	295,119	859,313	0	300,000	305,760	8,098,758	143,872,129	92.9%
500,000 - 750,000	2,296,230	0	0	0	0	0	2,296,230	146,168,359	94.4%
750,000 - 1,000,000	0	0	0	0	0	0	0	146,168,359	94.4%
Over 1,000,000	8,743,018	0	0	0	0	0	8,743,018	154,911,377	100.0%
Total	\$104,522,401	\$6,341,620	\$10,345,311	\$10,332,910	\$11,381,551	\$11,987,582	\$154,911,377	\$154,911,377	

Amounts are gross of excess insurance and net of other recoveries.

Data was provided by the County.

CookCounty_WC_Govt_Med_113019.xlsx



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Data Summary as of November 30, 2019
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Revenue (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Limited Paid Losses 11/30/19 (8)	Limited Case Reserves 11/30/19 (9)	Limited Reported Incurred Losses 11/30/19 (10)
to 1999/00	See Note	None	240.0	Not Provided	834	0	\$5,706,076	\$0	\$5,706,076
2000/01	9,500,000	40,000,000	228.0	1,068,809	135	0	681,673	0	681,673
2001/02	9,500,000	40,000,000	216.0	1,057,079	107	0	264,864	0	264,864
2002/03	9,500,000	45,000,000	204.0	1,086,728	74	0	431,980	0	431,980
2003/04	10,000,000	None	192.0	1,199,434	76	0	40,287	0	40,287
2004/05	10,000,000	25,000,000	180.0	1,189,789	104	0	236,472	0	236,472
2005/06	10,000,000	25,000,000	168.0	1,357,723	85	0	151,662	0	151,662
2006/07	10,000,000	None	156.0	1,243,144	82	0	111,956	0	111,956
2007/08	10,000,000	None	144.0	1,207,801	246	0	538,122	0	538,122
2008/09	10,000,000	None	132.0	1,303,812	204	0	195,329	0	195,329
2009/10	10,000,000	None	120.0	1,287,986	101	0	325,332	0	325,332
2010/11	10,000,000	None	108.0	1,293,078	121	0	153,831	0	153,831
2011/12	10,000,000	None	96.0	1,331,769	74	0	146,905	0	146,905
2012/13	15,000,000	None	84.0	1,285,791	119	0	369,930	0	369,930
2013/14	15,000,000	None	72.0	1,362,902	291	0	259,375	0	259,375
2014/15	15,000,000	None	60.0	1,509,150	104	0	373,224	0	373,224
2015/16	15,000,000	None	48.0	1,699,156	85	2	158,465	150,000	308,465
2016/17	15,000,000	None	36.0	1,753,287	107	8	74,247	169,900	244,147
2017/18	20,000,000	None	24.0	1,675,248	125	94	144,521	669,094	813,616
2018/19	20,000,000	None	12.0	Not Provided	177	104	61,680	132,892	194,573
Total					3,251	208	\$10,425,930	\$1,121,887	\$11,547,817

* The specific self-insured retention changes are as follows:

Effective Date	Retention
12/01/90	Unlimited
12/01/00	9,500,000
12/01/03	10,000,000
03/01/13	15,000,000
07/01/18	20,000,000

(8), (9) and (10) are net of the specific self-insured retention and other recoveries.

Data was provided by the County.

Data Summary as of November 30, 2019
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Revenue (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Net Unlimited Paid Losses 11/30/19 (8)	Net Unlimited Case Reserves 11/30/19 (9)	Net Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	834	0	\$5,706,076	\$0	\$5,706,076
2000/01	Unlimited	40,000,000	228.0	1,068,809	135	0	681,673	0	681,673
2001/02	Unlimited	40,000,000	216.0	1,057,079	107	0	264,864	0	264,864
2002/03	Unlimited	45,000,000	204.0	1,086,728	74	0	431,980	0	431,980
2003/04	Unlimited	None	192.0	1,199,434	76	0	40,287	0	40,287
2004/05	Unlimited	25,000,000	180.0	1,189,789	104	0	236,472	0	236,472
2005/06	Unlimited	25,000,000	168.0	1,357,723	85	0	151,662	0	151,662
2006/07	Unlimited	None	156.0	1,243,144	82	0	111,956	0	111,956
2007/08	Unlimited	None	144.0	1,207,801	246	0	538,122	0	538,122
2008/09	Unlimited	None	132.0	1,303,812	204	0	195,329	0	195,329
2009/10	Unlimited	None	120.0	1,287,986	101	0	325,332	0	325,332
2010/11	Unlimited	None	108.0	1,293,078	121	0	153,831	0	153,831
2011/12	Unlimited	None	96.0	1,331,769	74	0	146,905	0	146,905
2012/13	Unlimited	None	84.0	1,285,791	119	0	369,930	0	369,930
2013/14	Unlimited	None	72.0	1,362,902	291	0	259,375	0	259,375
2014/15	Unlimited	None	60.0	1,509,150	104	0	373,224	0	373,224
2015/16	Unlimited	None	48.0	1,699,156	85	2	158,465	150,000	308,465
2016/17	Unlimited	None	36.0	1,753,287	107	8	74,247	169,900	244,147
2017/18	Unlimited	None	24.0	1,675,248	125	94	144,521	669,094	813,616
2018/19	Unlimited	None	12.0	Not Provided	177	104	61,680	132,892	194,573
Total					3,251	208	\$10,425,930	\$1,121,887	\$11,547,817

(8), (9) and (10) are gross of the specific self-insured retention and net of other recoveries.

Data was provided by the County.



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Data Summary as of November 30, 2019
Gross Unlimited Losses

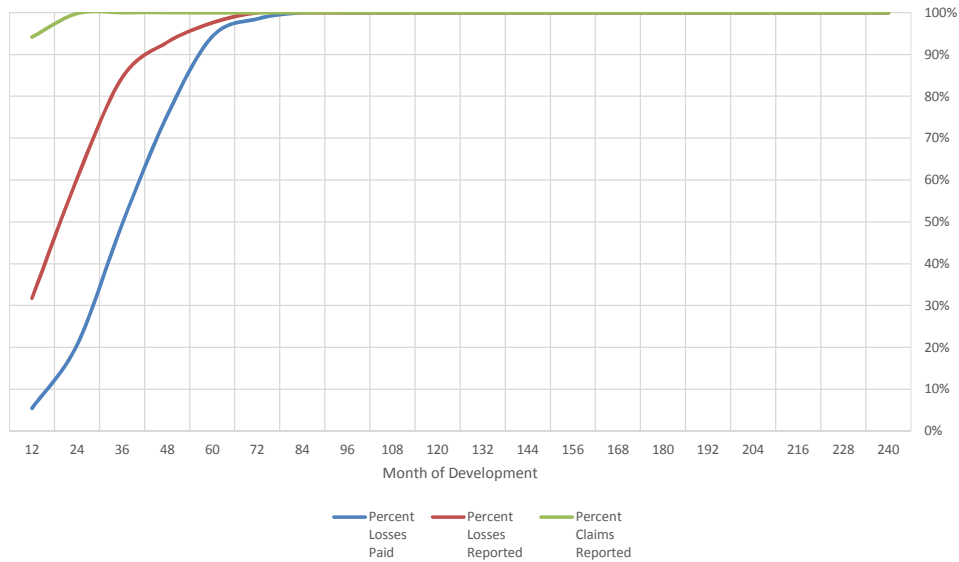
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Revenue (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Gross Unlimited Paid Losses 11/30/19 (8)	Gross Unlimited Case Reserves 11/30/19 (9)	Gross Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	834	0	\$5,706,076	\$0	\$5,706,076
2000/01	Unlimited	40,000,000	228.0	1,068,809	135	0	681,673	0	681,673
2001/02	Unlimited	40,000,000	216.0	1,057,079	107	0	264,864	0	264,864
2002/03	Unlimited	45,000,000	204.0	1,086,728	74	0	431,980	0	431,980
2003/04	Unlimited	None	192.0	1,199,434	76	0	40,287	0	40,287
2004/05	Unlimited	25,000,000	180.0	1,189,789	104	0	236,472	0	236,472
2005/06	Unlimited	25,000,000	168.0	1,357,723	85	0	151,662	0	151,662
2006/07	Unlimited	None	156.0	1,243,144	82	0	111,956	0	111,956
2007/08	Unlimited	None	144.0	1,207,801	246	0	538,122	0	538,122
2008/09	Unlimited	None	132.0	1,303,812	204	0	195,329	0	195,329
2009/10	Unlimited	None	120.0	1,287,986	101	0	325,332	0	325,332
2010/11	Unlimited	None	108.0	1,293,078	121	0	153,831	0	153,831
2011/12	Unlimited	None	96.0	1,331,769	74	0	146,905	0	146,905
2012/13	Unlimited	None	84.0	1,285,791	119	0	369,930	0	369,930
2013/14	Unlimited	None	72.0	1,362,902	291	0	259,375	0	259,375
2014/15	Unlimited	None	60.0	1,509,150	104	0	373,224	0	373,224
2015/16	Unlimited	None	48.0	1,699,156	85	2	158,465	150,000	308,465
2016/17	Unlimited	None	36.0	1,753,287	107	8	74,247	169,900	244,147
2017/18	Unlimited	None	24.0	1,675,248	125	94	144,521	678,396	813,616
2018/19	Unlimited	None	12.0	Not Provided	177	104	61,680	139,172	194,573
Total					3,251	208	\$10,425,930	\$1,137,468	\$11,547,817

(8), (9) and (10) are gross of the specific self-insured retention and other recoveries.

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	100.0%	100.0%	100.0%
120.0	100.0%	100.0%	100.0%
108.0	100.0%	100.0%	100.0%
96.0	100.0%	100.0%	100.0%
84.0	100.0%	100.0%	100.0%
72.0	98.5%	100.0%	100.0%
60.0	94.3%	97.6%	100.0%
48.0	75.4%	92.9%	100.0%
36.0	49.5%	84.5%	100.0%
24.0	20.6%	60.3%	99.8%
12.0	5.4%	31.8%	94.2%



(2) is from Exhibit GL-2 (page 2).

(3) is from Exhibit GL-2 (page 3).

(4) is from Exhibit GL-2 (page 4).

Historical Limited Paid Losses (\$000) and Limited Paid Loss Development

I. Historical Limited Paid Losses (\$000)

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																				\$5,706	\$5,706
2000/01	6	16	515	579	590	685	693	693	693	693	693	693	693	693	693	693	678	678	682		
2001/02	13	20	93	93	93	243	243	243	243	243	243	243	243	243	243	252	252	265			
2002/03	1	10	20	24	429	429	429	429	429	429	429	429	429	429	419	419	432				
2003/04	5	18	22	22	35	35	35	35	35	35	35	35	35	30	30	40					
2004/05	10	24	61	222	222	222	222	222	222	222	222	222	222	222	236						
2005/06	4	41	74	164	164	164	170	170	170	170	170	138	138	152							
2006/07	21	38	99	118	118	118	118	118	118	98	98	112									
2007/08	37	69	81	128	398	402	447	447	447	486	486	538									
2008/09	15	40	47	47	152	152	152	152	153	153	195										
2009/10	19	27	119	205	205	313	313	311	311	325											
2010/11	13	20	24	139	139	139	139	139	154												
2011/12	20	24	39	90	140	140	140	147													
2012/13	303	314	315	356	356	370															
2013/14	24	80	98	212	214	259															
2014/15	9	27	338	353	373																
2015/16	12	104	116	158																	
2016/17	3	21	74																		
2017/18	15	145																			
2018/19	62																				

II. Limited Paid Loss Development

Claim Period	Months of Development:																				
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult	
to 1999/00																				1.000	
2000/01	2.549	31.729	1.124	1.020	1.161	1.011	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.978	1.000	1.006			
2001/02	1.557	4.709	1.000	1.000	2.619	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.040	1.000	1.049				
2002/03	8.386	2.019	1.199	17.775	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.978	1.000	1.031					
2003/04	3.393	1.199	1.000	1.623	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.840	1.000	1.364						
2004/05	2.462	2.571	3.623	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.998	1.000	1.065								
2005/06	11.562	1.797	2.222	1.000	1.000	1.040	1.000	1.000	1.000	1.000	0.810	1.000	1.099								
2006/07	1.784	2.622	1.192	1.000	1.000	1.000	1.000	1.000	1.000	0.830	1.000	1.144									
2007/08	1.851	1.173	1.590	3.101	1.009	1.112	1.000	1.000	1.088	1.000	1.107										
2008/09	2.643	1.180	1.000	3.229	1.000	1.000	1.000	1.008	1.000	1.274											
2009/10	1.443	4.407	1.720	1.000	1.527	1.000	0.994	1.000	1.046												
2010/11	1.534	1.200	5.761	1.000	1.000	1.000	1.000	1.110													
2011/12	1.204	1.622	2.301	1.555	1.000	1.000	1.049														
2012/13	1.038	1.003	1.131	1.000	1.000	1.038															
2013/14	3.276	1.225	2.161	1.011	1.213																
2014/15	2.893	12.701	1.044	1.057																	
2015/16	8.979	1.119	1.363																		
2016/17	7.834	3.568																			
2017/18	9.341																				
2018/19																					
Average																					
All	4.096	4.461	1.840	2.491	1.181	1.015	1.004	1.011	1.013	1.012	0.990	1.020	0.990	1.009	1.101	1.003	1.025	1.006	1.000		
Wtd 3	9.065	3.493	1.309	1.024	1.064	1.021	1.008	1.027	1.059	1.029	1.026	1.030	1.020	1.007	1.030	0.998					
Last 3	8.718	5.796	1.523	1.023	1.071	1.013	1.014	1.039	1.045	1.035	0.972	1.048	0.980	1.014	1.135	1.003					
Last 5	6.696	1.971	1.552	1.023	1.071	1.000	1.000	1.003	1.015	1.000	1.000	1.000	1.000	1.000							
x-hi,low																					
Similar	2.750	1.740	1.430	1.245	1.130	1.080	1.060	1.037	1.028	1.019	1.014	1.011	1.008	1.006	1.005	1.004	1.003	1.002	1.006		
Previous	3.800	2.400	1.525	1.250	1.045	1.015	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
Selected	3.800	2.400	1.525	1.250	1.045	1.015	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
Cumulative	18.440	4.853	2.022	1.326	1.061	1.015	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
Percent	5.4%	20.6%	49.5%	75.4%	94.3%	98.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Amounts are limited (net of excess insurance).

Data was provided by the County.



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Historical Limited Reported Incurred Losses (\$000) and Limited Reported Incurred Loss Development

I. Historical Limited Reported Incurred Losses (\$000)

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																				\$5,706	\$5,706
2000/01	817	3,836	690	734	725	693	693	2,193	2,193	1,693	693	693	693	693	693	693	678	678	682		
2001/02	320	270	1,108	1,613	761	443	303	303	303	243	243	243	243	243	243	252	252	265			
2002/03	125	1,626	12,779	12,979	439	429	429	429	429	429	429	429	429	429	419	419	432				
2003/04	641	327	337	982	55	35	35	35	35	35	35	35	35	30	30	40					
2004/05	488	751	411	267	222	222	222	222	222	222	222	222	222	222	236						
2005/06	200	527	421	214	184	176	170	170	170	170	170	138	138	152							
2006/07	412	421	317	133	133	118	118	118	118	98	98	112									
2007/08	197	638	530	453	453	512	447	447	447	486	486	538									
2008/09	169	127	70	47	152	152	152	153	153	195											
2009/10	117	211	332	310	305	313	313	311	311	325											
2010/11	68	219	59	139	139	139	139	139	139	154											
2011/12	205	253	396	395	170	140	140	147													
2012/13	383	410	384	356	356	356	370														
2013/14	135	223	258	242	214	259															
2014/15	84	411	364	353	373																
2015/16	113	236	196	308																	
2016/17	71	186	244																		
2017/18	196	814																			
2018/19	195																				

II. Limited Reported Incurred Loss Development

Claim Period	Months of Development:																				
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult	
to 1999/00																					1.000
2000/01	4.695	0.180	1.064	0.989	0.955	1.000	3.165	1.000	0.772	0.409	1.000	1.000	1.000	1.000	1.000	0.978	1.000	1.006			
2001/02	0.843	4.107	1.455	0.472	0.582	0.684	1.000	1.000	0.802	1.000	1.000	1.000	1.000	1.000	1.040	1.000	1.049				
2002/03	13.027	7.857	1.016	0.034	0.977	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.978	1.000	1.031					
2003/04	0.510	1.030	2.916	0.056	0.637	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.840	1.000	1.364						
2004/05	1.540	0.547	0.650	0.832	1.000	1.000	1.000	1.000	1.000	1.000	0.998	1.000	1.065								
2005/06	2.632	0.800	0.507	0.860	0.959	0.966	1.000	1.000	1.000	1.000	0.810	1.000	1.099								
2006/07	1.022	0.755	0.419	1.000	0.887	1.000	1.000	1.000	1.000	0.830	1.000	1.144									
2007/08	3.239	0.831	0.855	1.000	1.129	0.873	1.000	1.000	1.088	1.000	1.107										
2008/09	0.756	0.550	0.672	3.229	1.000	1.000	1.000	1.008	1.000	1.274											
2009/10	1.805	1.575	0.935	0.984	1.026	1.000	0.994	1.000	1.046												
2010/11	3.222	0.269	2.346	1.000	1.000	1.000	1.000	1.110													
2011/12	1.234	1.567	0.998	0.430	0.824	1.000	1.049														
2012/13	1.070	0.936	0.929	1.000	1.000	1.038															
2013/14	1.658	1.156	0.939	0.883	1.213																
2014/15	4.905	0.886	0.969	1.057																	
2015/16	2.101	0.830	1.572																		
2016/17	2.627	1.314																			
2017/18	4.160																				
2018/19																					
Average																					
All	2.836	1.482	1.140	0.922	0.942	0.966	1.184	1.011	0.971	0.946	0.990	1.020	0.990	1.009	1.101	1.003	1.025	1.006	1.000		
Wtd 3	3.262	0.965	1.104	0.991	1.021	1.021	1.008	1.027	1.059	1.029	1.026	1.030	1.020	1.007	1.030	0.998					
Last 3	2.962	1.010	1.160	0.980	1.012	1.013	1.014	1.039	1.045	1.035	0.972	1.048	0.980	1.014	1.135	1.003					
Last 5	2.962	0.993	0.969	0.961	1.009	1.000	1.000	1.003	1.015	1.000	1.000	1.000	1.000	1.000							
x-hi,low																					
Similar	1.900	1.400	1.220	1.120	1.070	1.045	1.030	1.020	1.014	1.009	1.007	1.005	1.004	1.003	1.002	1.002	1.001	1.001	1.003		
Previous	1.900	1.400	1.100	1.050	1.025	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	
Selected	1.900	1.400	1.100	1.050	1.025	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	
Cumulative	3.149	1.657	1.184	1.076	1.025	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	
Percent	31.8%	60.3%	84.5%	92.9%	97.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Amounts are limited (net of excess insurance).

Data was provided by the County.

Historical Reported Claims and Reported Claim Development

I. Historical Reported Claims

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																				834	834
2000/01	82	45	41	41	41	41	41	41	41	41	41	41	41	41	41	41	135	135	135		
2001/02	46	34	33	33	33	33	33	33	33	33	33	33	33	33	33	107	107	107			
2002/03	32	34	34	34	34	34	34	34	34	34	34	34	34	34	74	74	74				
2003/04	34	34	34	34	34	34	34	34	34	34	34	34	34	76	76	76					
2004/05	65	65	65	65	65	65	65	65	65	65	65	65	104	104	104						
2005/06	40	40	40	40	40	40	40	40	40	40	40	85	85	85							
2006/07	49	49	49	49	49	49	49	49	49	82	82	82									
2007/08	212	212	212	212	212	212	212	212	212	246	246	246									
2008/09	142	142	142	142	142	142	142	142	204	204	204										
2009/10	68	68	68	68	68	68	68	101	101	101											
2010/11	48	48	48	48	48	48	121	121	121												
2011/12	52	52	52	52	52	74	74	74													
2012/13	68	68	68	68	119	119	119														
2013/14	222	222	222	291	291	291															
2014/15	41	41	104	104	104																
2015/16	30	83	84	85																	
2016/17	79	103	107																		
2017/18	105	125																			
2018/19	177																				

II. Reported Claim Development

Claim Period	Months of Development:																				
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult	
to 1999/00																				1.000	
2000/01	0.549	0.911	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	3.293	1.000	1.000			
2001/02	0.739	0.971	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	3.242	1.000	1.000				
2002/03	1.063	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	2.176	1.000	1.000					
2003/04	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	2.235	1.000	1.000							
2004/05	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.600	1.000	1.000	1.000							
2005/06	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	2.125	1.000	1.000	1.000							
2006/07	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.673	1.000	1.000									
2007/08	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.160	1.000	1.000										
2008/09	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.437	1.000	1.000											
2009/10	1.000	1.000	1.000	1.000	1.000	1.000	1.485	1.000	1.000												
2010/11	1.000	1.000	1.000	1.000	1.000	2.521	1.000	1.000													
2011/12	1.000	1.000	1.000	1.000	1.423	1.000	1.000														
2012/13	1.000	1.000	1.000	1.750	1.000	1.000															
2013/14	1.000	1.000	1.311	1.000	1.000																
2014/15	1.000	2.537	1.000	1.000																	
2015/16	2.767	1.012	1.012																		
2016/17	1.304	1.039																			
2017/18	1.190																				
2018/19																					
Average																					
All	1.090	1.086	1.020	1.050	1.030	1.117	1.040	1.040	1.016	1.075	1.141	1.086	1.206	1.235	1.561	1.764	1.000	1.000	1.000		
Wtd 3	1.453	1.300	1.171	1.110	1.048	1.303	1.125	1.170	1.066	1.066	1.122	1.168	1.188	1.187	1.404	1.423					
Last 3	1.754	1.529	1.108	1.250	1.141	1.507	1.162	1.146	1.053	1.224	1.375	1.200	1.412	1.392	1.747	1.764					
Last 5	1.165	1.017	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
x-hi,low																					
Similar	1.219	1.047	1.026	1.015	1.012	1.011	1.012	1.013	1.017	1.003	1.003	1.002	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.001	
Previous	1.050	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	1.000	1.000	1.000	1.000	1.000	
Selected	1.060	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	1.000	1.000	1.000	1.000	1.000	
Cumulative	1.062	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	1.000	1.000	1.000	1.000	1.000	
Percent	94.2%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Data was provided by the County.

Historical Ratio of Limited Paid Losses and Limited Reported Incurred Losses

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																				100.0%	100.0%
2000/01	0.8%	0.4%	74.6%	78.9%	81.4%	98.9%	100.0%	31.6%	31.6%	40.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2001/02	3.9%	7.3%	8.4%	5.7%	12.2%	54.8%	80.2%	80.2%	80.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2002/03	1.0%	0.6%	0.2%	0.2%	97.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2003/04	0.8%	5.5%	6.4%	2.2%	63.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2004/05	2.0%	3.2%	14.9%	83.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2005/06	1.8%	7.8%	17.5%	76.6%	89.1%	92.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2006/07	5.1%	9.0%	31.1%	88.7%	88.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2007/08	18.9%	10.8%	15.2%	28.3%	87.9%	78.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2008/09	9.0%	31.3%	67.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2009/10	16.1%	12.8%	35.9%	66.1%	67.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2010/11	19.2%	9.1%	40.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2011/12	9.8%	9.5%	9.9%	22.8%	82.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2012/13	79.1%	76.7%	82.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2013/14	18.1%	35.8%	38.0%	87.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2014/15	11.0%	6.5%	92.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2015/16	10.3%	43.9%	59.2%	51.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2016/17	3.8%	11.2%	30.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2017/18	7.9%	17.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2018/19	31.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Average																					
All	13.2%	16.6%	36.7%	62.0%	84.7%	94.7%	98.5%	92.6%	92.0%	94.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 3	14.5%	24.3%	60.8%	79.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 5	9.7%	21.6%	59.8%	79.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
x-hi,low																					
Implicit	17.1%	34.2%	58.6%	81.2%	96.6%	98.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Prior	17.1%	34.2%	58.6%	81.2%	96.6%	98.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Paid Losses 11/30/19 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1999/00	240.0	\$5,706,076	100.0%	\$5,706,076
2000/01	228.0	681,673	100.0%	681,673
2001/02	216.0	264,864	100.0%	264,864
2002/03	204.0	431,980	100.0%	431,980
2003/04	192.0	40,287	100.0%	40,287
2004/05	180.0	236,472	100.0%	236,472
2005/06	168.0	151,662	100.0%	151,662
2006/07	156.0	111,956	100.0%	111,956
2007/08	144.0	538,122	100.0%	538,122
2008/09	132.0	195,329	100.0%	195,329
2009/10	120.0	325,332	100.0%	325,332
2010/11	108.0	153,831	100.0%	153,831
2011/12	96.0	146,905	100.0%	146,905
2012/13	84.0	369,930	100.0%	369,930
2013/14	72.0	259,375	98.5%	263,265
2014/15	60.0	373,224	94.3%	395,869
2015/16	48.0	158,465	75.4%	210,099
2016/17	36.0	74,247	49.5%	150,121
2017/18	24.0	144,521	20.6%	701,303
2018/19	12.0	61,680	5.4%	1,137,376
Total		\$10,425,930		\$12,212,452

(3) is from Exhibit GL-1.

(4) is from Exhibit GL-2.

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1999/00	240.0	\$5,706,076	100.0%	\$5,706,076
2000/01	228.0	681,673	100.0%	681,673
2001/02	216.0	264,864	100.0%	264,864
2002/03	204.0	431,980	100.0%	431,980
2003/04	192.0	40,287	100.0%	40,287
2004/05	180.0	236,472	100.0%	236,472
2005/06	168.0	151,662	100.0%	151,662
2006/07	156.0	111,956	100.0%	111,956
2007/08	144.0	538,122	100.0%	538,122
2008/09	132.0	195,329	100.0%	195,329
2009/10	120.0	325,332	100.0%	325,332
2010/11	108.0	153,831	100.0%	153,831
2011/12	96.0	146,905	100.0%	146,905
2012/13	84.0	369,930	100.0%	369,930
2013/14	72.0	259,375	100.0%	259,375
2014/15	60.0	373,224	97.6%	382,554
2015/16	48.0	308,465	92.9%	331,985
2016/17	36.0	244,147	84.5%	289,039
2017/18	24.0	813,616	60.3%	1,348,507
2018/19	12.0	194,573	31.8%	612,730
Total		\$11,547,817		\$12,578,609

(3) is from Exhibit GL-1.

(4) is from Exhibit GL-2.

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/19 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/19 (6)	Limited Case Reserves 11/30/19 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1999/00	240.0	100.0%	100.0%	100.0%	\$5,706,076	\$0	\$5,706,076
2000/01	228.0	100.0%	100.0%	100.0%	681,673	0	681,673
2001/02	216.0	100.0%	100.0%	100.0%	264,864	0	264,864
2002/03	204.0	100.0%	100.0%	100.0%	431,980	0	431,980
2003/04	192.0	100.0%	100.0%	100.0%	40,287	0	40,287
2004/05	180.0	100.0%	100.0%	100.0%	236,472	0	236,472
2005/06	168.0	100.0%	100.0%	100.0%	151,662	0	151,662
2006/07	156.0	100.0%	100.0%	100.0%	111,956	0	111,956
2007/08	144.0	100.0%	100.0%	100.0%	538,122	0	538,122
2008/09	132.0	100.0%	100.0%	100.0%	195,329	0	195,329
2009/10	120.0	100.0%	100.0%	100.0%	325,332	0	325,332
2010/11	108.0	100.0%	100.0%	100.0%	153,831	0	153,831
2011/12	96.0	100.0%	100.0%	100.0%	146,905	0	146,905
2012/13	84.0	100.0%	100.0%	100.0%	369,930	0	369,930
2013/14	72.0	98.5%	100.0%	100.0%	259,375	0	259,375
2014/15	60.0	94.3%	97.6%	57.4%	373,224	0	373,224
2015/16	48.0	75.4%	92.9%	71.2%	158,465	150,000	369,221
2016/17	36.0	49.5%	84.5%	69.3%	74,247	169,900	319,520
2017/18	24.0	20.6%	60.3%	50.0%	144,521	669,094	1,481,673
2018/19	12.0	5.4%	31.8%	27.8%	61,680	132,892	538,991
Total					\$10,425,930	\$1,121,887	\$12,696,422

(3) and (4) are from Exhibit GL-2.

(6) and (7) are from Exhibit GL-1.

Preliminary Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	Preliminary Projected Ultimate Limited Losses (5)
to 1999/00	\$5,706,076	\$5,706,076	\$5,706,076	\$5,706,076
2000/01	681,673	681,673	681,673	681,673
2001/02	264,864	264,864	264,864	264,864
2002/03	431,980	431,980	431,980	431,980
2003/04	40,287	40,287	40,287	40,287
2004/05	236,472	236,472	236,472	236,472
2005/06	151,662	151,662	151,662	151,662
2006/07	111,956	111,956	111,956	111,956
2007/08	538,122	538,122	538,122	538,122
2008/09	195,329	195,329	195,329	195,329
2009/10	325,332	325,332	325,332	325,332
2010/11	153,831	153,831	153,831	153,831
2011/12	146,905	146,905	146,905	146,905
2012/13	369,930	369,930	369,930	369,930
2013/14	263,265	259,375	259,375	259,375
2014/15	395,869	382,554	373,224	373,224
2015/16	210,099	331,985	369,221	338,414
2016/17	150,121	289,039	319,520	273,448
2017/18	701,303	1,348,507	1,481,673	1,272,333
2018/19	1,137,376	612,730	538,991	688,164
Total	\$12,212,452	\$12,578,609	\$12,696,422	\$12,559,375

(2) is from Exhibit GL-3.

(3) is from Exhibit GL-4.

(4) is from Exhibit GL-5.

(5) is based on (2) to (4) and actuarial judgment.

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Revenue (000) (3)	Limited Loss Rate per \$1,000 of Revenue (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per \$1,000 of Revenue (4)X(5) (6)	Projected A-priori Loss Rate per \$1,000 of Revenue (7)/(5) (8)
2009/10	\$325,332	\$1,287,986	\$0.25	1.480	\$0.37	\$0.18
2010/11	153,831	1,293,078	0.12	1.423	0.17	0.19
2011/12	146,905	1,331,769	0.11	1.369	0.15	0.20
2012/13	369,930	1,285,791	0.29	1.316	0.38	0.20
2013/14	259,375	1,362,902	0.19	1.265	0.24	0.21
2014/15	373,224	1,509,150	0.25	1.217	0.30	0.22
2015/16	338,414	1,699,156	0.20	1.170	0.23	0.23
2016/17	273,448	1,753,287	0.16	1.125	0.18	0.24
2017/18	1,272,333	1,675,248	0.76	1.082	0.82	0.25
2018/19	688,164	1,675,248	0.41	1.040	0.43	0.26

(7) Projected 2019/20 a-priori loss rate per \$1,000 of Revenue \$0.27

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Percent Losses Paid (3)	Projected A-priori Loss Rate per \$1,000 of Revenue (4)	Revenue (000) (5)	B-F Unpaid Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Paid Losses (2)+(6) (7)
2014/15	\$373,224	94.3%	\$0.22	\$1,509,150	\$18,975	\$392,199
2015/16	158,465	75.4%	0.23	1,699,156	95,458	253,922
2016/17	74,247	49.5%	0.24	1,753,287	210,668	284,915
2017/18	144,521	20.6%	0.25	1,675,248	328,841	473,363
2018/19	61,680	5.4%	0.26	1,675,248	407,405	469,085

III. Bornhuetter - Ferguson Analysis Based on Limited Reported Incurred Losses

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Percent Losses Reported (3)	Projected A-priori Loss Rate per \$1,000 of Revenue (4)	Revenue (000) (5)	B-F Unreported Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Reported Losses (2)+(6) (7)
2014/15	\$373,224	97.6%	\$0.22	\$1,509,150	\$8,091	\$381,314
2015/16	308,465	92.9%	0.23	1,699,156	27,518	335,983
2016/17	244,147	84.5%	0.24	1,753,287	64,739	308,886
2017/18	813,616	60.3%	0.25	1,675,248	164,293	977,909
2018/19	194,573	31.8%	0.26	1,675,248	293,976	488,548

Section I, (2) is from Exhibit GL-6.

Section I, (3), Section II, (5) and Section III, (5) are from Exhibit GL-10.

Section I, (5) is based on a 4% trend.

Section I, (7) is based on Section I, (6) and actuarial judgment.

Sections II and III, (2) are from Exhibit GL-1.

Sections II and III, (3) are from Exhibit GL-2.

Sections II and III, (4) are from Section I, (8).

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/19 (2)	Reported Claims 11/30/19 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Revenue (000) (6)	Frequency (per \$1M of Revenue) (5)/(6)X1,000 (7)
2009/10	120.0	101	100.0%	101	\$1,287,986	0.08
2010/11	108.0	121	100.0%	121	1,293,078	0.09
2011/12	96.0	74	100.0%	74	1,331,769	0.06
2012/13	84.0	119	100.0%	119	1,285,791	0.09
2013/14	72.0	291	100.0%	291	1,362,902	0.21
2014/15	60.0	104	100.0%	104	1,509,150	0.07
2015/16	48.0	85	100.0%	85	1,699,156	0.05
2016/17	36.0	107	100.0%	107	1,753,287	0.06
2017/18	24.0	125	99.8%	125	1,675,248	0.07
2018/19	12.0	177	94.2%	188	1,675,248	0.11

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2019/20 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2019/20 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2009/10	\$325,332	101	\$3,221	1.480	\$4,768	\$2,287	\$230,961
2010/11	153,831	121	1,271	1.423	1,810	2,378	287,764
2011/12	146,905	74	1,985	1.369	2,717	2,473	183,028
2012/13	369,930	119	3,109	1.316	4,091	2,572	306,101
2013/14	259,375	291	891	1.265	1,128	2,675	778,475
2014/15	373,224	104	3,589	1.217	4,366	2,782	289,346
2015/16	338,414	85	3,981	1.170	4,658	2,893	245,944
2016/17	273,448	107	2,556	1.125	2,875	3,009	321,985
2017/18	1,272,333	125	10,179	1.082	11,009	3,130	391,196
2018/19	688,164	188	3,660	1.040	3,807	3,255	611,894

(7) Projected 2019/20 average claim severity \$3,385

Section I, (3) is from Exhibit GL-1.

Section I, (4) is from Exhibit GL-2.

Section I, (6) is from Exhibit GL-10.

Section II, (2) is from Exhibit GL-6.

Section II, (3) is from Section I, (5).

Section II, (5) is based on a 4% trend.

Section II, (7) is based on (6) and actuarial judgment.

Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	B-F Ultimate Limited Paid Losses (5)	B-F Ultimate Limited Reported Losses (6)	Frequency Times Severity (7)	Prior Projected Ultimate Limited Losses (8)	Projected Ultimate Limited Losses (9)
to 1999/00	\$5,706,076	\$5,706,076	\$5,706,076				\$5,705,799	\$5,706,076
2000/01	681,673	681,673	681,673				677,872	681,673
2001/02	264,864	264,864	264,864				252,425	264,864
2002/03	431,980	431,980	431,980				419,113	431,980
2003/04	40,287	40,287	40,287				29,531	40,287
2004/05	236,472	236,472	236,472				221,976	236,472
2005/06	151,662	151,662	151,662				137,967	151,662
2006/07	111,956	111,956	111,956				97,830	111,956
2007/08	538,122	538,122	538,122				486,144	538,122
2008/09	195,329	195,329	195,329				153,328	195,329
2009/10	325,332	325,332	325,332				311,026	325,332
2010/11	153,831	153,831	153,831				138,548	153,831
2011/12	146,905	146,905	146,905				140,020	146,905
2012/13	369,930	369,930	369,930				356,365	369,930
2013/14	263,265	259,375	259,375				213,890	259,375
2014/15	395,869	382,554	373,224	392,199	381,314	289,346	353,121	373,224
2015/16	210,099	331,985	369,221	253,922	335,983	245,944	275,000	338,000
2016/17	150,121	289,039	319,520	284,915	308,886	321,985	325,000	300,000
2017/18	701,303	1,348,507	1,481,673	473,363	977,909	391,196	470,000	1,050,000
2018/19	1,137,376	612,730	538,991	469,085	488,548	611,894	400,000	500,000
Total	\$12,212,452	\$12,578,609	\$12,696,422				\$11,164,955	\$12,175,017
2014/15 - 2018/19	2,594,768	2,964,816	3,082,629	1,873,485	2,492,640	1,860,366	1,823,121	2,561,224
to 2013/14	9,617,683	9,613,793	9,613,793				9,341,835	9,613,793
						Change		
						All years 2014/15 - 2018/19 to 2013/14		\$1,010,061 738,103 271,958

(2) is from Exhibit GL-3.

(3) is from Exhibit GL-4.

(4) is from Exhibit GL-5.

(5) and (6) are from Exhibit GL-7.

(7) is from Exhibit GL-8.

(8) is based on (2) to (7) and actuarial judgment.

Projected Ultimate Limited Losses for 2019/20 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Revenue (000) (3)	Limited Loss Rate per \$1,000 of Revenue (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per \$1,000 of Revenue (4)X(5) (6)
2009/10	\$325,332	\$1,287,986	\$0.25	1.480	\$0.37
2010/11	153,831	1,293,078	0.12	1.423	0.17
2011/12	146,905	1,331,769	0.11	1.369	0.15
2012/13	369,930	1,285,791	0.29	1.316	0.38
2013/14	259,375	1,362,902	0.19	1.265	0.24
2014/15	373,224	1,509,150	0.25	1.217	0.30
2015/16	338,000	1,699,156	0.20	1.170	0.23
2016/17	300,000	1,753,287	0.17	1.125	0.19
2017/18	1,050,000	1,675,248	0.63	1.082	0.68
2018/19	500,000	1,675,248	0.30	1.040	0.31
Total	\$3,816,597	\$14,873,615	\$0.26		\$0.30

Claim Period (1)	Projected Limited Loss Rate per \$1,000 of Revenue (7)	Projected Revenue (000) (8)	Projected Ultimate Limited Losses (7)X(8) (9)	Present Value Factor (10)	Present Value of Projected Limited Loss Rate per \$1,000 of Revenue (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11) (12)
2019/20	\$0.27	\$1,675,248	\$452,000	0.95	\$0.26	\$431,000
2020/21	0.28	1,675,248	470,000	0.95	0.27	448,000
2021/22	0.29	1,675,248	489,000	0.95	0.28	466,000

(2) is from Exhibit GL-9.

(3) 2009/10, 2010/11, 2011/12, 2012/13, 2013/14, 2014/15, 2015/16, 2016/17 and 2017/18 were provided by the County. Other periods assume a 0% trend.

(5) is based on a 4% trend.

(7) 2019/20 is based on (6) and actuarial judgment.
Other period(s) based on 2019/20 plus a 4% trend.

(8) is based on (3) for 2018/19 and a 0% trend.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit GL-2.

Estimated Outstanding Losses as of November 30, 2019

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Limited Case Reserves 11/30/19 (3)	Limited Reported Incurred Losses 11/30/19 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/19 (5)-(4) (6)	Estimated Outstanding Losses 11/30/19 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/19 (7)X(8) (9)
to 1999/00	\$5,706,076	\$0	\$5,706,076	\$5,706,076	\$0	\$0	1.00	\$0
2000/01	681,673	0	681,673	681,673	0	0	1.00	0
2001/02	264,864	0	264,864	264,864	0	0	1.00	0
2002/03	431,980	0	431,980	431,980	0	0	1.00	0
2003/04	40,287	0	40,287	40,287	0	0	1.00	0
2004/05	236,472	0	236,472	236,472	0	0	1.00	0
2005/06	151,662	0	151,662	151,662	0	0	1.00	0
2006/07	111,956	0	111,956	111,956	0	0	1.00	0
2007/08	538,122	0	538,122	538,122	0	0	1.00	0
2008/09	195,329	0	195,329	195,329	0	0	1.00	0
2009/10	325,332	0	325,332	325,332	0	0	1.00	0
2010/11	153,831	0	153,831	153,831	0	0	1.00	0
2011/12	146,905	0	146,905	146,905	0	0	1.00	0
2012/13	369,930	0	369,930	369,930	0	0	1.00	0
2013/14	259,375	0	259,375	259,375	0	0	0.99	0
2014/15	373,224	0	373,224	373,224	0	0	0.99	0
2015/16	158,465	150,000	308,465	338,000	29,535	179,535	0.99	177,283
2016/17	74,247	169,900	244,147	300,000	55,853	225,753	0.98	221,736
2017/18	144,521	669,094	813,616	1,050,000	236,384	905,478	0.98	883,633
2018/19	61,680	132,892	194,573	500,000	305,427	438,319	0.97	423,193
Total	\$10,425,930	\$1,121,887	\$11,547,817	\$12,175,017	\$627,199	\$1,749,085		\$1,705,845

(2), (3) and (4) are net of specific self-insured retention and aggregate retention.

(5) is from Exhibit GL-9.

(8) is based on a 1.61% interest rate and the payout pattern in Exhibit GL-2.



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Exhibit GL-12

Projected Losses Paid December 1, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1999/00	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2012/13	84.0	100.0%	96.0	100.0%	100.0%	0	0	0	1.00	0
2013/14	72.0	98.5%	84.0	100.0%	100.0%	0	0	0	1.00	0
2014/15	60.0	94.3%	72.0	98.5%	74.2%	0	0	0	0.99	0
2015/16	48.0	75.4%	60.0	94.3%	76.7%	179,535	137,746	41,789	0.99	41,287
2016/17	36.0	49.5%	48.0	75.4%	51.4%	225,753	115,979	109,774	0.99	108,397
2017/18	24.0	20.6%	36.0	49.5%	36.3%	905,478	329,044	576,434	0.98	566,177
2018/19	12.0	5.4%	24.0	20.6%	16.1%	438,319	70,373	367,946	0.98	359,069
2019/20	0.0	0.0%	12.0	5.4%	5.4%	452,000	24,512	427,488	0.97	412,736
Total						\$2,201,085	\$677,654	\$1,523,431		\$1,487,666

(3) and (5) are from Exhibit GL-2.

(7) to 2018/19 is from Exhibit GL-11. The amount for 2019/20 is from Exhibit GL-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit GL-2.

Projected Losses Paid December 1, 2020 to November 30, 2021

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Months of Development 11/30/21 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/20 to 11/30/21 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/20 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/21 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/21 (9)X(10) (11)
to 1999/00	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2012/13	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2013/14	84.0	100.0%	96.0	100.0%	100.0%	0	0	0	1.00	0
2014/15	72.0	98.5%	84.0	100.0%	100.0%	0	0	0	1.00	0
2015/16	60.0	94.3%	72.0	98.5%	74.2%	41,789	30,993	10,796	0.99	10,710
2016/17	48.0	75.4%	60.0	94.3%	76.7%	109,774	84,223	25,551	0.99	25,244
2017/18	36.0	49.5%	48.0	75.4%	51.4%	576,434	296,139	280,295	0.99	276,779
2018/19	24.0	20.6%	36.0	49.5%	36.3%	367,946	133,709	234,237	0.98	230,069
2019/20	12.0	5.4%	24.0	20.6%	16.1%	427,488	68,634	358,854	0.98	350,196
2020/21	0.0	0.0%	12.0	5.4%	5.4%	470,000	25,488	444,512	0.97	429,172
Total						\$1,993,431	\$639,186	\$1,354,245		\$1,322,170

(3) and (5) are from Exhibit GL-2.

(7) to 2019/20 is from Exhibit GL-12, (9). The amount for 2020/21 is from Exhibit GL-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit GL-2.

Projected Losses Paid December 1, 2021 to November 30, 2022

Claim Period (1)	Months of Development 11/30/21 (2)	Percent Losses Paid (3)	Months of Development 11/30/22 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/21 to 11/30/22 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/21 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/22 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/22 (9)X(10) (11)
to 1999/00	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2012/13	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2013/14	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2014/15	84.0	100.0%	96.0	100.0%	100.0%	0	0	0	1.00	0
2015/16	72.0	98.5%	84.0	100.0%	100.0%	10,796	10,796	0	1.00	0
2016/17	60.0	94.3%	72.0	98.5%	74.2%	25,551	18,950	6,601	0.99	6,548
2017/18	48.0	75.4%	60.0	94.3%	76.7%	280,295	215,053	65,242	0.99	64,458
2018/19	36.0	49.5%	48.0	75.4%	51.4%	234,237	120,338	113,899	0.99	112,470
2019/20	24.0	20.6%	36.0	49.5%	36.3%	358,854	130,405	228,449	0.98	224,384
2020/21	12.0	5.4%	24.0	20.6%	16.1%	444,512	71,367	373,145	0.98	364,143
2021/22	0.0	0.0%	12.0	5.4%	5.4%	489,000	26,519	462,481	0.97	446,521
Total						\$1,843,245	\$593,428	\$1,249,817		\$1,218,524

(3) and (5) are from Exhibit GL-2.

(7) to 2020/21 is from Exhibit GL-13, (9). The amount for 2021/22 is from Exhibit GL-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit GL-2.

List of Large Claims
Reported Incurred Losses Greater Than \$250,000

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/19 (5)	Unlimited Case Reserves 11/30/19 (6)	Unlimited Reported Incurred Losses 11/30/19 (7)
97000023	01/31/91	to 1999/00	Unlimited	\$749,721	\$0	\$749,721
97002477	09/30/98	to 1999/00	Unlimited	925,000	0	925,000
97003121	12/30/99	to 1999/00	Unlimited	650,000	0	650,000
97003515	06/09/00	to 1999/00	Unlimited	925,000	0	925,000
97003686	03/10/01	2000/01	9,500,000	465,000	0	465,000
97004402	03/26/03	2002/03	9,500,000	335,455	0	335,455
97010256	01/01/13	2012/13	10,000,000	300,000	0	300,000
201805060	04/05/18	2017/18	15,000,000	0	500,000	500,000

Amounts are gross of excess insurance and net of other recoveries.

Size of Loss Distribution

I. Reported Claim Count

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	1,028	9	7	12	5	12	1,073		
0.01 - 5,000	1,478	86	71	87	111	162	1,995	1,995	91.6%
5,000 - 10,000	56	2	1	3	4	0	66	2,061	94.6%
10,000 - 25,000	38	3	2	2	2	2	49	2,110	96.9%
25,000 - 50,000	20	2	3	3	0	1	29	2,139	98.2%
50,000 - 100,000	20	2	1	0	2	0	25	2,164	99.4%
100,000 - 250,000	6	0	0	0	0	0	6	2,170	99.6%
250,000 - 500,000	3	0	0	0	1	0	4	2,174	99.8%
500,000 - 750,000	2	0	0	0	0	0	2	2,176	99.9%
750,000 - 1,000,000	2	0	0	0	0	0	2	2,178	100.0%
Over 1,000,000	0	0	0	0	0	0	0	2,178	100.0%
Total	2,653	104	85	107	125	177	3,251	2,178	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
0.01 - 5,000	838,582	43,188	49,465	53,255	103,364	109,573	1,197,426	1,197,426	10.4%
5,000 - 10,000	447,439	20,000	10,000	29,892	32,751	0	540,083	1,737,510	15.0%
10,000 - 25,000	667,189	48,786	32,000	31,000	35,000	35,000	848,975	2,586,484	22.4%
25,000 - 50,000	845,074	90,000	117,000	130,000	0	50,000	1,232,074	3,818,558	33.1%
50,000 - 100,000	1,620,332	171,250	100,000	0	142,500	0	2,034,082	5,852,641	50.7%
100,000 - 250,000	845,000	0	0	0	0	0	845,000	6,697,641	58.0%
250,000 - 500,000	1,100,455	0	0	0	500,000	0	1,600,455	8,298,096	71.9%
500,000 - 750,000	1,399,721	0	0	0	0	0	1,399,721	9,697,817	84.0%
750,000 - 1,000,000	1,850,000	0	0	0	0	0	1,850,000	11,547,817	100.0%
Over 1,000,000	0	0	0	0	0	0	0	11,547,817	100.0%
Total	\$9,613,793	\$373,224	\$308,465	\$244,147	\$813,616	\$194,573	\$11,547,817	\$11,547,817	

Amounts are gross of excess insurance and net of other recoveries.

Data was provided by the County.

CookCounty_GL_113019.xlsx

Data Summary as of November 30, 2019
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Vehicles (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Limited Paid Losses 11/30/19 (8)	Limited Case Reserves 11/30/19 (9)	Limited Reported Incurred Losses 11/30/19 (10)
to 1999/00	See Note	None	240.0	Not Provided	922	0	\$3,472,661	\$0	\$3,472,661
2000/01	9,500,000	40,000,000	228.0	Not Provided	132	0	9,777,693	0	9,777,693
2001/02	9,500,000	40,000,000	216.0	2,283	112	0	2,523,962	0	2,523,962
2002/03	9,500,000	45,000,000	204.0	2,283	74	0	234,297	0	234,297
2003/04	10,000,000	None	192.0	1,997	111	0	430,586	0	430,586
2004/05	10,000,000	25,000,000	180.0	1,997	91	0	2,857,039	0	2,857,039
2005/06	10,000,000	25,000,000	168.0	1,780	82	0	201,210	0	201,210
2006/07	10,000,000	None	156.0	Not Provided	92	0	653,237	0	653,237
2007/08	10,000,000	None	144.0	Not Provided	71	0	149,661	0	149,661
2008/09	10,000,000	None	132.0	Not Provided	60	0	191,753	0	191,753
2009/10	10,000,000	None	120.0	Not Provided	62	0	6,849,297	0	6,849,297
2010/11	10,000,000	None	108.0	2,071	88	0	834,347	0	834,347
2011/12	10,000,000	None	96.0	1,837	75	0	445,189	0	445,189
2012/13	15,000,000	None	84.0	1,892	58	0	302,494	0	302,494
2013/14	15,000,000	None	72.0	1,921	86	0	2,935,696	0	2,935,696
2014/15	15,000,000	None	60.0	2,022	62	0	239,188	0	239,188
2015/16	15,000,000	None	48.0	1,915	70	1	1,509,883	10,000	1,519,883
2016/17	15,000,000	None	36.0	1,773	53	3	411,308	210,000	621,308
2017/18	20,000,000	None	24.0	1,847	61	24	155,962	4,386,205	4,542,167
2018/19	20,000,000	None	12.0	1,903	53	17	60,310	57,245	117,555
Total					2,415	45	\$34,235,775	\$4,663,450	\$38,899,225

* The specific self-insured retention changes are as follows:

Effective Date	Retention
12/01/90	Unlimited
12/01/00	9,500,000
12/01/03	10,000,000
03/01/13	15,000,000
07/01/18	20,000,000

(8), (9) and (10) are net of the specific self-insured retention and other recoveries.

Data was provided by the County.

Data Summary as of November 30, 2019
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Vehicles (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Net Unlimited Paid Losses 11/30/19 (8)	Net Unlimited Case Reserves 11/30/19 (9)	Net Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	922	0	\$3,472,661	\$0	\$3,472,661
2000/01	Unlimited	40,000,000	228.0	Not Provided	132	0	9,777,693	0	9,777,693
2001/02	Unlimited	40,000,000	216.0	2,283	112	0	2,523,962	0	2,523,962
2002/03	Unlimited	45,000,000	204.0	2,283	74	0	234,297	0	234,297
2003/04	Unlimited	None	192.0	1,997	111	0	430,586	0	430,586
2004/05	Unlimited	25,000,000	180.0	1,997	91	0	2,857,039	0	2,857,039
2005/06	Unlimited	25,000,000	168.0	1,780	82	0	201,210	0	201,210
2006/07	Unlimited	None	156.0	Not Provided	92	0	653,237	0	653,237
2007/08	Unlimited	None	144.0	Not Provided	71	0	149,661	0	149,661
2008/09	Unlimited	None	132.0	Not Provided	60	0	191,753	0	191,753
2009/10	Unlimited	None	120.0	Not Provided	62	0	6,849,297	0	6,849,297
2010/11	Unlimited	None	108.0	2,071	88	0	834,347	0	834,347
2011/12	Unlimited	None	96.0	1,837	75	0	445,189	0	445,189
2012/13	Unlimited	None	84.0	1,892	58	0	302,494	0	302,494
2013/14	Unlimited	None	72.0	1,921	86	0	2,935,696	0	2,935,696
2014/15	Unlimited	None	60.0	2,022	62	0	239,188	0	239,188
2015/16	Unlimited	None	48.0	1,915	70	1	1,509,883	10,000	1,519,883
2016/17	Unlimited	None	36.0	1,773	53	3	411,308	210,000	621,308
2017/18	Unlimited	None	24.0	1,847	61	24	155,962	4,386,205	4,542,167
2018/19	Unlimited	None	12.0	1,903	53	17	60,310	57,245	117,555
Total					2,415	45	\$34,235,775	\$4,663,450	\$38,899,225

(8), (9) and (10) are gross of the specific self-insured retention and net of other recoveries.

Data was provided by the County.

Data Summary as of November 30, 2019
Gross Unlimited Losses

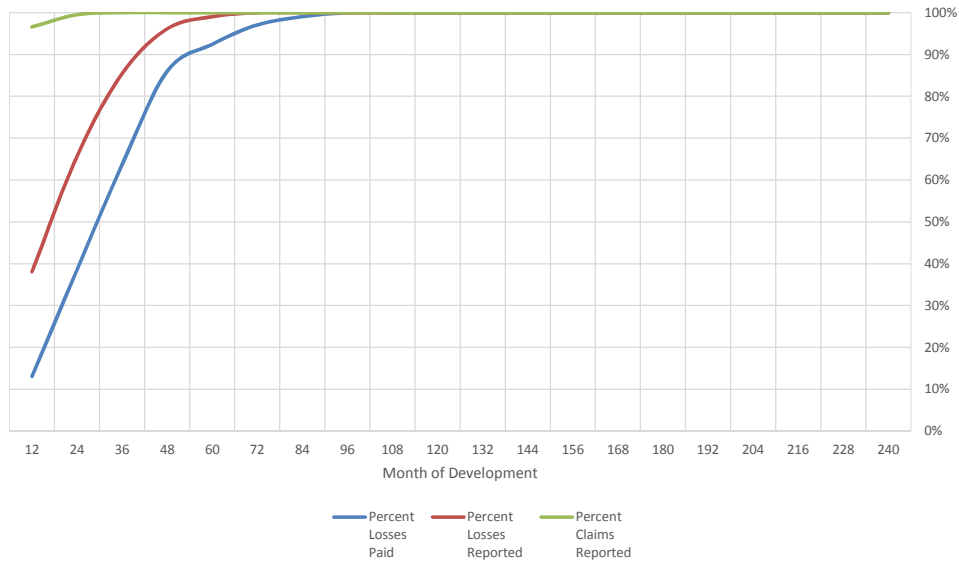
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Vehicles (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Gross Unlimited Paid Losses 11/30/19 (8)	Gross Unlimited Case Reserves 11/30/19 (9)	Gross Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	922	0	\$3,472,661	\$0	\$3,472,661
2000/01	Unlimited	40,000,000	228.0	Not Provided	132	0	9,777,693	0	9,777,693
2001/02	Unlimited	40,000,000	216.0	2,283	112	0	2,523,962	0	2,523,962
2002/03	Unlimited	45,000,000	204.0	2,283	74	0	234,297	0	234,297
2003/04	Unlimited	None	192.0	1,997	111	0	430,586	0	430,586
2004/05	Unlimited	25,000,000	180.0	1,997	91	0	2,857,039	0	2,857,039
2005/06	Unlimited	25,000,000	168.0	1,780	82	0	201,210	0	201,210
2006/07	Unlimited	None	156.0	Not Provided	92	0	653,237	0	653,237
2007/08	Unlimited	None	144.0	Not Provided	71	0	149,661	0	149,661
2008/09	Unlimited	None	132.0	Not Provided	60	0	191,753	0	191,753
2009/10	Unlimited	None	120.0	Not Provided	62	0	6,849,297	0	6,849,297
2010/11	Unlimited	None	108.0	2,071	88	0	834,347	0	834,347
2011/12	Unlimited	None	96.0	1,837	75	0	445,189	0	445,189
2012/13	Unlimited	None	84.0	1,892	58	0	302,494	0	302,494
2013/14	Unlimited	None	72.0	1,921	86	0	2,935,696	0	2,935,696
2014/15	Unlimited	None	60.0	2,022	62	0	239,188	0	239,188
2015/16	Unlimited	None	48.0	1,915	70	1	1,509,883	10,000	1,519,883
2016/17	Unlimited	None	36.0	1,773	53	3	411,308	211,000	621,308
2017/18	Unlimited	None	24.0	1,847	61	24	155,962	4,405,024	4,542,167
2018/19	Unlimited	None	12.0	1,903	53	17	60,310	64,715	117,555
Total					2,415	45	\$34,235,775	\$4,690,739	\$38,899,225

(8), (9) and (10) are gross of the specific self-insured retention and other recoveries.

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	100.0%	100.0%	100.0%
120.0	100.0%	100.0%	100.0%
108.0	100.0%	100.0%	100.0%
96.0	100.0%	100.0%	100.0%
84.0	99.0%	100.0%	100.0%
72.0	97.1%	100.0%	100.0%
60.0	92.4%	99.0%	100.0%
48.0	86.0%	96.1%	100.0%
36.0	63.7%	85.4%	100.0%
24.0	38.6%	65.7%	99.5%
12.0	13.1%	38.1%	96.6%



(2) is from Exhibit AL-2 (page 2).

(3) is from Exhibit AL-2 (page 3).

(4) is from Exhibit AL-2 (page 4).

COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Historical Limited Paid Losses (\$000) and Limited Paid Loss Development

I. Historical Limited Paid Losses (\$000)

Table with columns: Claim Period, Months of Development (12, 24, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, 204, 216, 228, 240). Rows list claim years from 1999/00 to 2018/19.

II. Limited Paid Loss Development

Table with columns: Claim Period, Months of Development (12-24, 24-36, 36-48, 48-60, 60-72, 72-84, 84-96, 96-108, 108-120, 120-132, 132-144, 144-156, 156-168, 168-180, 180-192, 192-204, 204-216, 216-228, 228-240, 240-Ult). Rows include development years and summary statistics like Average, Similar, Selected, Cumulative, and Percent.

Amounts are limited (net of excess insurance).

Data was provided by the County.



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Historical Limited Reported Incurred Losses (\$000) and Limited Reported Incurred Loss Development

I. Historical Limited Reported Incurred Losses (\$000)

Claim Period	Months of Development:																			
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
to 1999/00					\$5,243	\$5,451	\$5,158	\$5,160	\$5,962	\$5,161	\$5,161	\$5,161	\$5,161	\$5,164	\$5,163	\$5,163	\$5,163	\$5,069	\$5,160	\$3,473
2000/01	2,188	2,406	2,873	3,025	9,780	26,021	26,021	14,021	9,771	9,771	9,771	9,771	9,771	9,771	9,771	9,771	9,771	9,771	9,778	
2001/02	233	422	1,333	2,188	3,307	5,307	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,524		
2002/03	246	488	320	238	213	221	213	213	213	213	213	213	213	213	213	213	234			
2003/04	163	361	339	571	505	405	455	385	385	385	385	385	385	397	397	431				
2004/05	277	614	2,824	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,828	2,828	2,857					
2005/06	204	250	207	171	171	171	171	171	171	171	171	176	176	201						
2006/07	160	263	633	834	834	834	984	634	634	634	624	624	653							
2007/08	91	155	131	122	130	128	128	128	128	132	132	150								
2008/09	132	164	184	173	173	173	175	175	174	174	192									
2009/10	618	381	2,725	6,473	6,973	6,848	6,828	6,830	6,830	6,849										
2010/11	229	380	514	809	809	809	809	819	834											
2011/12	166	363	762	462	432	432	432	445												
2012/13	213	334	272	282	282	282	302													
2013/14	740	1,306	3,408	2,907	2,907	2,936														
2014/15	137	242	215	215	239															
2015/16	980	1,331	1,566	1,520																
2016/17	296	514	621																	
2017/18	620	4,542																		
2018/19	118																			

II. Limited Reported Incurred Loss Development

Claim Period	Months of Development:																			
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult
to 1999/00					1.040	0.946	1.000	1.155	0.866	1.000	1.000	1.000	1.001	1.000	1.000	0.982	1.018	0.673		
2000/01	1.100	1.194	1.053	3.233	2.661	1.000	0.539	0.697	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.001		
2001/02	1.813	3.158	1.642	1.511	1.605	0.471	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.011	1.001		
2002/03	1.984	0.656	0.744	0.895	1.035	0.966	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.098				
2003/04	2.215	0.938	1.685	0.885	0.802	1.123	0.846	1.000	1.000	1.000	1.000	1.000	1.029	1.000	1.086					
2004/05	2.215	4.596	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.998	1.000	1.010						
2005/06	1.229	0.828	0.825	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.030	1.141								
2006/07	1.645	2.402	1.319	1.000	1.000	1.180	0.644	1.000	1.000	0.984	1.000	1.047								
2007/08	1.704	0.847	0.933	1.061	0.986	1.000	1.000	1.000	1.028	1.000	1.136									
2008/09	1.246	1.123	0.940	1.000	1.000	1.010	1.000	0.994	1.000	1.102										
2009/10	0.617	7.154	2.376	1.077	0.982	0.997	1.000	1.000	1.003											
2010/11	1.659	1.353	1.574	1.000	1.000	1.000	1.012	1.019												
2011/12	2.187	2.098	0.606	0.935	1.000	1.000	1.031													
2012/13	1.572	0.814	1.037	1.000	1.000	1.073														
2013/14	1.764	2.610	0.853	1.000	1.010															
2014/15	1.763	0.887	1.000	1.114																
2015/16	1.358	1.177	0.971																	
2016/17	1.738	1.208																		
2017/18	7.328																			
2018/19																				
Average																				
All	1.952	1.944	1.160	1.181	1.141	0.983	0.929	0.989	0.991	1.009	1.018	1.006	1.024	1.002	1.017	1.024	0.997	1.009	0.673	
Wtd 3	3.369	1.151	0.895	1.007	1.008	1.013	1.003	1.002	1.003	1.008	1.025	1.007	1.011	1.008	1.011	1.002	0.996			
Last 3	3.474	1.090	0.941	1.038	1.003	1.024	1.014	1.004	1.010	1.029	1.055	1.015	1.057	1.003	1.029	1.033	0.997			
Last 5	1.755	1.090	0.941	1.000	1.000	1.003	1.004	1.000	1.001	1.000	1.010	1.000	1.010	1.000	1.000					
x-hi,low																				
Similar	1.420	1.180	1.090	1.040	1.015	1.006	1.003	1.003	1.002	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Previous	1.725	1.300	1.125	1.030	1.010	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
Selected	1.725	1.300	1.125	1.030	1.010	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
Cumulative	2.624	1.521	1.170	1.040	1.010	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
Percent	38.1%	65.7%	85.4%	96.1%	99.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Amounts are limited (net of excess insurance).

Data was provided by the County.

Historical Reported Claims and Reported Claim Development

I. Historical Reported Claims

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																				922	922
2000/01	112	94	94	93	93	93	93	93	93	93	93	93	93	93	93	93	132	132	132		
2001/02	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	112	112	112			
2002/03	53	58	58	58	58	58	58	58	58	58	58	58	58	58	74	74	74				
2003/04	81	81	81	81	81	81	81	81	81	81	81	81	81	111	111	111					
2004/05	72	72	72	72	72	72	72	72	72	72	72	72	91	91	91						
2005/06	65	65	65	65	65	65	65	65	65	65	65	82	82	82							
2006/07	59	72	72	72	72	72	72	72	72	92	92	92									
2007/08	57	57	57	57	57	57	57	57	71	71	71										
2008/09	44	44	44	44	44	44	44	44	60	60	60										
2009/10	55	55	55	55	55	55	55	62	62	62											
2010/11	61	61	61	61	61	61	88	88													
2011/12	67	67	67	67	67	75	75														
2012/13	49	49	49	49	58	58															
2013/14	69	69	69	85	86	86															
2014/15	51	51	62	62																	
2015/16	58	69	70	70																	
2016/17	46	53	53																		
2017/18	53	61																			
2018/19	53																				

II. Reported Claim Development

Claim Period	Months of Development:																				
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult	
to 1999/00																				1.000	
2000/01	0.839	1.000	0.989	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.419	1.000	1.000			
2001/02	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	1.400	1.000	1.000				
2002/03	1.094	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.276	1.000	1.000					
2003/04	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.370	1.000	1.000						
2004/05	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.264	1.000	1.000							
2005/06	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.262	1.000	1.000								
2006/07	1.220	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.278	1.000	1.000									
2007/08	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.246	1.000	1.000										
2008/09	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.364	1.000	1.000											
2009/10	1.000	1.000	1.000	1.000	1.000	1.000	1.127	1.000	1.000												
2010/11	1.000	1.000	1.000	1.000	1.000	1.443	1.000	1.000													
2011/12	1.000	1.000	1.000	1.000	1.119	1.000	1.000														
2012/13	1.000	1.000	1.000	1.184	1.000																
2013/14	1.000	1.000	1.232	1.012	1.000																
2014/15	1.000	1.216	1.000	1.000																	
2015/16	1.190	1.014	1.000																		
2016/17	1.152	1.000																			
2017/18	1.151																				
2018/19																					
Average																					
All	1.036	1.014	1.014	1.013	1.009	1.034	1.011	1.033	1.025	1.031	1.033	1.038	1.062	1.055	1.100	1.140	1.000	1.000	1.000		
Wtd 3	1.166	1.069	1.080	1.051	1.038	1.139	1.032	1.082	1.078	1.099	1.075	1.077	1.118	1.062	1.121	1.140					
Last 3	1.164	1.077	1.077	1.065	1.040	1.148	1.042	1.121	1.082	1.093	1.087	1.088	1.123	1.092	1.133	1.140					
Last 5	1.101	1.005	1.000	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
x-hi,low																					
Similar	1.077	1.009	1.004	1.002	1.002	1.002	1.002	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
Previous	1.025	1.005	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
Selected	1.030	1.005	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
Cumulative	1.035	1.005	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
Percent	96.6%	99.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Data was provided by the County.

Historical Ratio of Limited Paid Losses and Limited Reported Incurred Losses

Claim Period	Months of Development:																			
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
to 1999/00					84.2%	92.6%	99.5%	100.0%	86.5%	100.0%	100.0%	100.0%	100.0%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2000/01	1.7%	8.0%	8.8%	8.8%	2.7%	23.1%	23.1%	42.9%	61.6%	61.6%	61.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2001/02	13.6%	33.8%	13.6%	9.9%	25.9%	16.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2002/03	9.5%	15.6%	39.1%	74.8%	100.0%	96.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2003/04	30.8%	39.0%	72.7%	44.8%	70.3%	87.7%	78.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2004/05	22.0%	25.9%	12.5%	82.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2005/06	29.9%	54.2%	79.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2006/07	20.4%	36.4%	31.6%	28.1%	28.1%	28.1%	23.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2007/08	32.5%	50.5%	77.1%	100.0%	94.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2008/09	32.5%	44.2%	88.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2009/10	3.0%	17.7%	3.5%	1.6%	1.5%	12.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2010/11	18.5%	34.9%	45.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2011/12	24.1%	34.3%	20.6%	43.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2012/13	16.6%	30.7%	63.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2013/14	10.5%	16.7%	11.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2014/15	25.5%	29.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2015/16	5.5%	91.7%	80.2%	99.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2016/17	32.0%	57.4%	66.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2017/18	10.4%	3.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2018/19	51.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Average																				
All	20.5%	34.7%	47.9%	68.3%	75.4%	77.1%	87.5%	95.5%	95.7%	96.5%	96.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 3	31.3%	50.8%	82.1%	99.8%	100.0%	100.0%	100.0%	99.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 5	22.6%	34.6%	69.9%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
x-hi,low																				
Implicit	34.3%	58.7%	74.6%	89.5%	93.4%	97.1%	99.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Prior	34.3%	58.7%	74.6%	89.5%	93.4%	97.1%	99.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Paid Losses 11/30/19 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1999/00	240.0	\$3,472,661	100.0%	\$3,472,661
2000/01	228.0	9,777,693	100.0%	9,777,693
2001/02	216.0	2,523,962	100.0%	2,523,962
2002/03	204.0	234,297	100.0%	234,297
2003/04	192.0	430,586	100.0%	430,586
2004/05	180.0	2,857,039	100.0%	2,857,039
2005/06	168.0	201,210	100.0%	201,210
2006/07	156.0	653,237	100.0%	653,237
2007/08	144.0	149,661	100.0%	149,661
2008/09	132.0	191,753	100.0%	191,753
2009/10	120.0	6,849,297	100.0%	6,849,297
2010/11	108.0	834,347	100.0%	834,347
2011/12	96.0	445,189	100.0%	445,189
2012/13	84.0	302,494	99.0%	305,519
2013/14	72.0	2,935,696	97.1%	3,024,354
2014/15	60.0	239,188	92.4%	258,732
2015/16	48.0	1,509,883	86.0%	1,755,750
2016/17	36.0	411,308	63.7%	645,684
2017/18	24.0	155,962	38.6%	403,977
2018/19	12.0	60,310	13.1%	460,839
Total		\$34,235,775		\$35,475,789

(3) is from Exhibit AL-1.

(4) is from Exhibit AL-2.

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1999/00	240.0	\$3,472,661	100.0%	\$3,472,661
2000/01	228.0	9,777,693	100.0%	9,777,693
2001/02	216.0	2,523,962	100.0%	2,523,962
2002/03	204.0	234,297	100.0%	234,297
2003/04	192.0	430,586	100.0%	430,586
2004/05	180.0	2,857,039	100.0%	2,857,039
2005/06	168.0	201,210	100.0%	201,210
2006/07	156.0	653,237	100.0%	653,237
2007/08	144.0	149,661	100.0%	149,661
2008/09	132.0	191,753	100.0%	191,753
2009/10	120.0	6,849,297	100.0%	6,849,297
2010/11	108.0	834,347	100.0%	834,347
2011/12	96.0	445,189	100.0%	445,189
2012/13	84.0	302,494	100.0%	302,494
2013/14	72.0	2,935,696	100.0%	2,935,696
2014/15	60.0	239,188	99.0%	241,580
2015/16	48.0	1,519,883	96.1%	1,581,134
2016/17	36.0	621,308	85.4%	727,140
2017/18	24.0	4,542,167	65.7%	6,910,629
2018/19	12.0	117,555	38.1%	308,521
Total		\$38,899,225		\$41,628,128

(3) is from Exhibit AL-1.

(4) is from Exhibit AL-2.

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/19 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/19 (6)	Limited Case Reserves 11/30/19 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1999/00	240.0	100.0%	100.0%	100.0%	\$3,472,661	\$0	\$3,472,661
2000/01	228.0	100.0%	100.0%	100.0%	9,777,693	0	9,777,693
2001/02	216.0	100.0%	100.0%	100.0%	2,523,962	0	2,523,962
2002/03	204.0	100.0%	100.0%	100.0%	234,297	0	234,297
2003/04	192.0	100.0%	100.0%	100.0%	430,586	0	430,586
2004/05	180.0	100.0%	100.0%	100.0%	2,857,039	0	2,857,039
2005/06	168.0	100.0%	100.0%	100.0%	201,210	0	201,210
2006/07	156.0	100.0%	100.0%	100.0%	653,237	0	653,237
2007/08	144.0	100.0%	100.0%	100.0%	149,661	0	149,661
2008/09	132.0	100.0%	100.0%	100.0%	191,753	0	191,753
2009/10	120.0	100.0%	100.0%	100.0%	6,849,297	0	6,849,297
2010/11	108.0	100.0%	100.0%	100.0%	834,347	0	834,347
2011/12	96.0	100.0%	100.0%	100.0%	445,189	0	445,189
2012/13	84.0	99.0%	100.0%	100.0%	302,494	0	302,494
2013/14	72.0	97.1%	100.0%	100.0%	2,935,696	0	2,935,696
2014/15	60.0	92.4%	99.0%	86.9%	239,188	0	239,188
2015/16	48.0	86.0%	96.1%	72.3%	1,509,883	10,000	1,523,707
2016/17	36.0	63.7%	85.4%	59.9%	411,308	210,000	761,871
2017/18	24.0	38.6%	65.7%	44.2%	155,962	4,386,205	10,085,098
2018/19	12.0	13.1%	38.1%	28.8%	60,310	57,245	259,198
Total					\$34,235,775	\$4,663,450	\$44,728,187

(3) and (4) are from Exhibit AL-2.

(6) and (7) are from Exhibit AL-1.

Preliminary Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	Preliminary Projected Ultimate Limited Losses (5)
to 1999/00	\$3,472,661	\$3,472,661	\$3,472,661	\$3,472,661
2000/01	9,777,693	9,777,693	9,777,693	9,777,693
2001/02	2,523,962	2,523,962	2,523,962	2,523,962
2002/03	234,297	234,297	234,297	234,297
2003/04	430,586	430,586	430,586	430,586
2004/05	2,857,039	2,857,039	2,857,039	2,857,039
2005/06	201,210	201,210	201,210	201,210
2006/07	653,237	653,237	653,237	653,237
2007/08	149,661	149,661	149,661	149,661
2008/09	191,753	191,753	191,753	191,753
2009/10	6,849,297	6,849,297	6,849,297	6,849,297
2010/11	834,347	834,347	834,347	834,347
2011/12	445,189	445,189	445,189	445,189
2012/13	305,519	302,494	302,494	302,494
2013/14	3,024,354	2,935,696	2,935,696	2,935,696
2014/15	258,732	241,580	239,188	239,188
2015/16	1,755,750	1,581,134	1,523,707	1,569,882
2016/17	645,684	727,140	761,871	724,741
2017/18	403,977	6,910,629	10,085,098	6,879,086
2018/19	460,839	308,521	259,198	319,255
Total	\$35,475,789	\$41,628,128	\$44,728,187	\$41,591,277

(2) is from Exhibit AL-3.

(3) is from Exhibit AL-4.

(4) is from Exhibit AL-5.

(5) is based on (2) to (4) and actuarial judgment.

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Vehicles (3)	Limited Loss Rate per Vehicle (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per Vehicle (4)X(5) (6)	Projected A-priori Loss Rate per Vehicle (7)/(5) (8)
2009/10	\$6,849,297	2,071	\$3,307.24	1.411	\$4,665.19	\$753.89
2010/11	834,347	2,071	402.87	1.363	549.07	780.27
2011/12	445,189	1,837	242.35	1.317	319.12	807.58
2012/13	302,494	1,892	159.88	1.272	203.41	835.85
2013/14	2,935,696	1,921	1,528.21	1.229	1,878.56	865.10
2014/15	239,188	2,022	118.29	1.188	140.49	895.38
2015/16	1,569,882	1,915	819.78	1.148	940.72	926.72
2016/17	724,741	1,773	408.77	1.109	453.21	959.16
2017/18	6,879,086	1,847	3,724.46	1.071	3,989.74	992.73
2018/19	319,255	1,903	167.76	1.035	173.64	1,027.47
(7) Projected 2019/20 a-priori loss rate per Vehicle					\$1,063.43	

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Percent Losses Paid (3)	Projected A-priori Loss Rate per Vehicle (4)	Vehicles (5)	B-F Unpaid Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Paid Losses (2)+(6) (7)
2014/15	\$239,188	92.4%	\$895.38	2,022	\$136,758	\$375,946
2015/16	1,509,883	86.0%	926.72	1,915	248,516	1,758,399
2016/17	411,308	63.7%	959.16	1,773	617,293	1,028,601
2017/18	155,962	38.6%	992.73	1,847	1,125,687	1,281,649
2018/19	60,310	13.1%	1,027.47	1,903	1,699,392	1,759,702

III. Bornhuetter - Ferguson Analysis Based on Limited Reported Incurred Losses

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Percent Losses Reported (3)	Projected A-priori Loss Rate per Vehicle (4)	Vehicles (5)	B-F Unreported Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Reported Losses (2)+(6) (7)
2014/15	\$239,188	99.0%	\$895.38	2,022	\$17,925	\$257,113
2015/16	1,519,883	96.1%	926.72	1,915	68,749	1,588,632
2016/17	621,308	85.4%	959.16	1,773	247,513	868,820
2017/18	4,542,167	65.7%	992.73	1,847	628,414	5,170,581
2018/19	117,555	38.1%	1,027.47	1,903	1,210,264	1,327,819

Section I, (2) is from Exhibit AL-6.

Section I, (3), Section II, (5) and Section III, (5) are from Exhibit AL-10.

Section I, (5) is based on a 3.5% trend.

Section I, (7) is based on Section I, (6) and actuarial judgment.

Sections II and III, (2) are from Exhibit AL-1.

Sections II and III, (3) are from Exhibit AL-2.

Sections II and III, (4) are from Section I, (8).

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/19 (2)	Reported Claims 11/30/19 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Vehicles (6)	Frequency (per Vehicle) (5)/(6) (7)
2009/10	120.0	62	100.0%	62	2,071	0.03
2010/11	108.0	88	100.0%	88	2,071	0.04
2011/12	96.0	75	100.0%	75	1,837	0.04
2012/13	84.0	58	100.0%	58	1,892	0.03
2013/14	72.0	86	100.0%	86	1,921	0.04
2014/15	60.0	62	100.0%	62	2,022	0.03
2015/16	48.0	70	100.0%	70	1,915	0.04
2016/17	36.0	53	100.0%	53	1,773	0.03
2017/18	24.0	61	99.5%	61	1,847	0.03
2018/19	12.0	53	96.6%	55	1,903	0.03

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2019/20 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2019/20 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2009/10	\$6,849,297	62	\$110,473	1.411	\$155,832	\$21,006	\$1,302,348
2010/11	834,347	88	9,481	1.363	12,922	21,741	1,913,191
2011/12	445,189	75	5,936	1.317	7,816	22,502	1,687,630
2012/13	302,494	58	5,215	1.272	6,635	23,289	1,350,779
2013/14	2,935,696	86	34,136	1.229	41,962	24,104	2,072,980
2014/15	239,188	62	3,858	1.188	4,582	24,948	1,546,781
2015/16	1,569,882	70	22,427	1.148	25,735	25,821	1,807,488
2016/17	724,741	53	13,674	1.109	15,161	26,725	1,416,425
2017/18	6,879,086	61	112,772	1.071	120,804	27,660	1,687,283
2018/19	319,255	55	5,805	1.035	6,008	28,628	1,574,567
						(7) Projected 2019/20 average claim severity \$29,630	

Section I, (3) is from Exhibit AL-1.

Section I, (4) is from Exhibit AL-2.

Section I, (6) is from Exhibit AL-10.

Section II, (2) is from Exhibit AL-6.

Section II, (3) is from Section I, (5).

Section II, (5) is based on a 3.5% trend.

Section II, (7) is based on (6) and actuarial judgment.

Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	B-F Ultimate Limited Paid Losses (5)	B-F Ultimate Limited Reported Losses (6)	Frequency Times Severity (7)	Prior Projected Ultimate Limited Losses (8)	Projected Ultimate Limited Losses (9)
to 1999/00	\$3,472,661	\$3,472,661	\$3,472,661				\$3,471,943	\$3,472,661
2000/01	9,777,693	9,777,693	9,777,693				9,770,711	9,777,693
2001/02	2,523,962	2,523,962	2,523,962				2,497,706	2,523,962
2002/03	234,297	234,297	234,297				213,389	234,297
2003/04	430,586	430,586	430,586				396,526	430,586
2004/05	2,857,039	2,857,039	2,857,039				2,828,107	2,857,039
2005/06	201,210	201,210	201,210				176,288	201,210
2006/07	653,237	653,237	653,237				623,841	653,237
2007/08	149,661	149,661	149,661				131,792	149,661
2008/09	191,753	191,753	191,753				173,974	191,753
2009/10	6,849,297	6,849,297	6,849,297				6,830,313	6,849,297
2010/11	834,347	834,347	834,347				820,000	834,347
2011/12	445,189	445,189	445,189				431,959	445,189
2012/13	305,519	302,494	302,494				281,949	302,494
2013/14	3,024,354	2,935,696	2,935,696				2,907,409	2,935,696
2014/15	258,732	241,580	239,188	375,946	257,113	1,546,781	214,713	239,188
2015/16	1,755,750	1,581,134	1,523,707	1,758,399	1,588,632	1,807,488	1,835,000	1,552,000
2016/17	645,684	727,140	761,871	1,028,601	868,820	1,416,425	950,000	745,000
2017/18	403,977	6,910,629	10,085,098	1,281,649	5,170,581	1,687,283	1,700,000	5,200,000
2018/19	460,839	308,521	259,198	1,759,702	1,327,819	1,574,567	1,927,000	1,100,000
Total	\$35,475,789	\$41,628,128	\$44,728,187				\$38,182,619	\$40,695,312
2014/15 - 2018/19	3,524,982	9,769,004	12,869,062	6,204,298	9,212,965	8,032,544	6,626,713	8,836,188
to 2013/14	31,950,807	31,859,124	31,859,124				31,555,906	31,859,124
						Change		
						All years		\$2,512,693
						2014/15 - 2018/19		2,209,475
						to 2013/14		303,218

(2) is from Exhibit AL-3.

(3) is from Exhibit AL-4.

(4) is from Exhibit AL-5.

(5) and (6) are from Exhibit AL-7.

(7) is from Exhibit AL-8.

(8) is based on (2) to (7) and actuarial judgment.

Projected Ultimate Limited Losses for 2019/20 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Vehicles (3)	Limited Loss Rate per Vehicle (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per Vehicle (4)X(5) (6)
2009/10	\$6,849,297	2,071	\$3,307.24	1.411	\$4,665.19
2010/11	834,347	2,071	402.87	1.363	549.07
2011/12	445,189	1,837	242.35	1.317	319.12
2012/13	302,494	1,892	159.88	1.272	203.41
2013/14	2,935,696	1,921	1,528.21	1.229	1,878.56
2014/15	239,188	2,022	118.29	1.188	140.49
2015/16	1,552,000	1,915	810.44	1.148	930.00
2016/17	745,000	1,773	420.19	1.109	465.87
2017/18	5,200,000	1,847	2,815.38	1.071	3,015.90
2018/19	1,100,000	1,903	578.03	1.035	598.27
Total	\$20,203,212	19,252	\$1,049.41		\$1,276.59

Claim Period (1)	Projected Limited Loss Rate per Vehicle (7)	Projected Vehicles (8)	Projected Ultimate Limited Losses (7)X(8) (9)	Present Value Factor (10)	Present Value of Projected Limited Loss Rate per Vehicle (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11) (12)
2019/20	\$1,108.11	1,903	\$2,109,000	0.96	\$1,063.33	\$2,024,000
2020/21	1,146.90	1,903	2,183,000	0.96	1,100.54	2,094,000
2021/22	1,187.04	1,903	2,259,000	0.96	1,139.06	2,168,000

(2) is from Exhibit AL-9.

(3) 2010/11, 2011/12, 2012/13, 2013/14, 2014/15, 2015/16, 2016/17, 2017/18 and 2018/19 were provided by the County. Other periods assume a 0% trend.

(5) is based on a 3.5% trend.

(7) 2019/20 is based on (6) and actuarial judgment.
Other period(s) based on 2019/20 plus a 3% trend.

(8) is based on (3) for 2018/19 and a 0% trend.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit AL-2.

Estimated Outstanding Losses as of November 30, 2019

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Limited Case Reserves 11/30/19 (3)	Limited Reported Incurred Losses 11/30/19 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/19 (5)-(4) (6)	Estimated Outstanding Losses 11/30/19 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/19 (7)X(8) (9)
to 1999/00	\$3,472,661	\$0	\$3,472,661	\$3,472,661	\$0	\$0	1.00	\$0
2000/01	9,777,693	0	9,777,693	9,777,693	0	0	1.00	0
2001/02	2,523,962	0	2,523,962	2,523,962	0	0	1.00	0
2002/03	234,297	0	234,297	234,297	0	0	1.00	0
2003/04	430,586	0	430,586	430,586	0	0	1.00	0
2004/05	2,857,039	0	2,857,039	2,857,039	0	0	1.00	0
2005/06	201,210	0	201,210	201,210	0	0	1.00	0
2006/07	653,237	0	653,237	653,237	0	0	1.00	0
2007/08	149,661	0	149,661	149,661	0	0	1.00	0
2008/09	191,753	0	191,753	191,753	0	0	1.00	0
2009/10	6,849,297	0	6,849,297	6,849,297	0	0	1.00	0
2010/11	834,347	0	834,347	834,347	0	0	1.00	0
2011/12	445,189	0	445,189	445,189	0	0	1.00	0
2012/13	302,494	0	302,494	302,494	0	0	0.99	0
2013/14	2,935,696	0	2,935,696	2,935,696	0	0	0.99	0
2014/15	239,188	0	239,188	239,188	0	0	0.98	0
2015/16	1,509,883	10,000	1,519,883	1,552,000	32,117	42,117	0.98	41,243
2016/17	411,308	210,000	621,308	745,000	123,692	333,692	0.98	327,393
2017/18	155,962	4,386,205	4,542,167	5,200,000	657,833	5,044,038	0.98	4,924,984
2018/19	60,310	57,245	117,555	1,100,000	982,445	1,039,690	0.97	1,008,565
Total	\$34,235,775	\$4,663,450	\$38,899,225	\$40,695,312	\$1,796,087	\$6,459,537		\$6,302,185

(2), (3) and (4) are net of specific self-insured retention and aggregate retention.

(5) is from Exhibit AL-9.

(8) is based on a 1.61% interest rate and the payout pattern in Exhibit AL-2.

Projected Losses Paid December 1, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1999/00	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2012/13	84.0	99.0%	96.0	100.0%	100.0%	0	0	0	1.00	0
2013/14	72.0	97.1%	84.0	99.0%	66.2%	0	0	0	0.99	0
2014/15	60.0	92.4%	72.0	97.1%	61.2%	0	0	0	0.99	0
2015/16	48.0	86.0%	60.0	92.4%	46.1%	42,117	19,398	22,719	0.98	22,354
2016/17	36.0	63.7%	48.0	86.0%	61.4%	333,692	204,959	128,733	0.98	126,062
2017/18	24.0	38.6%	36.0	63.7%	40.9%	5,044,038	2,061,740	2,982,298	0.98	2,926,005
2018/19	12.0	13.1%	24.0	38.6%	29.4%	1,039,690	305,278	734,412	0.98	717,078
2019/20	0.0	0.0%	12.0	13.1%	13.1%	2,109,000	276,005	1,832,995	0.97	1,778,122
Total						\$8,568,537	\$2,867,380	\$5,701,157		\$5,569,621

(3) and (5) are from Exhibit AL-2.

(7) to 2018/19 is from Exhibit AL-11. The amount for 2019/20 is from Exhibit AL-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit AL-2.

Projected Losses Paid December 1, 2020 to November 30, 2021

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Months of Development 11/30/21 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/20 to 11/30/21 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/20 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/21 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/21 (9)X(10) (11)
to 1999/00	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2012/13	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2013/14	84.0	99.0%	96.0	100.0%	100.0%	0	0	0	1.00	0
2014/15	72.0	97.1%	84.0	99.0%	66.2%	0	0	0	0.99	0
2015/16	60.0	92.4%	72.0	97.1%	61.2%	22,719	13,902	8,817	0.99	8,700
2016/17	48.0	86.0%	60.0	92.4%	46.1%	128,733	59,292	69,441	0.98	68,324
2017/18	36.0	63.7%	48.0	86.0%	61.4%	2,982,298	1,831,777	1,150,521	0.98	1,126,650
2018/19	24.0	38.6%	36.0	63.7%	40.9%	734,412	300,189	434,223	0.98	426,027
2019/20	12.0	13.1%	24.0	38.6%	29.4%	1,832,995	538,211	1,294,784	0.98	1,264,223
2020/21	0.0	0.0%	12.0	13.1%	13.1%	2,183,000	285,690	1,897,310	0.97	1,840,511
Total						\$7,884,157	\$3,029,061	\$4,855,096		\$4,734,435

(3) and (5) are from Exhibit AL-2.

(7) to 2019/20 is from Exhibit AL-12, (9). The amount for 2020/21 is from Exhibit AL-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit AL-2.

Projected Losses Paid December 1, 2021 to November 30, 2022

Claim Period (1)	Months of Development 11/30/21 (2)	Percent Losses Paid (3)	Months of Development 11/30/22 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/21 to 11/30/22 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/21 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/22 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/22 (9)X(10) (11)
to 1999/00	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2000/01	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2012/13	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2013/14	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2014/15	84.0	99.0%	96.0	100.0%	100.0%	0	0	0	1.00	0
2015/16	72.0	97.1%	84.0	99.0%	66.2%	8,817	5,839	2,978	0.99	2,954
2016/17	60.0	92.4%	72.0	97.1%	61.2%	69,441	42,492	26,949	0.99	26,592
2017/18	48.0	86.0%	60.0	92.4%	46.1%	1,150,521	529,907	620,614	0.98	610,633
2018/19	36.0	63.7%	48.0	86.0%	61.4%	434,223	266,707	167,516	0.98	164,040
2019/20	24.0	38.6%	36.0	63.7%	40.9%	1,294,784	529,240	765,544	0.98	751,094
2020/21	12.0	13.1%	24.0	38.6%	29.4%	1,897,310	557,095	1,340,215	0.98	1,308,582
2021/22	0.0	0.0%	12.0	13.1%	13.1%	2,259,000	295,636	1,963,364	0.97	1,904,588
Total						\$7,114,096	\$2,226,916	\$4,887,180		\$4,768,483

(3) and (5) are from Exhibit AL-2.

(7) to 2020/21 is from Exhibit AL-13, (9). The amount for 2021/22 is from Exhibit AL-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit AL-2.

List of Large Claims
Reported Incurred Losses Greater Than \$250,000

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/19 (5)	Unlimited Case Reserves 11/30/19 (6)	Unlimited Reported Incurred Losses 11/30/19 (7)
97000014	12/17/93	to 1999/00	Unlimited	\$400,000	\$0	\$400,000
97000616	04/14/94	to 1999/00	Unlimited	306,007	0	306,007
97003422	05/28/01	2000/01	9,500,000	5,750,000	0	5,750,000
97003499	05/28/01	2000/01	9,500,000	3,750,000	0	3,750,000
97004328	08/07/02	2001/02	9,500,000	1,500,000	0	1,500,000
97004226	10/27/02	2001/02	9,500,000	587,788	0	587,788
97005965	03/21/05	2004/05	10,000,000	500,000	0	500,000
97005623	06/04/05	2004/05	10,000,000	1,809,767	0	1,809,767
97007383	10/09/07	2006/07	10,000,000	400,000	0	400,000
97008761	01/26/10	2009/10	10,000,000	725,000	0	725,000
97008566	08/15/10	2009/10	10,000,000	6,000,000	0	6,000,000
97008845	01/26/11	2010/11	10,000,000	575,754	0	575,754
97011269	12/06/13	2013/14	15,000,000	2,500,000	0	2,500,000
201600427	06/10/16	2015/16	15,000,000	906,969	0	906,969
201805318	09/06/18	2017/18	20,000,000	0	4,000,000	4,000,000

Amounts are gross of excess insurance and net of other recoveries.

Size of Loss Distribution

I. Reported Claim Count

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	552	7	5	10	7	15	596		
0.01 - 5,000	1,291	47	45	26	38	32	1,479	1,479	81.3%
5,000 - 10,000	146	4	6	4	9	3	172	1,651	90.8%
10,000 - 25,000	66	1	8	4	3	2	84	1,735	95.4%
25,000 - 50,000	24	2	3	5	1	1	36	1,771	97.4%
50,000 - 100,000	18	1	1	3	0	0	23	1,794	98.6%
100,000 - 250,000	6	0	1	1	2	0	10	1,804	99.2%
250,000 - 500,000	4	0	0	0	0	0	4	1,808	99.4%
500,000 - 750,000	3	0	0	0	0	0	3	1,811	99.6%
750,000 - 1,000,000	0	0	1	0	0	0	1	1,812	99.6%
Over 1,000,000	6	0	0	0	1	0	7	1,819	100.0%
Total	2,116	62	70	53	61	53	2,415	1,819	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
0.01 - 5,000	1,804,252	63,103	72,390	58,786	79,139	47,081	2,124,751	2,124,751	5.5%
5,000 - 10,000	1,111,035	26,383	40,977	28,775	63,850	19,297	1,290,316	3,415,067	8.8%
10,000 - 25,000	1,100,401	12,497	130,878	70,353	40,067	25,508	1,379,703	4,794,770	12.3%
25,000 - 50,000	839,638	72,205	102,459	186,992	32,113	25,669	1,259,076	6,053,846	15.6%
50,000 - 100,000	1,336,556	65,000	100,000	168,748	0	0	1,670,304	7,724,150	19.9%
100,000 - 250,000	862,927	0	166,210	107,654	326,999	0	1,463,790	9,187,940	23.6%
250,000 - 500,000	1,606,007	0	0	0	0	0	1,606,007	10,793,947	27.7%
500,000 - 750,000	1,888,542	0	0	0	0	0	1,888,542	12,682,489	32.6%
750,000 - 1,000,000	0	0	906,969	0	0	0	906,969	13,589,458	34.9%
Over 1,000,000	21,309,767	0	0	0	4,000,000	0	25,309,767	38,899,225	100.0%
Total	\$31,859,124	\$239,188	\$1,519,883	\$621,308	\$4,542,167	\$117,555	\$38,899,225	\$38,899,225	

Amounts are gross of excess insurance and net of other recoveries.

Data was provided by the County.

CookCounty_AL_113019.xlsx

Data Summary as of November 30, 2019
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Sworn Officers (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Limited Paid Losses 11/30/19 (8)	Limited Case Reserves 11/30/19 (9)	Limited Reported Incurred Losses 11/30/19 (10)
to 1999/00	See Note	None	240.0	Not Provided	100	11	\$1,696,734	\$13,500,000	\$15,196,734
2000/01	9,500,000	40,000,000	228.0	Not Provided	3	2	0	1,500,000	1,500,000
2001/02	9,500,000	40,000,000	216.0	Not Provided	1	0	0	0	0
2002/03	9,500,000	45,000,000	204.0	Not Provided	97	0	1,024,401	0	1,024,401
2003/04	10,000,000	None	192.0	Not Provided	105	0	51,374,033	0	51,374,033
2004/05	10,000,000	25,000,000	180.0	Not Provided	103	0	1,371,302	0	1,371,302
2005/06	10,000,000	25,000,000	168.0	Not Provided	138	2	2,598,785	1,500,000	4,098,785
2006/07	10,000,000	None	156.0	Not Provided	183	0	2,403,373	0	2,403,373
2007/08	10,000,000	None	144.0	Not Provided	192	1	12,296,710	1,000,000	13,296,710
2008/09	10,000,000	None	132.0	Not Provided	242	0	4,392,748	0	4,392,748
2009/10	10,000,000	None	120.0	Not Provided	228	1	6,601,655	1,000	6,602,655
2010/11	10,000,000	None	108.0	Not Provided	210	1	31,143,025	100,000	31,243,025
2011/12	10,000,000	None	96.0	Not Provided	369	1	3,329,458	2,500	3,331,958
2012/13	15,000,000	None	84.0	Not Provided	443	7	9,538,834	970,000	10,508,834
2013/14	15,000,000	None	72.0	Not Provided	624	16	9,262,600	13,505,300	22,767,900
2014/15	15,000,000	None	60.0	6,022	386	20	2,847,987	6,892,500	9,740,487
2015/16	15,000,000	None	48.0	5,881	343	56	3,589,187	9,824,200	13,413,387
2016/17	15,000,000	None	36.0	5,451	288	95	4,602,070	13,324,600	17,926,670
2017/18	20,000,000	None	24.0	5,319	205	131	818,750	7,421,350	8,240,100
2018/19	20,000,000	None	12.0	5,054	58	49	10,600	2,203,706	2,214,306
Total					4,318	393	\$148,902,252	\$71,745,156	\$220,647,408

* The specific self-insured retention changes are as follows:

Effective Date	Retention
12/01/77	Unlimited
12/01/00	9,500,000
12/01/03	10,000,000
03/01/13	15,000,000
07/01/18	20,000,000

(8), (9) and (10) are net of the specific self-insured retention and other recoveries.

Data was provided by the County.



COOK COUNTY, ILLINOIS
LAW ENFORCEMENT LIABILITY

Data Summary as of November 30, 2019
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Sworn Officers (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Net Unlimited Paid Losses 11/30/19 (8)	Net Unlimited Case Reserves 11/30/19 (9)	Net Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	100	11	\$1,696,734	\$13,500,000	\$15,196,734
2000/01	Unlimited	40,000,000	228.0	Not Provided	3	2	0	1,500,000	1,500,000
2001/02	Unlimited	40,000,000	216.0	Not Provided	1	0	0	0	0
2002/03	Unlimited	45,000,000	204.0	Not Provided	97	0	1,024,401	0	1,024,401
2003/04	Unlimited	None	192.0	Not Provided	105	0	51,374,033	0	51,374,033
2004/05	Unlimited	25,000,000	180.0	Not Provided	103	0	1,371,302	0	1,371,302
2005/06	Unlimited	25,000,000	168.0	Not Provided	138	2	2,598,785	1,500,000	4,098,785
2006/07	Unlimited	None	156.0	Not Provided	183	0	2,403,373	0	2,403,373
2007/08	Unlimited	None	144.0	Not Provided	192	1	12,296,710	1,000,000	13,296,710
2008/09	Unlimited	None	132.0	Not Provided	242	0	4,392,748	0	4,392,748
2009/10	Unlimited	None	120.0	Not Provided	228	1	6,601,655	1,000	6,602,655
2010/11	Unlimited	None	108.0	Not Provided	210	1	31,143,025	100,000	31,243,025
2011/12	Unlimited	None	96.0	Not Provided	369	1	3,329,458	2,500	3,331,958
2012/13	Unlimited	None	84.0	Not Provided	443	7	9,538,834	970,000	10,508,834
2013/14	Unlimited	None	72.0	Not Provided	624	16	9,262,600	13,505,300	22,767,900
2014/15	Unlimited	None	60.0	6,022	386	20	2,847,987	6,892,500	9,740,487
2015/16	Unlimited	None	48.0	5,881	343	56	3,589,187	9,824,200	13,413,387
2016/17	Unlimited	None	36.0	5,451	288	95	4,602,070	13,324,600	17,926,670
2017/18	Unlimited	None	24.0	5,319	205	131	818,750	7,421,350	8,240,100
2018/19	Unlimited	None	12.0	5,054	58	49	10,600	2,203,706	2,214,306
Total					4,318	393	\$148,902,252	\$71,745,156	\$220,647,408

(8), (9) and (10) are gross of the specific self-insured retention and net of other recoveries.

Data was provided by the County.



COOK COUNTY, ILLINOIS
LAW ENFORCEMENT LIABILITY

Data Summary as of November 30, 2019
Gross Unlimited Losses

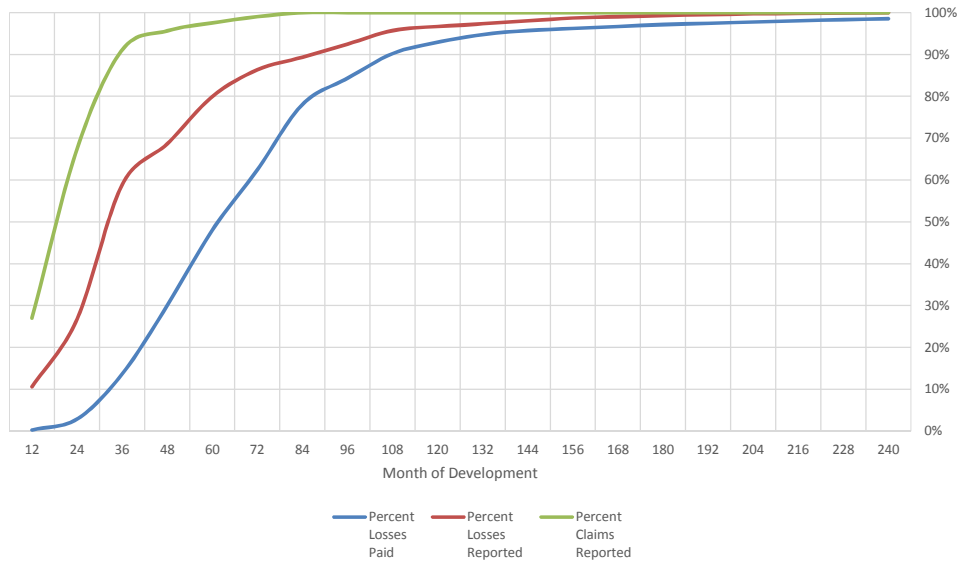
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Sworn Officers (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Gross Unlimited Paid Losses 11/30/19 (8)	Gross Unlimited Case Reserves 11/30/19 (9)	Gross Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	100	11	\$1,696,734	\$13,500,000	\$15,196,734
2000/01	Unlimited	40,000,000	228.0	Not Provided	3	2	0	1,500,000	1,500,000
2001/02	Unlimited	40,000,000	216.0	Not Provided	1	0	0	0	0
2002/03	Unlimited	45,000,000	204.0	Not Provided	97	0	1,024,401	0	1,024,401
2003/04	Unlimited	None	192.0	Not Provided	105	0	51,374,033	0	51,374,033
2004/05	Unlimited	25,000,000	180.0	Not Provided	103	0	1,371,302	0	1,371,302
2005/06	Unlimited	25,000,000	168.0	Not Provided	138	2	2,598,785	1,500,000	4,098,785
2006/07	Unlimited	None	156.0	Not Provided	183	0	2,403,373	0	2,403,373
2007/08	Unlimited	None	144.0	Not Provided	192	1	12,296,710	1,000,000	13,296,710
2008/09	Unlimited	None	132.0	Not Provided	242	0	4,392,748	0	4,392,748
2009/10	Unlimited	None	120.0	Not Provided	228	1	6,601,655	1,000	6,602,655
2010/11	Unlimited	None	108.0	Not Provided	210	1	31,143,025	100,000	31,243,025
2011/12	Unlimited	None	96.0	Not Provided	369	1	3,329,458	2,500	3,331,958
2012/13	Unlimited	None	84.0	Not Provided	443	7	9,538,834	970,000	10,508,834
2013/14	Unlimited	None	72.0	Not Provided	624	16	9,262,600	13,609,300	22,767,900
2014/15	Unlimited	None	60.0	6,022	386	20	2,847,987	6,892,500	9,740,487
2015/16	Unlimited	None	48.0	5,881	343	56	3,589,187	9,824,200	13,413,387
2016/17	Unlimited	None	36.0	5,451	288	95	4,602,070	13,337,100	17,926,670
2017/18	Unlimited	None	24.0	5,319	205	131	818,750	7,425,350	8,240,100
2018/19	Unlimited	None	12.0	5,054	58	49	10,600	2,203,706	2,214,306
Total					4,318	393	\$148,902,252	\$71,865,656	\$220,647,408

(8), (9) and (10) are gross of the specific self-insured retention and other recoveries.

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	99.9%	100.0%	100.0%
336.0	99.9%	100.0%	100.0%
324.0	99.9%	100.0%	100.0%
312.0	99.8%	100.0%	100.0%
300.0	99.8%	100.0%	100.0%
288.0	99.6%	100.0%	100.0%
276.0	99.5%	100.0%	100.0%
264.0	99.3%	100.0%	100.0%
252.0	99.0%	100.0%	100.0%
240.0	98.5%	100.0%	100.0%
228.0	98.3%	99.9%	100.0%
216.0	98.0%	99.8%	100.0%
204.0	97.7%	99.7%	100.0%
192.0	97.4%	99.5%	100.0%
180.0	97.2%	99.3%	100.0%
168.0	96.7%	99.0%	100.0%
156.0	96.2%	98.7%	100.0%
144.0	95.7%	98.0%	100.0%
132.0	94.8%	97.3%	100.0%
120.0	92.9%	96.7%	100.0%
108.0	90.2%	95.7%	100.0%
96.0	84.3%	92.5%	100.0%
84.0	78.1%	89.3%	100.0%
72.0	62.4%	86.3%	99.0%
60.0	48.0%	79.9%	97.5%
48.0	30.0%	68.6%	95.6%
36.0	13.6%	58.9%	91.1%
24.0	2.9%	26.8%	67.5%
12.0	0.3%	10.6%	27.0%



(2) is from Exhibit LEL-2 (page 2).

(3) is from Exhibit LEL-2 (page 3).

(4) is from Exhibit LEL-2 (page 4).

Historical Limited Paid Losses (\$000) and Limited Paid Loss Development

I. Historical Limited Paid Losses (\$000)

Claim Period	12	24	Months of Development:																	
			36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
to 1999/00																	\$1,697	\$1,697	\$1,697	\$1,697
2000/01																0	0	0	0	0
2001/02																0	0	0	0	0
2002/03																0	0	0	0	0
2003/04														51,374	1,024	1,024	1,024	1,024		
2004/05												1,371	1,371	51,374	51,374	51,374				
2005/06												2,599	2,599	2,599	2,599					
2006/07										2,335	2,338	2,403	2,403							
2007/08									6,734	6,734	12,297	12,297								
2008/09								4,187	4,387	4,387	4,393									
2009/10							5,401	5,475	5,625	6,602										
2010/11						1,516	5,401	5,475	5,625	6,602										
2011/12					1,926	3,159	5,401	5,475	5,625	6,602										
2012/13				1,957	3,259	7,292	5,401	5,475	5,625	6,602										
2013/14			1,507	7,864	8,761	9,263	5,401	5,475	5,625	6,602										
2014/15		340	1,145	1,623	2,848		5,401	5,475	5,625	6,602										
2015/16	1	373	1,227	3,589			5,401	5,475	5,625	6,602										
2016/17	3,272	3,662	4,602				5,401	5,475	5,625	6,602										
2017/18	12	819					5,401	5,475	5,625	6,602										
2018/19	11						5,401	5,475	5,625	6,602										

II. Limited Paid Loss Development

Claim Period	12-24	24-36	Months of Development:																		
			36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult	
to 1999/00																	1,000	1,000	1,000		
2000/01																					
2001/02																					
2002/03																					
2003/04													1,000	1,000	1,000	1,000					
2004/05												1,000	1,000	1,000							
2005/06											1,000	1,000	1,000								
2006/07										1,001	1,028	1,000									
2007/08									1,000	1,826	1,000										
2008/09								1,048	1,000	1,001											
2009/10									1,014	1,174											
2010/11						4,729	1,014	1,027	1,174												
2011/12					1,640	1,031	1,014	1,027	1,174												
2012/13				1,666	2,238	1,308	1,014	1,027	1,174												
2013/14			5,217	1,114	1,057		1,014	1,027	1,174												
2014/15		3,371	1,418	1,755			1,014	1,027	1,174												
2015/16	746,246	3,290	2,924				1,014	1,027	1,174												
2016/17	1,119	1,257					1,014	1,027	1,174												
2017/18	66,837						1,014	1,027	1,174												
2018/19							1,014	1,027	1,174												
Average																					
All	271.401	2,639	3,186	1,512	1,645	2,356	1,012	2,139	1,058	1,276	1,009	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Wtd 3	1,477	1,594	3,371	1,299	1,414	1,669	1,009	2,445	1,058	1,414	1,004	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Last 3	271.401	2,639	3,186	1,512	1,645	2,356	1,012	2,139	1,058	1,276	1,009	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Last 5																					
x-hi,low																					
Previous	10,500	4,750	2,200	1,600	1,300	1,250	1,080	1,070	1,030	1,020	1,010	1,005	1,005	1,005	1,003	1,003	1,003	1,003	1,002	1,015	
Selected	10,500	4,750	2,200	1,600	1,300	1,250	1,080	1,070	1,030	1,020	1,010	1,005	1,005	1,005	1,003	1,003	1,003	1,003	1,002	1,015	
Cumulative	365,495	34,809	7,328	3,331	2,082	1,601	1,281	1,186	1,109	1,076	1,055	1,045	1,040	1,034	1,029	1,026	1,023	1,020	1,017	1,015	
Percent	0.3%	2.9%	13.6%	30.0%	48.0%	62.4%	78.1%	84.3%	90.2%	92.9%	94.8%	95.7%	96.2%	96.7%	97.2%	97.4%	97.7%	98.0%	98.3%	98.5%	

Amounts are limited (net of excess insurance).

Data was provided by the County.

Historical Limited Reported Incurred Losses (\$000) and Limited Reported Incurred Loss Development

I. Historical Limited Reported Incurred Losses (\$000)

Claim Period	12	24	Months of Development:																	
			36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
to 1999/00																	\$1,697	\$3,697	\$13,697	\$13,697
2000/01																100	100	500	1,500	
2001/02																0	0	0	0	
2002/03																1,024	1,024	1,024	1,024	
2003/04																51,374	51,374	51,374	51,374	
2004/05												2,371	1,871	1,373	1,371					
2005/06												2,699	3,599	4,099						
2006/07										2,360	2,378	2,403	2,403							
2007/08									11,734	12,234	12,297	13,297								
2008/09								4,397	4,387	4,387	4,393									
2009/10							5,446	5,606	5,726	6,603										
2010/11						41,667	14,926	27,523	31,243											
2011/12					3,127	3,377	3,339	3,332												
2012/13				10,078	10,232	10,097	10,509													
2013/14			11,995	10,353	15,377	22,768														
2014/15		3,011	3,614	6,837	9,740															
2015/16	842	2,642	10,408	13,413																
2016/17	3,946	10,334	17,927																	
2017/18	1,222	8,240																		
2018/19	2,214																			

II. Limited Reported Incurred Loss Development

Claim Period	12-24	24-36	Months of Development:																	
			36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult
to 1999/00																	2,179	3,705	1,000	
2000/01																1,000	5,000	3,000		
2001/02																				
2002/03																1,000	1,000	1,000		
2003/04														1,000	1,000	1,000				
2004/05												0.789	0.734	0.999						
2005/06											1.038	1.333	1.139							
2006/07										1.008	1.011	1.000								
2007/08									1.043	1.005	1.081									
2008/09								0.998	1.000	1.001										
2009/10																				
2010/11						0.358	1.030	1.021	1.153											
2011/12					1.080	0.989	0.998													
2012/13				1.015	0.987	1.041														
2013/14			0.863	1.485	1.481															
2014/15		1.200	1.892	1.425																
2015/16	3.138	3.939	1.289																	
2016/17	2.619	1.735																		
2017/18	6.745																			
2018/19																				
Average																				
All	4.167	2.291	1.348	1.308	1.182	0.796	1.291	1.051	1.065	1.005	1.043	1.041	0.958	1.000	1.000	1.000	3.589	3.353	1.000	
Wtd 3	3.530	1.998	1.176	1.296	1.261	0.522	1.538	1.102	1.063	1.005	1.065	1.054	1.000	1.000	1.000	1.000	2.336			
Last 3	4.167	2.291	1.348	1.308	1.182	0.796	1.291	1.051	1.065	1.005	1.043	1.041	0.958	1.000						
Last 5																				
x-hi,low																				
Previous	2.525	2.200	1.165	1.165	1.080	1.035	1.035	1.035	1.010	1.007	1.007	1.007	1.003	1.003	1.002	1.002	1.001	1.001	1.001	1.005
Selected	2.525	2.200	1.165	1.165	1.080	1.035	1.035	1.035	1.010	1.007	1.007	1.007	1.003	1.003	1.002	1.002	1.001	1.001	1.001	1.000
Cumulative	9.433	3.736	1.698	1.458	1.251	1.158	1.119	1.081	1.045	1.034	1.027	1.020	1.013	1.010	1.007	1.005	1.003	1.002	1.001	1.000
Percent	10.6%	26.8%	58.9%	68.6%	79.9%	86.3%	89.3%	92.5%	95.7%	96.7%	97.3%	98.0%	98.7%	99.0%	99.3%	99.5%	99.7%	99.8%	99.9%	100.0%

Amounts are limited (net of excess insurance).

Data was provided by the County.

Historical Reported Claims and Reported Claim Development

I. Historical Reported Claims

Claim Period	Months of Development:																			
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
to 1999/00																				100
2000/01																1	1	1	2	3
2001/02																1	1	1	1	
2002/03																97	97	97	1	
2003/04																105	105	105		
2004/05												102	102	103	103					
2005/06													137	138						
2006/07										183	183	183	183							
2007/08										191	191	191	192							
2008/09								241	241	241	242									
2009/10							226	228	228	228										
2010/11						207	208	210	210											
2011/12					365	369	369	369												
2012/13				428	438	441	443													
2013/14			582	616	622	624														
2014/15		285	372	382	386															
2015/16	98	251	330	343																
2016/17	100	227	288																	
2017/18	78	205																		
2018/19	58																			

II. Reported Claim Development

Claim Period	Months of Development:																			
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult
to 1999/00																				
2000/01																1.000	2.000	1.500		
2001/02																1.000	1.000			
2002/03																1.000	1.000			
2003/04																1.000	1.000			
2004/05													1.010	1.000						
2005/06											1.007	1.000	1.007							
2006/07										1.000	1.000	1.000								
2007/08									1.000	1.000	1.005									
2008/09								1.000	1.000	1.004										
2009/10							1.009	1.000	1.000											
2010/11						1.005	1.010	1.000												
2011/12					1.011	1.000	1.000													
2012/13				1.023	1.007	1.005														
2013/14			1.058	1.010	1.003															
2014/15		1.305	1.027	1.010																
2015/16	2.561	1.315	1.039																	
2016/17	2.270	1.269																		
2017/18	2.628																			
2018/19																				
Average																				
All	2.486	1.296	1.042	1.015	1.007	1.003	1.006	1.000	1.000	1.001	1.004	1.000	1.009	1.000	1.000	1.000	1.500	1.500		
Wtd 3	2.475	1.298	1.044	1.014	1.006	1.003	1.005	1.000	1.000	1.002	1.004	1.000	1.009	1.000	1.000	1.000	1.000	1.000		
Last 3	2.486	1.296	1.042	1.015	1.007	1.003	1.006	1.000	1.000	1.001	1.004	1.000	1.009	1.000	1.000	1.000				
Last 5																				
x-hi,low																				
Previous	2.400	1.370	1.050	1.020	1.015	1.010	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
Selected	2.500	1.350	1.050	1.020	1.015	1.010	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
Cumulative	3.706	1.482	1.098	1.046	1.025	1.010	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
Percent	27.0%	67.5%	91.1%	95.6%	97.5%	99.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Data was provided by the County.

Historical Ratio of Limited Paid Losses and Limited Reported Incurred Losses

Claim Period	Months of Development:																			
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
to 1999/00																	100.0%	45.9%	12.4%	12.4%
2000/01																0.0%	0.0%	0.0%	0.0%	
2001/02																				
2002/03																				
2003/04																				
2004/05																				
2005/06																				
2006/07																				
2007/08																				
2008/09																				
2009/10																				
2010/11																				
2011/12																				
2012/13																				
2013/14																				
2014/15																				
2015/16																				
2016/17																				
2017/18																				
2018/19																				
Average																				
All	21.1%	17.7%	20.4%	36.5%	44.9%	52.5%	83.9%	79.7%	88.8%	88.5%	99.6%	86.7%	86.4%	90.8%	100.0%	66.7%	66.7%	22.9%	6.2%	12.4%
Last 3	28.1%	19.8%	23.0%	42.2%	39.4%	68.8%	78.8%	74.6%	99.3%	85.0%	99.4%	96.3%	81.8%	87.8%	100.0%					
Last 5																				
x-hi,low																				
Implicit	2.6%	10.7%	23.2%	43.8%	60.1%	72.3%	87.4%	91.2%	94.2%	96.1%	97.4%	97.6%	97.4%	97.6%	97.8%	97.9%	98.0%	98.2%	98.4%	98.5%
Prior	2.6%	10.8%	23.3%	44.0%	60.4%	72.7%	87.8%	91.6%	94.7%	96.6%	97.8%	98.1%	97.9%	98.1%	98.3%	98.4%	98.5%	98.7%	98.9%	99.0%

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Paid Losses 11/30/19 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1999/00	240.0	\$1,696,734	98.5%	\$1,722,185
2000/01	228.0	0	98.3%	0
2001/02	216.0	0	98.0%	0
2002/03	204.0	1,024,401	97.7%	1,048,107
2003/04	192.0	51,374,033	97.4%	52,458,477 *
2004/05	180.0	1,371,302	97.2%	1,411,467
2005/06	168.0	2,598,785	96.7%	2,688,276
2006/07	156.0	2,403,373	96.2%	2,498,565
2007/08	144.0	12,296,710	95.7%	12,847,677
2008/09	132.0	4,392,748	94.8%	4,635,465
2009/10	120.0	6,601,655	92.9%	7,105,753
2010/11	108.0	31,143,025	90.2%	34,526,714
2011/12	96.0	3,329,458	84.3%	3,949,588
2012/13	84.0	9,538,834	78.1%	12,220,734
2013/14	72.0	9,262,600	62.4%	14,833,543
2014/15	60.0	2,847,987	48.0%	5,929,162
2015/16	48.0	3,589,187	30.0%	11,955,601
2016/17	36.0	4,602,070	13.6%	24,908,254 *
2017/18	24.0	818,750	2.9%	28,499,874
2018/19	12.0	10,600	0.3%	3,874,242
Total		\$148,902,252		\$227,113,685

* - Indicates large claim(s) limited to retention. For details, see Exhibit LEL-15.

(3) is from Exhibit LEL-1.

(4) is from Exhibit LEL-2.

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1999/00	240.0	\$15,196,734	100.0%	\$15,196,734
2000/01	228.0	1,500,000	99.9%	1,501,500
2001/02	216.0	0	99.8%	0
2002/03	204.0	1,024,401	99.7%	1,027,477
2003/04	192.0	51,374,033	99.5%	51,581,275 *
2004/05	180.0	1,371,302	99.3%	1,380,927
2005/06	168.0	4,098,785	99.0%	4,139,937
2006/07	156.0	2,403,373	98.7%	2,434,785
2007/08	144.0	13,296,710	98.0%	13,564,794
2008/09	132.0	4,392,748	97.3%	4,512,682
2009/10	120.0	6,602,655	96.7%	6,830,407
2010/11	108.0	31,243,025	95.7%	32,643,927
2011/12	96.0	3,331,958	92.5%	3,603,207
2012/13	84.0	10,508,834	89.3%	11,762,092
2013/14	72.0	22,767,900	86.3%	24,790,738 *
2014/15	60.0	9,740,487	79.9%	10,930,852 *
2015/16	48.0	13,413,387	68.6%	17,262,836 *
2016/17	36.0	17,926,670	58.9%	23,459,742 *
2017/18	24.0	8,240,100	26.8%	17,103,949 *
2018/19	12.0	2,214,306	10.6%	20,886,599
Total		\$220,647,408		\$264,614,462

* - Indicates large claim(s) limited to retention. For details, see Exhibit LEL-15.

(3) is from Exhibit LEL-1.

(4) is from Exhibit LEL-2.

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/19 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/19 (6)	Limited Case Reserves 11/30/19 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1999/00	240.0	98.5%	100.0%	100.0%	\$1,696,734	\$13,500,000	\$15,196,734
2000/01	228.0	98.3%	99.9%	94.0%	0	1,500,000	1,595,168
2001/02	216.0	98.0%	99.8%	89.9%	0	0	0
2002/03	204.0	97.7%	99.7%	86.8%	1,024,401	0	1,024,401
2003/04	192.0	97.4%	99.5%	80.5%	51,374,033	0	51,374,033
2004/05	180.0	97.2%	99.3%	75.5%	1,371,302	0	1,371,302
2005/06	168.0	96.7%	99.0%	70.1%	2,598,785	1,500,000	4,737,369
2006/07	156.0	96.2%	98.7%	66.1%	2,403,373	0	2,403,373
2007/08	144.0	95.7%	98.0%	53.9%	12,296,710	1,000,000	14,151,472
2008/09	132.0	94.8%	97.3%	49.2%	4,392,748	0	4,392,748
2009/10	120.0	92.9%	96.7%	53.0%	6,601,655	1,000	6,603,542
2010/11	108.0	90.2%	95.7%	56.2%	31,143,025	100,000	31,320,928
2011/12	96.0	84.3%	92.5%	52.1%	3,329,458	2,500	3,334,261
2012/13	84.0	78.1%	89.3%	51.4%	9,538,834	970,000	11,424,247
2013/14	72.0	62.4%	86.3%	63.6%	9,262,600	13,505,300	24,775,430 *
2014/15	60.0	48.0%	79.9%	61.4%	2,847,987	6,892,500	10,931,363 *
2015/16	48.0	30.0%	68.6%	55.1%	3,589,187	9,824,200	17,337,869 *
2016/17	36.0	13.6%	58.9%	52.4%	4,602,070	13,324,600	20,947,253 *
2017/18	24.0	2.9%	26.8%	24.6%	818,750	7,421,350	15,660,465 *
2018/19	12.0	0.3%	10.6%	10.4%	10,600	2,203,706	21,289,500
Total					\$148,902,252	\$71,745,156	\$259,871,457

* - Indicates large claim(s) limited to retention. For details, see Exhibit LEL-15.

(3) and (4) are from Exhibit LEL-2.

(6) and (7) are from Exhibit LEL-1.

Preliminary Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	Preliminary Projected Ultimate Limited Losses (5)
\$11 to 1999/00	\$1,722,185	\$15,196,734	\$15,196,734	\$15,196,734
2 2000/01	0	1,501,500	1,595,168	1,595,168
0 2001/02	0	0	0	0
0 2002/03	1,048,107	1,027,477	1,024,401	1,024,401
0 2003/04	52,458,477	51,581,275	51,374,033	51,374,033
0 2004/05	1,411,467	1,380,927	1,371,302	1,371,302
2 2005/06	2,688,276	4,139,937	4,737,369	4,737,369
0 2006/07	2,498,565	2,434,785	2,403,373	2,403,373
1 2007/08	12,847,677	13,564,794	14,151,472	14,151,472
0 2008/09	4,635,465	4,512,682	4,392,748	4,392,748
1 2009/10	7,105,753	6,830,407	6,603,542	6,603,542
1 2010/11	34,526,714	32,643,927	31,320,928	31,320,928
1 2011/12	3,949,588	3,603,207	3,334,261	3,468,734
7 2012/13	12,220,734	11,762,092	11,424,247	11,593,170
16 2013/14	14,833,543	24,790,738	24,775,430	24,783,084
20 2014/15	5,929,162	10,930,852	10,931,363	10,931,107
56 2015/16	11,955,601	17,262,836	17,337,869	17,300,353
95 2016/17	24,908,254	23,459,742	20,947,253	20,947,253
131 2017/18	28,499,874	17,103,949	15,660,465	15,660,465
49 2018/19	3,874,242	20,886,599	21,289,500	21,289,500
Total	\$227,113,685	\$264,614,462	\$259,871,457	\$260,144,734

(2) is from Exhibit LEL-3.

(3) is from Exhibit LEL-4.

(4) is from Exhibit LEL-5.

(5) is based on (2) to (4) and actuarial judgment.



COOK COUNTY, ILLINOIS
LAW ENFORCEMENT LIABILITY

Exhibit LEL-7

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Sworn Officers (3)	Limited Loss Rate per Sworn Officer (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per Sworn Officer (4)X(5) (6)	Projected A-priori Loss Rate per Sworn Officer (7)/(5) (8)
2009/10	\$6,603,542	6,022	\$1,096.57	1.480	\$1,623.19	\$2,201.23
2010/11	31,320,928	6,022	5,201.08	1.423	7,402.76	2,289.28
2011/12	3,468,734	6,022	576.01	1.369	788.31	2,380.86
2012/13	11,593,170	6,022	1,925.14	1.316	2,533.35	2,476.09
2013/14	24,783,084	6,022	4,115.42	1.265	5,207.32	2,575.13
2014/15	10,931,107	6,022	1,815.20	1.217	2,208.46	2,678.14
2015/16	17,300,353	5,881	2,941.74	1.170	3,441.42	2,785.26
2016/17	20,947,253	5,451	3,842.83	1.125	4,322.66	2,896.67
2017/18	15,660,465	5,319	2,944.25	1.082	3,184.50	3,012.54
2018/19	21,289,500	5,054	4,212.41	1.040	4,380.90	3,133.04
(7) Projected 2019/20 a-priori loss rate per Sworn Officer					\$3,258.37	

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Percent Losses Paid (3)	Projected A-priori Loss Rate per Sworn Officer (4)	Sworn Officers (5)	B-F Unpaid Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Paid Losses (2)+(6) (7)
2014/15	\$2,847,987	48.0%	\$2,678.14	6,022	\$8,381,020	\$11,229,007
2015/16	3,589,187	30.0%	2,785.26	5,881	11,462,663	15,051,850
2016/17	4,602,070	13.6%	2,896.67	5,451	13,635,119	18,237,188
2017/18	818,750	2.9%	3,012.54	5,319	15,563,378	16,382,128
2018/19	10,600	0.3%	3,133.04	5,054	15,791,079	15,801,679

III. Bornhuetter - Ferguson Analysis Based on Limited Reported Incurred Losses

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Percent Losses Reported (3)	Projected A-priori Loss Rate per Sworn Officer (4)	Sworn Officers (5)	B-F Unreported Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Reported Losses (2)+(6) (7)
2014/15	\$9,740,487	79.9%	\$2,678.14	6,022	\$3,236,957	\$12,977,444
2015/16	13,413,387	68.6%	2,785.26	5,881	5,141,919	18,555,306
2016/17	17,926,670	58.9%	2,896.67	5,451	6,490,909	24,417,579
2017/18	8,240,100	26.8%	3,012.54	5,319	11,734,331	19,974,431
2018/19	2,214,306	10.6%	3,133.04	5,054	14,155,707	16,370,014

Section I, (2) is from Exhibit LEL-6.

Section I, (3), Section II, (5) and Section III, (5) are from Exhibit LEL-10.

Section I, (5) is based on a 4% trend.

Section I, (7) is based on Section I, (6) and actuarial judgment.

Sections II and III, (2) are from Exhibit LEL-1.

Sections II and III, (3) are from Exhibit LEL-2.

Sections II and III, (4) are from Section I, (8).

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/19 (2)	Reported Claims 11/30/19 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Sworn Officers (6)	Frequency (per 100 Sworn Officers) (5)/(6)X100 (7)
2009/10	120.0	228	100.0%	228	6,022	3.79
2010/11	108.0	210	100.0%	210	6,022	3.49
2011/12	96.0	369	100.0%	369	6,022	6.13
2012/13	84.0	443	100.0%	443	6,022	7.36
2013/14	72.0	624	99.0%	630	6,022	10.46
2014/15	60.0	386	97.5%	396	6,022	6.58
2015/16	48.0	343	95.6%	359	5,881	6.10
2016/17	36.0	288	91.1%	316	5,451	5.80
2017/18	24.0	205	67.5%	304	5,319	5.72
2018/19	12.0	58	27.0%	215	5,054	4.25

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2019/20 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2019/20 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2009/10	\$6,603,542	228	\$28,963	1.480	\$42,872	\$35,493	\$8,092,358
2010/11	31,320,928	210	149,147	1.423	212,283	36,913	7,751,627
2011/12	3,468,734	369	9,400	1.369	12,865	38,389	14,165,544
2012/13	11,593,170	443	26,170	1.316	34,438	39,925	17,686,584
2013/14	24,783,084	630	39,338	1.265	49,775	41,522	26,158,578
2014/15	10,931,107	396	27,604	1.217	33,584	43,182	17,100,236
2015/16	17,300,353	359	48,190	1.170	56,376	44,910	16,122,586
2016/17	20,947,253	316	66,289	1.125	74,566	46,706	14,759,128
2017/18	15,660,465	304	51,515	1.082	55,718	48,574	14,766,600
2018/19	21,289,500	215	99,021	1.040	102,982	50,517	10,861,223
						(7) Projected 2019/20 average claim severity \$52,538	

Section I, (3) is from Exhibit LEL-1.

Section I, (4) is from Exhibit LEL-2.

Section I, (6) is from Exhibit LEL-10.

Section II, (2) is from Exhibit LEL-6.

Section II, (3) is from Section I, (5).

Section II, (5) is based on a 4% trend.

Section II, (7) is based on (6) and actuarial judgment.

Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	B-F Ultimate Limited Paid Losses (5)	B-F Ultimate Limited Reported Losses (6)	Frequency Times Severity (7)	Prior Projected Ultimate Limited Losses (8)	Projected Ultimate Limited Losses (9)
to 1999/00	\$1,722,185	\$15,196,734	\$15,196,734					\$15,197,000
2000/01	0	1,501,500	1,595,168					1,502,000
2001/02	0	0	0					0
2002/03	1,048,107	1,027,477	1,024,401					1,024,401
2003/04	52,458,477	51,581,275	51,374,033					51,374,033
2004/05	1,411,467	1,380,927	1,371,302					1,371,302
2005/06	2,688,276	4,139,937	4,737,369					4,439,000
2006/07	2,498,565	2,434,785	2,403,373					2,435,000
2007/08	12,847,677	13,564,794	14,151,472					13,565,000
2008/09	4,635,465	4,512,682	4,392,748					4,392,748
2009/10	7,105,753	6,830,407	6,603,542					6,604,000
2010/11	34,526,714	32,643,927	31,320,928					31,400,000
2011/12	3,949,588	3,603,207	3,334,261					3,469,000
2012/13	12,220,734	11,762,092	11,424,247					11,593,000
2013/14	14,833,543	24,790,738	24,775,430					24,700,000
2014/15	5,929,162	10,930,852	10,931,363	11,229,007	12,977,444	17,100,236		10,931,000
2015/16	11,955,601	17,262,836	17,337,869	15,051,850	18,555,306	16,122,586		15,000,000
2016/17	24,908,254	23,459,742	20,947,253	18,237,188	24,417,579	14,759,128		20,000,000
2017/18	28,499,874	17,103,949	15,660,465	16,382,128	19,974,431	14,766,600		15,000,000
2018/19	3,874,242	20,886,599	21,289,500	15,801,679	16,370,014	10,861,223		16,000,000
Total	\$227,113,685	\$264,614,462	\$259,871,457					\$249,997,484
2014/15 - 2018/19	75,167,133	89,643,978	86,166,450	76,701,852	92,294,774	73,609,774		76,931,000
to 2013/14	151,946,552	174,970,484	173,705,007					173,066,484
						Change		
						All years		\$249,997,484
						2014/15 - 2018/19		76,931,000
						to 2013/14		173,066,484

(2) is from Exhibit LEL-3.

(3) is from Exhibit LEL-4.

(4) is from Exhibit LEL-5.

(5) and (6) are from Exhibit LEL-7.

(7) is from Exhibit LEL-8.

(8) is based on (2) to (7) and actuarial judgment.

Projected Ultimate Limited Losses for 2019/20 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Sworn Officers (3)	Limited Loss Rate per Sworn Officer (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per Sworn Officer (4)X(5) (6)
2009/10	\$6,604,000	6,022	\$1,096.65	1.480	\$1,623.30
2010/11	31,400,000	6,022	5,214.21	1.423	7,421.45
2011/12	3,469,000	6,022	576.05	1.369	788.37
2012/13	11,593,000	6,022	1,925.11	1.316	2,533.31
2013/14	24,700,000	6,022	4,101.63	1.265	5,189.87
2014/15	10,931,000	6,022	1,815.18	1.217	2,208.44
2015/16	15,000,000	5,881	2,550.59	1.170	2,983.83
2016/17	20,000,000	5,451	3,669.05	1.125	4,127.18
2017/18	15,000,000	5,319	2,820.08	1.082	3,050.20
2018/19	16,000,000	5,054	3,165.81	1.040	3,292.44
Total	\$154,697,000	57,837	\$2,674.71		\$3,321.84

Claim Period (1)	Projected Limited Loss Rate per Sworn Officer (7)	Projected Sworn Officers (8)	Projected Ultimate Limited Losses (7)X(8) (9)	Present Value Factor (10)	Present Value of Projected Limited Loss Rate per Sworn Officer (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11) (12)
2019/20	\$3,340.75	4,883	\$16,313,000	0.91	\$3,049.52	\$14,891,000
2020/21	3,474.38	4,883	16,965,000	0.91	3,171.50	15,486,000
2021/22	3,613.36	4,883	17,644,000	0.91	3,298.36	16,106,000

(2) is from Exhibit LEL-9.

(3) 2014/15, 2015/16, 2016/17, 2017/18 and 2018/19 were provided by the County. Other periods assume a 0% trend.

(5) is based on a 4% trend.

(7) 2019/20 is based on (6) and actuarial judgment.
Other period(s) based on 2019/20 plus a 4% trend.

(8) to 2019/20 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit LEL-2.

Estimated Outstanding Losses as of November 30, 2019

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Limited Case Reserves 11/30/19 (3)	Limited Reported Incurred Losses 11/30/19 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/19 (5)-(4) (6)	Estimated Outstanding Losses 11/30/19 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/19 (7)X(8) (9)
to 1999/00	\$1,696,734	\$13,500,000	\$15,196,734	\$15,197,000	\$266	\$13,500,266	0.96	\$12,926,881
2000/01	0	1,500,000	1,500,000	1,502,000	2,000	1,502,000	0.95	1,424,184
2001/02	0	0	0	0	0	0	0.94	0
2002/03	1,024,401	0	1,024,401	1,024,401	0	0	0.94	0
2003/04	51,374,033	0	51,374,033	51,374,033	0	0	0.93	0
2004/05	1,371,302	0	1,371,302	1,371,302	0	0	0.92	0
2005/06	2,598,785	1,500,000	4,098,785	4,439,000	340,215	1,840,215	0.92	1,692,542
2006/07	2,403,373	0	2,403,373	2,435,000	31,627	31,627	0.92	28,975
2007/08	12,296,710	1,000,000	13,296,710	13,565,000	268,290	1,268,290	0.91	1,156,323
2008/09	4,392,748	0	4,392,748	4,392,748	0	0	0.91	0
2009/10	6,601,655	1,000	6,602,655	6,604,000	1,345	2,345	0.92	2,167
2010/11	31,143,025	100,000	31,243,025	31,400,000	156,975	256,975	0.93	239,561
2011/12	3,329,458	2,500	3,331,958	3,469,000	137,042	139,542	0.95	131,936
2012/13	9,538,834	970,000	10,508,834	11,593,000	1,084,166	2,054,166	0.95	1,947,392
2013/14	9,262,600	13,505,300	22,767,900	24,700,000	1,932,100	15,437,400	0.96	14,781,976
2014/15	2,847,987	6,892,500	9,740,487	10,931,000	1,190,513	8,083,013	0.96	7,728,537
2015/16	3,589,187	9,824,200	13,413,387	15,000,000	1,586,613	11,410,813	0.95	10,887,466
2016/17	4,602,070	13,324,600	17,926,670	20,000,000	2,073,330	15,397,930	0.95	14,613,764
2017/18	818,750	7,421,350	8,240,100	15,000,000	6,759,900	14,181,250	0.94	13,337,036
2018/19	10,600	2,203,706	2,214,306	16,000,000	13,785,694	15,989,400	0.93	14,826,982
Total	\$148,902,252	\$71,745,156	\$220,647,408	\$249,997,484	\$29,350,076	\$101,095,232		\$95,725,722

(2), (3) and (4) are net of specific self-insured retention and aggregate retention.

(5) is from Exhibit LEL-9.

(8) is based on a 1.61% interest rate and the payout pattern in Exhibit LEL-2.



COOK COUNTY, ILLINOIS
LAW ENFORCEMENT LIABILITY

Exhibit LEL-12

Projected Losses Paid December 1, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1999/00	240.0	98.5%	252.0	99.0%	15.0% *	\$13,500,266	\$2,025,040	\$11,475,226	0.96	\$10,992,262
2000/01	228.0	98.3%	240.0	98.5%	11.7% *	1,502,000	176,395	1,325,605	0.96	1,269,304
2001/02	216.0	98.0%	228.0	98.3%	14.9% *	0	0	0	0.95	0
2002/03	204.0	97.7%	216.0	98.0%	13.0% *	0	0	0	0.94	0
2003/04	192.0	97.4%	204.0	97.7%	11.4% *	0	0	0	0.94	0
2004/05	180.0	97.2%	192.0	97.4%	10.2% *	0	0	0	0.93	0
2005/06	168.0	96.7%	180.0	97.2%	14.5% *	1,840,215	267,195	1,573,020	0.92	1,450,455
2006/07	156.0	96.2%	168.0	96.7%	12.6% *	31,627	3,992	27,635	0.92	25,417
2007/08	144.0	95.7%	156.0	96.2%	11.2% *	1,268,290	141,531	1,126,759	0.92	1,032,274
2008/09	132.0	94.8%	144.0	95.7%	15.0% *	0	0	0	0.91	0
2009/10	120.0	92.9%	132.0	94.8%	15.0% *	2,345	352	1,993	0.91	1,822
2010/11	108.0	90.2%	120.0	92.9%	15.0% *	256,975	38,546	218,429	0.92	201,842
2011/12	96.0	84.3%	108.0	90.2%	15.0% *	139,542	20,931	118,611	0.93	110,573
2012/13	84.0	78.1%	96.0	84.3%	15.0% *	2,054,166	308,125	1,746,041	0.95	1,650,870
2013/14	72.0	62.4%	84.0	78.1%	15.0% *	15,437,400	2,315,610	13,121,790	0.95	12,439,730
2014/15	60.0	48.0%	72.0	62.4%	15.0% *	8,083,013	1,212,452	6,870,561	0.96	6,578,858
2015/16	48.0	30.0%	60.0	48.0%	15.0% *	11,410,813	1,711,622	9,699,191	0.96	9,273,839
2016/17	36.0	13.6%	48.0	30.0%	15.0% *	15,397,930	2,309,690	13,088,240	0.95	12,487,960
2017/18	24.0	2.9%	36.0	13.6%	11.1% *	14,181,250	1,572,944	12,608,306	0.95	11,966,206
2018/19	12.0	0.3%	24.0	2.9%	2.6% *	15,989,400	416,740	15,572,660	0.94	14,645,615
2019/20	0.0	0.0%	12.0	0.3%	0.3% *	16,313,000	44,633	16,268,367	0.93	15,085,668
Total						\$117,408,232	\$12,565,798	\$104,842,434		\$99,212,695

* - Limited to a maximum of 15% per actuarial judgment.

(3) and (5) are from Exhibit LEL-2.

(7) to 2018/19 is from Exhibit LEL-11. The amount for 2019/20 is from Exhibit LEL-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit LEL-2.



COOK COUNTY, ILLINOIS
LAW ENFORCEMENT LIABILITY

Exhibit LEL-13

Projected Losses Paid December 1, 2020 to November 30, 2021

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Months of Development 11/30/21 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/20 to 11/30/21 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/20 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/21 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/21 (9)X(10) (11)
to 1999/00	252.0	99.0%	264.0	99.3%	15.0% *	\$11,475,226	\$1,721,284	\$9,753,942	0.96	\$9,348,867
2000/01	240.0	98.5%	252.0	99.0%	15.0% *	1,325,605	198,841	1,126,764	0.96	1,079,341
2001/02	228.0	98.3%	240.0	98.5%	11.7% *	0	0	0	0.96	0
2002/03	216.0	98.0%	228.0	98.3%	14.9% *	0	0	0	0.95	0
2003/04	204.0	97.7%	216.0	98.0%	13.0% *	0	0	0	0.94	0
2004/05	192.0	97.4%	204.0	97.7%	11.4% *	0	0	0	0.94	0
2005/06	180.0	97.2%	192.0	97.4%	10.2% *	1,573,020	161,118	1,411,902	0.93	1,311,397
2006/07	168.0	96.7%	180.0	97.2%	14.5% *	27,635	4,013	23,622	0.92	21,781
2007/08	156.0	96.2%	168.0	96.7%	12.6% *	1,126,759	142,239	984,520	0.92	905,515
2008/09	144.0	95.7%	156.0	96.2%	11.2% *	0	0	0	0.92	0
2009/10	132.0	94.8%	144.0	95.7%	15.0% *	1,993	299	1,694	0.91	1,544
2010/11	120.0	92.9%	132.0	94.8%	15.0% *	218,429	32,764	185,665	0.91	169,777
2011/12	108.0	90.2%	120.0	92.9%	15.0% *	118,611	17,792	100,819	0.92	93,163
2012/13	96.0	84.3%	108.0	90.2%	15.0% *	1,746,041	261,906	1,484,135	0.93	1,383,561
2013/14	84.0	78.1%	96.0	84.3%	15.0% *	13,121,790	1,968,269	11,153,521	0.95	10,545,579
2014/15	72.0	62.4%	84.0	78.1%	15.0% *	6,870,561	1,030,584	5,839,977	0.95	5,536,420
2015/16	60.0	48.0%	72.0	62.4%	15.0% *	9,699,191	1,454,879	8,244,312	0.96	7,894,284
2016/17	48.0	30.0%	60.0	48.0%	15.0% *	13,088,240	1,963,236	11,125,004	0.96	10,637,123
2017/18	36.0	13.6%	48.0	30.0%	15.0% *	12,608,306	1,891,246	10,717,060	0.95	10,225,532
2018/19	24.0	2.9%	36.0	13.6%	11.1% *	15,572,660	1,727,276	13,845,384	0.95	13,140,284
2019/20	12.0	0.3%	24.0	2.9%	2.6% *	16,268,367	424,010	15,844,357	0.94	14,901,138
2020/21	0.0	0.0%	12.0	0.3%	0.3% *	16,965,000	46,417	16,918,583	0.93	15,688,614
Total						\$121,807,434	\$13,046,173	\$108,761,261		\$102,883,920

* - Limited to a maximum of 15% per actuarial judgment.

(3) and (5) are from Exhibit LEL-2.

(7) to 2019/20 is from Exhibit LEL-12, (9). The amount for 2020/21 is from Exhibit LEL-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit LEL-2.

Projected Losses Paid December 1, 2021 to November 30, 2022

Claim Period (1)	Months of Development 11/30/21 (2)	Percent Losses Paid (3)	Months of Development 11/30/22 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/21 to 11/30/22 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/21 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/22 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/22 (9)X(10) (11)
to 1999/00	264.0	99.3%	276.0	99.5%	15.0% *	\$9,753,942	\$1,463,091	\$8,290,851	0.96	\$7,953,256
2000/01	252.0	99.0%	264.0	99.3%	15.0% *	1,126,764	169,015	957,749	0.96	917,974
2001/02	240.0	98.5%	252.0	99.0%	15.0% *	0	0	0	0.96	0
2002/03	228.0	98.3%	240.0	98.5%	11.7% *	0	0	0	0.96	0
2003/04	216.0	98.0%	228.0	98.3%	14.9% *	0	0	0	0.95	0
2004/05	204.0	97.7%	216.0	98.0%	13.0% *	0	0	0	0.94	0
2005/06	192.0	97.4%	204.0	97.7%	11.4% *	1,411,902	161,602	1,250,300	0.94	1,169,613
2006/07	180.0	97.2%	192.0	97.4%	10.2% *	23,622	2,420	21,202	0.93	19,693
2007/08	168.0	96.7%	180.0	97.2%	14.5% *	984,520	142,950	841,570	0.92	775,997
2008/09	156.0	96.2%	168.0	96.7%	12.6% *	0	0	0	0.92	0
2009/10	144.0	95.7%	156.0	96.2%	11.2% *	1,694	189	1,505	0.92	1,379
2010/11	132.0	94.8%	144.0	95.7%	15.0% *	185,665	27,850	157,815	0.91	143,883
2011/12	120.0	92.9%	132.0	94.8%	15.0% *	100,819	15,123	85,696	0.91	78,363
2012/13	108.0	90.2%	120.0	92.9%	15.0% *	1,484,135	222,620	1,261,515	0.92	1,165,717
2013/14	96.0	84.3%	108.0	90.2%	15.0% *	11,153,521	1,673,028	9,480,493	0.93	8,838,038
2014/15	84.0	78.1%	96.0	84.3%	15.0% *	5,839,977	875,997	4,963,980	0.95	4,693,410
2015/16	72.0	62.4%	84.0	78.1%	15.0% *	8,244,312	1,236,647	7,007,665	0.95	6,643,412
2016/17	60.0	48.0%	72.0	62.4%	15.0% *	11,125,004	1,668,751	9,456,253	0.96	9,054,770
2017/18	48.0	30.0%	60.0	48.0%	15.0% *	10,717,060	1,607,559	9,109,501	0.96	8,710,009
2018/19	36.0	13.6%	48.0	30.0%	15.0% *	13,845,384	2,076,808	11,768,576	0.95	11,228,821
2019/20	24.0	2.9%	36.0	13.6%	11.1% *	15,844,357	1,757,412	14,086,945	0.95	13,369,543
2020/21	12.0	0.3%	24.0	2.9%	2.6% *	16,918,583	440,957	16,477,626	0.94	15,496,708
2021/22	0.0	0.0%	12.0	0.3%	0.3% *	17,644,000	48,274	17,595,726	0.93	16,316,529
Total						\$126,405,261	\$13,590,293	\$112,814,968		\$106,577,115

* - Limited to a maximum of 15% per actuarial judgment.

(3) and (5) are from Exhibit LEL-2.

(7) to 2020/21 is from Exhibit LEL-13, (9). The amount for 2021/22 is from Exhibit LEL-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit LEL-2.

List of Large Claims
Reported Incurred Losses Greater Than \$1,000,000

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/19 (5)	Unlimited Case Reserves 11/30/19 (6)	Unlimited Reported Incurred Losses 11/30/19 (7)
198807941	05/28/88	to 1999/00	Unlimited	\$0	\$1,000,000	\$1,000,000
199004477	08/22/90	to 1999/00	Unlimited	0	1,000,000	1,000,000
201704089	06/09/93	to 1999/00	Unlimited	0	1,000,000	1,000,000
199304086	06/28/93	to 1999/00	Unlimited	0	1,000,000	1,000,000
199404022	04/01/94	to 1999/00	Unlimited	0	3,000,000	3,000,000
199604694	04/01/96	to 1999/00	Unlimited	0	1,000,000	1,000,000
199804150	01/01/98	to 1999/00	Unlimited	0	1,000,000	1,000,000
199804152	01/01/98	to 1999/00	Unlimited	0	1,000,000	1,000,000
199804154	01/01/98	to 1999/00	Unlimited	0	1,000,000	1,000,000
199804197	04/05/98	to 1999/00	Unlimited	0	2,000,000	2,000,000
200106382	03/19/01	2000/01	9,500,000	0	1,000,000	1,000,000
97005996	01/13/04	2003/04	10,000,000	45,359,001 *	0	45,359,001 *
97005976	02/05/04	2003/04	10,000,000	4,590,875	0	4,590,875
201601545	02/21/06	2005/06	10,000,000	0	1,000,000	1,000,000
97007633	01/20/08	2007/08	10,000,000	5,563,000	0	5,563,000
97007489	08/29/08	2007/08	10,000,000	4,100,000	0	4,100,000
200807937	09/03/08	2007/08	10,000,000	0	1,000,000	1,000,000
97009513	04/27/10	2009/10	10,000,000	3,214,250	0	3,214,250
97009812	11/16/11	2010/11	10,000,000	7,990,000	0	7,990,000
97009813	11/16/11	2010/11	10,000,000	5,625,000	0	5,625,000
97009834	11/16/11	2010/11	10,000,000	7,990,000	0	7,990,000
97011202	11/16/11	2010/11	10,000,000	7,990,000	0	7,990,000
97010892	09/01/13	2012/13	15,000,000	3,750,000	0	3,750,000
97011594	09/19/13	2012/13	15,000,000	1,500,000	0	1,500,000
97012836	01/20/14	2013/14	10,000,000	0	10,000,000 *	10,000,000 *
97012505	10/12/14	2013/14	15,000,000	4,750,000	0	4,750,000
201500214	05/02/15	2014/15	15,000,000	0	1,000,000	1,000,000
201500939	06/22/15	2014/15	5,000,000	0	5,000,000 *	5,000,000 *
201604331	03/22/16	2015/16	15,000,000	1,700,000	0	1,700,000
201805246	08/06/16	2015/16	5,000,000	0	5,000,000 *	5,000,000 *
201602925	08/16/16	2015/16	15,000,000	0	2,000,000	2,000,000
201704868	01/01/17	2016/17	10,000,000	0	10,000,000 *	10,000,000 *
201703028	05/02/17	2016/17	15,000,000	3,250,000 *	0	3,250,000
201705950	11/29/17	2016/17	15,000,000	0	1,000,000	1,000,000
201808057	09/05/18	2017/18	5,000,000	0	5,000,000 *	5,000,000 *

* - for open claims with incurred greater than \$5 million, the developed amount is capped at reported incurred.

The claim(s) indicated by a "*" have been limited in development.

Amounts are gross of excess insurance and net of other recoveries.

Size of Loss Distribution

I. Reported Claim Count

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	1,474	154	88	57	26	5	1,804		
0.01 - 5,000	804	137	144	118	78	22	1,303	1,303	51.8%
5,000 - 10,000	309	37	52	37	31	11	477	1,780	70.8%
10,000 - 25,000	197	27	30	37	31	8	330	2,110	83.9%
25,000 - 50,000	95	15	11	21	29	8	179	2,289	91.1%
50,000 - 100,000	64	7	8	12	8	0	99	2,388	95.0%
100,000 - 250,000	32	5	5	3	0	1	46	2,434	96.8%
250,000 - 500,000	24	2	0	0	1	3	30	2,464	98.0%
500,000 - 750,000	11	0	2	0	0	0	13	2,477	98.5%
750,000 - 1,000,000	13	1	0	1	0	0	15	2,492	99.1%
Over 1,000,000	15	1	3	2	1	0	22	2,514	100.0%
Total	3,038	386	343	288	205	58	4,318	2,514	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
0.01 - 5,000	1,689,318	243,194	278,515	249,194	186,100	55,100	2,701,421	2,701,421	1.2%
5,000 - 10,000	2,542,725	316,699	441,675	327,049	286,500	109,206	4,023,854	6,725,275	3.0%
10,000 - 25,000	3,338,294	481,694	527,123	686,001	622,500	170,000	5,825,612	12,550,887	5.7%
25,000 - 50,000	3,548,114	589,900	421,074	870,000	1,215,000	330,000	6,974,088	19,524,975	8.8%
50,000 - 100,000	4,933,794	549,000	630,000	969,426	655,000	0	7,737,220	27,262,195	12.4%
100,000 - 250,000	5,872,334	960,000	915,000	575,000	0	250,000	8,572,334	35,834,530	16.2%
250,000 - 500,000	9,570,788	600,000	0	0	275,000	1,300,000	11,745,788	47,580,317	21.6%
500,000 - 750,000	7,419,001	0	1,500,000	0	0	0	8,919,001	56,499,318	25.6%
750,000 - 1,000,000	12,775,963	1,000,000	0	1,000,000	0	0	14,775,963	71,275,282	32.3%
Over 1,000,000	117,422,126	5,000,000	8,700,000	13,250,000	5,000,000	0	149,372,126	220,647,408	100.0%
Total	\$169,112,458	\$9,740,487	\$13,413,387	\$17,926,670	\$8,240,100	\$2,214,306	\$220,647,408	\$220,647,408	

Amounts are gross of excess insurance and net of other recoveries.

Data was provided by the County.

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Data Summary as of November 30, 2019
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Revenue (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Limited Paid Losses 11/30/19 (8)	Limited Case Reserves 11/30/19 (9)	Limited Reported Incurred Losses 11/30/19 (10)
to 1999/00	See Note	None	240.0	Not Provided	1,416	0	\$88,175,376	\$0	\$88,175,376
2000/01	9,500,000	40,000,000	228.0	1,068,809	177	0	7,938,079	0	7,938,079
2001/02	9,500,000	40,000,000	216.0	1,057,079	162	0	12,153,693	0	12,153,693
2002/03	9,500,000	45,000,000	204.0	1,086,728	87	0	5,220,383	0	5,220,383
2003/04	10,000,000	None	192.0	1,199,434	74	0	16,951,620	0	16,951,620
2004/05	10,000,000	25,000,000	180.0	1,189,789	61	3	3,343,636	7,775,000	11,118,636
2005/06	10,000,000	25,000,000	168.0	1,357,723	94	0	4,023,510	0	4,023,510
2006/07	10,000,000	None	156.0	1,243,144	140	3	6,971,160	3,622,000	10,593,160
2007/08	10,000,000	None	144.0	1,207,801	78	0	1,287,951	0	1,287,951
2008/09	10,000,000	None	132.0	1,303,812	87	2	1,983,037	5,618,155	7,601,192
2009/10	10,000,000	None	120.0	1,287,986	97	1	1,711,869	125,000	1,836,869
2010/11	10,000,000	None	108.0	1,293,078	84	5	1,958,703	649,601	2,608,304
2011/12	10,000,000	None	96.0	1,331,769	53	4	2,729,791	2,026,000	4,755,791
2012/13	15,000,000	None	84.0	1,285,791	68	10	1,199,043	1,360,000	2,559,043
2013/14	15,000,000	None	72.0	1,362,902	55	10	951,531	12,567,000	13,518,531
2014/15	15,000,000	None	60.0	1,509,150	62	18	1,032,332	16,243,001	17,275,333
2015/16	15,000,000	None	48.0	1,699,156	62	32	388,129	11,422,000	11,810,129
2016/17	15,000,000	None	36.0	1,753,287	57	43	80,750	8,493,000	8,573,750
2017/18	20,000,000	None	24.0	1,675,248	32	28	4,275,600	4,638,000	8,913,600
2018/19	20,000,000	None	12.0	Not Provided	31	28	5,525	2,033,500	2,039,025
Total					2,977	187	\$162,381,717	\$76,572,257	\$238,953,974

* The specific self-insured retention changes are as follows:

Effective Date	Retention
12/01/77	Unlimited
12/01/00	9,500,000
12/01/03	10,000,000
03/01/13	15,000,000
07/01/18	20,000,000

(8), (9) and (10) are net of the specific self-insured retention and other recoveries.

Data was provided by the County.

Data Summary as of November 30, 2019
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Revenue (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Net Unlimited Paid Losses 11/30/19 (8)	Net Unlimited Case Reserves 11/30/19 (9)	Net Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	1,416	0	\$88,175,376	\$0	\$88,175,376
2000/01	Unlimited	40,000,000	228.0	1,068,809	177	0	7,938,079	0	7,938,079
2001/02	Unlimited	40,000,000	216.0	1,057,079	162	0	12,153,693	0	12,153,693
2002/03	Unlimited	45,000,000	204.0	1,086,728	87	0	5,220,383	0	5,220,383
2003/04	Unlimited	None	192.0	1,199,434	74	0	16,951,620	0	16,951,620
2004/05	Unlimited	25,000,000	180.0	1,189,789	61	3	3,343,636	7,775,000	11,118,636
2005/06	Unlimited	25,000,000	168.0	1,357,723	94	0	4,023,510	0	4,023,510
2006/07	Unlimited	None	156.0	1,243,144	140	3	6,971,160	3,622,000	10,593,160
2007/08	Unlimited	None	144.0	1,207,801	78	0	1,287,951	0	1,287,951
2008/09	Unlimited	None	132.0	1,303,812	87	2	1,983,037	5,618,155	7,601,192
2009/10	Unlimited	None	120.0	1,287,986	97	1	1,711,869	125,000	1,836,869
2010/11	Unlimited	None	108.0	1,293,078	84	5	1,958,703	649,601	2,608,304
2011/12	Unlimited	None	96.0	1,331,769	53	4	2,729,791	2,026,000	4,755,791
2012/13	Unlimited	None	84.0	1,285,791	68	10	1,199,043	1,360,000	2,559,043
2013/14	Unlimited	None	72.0	1,362,902	55	10	951,531	12,567,000	13,518,531
2014/15	Unlimited	None	60.0	1,509,150	62	18	1,032,332	26,243,001	27,275,333
2015/16	Unlimited	None	48.0	1,699,156	62	32	388,129	11,422,000	11,810,129
2016/17	Unlimited	None	36.0	1,753,287	57	43	80,750	8,493,000	8,573,750
2017/18	Unlimited	None	24.0	1,675,248	32	28	4,275,600	4,638,000	8,913,600
2018/19	Unlimited	None	12.0	Not Provided	31	28	5,525	2,033,500	2,039,025
Total					2,977	187	\$162,381,717	\$86,572,257	\$248,953,974

(8), (9) and (10) are gross of the specific self-insured retention and net of other recoveries.

Data was provided by the County.

Data Summary as of November 30, 2019
Gross Unlimited Losses

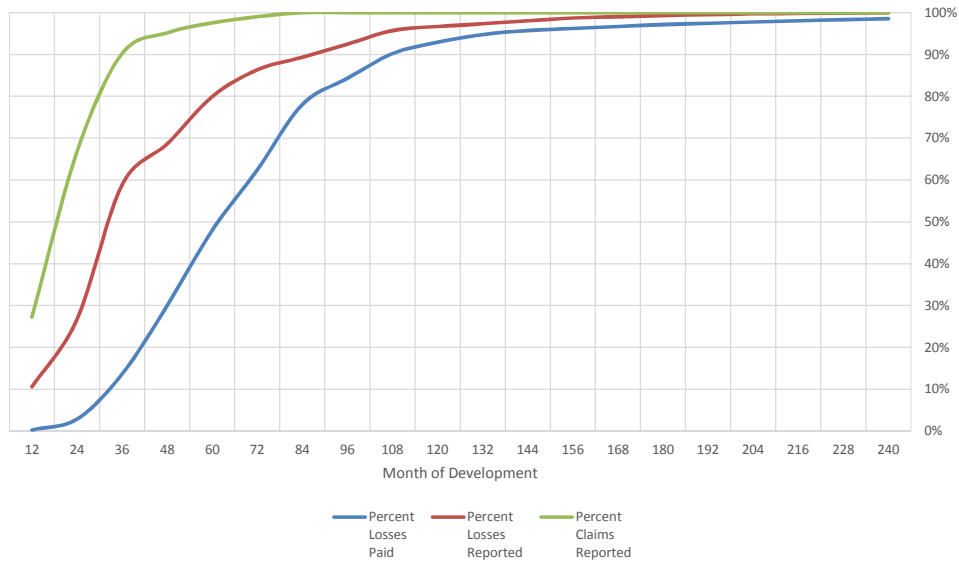
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/19 (4)	Revenue (000) (5)	Reported Claims 11/30/19 (6)	Open Claims 11/30/19 (7)	Gross Unlimited Paid Losses 11/30/19 (8)	Gross Unlimited Case Reserves 11/30/19 (9)	Gross Unlimited Reported Incurred Losses 11/30/19 (10)
to 1999/00	Unlimited	None	240.0	Not Provided	1,416	0	\$88,175,376	\$0	\$88,175,376
2000/01	Unlimited	40,000,000	228.0	1,068,809	177	0	7,938,079	0	7,938,079
2001/02	Unlimited	40,000,000	216.0	1,057,079	162	0	12,153,693	0	12,153,693
2002/03	Unlimited	45,000,000	204.0	1,086,728	87	0	5,220,383	0	5,220,383
2003/04	Unlimited	None	192.0	1,199,434	74	0	16,951,620	0	16,951,620
2004/05	Unlimited	25,000,000	180.0	1,189,789	61	3	3,343,636	7,775,000	11,118,636
2005/06	Unlimited	25,000,000	168.0	1,357,723	94	0	4,023,510	0	4,023,510
2006/07	Unlimited	None	156.0	1,243,144	140	3	6,971,160	3,622,000	10,593,160
2007/08	Unlimited	None	144.0	1,207,801	78	0	1,287,951	0	1,287,951
2008/09	Unlimited	None	132.0	1,303,812	87	2	1,983,037	5,618,155	7,601,192
2009/10	Unlimited	None	120.0	1,287,986	97	1	1,711,869	125,000	1,836,869
2010/11	Unlimited	None	108.0	1,293,078	84	5	1,958,703	649,601	2,608,304
2011/12	Unlimited	None	96.0	1,331,769	53	4	2,729,791	2,026,000	4,755,791
2012/13	Unlimited	None	84.0	1,285,791	68	10	1,199,043	1,360,000	2,559,043
2013/14	Unlimited	None	72.0	1,362,902	55	10	951,531	12,567,000	13,518,531
2014/15	Unlimited	None	60.0	1,509,150	62	18	1,032,332	26,273,000	27,275,333
2015/16	Unlimited	None	48.0	1,699,156	62	32	388,129	11,422,000	11,810,129
2016/17	Unlimited	None	36.0	1,753,287	57	43	80,750	8,493,000	8,573,750
2017/18	Unlimited	None	24.0	1,675,248	32	28	4,275,600	4,638,000	8,913,600
2018/19	Unlimited	None	12.0	Not Provided	31	28	5,525	2,033,500	2,039,025
Total					2,977	187	\$162,381,717	\$86,602,256	\$248,953,974

(8), (9) and (10) are gross of the specific self-insured retention and other recoveries.

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	99.9%	100.0%	100.0%
336.0	99.9%	100.0%	100.0%
324.0	99.9%	100.0%	100.0%
312.0	99.8%	100.0%	100.0%
300.0	99.8%	100.0%	100.0%
288.0	99.6%	100.0%	100.0%
276.0	99.5%	100.0%	100.0%
264.0	99.3%	100.0%	100.0%
252.0	99.0%	100.0%	100.0%
240.0	98.5%	100.0%	100.0%
228.0	98.3%	99.9%	100.0%
216.0	98.0%	99.8%	100.0%
204.0	97.7%	99.7%	100.0%
192.0	97.4%	99.5%	100.0%
180.0	97.2%	99.3%	100.0%
168.0	96.7%	99.0%	100.0%
156.0	96.2%	98.7%	100.0%
144.0	95.7%	98.0%	100.0%
132.0	94.8%	97.3%	100.0%
120.0	92.9%	96.7%	100.0%
108.0	90.2%	95.7%	100.0%
96.0	84.3%	92.5%	100.0%
84.0	78.1%	89.3%	100.0%
72.0	62.4%	86.3%	99.0%
60.0	48.0%	79.9%	97.5%
48.0	30.0%	68.6%	95.2%
36.0	13.6%	58.9%	90.2%
24.0	2.9%	26.8%	66.8%
12.0	0.3%	10.6%	27.3%



(2) is from Exhibit OL-2 (page 2).

(3) is from Exhibit OL-2 (page 3).

(4) is from Exhibit OL-2 (page 4).

Historical Limited Paid Losses (\$000) and Limited Paid Loss Development

I. Historical Limited Paid Losses (\$000)

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																				\$89,872	\$89,872
2000/01	0	33	4,341	5,141	5,204	5,525	6,038	6,238	6,253	6,260	6,260	7,263	7,263	7,263	7,263	7,263	7,938	7,938	7,938		
2001/02	3	45	591	1,625	3,312	6,371	8,999	8,999	9,004	11,759	12,391	12,391	12,616	12,616	12,616	12,154	12,154	12,154			
2002/03	11	79	182	499	795	6,020	6,039	5,734	5,869	5,974	6,079	6,184	6,184	6,184	6,245	6,245	6,245				
2003/04	22	69	389	1,694	8,745	9,335	16,123	61,060	65,548	65,563	65,563	65,613	65,613	68,326	68,326	68,326					
2004/05	0	86	500	1,742	1,811	2,807	4,281	4,683	4,683	4,683	4,683	4,683	4,715	4,715	4,715						
2005/06	14	168	1,304	2,627	2,692	2,733	3,193	3,193	5,633	5,633	5,798	6,622	6,622	6,622							
2006/07	41	426	1,541	3,739	3,861	4,039	7,459	9,059	9,182	9,272	9,309	9,374	9,375								
2007/08	17	192	637	976	5,549	5,664	6,099	6,791	7,940	8,022	13,585	13,585									
2008/09	76	230	1,012	1,382	2,826	3,689	5,144	5,646	5,853	5,853	6,376										
2009/10	4	237	991	1,904	2,818	3,438	6,958	7,187	7,337	8,314											
2010/11	53	250	1,333	1,712	2,379	2,929	8,888	9,132	33,102												
2011/12	100	1,229	1,990	2,596	3,605	5,694	5,888	6,059													
2012/13	31	246	1,161	2,488	4,235	8,491	10,738														
2013/14	22	241	1,705	8,283	9,514	10,214															
2014/15	165	516	1,554	2,517	3,880																
2015/16	204	659	1,576	3,977																	
2016/17	3,302	3,702	4,683																		
2017/18	4,288	5,094																			
2018/19	16																				

II. Limited Paid Loss Development

Claim Period	Months of Development:																				
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult	
to 1999/00																				1.000	
2000/01		130.360	1.184	1.012	1.062	1.093	1.033	1.002	1.001	1.000	1.160	1.000	1.000	1.000	1.000	1.093	1.000	1.000			
2001/02	17.980	13.154	2.748	2.038	1.923	1.412	1.000	1.001	1.306	1.054	1.000	1.018	1.000	1.000	0.963	1.000	1.000				
2002/03	7.223	2.295	2.735	1.596	7.568	1.003	0.950	1.024	1.018	1.018	1.017	1.000	1.000	1.010	1.000						
2003/04	3.094	5.617	4.351	5.164	1.067	1.727	3.787	1.074	1.000	1.000	1.001	1.000	1.041	1.000	1.000						
2004/05		5.823	3.485	1.039	1.550	1.525	1.094	1.000	1.000	1.000	1.007	1.000	1.000	1.000							
2005/06	11.769	7.750	2.014	1.025	1.015	1.168	1.000	1.764	1.000	1.029	1.142	1.000	1.000								
2006/07	10.334	3.614	2.427	1.033	1.046	1.846	1.215	1.014	1.010	1.004	1.007	1.000									
2007/08	11.576	3.323	1.533	5.684	1.021	1.077	1.113	1.169	1.010	1.693	1.000										
2008/09	3.035	4.397	1.365	2.045	1.305	1.395	1.097	1.037	1.000	1.089											
2009/10	67.791	4.175	1.922	1.480	1.220	2.024	1.033	1.021	1.133												
2010/11	4.730	5.324	1.285	1.389	1.232	3.034	1.027	3.625													
2011/12	12.286	1.620	1.304	1.389	1.579	1.034	1.029														
2012/13	8.075	4.712	2.144	1.702	2.005	1.265															
2013/14	10.827	7.068	4.858	1.149	1.074																
2014/15	3.132	3.010	1.619	1.542																	
2015/16	3.230	2.390	2.524																		
2016/17	1.121	1.265																			
2017/18	1.188																				
2018/19																					
Average																					
All	11.087	12.112	2.344	1.952	1.762	1.508	1.282	1.339	1.048	1.099	1.041	1.004	1.007	1.002	0.991	1.031	1.000	1.000	1.000		
Wtd 3	1.213	1.602	3.056	1.327	1.406	1.491	1.030	2.108	1.050	1.265	1.031	1.002	1.035	1.001	0.995	1.026					
Last 3	1.846	2.222	3.000	1.464	1.553	1.778	1.030	1.894	1.048	1.262	1.050	1.002	1.014	1.003	0.988	1.031					
Last 5	2.517	3.371	2.096	1.440	1.344	1.561	1.053	1.076	1.007	1.041	1.003	1.000	1.000	1.000							
x-hi,low																					
Previous	10.500	4.750	2.200	1.600	1.300	1.250	1.080	1.070	1.030	1.020	1.010	1.005	1.005	1.005	1.003	1.003	1.003	1.003	1.002	1.015	
Selected	10.500	4.750	2.200	1.600	1.300	1.250	1.080	1.070	1.030	1.020	1.010	1.005	1.005	1.005	1.003	1.003	1.003	1.003	1.002	1.015	
Cumulative	365.495	34.809	7.328	3.331	2.082	1.601	1.281	1.186	1.109	1.076	1.055	1.045	1.040	1.034	1.029	1.026	1.023	1.020	1.017	1.015	
Percent	0.3%	2.9%	13.6%	30.0%	48.0%	62.4%	78.1%	84.3%	90.2%	92.9%	94.8%	95.7%	96.2%	96.7%	97.2%	97.4%	97.7%	98.0%	98.3%	98.5%	

Data includes E&O, EPL, law enforcement liability, other liability and public officials liability.

Amounts are limited (net of excess insurance).

Data was provided by the County.

Historical Limited Reported Incurred Losses (\$000) and Limited Reported Incurred Loss Development

I. Historical Limited Reported Incurred Losses (\$000)

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																				\$91,872	\$103,372
2000/01	3,684	3,812	9,452	12,006	8,360	8,697	8,743	8,143	6,623	6,360	7,260	7,268	7,264	7,263	7,363	7,363	8,038	8,438	9,438		
2001/02	1,519	2,478	3,930	6,086	9,957	19,611	19,327	14,124	13,434	11,889	12,491	12,741	15,726	12,626	12,626	12,164	12,154	12,154			
2002/03	1,043	2,841	4,744	5,223	11,305	8,930	7,654	6,254	6,284	6,184	6,184	6,184	6,184	6,184	6,245	6,245	6,245				
2003/04	2,287	5,765	18,120	40,102	43,979	64,408	62,263	68,738	65,578	66,003	65,614	66,113	65,618	68,333	68,326	68,326					
2004/05	2,102	4,813	11,214	8,406	8,236	7,377	8,101	12,858	19,843	20,433	15,733	15,733	17,270	14,866	12,490						
2005/06	3,747	7,296	5,992	4,427	3,683	3,521	7,393	5,843	6,329	6,228	6,338	6,812	7,673	8,122							
2006/07	1,767	4,668	4,439	6,087	7,935	9,400	8,815	11,745	9,407	9,447	10,024	9,447	12,997								
2007/08	1,928	3,878	8,916	10,754	14,495	13,775	12,474	10,619	12,995	13,627	13,615	14,585									
2008/09	1,931	2,115	3,581	4,335	4,391	5,435	5,397	6,006	7,303	6,753	11,994										
2009/10	972	3,567	6,505	4,332	8,101	19,458	7,589	7,903	7,538	8,440											
2010/11	471	2,406	4,757	5,093	19,422	14,285	20,727	30,106	33,851												
2011/12	4,276	6,052	15,539	7,564	6,747	8,478	9,065	8,088													
2012/13	1,364	3,956	17,420	11,910	13,338	12,892	13,068														
2013/14	4,235	13,094	13,326	12,117	20,649	36,286															
2014/15	753	3,635	24,266	23,922	27,016																
2015/16	1,148	4,038	19,075	25,224																	
2016/17	9,908	16,275	26,500																		
2017/18	7,359	17,154																			
2018/19	4,253																				

II. Limited Reported Incurred Loss Development

Claim Period	Months of Development:																				
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult	
to 1999/00																				1.125	
2000/01	1.035	2.480	1.270	0.696	1.040	1.005	0.931	0.813	0.960	1.142	1.001	0.999	1.000	1.014	1.000	1.092	1.050	1.119			
2001/02	1.631	1.586	1.549	1.636	1.970	0.985	0.731	0.951	0.885	1.051	1.020	1.234	0.803	1.000	0.963	0.999	1.000				
2002/03	2.725	1.670	1.101	2.165	0.790	0.857	0.817	1.005	0.984	1.000	1.000	1.000	1.000	1.010	1.000	1.000					
2003/04	2.520	3.143	2.213	1.097	1.465	0.967	1.104	0.954	1.006	0.994	1.008	0.993	1.041	1.000	1.000						
2004/05	2.289	2.330	0.750	0.980	0.896	1.098	1.587	1.543	1.030	0.770	1.000	1.098	0.861	0.840							
2005/06	1.947	0.821	0.739	0.832	0.956	2.100	0.790	1.083	0.984	1.018	1.075	1.126	1.059								
2006/07	2.642	0.951	1.371	1.304	1.185	0.938	1.332	0.801	1.004	1.061	0.980	1.322									
2007/08	2.012	2.299	1.206	1.348	0.950	0.906	0.851	1.224	1.049	0.999	1.071										
2008/09	1.096	1.693	1.211	1.013	1.238	0.993	1.113	1.216	0.925	1.776											
2009/10	3.671	1.824	0.666	1.870	2.402	0.390	1.041	0.954	1.120												
2010/11	5.103	1.977	1.071	3.813	0.736	1.451	1.453	1.124													
2011/12	1.415	2.568	0.487	0.892	1.257	1.069	0.892														
2012/13	2.901	4.404	0.684	1.120	0.967	1.014															
2013/14	3.092	1.018	0.909	1.704	1.757																
2014/15	4.830	6.676	0.986	1.129																	
2015/16	3.517	4.724	1.322																		
2016/17	1.643	1.628																			
2017/18	2.331																				
2018/19																					
Average																					
All	2.578	2.458	1.096	1.440	1.258	1.059	1.054	1.061	0.995	1.090	1.019	1.110	0.961	0.973	0.991	1.030	1.025	1.119	1.125		
Wtd 3	2.035	2.916	1.081	1.272	1.415	1.202	1.233	1.106	1.035	1.195	1.042	1.172	1.008	0.974	0.995	1.026					
Last 3	2.497	4.343	1.072	1.318	1.327	1.178	1.129	1.098	1.031	1.279	1.042	1.182	0.987	0.950	0.988	1.030					
Last 5	2.980	3.585	0.860	1.318	1.327	1.025	1.015	1.098	1.012	1.026	1.026	1.075	0.967	1.003							
x-hi,low																					
Previous	2.525	2.200	1.165	1.165	1.080	1.035	1.035	1.035	1.010	1.007	1.007	1.007	1.003	1.003	1.002	1.002	1.001	1.001	1.001	1.005	
Selected	2.525	2.200	1.165	1.165	1.080	1.035	1.035	1.035	1.010	1.007	1.007	1.007	1.003	1.003	1.002	1.002	1.001	1.001	1.001	1.000	
Cumulative	9.433	3.736	1.698	1.458	1.251	1.158	1.119	1.081	1.045	1.034	1.027	1.020	1.013	1.010	1.007	1.005	1.003	1.002	1.001	1.000	
Percent	10.6%	26.8%	58.9%	68.6%	79.9%	86.3%	89.3%	92.5%	95.7%	96.7%	97.3%	98.0%	98.7%	99.0%	99.3%	99.5%	99.7%	99.8%	99.9%	100.0%	

Data includes E&O, EPL, law enforcement liability, other liability and public officials liability.

Amounts are limited (net of excess insurance).

Data was provided by the County.

Historical Reported Claims and Reported Claim Development

I. Historical Reported Claims

Claim Period	Months of Development:																			
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
to 1999/00																				1,516
2000/01																				
2001/02																178	178	179	180	
2002/03															163	163	163	163		
2003/04															184	184	184	184		
2004/05														178	179	179	179			
2005/06													159	161	163	164				
2006/07													229	230	231	232				
2007/08													323	323	323	323				
2008/09													268	269	269	270				
2009/10													323	326	327	329				
2010/11													285	289	292	294				
2011/12													323	325	325	325				
2012/13													413	420	421	422				
2013/14													484	500	507	511				
2014/15													623	659	672	679				
2015/16													304	415	436	448				
2016/17													107	280	384	405				
2017/18													114	266	345					
2018/19													94	237						
													89							

II. Reported Claim Development

Claim Period	Months of Development:																			
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult
to 1999/00																				
2000/01																				
2001/02																				
2002/03																				
2003/04																				
2004/05																				
2005/06																				
2006/07																				
2007/08																				
2008/09																				
2009/10																				
2010/11																				
2011/12																				
2012/13																				
2013/14																				
2014/15																				
2015/16																				
2016/17																				
2017/18																				
2018/19																				
Average																				
All	2.490	1.345	1.054	1.027	1.014	1.008	1.006	1.005	1.002	1.002	1.003	1.006	1.007	1.002	1.000	1.000	1.003	1.006		
Wtd 3	2.486	1.346	1.055	1.026	1.013	1.007	1.006	1.005	1.002	1.002	1.002	1.004	1.007	1.002	1.000	1.000	1.000	1.000		
Last 3	2.490	1.345	1.054	1.027	1.014	1.008	1.006	1.005	1.002	1.002	1.003	1.006	1.007	1.002	1.000	1.000	1.000	1.000		
Last 5																				
x-hi,low																				
Previous	2.400	1.370	1.050	1.020	1.015	1.010	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
Selected	2.450	1.350	1.055	1.025	1.015	1.010	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
Cumulative	3.667	1.497	1.109	1.051	1.025	1.010	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
Percent	27.3%	66.8%	90.2%	95.2%	97.5%	99.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Data includes E&O, EPL, law enforcement liability, other liability and public officials liability.

Data was provided by the County.

Historical Ratio of Limited Paid Losses and Limited Reported Incurred Losses

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1999/00																				97.8%	86.9%
2000/01	0.0%	0.9%	45.9%	42.8%	62.3%	63.5%	69.1%	76.6%	94.4%	98.4%	86.2%	99.9%	100.0%	100.0%	98.6%	98.6%	98.8%	94.1%	84.1%		
2001/02	0.2%	1.8%	15.0%	26.7%	33.3%	32.5%	46.6%	63.7%	67.0%	98.9%	99.2%	97.3%	80.2%	99.9%	99.9%	99.9%	100.0%	100.0%	100.0%		
2002/03	1.1%	2.8%	3.8%	9.5%	7.0%	67.4%	78.9%	91.7%	93.4%	96.6%	98.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%			
2003/04	1.0%	1.2%	2.1%	4.2%	19.9%	14.5%	25.9%	88.8%	100.0%	99.3%	99.9%	99.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%			
2004/05	0.0%	1.8%	4.5%	20.7%	22.0%	38.0%	52.8%	36.4%	23.6%	22.9%	29.8%	29.8%	27.3%	31.7%	37.7%						
2005/06	0.4%	2.3%	21.8%	59.3%	73.1%	77.6%	43.2%	54.6%	89.0%	90.4%	91.5%	97.2%	86.3%	81.5%							
2006/07	2.3%	9.1%	34.7%	61.4%	48.7%	43.0%	84.6%	77.1%	97.6%	98.1%	92.9%	95.4%	72.1%								
2007/08	0.9%	4.9%	7.1%	9.1%	38.3%	41.1%	48.9%	64.0%	61.1%	58.9%	99.8%	93.1%									
2008/09	3.9%	10.9%	28.3%	31.9%	64.4%	67.9%	95.3%	94.0%	80.1%	86.7%	53.2%										
2009/10	0.4%	6.7%	15.2%	44.0%	34.8%	17.7%	91.7%	90.9%	97.3%	98.5%											
2010/11	11.2%	10.4%	28.0%	33.6%	12.2%	20.5%	42.9%	30.3%													
2011/12	2.3%	20.3%	12.8%	34.3%	53.4%	67.2%	65.0%	74.9%													
2012/13	2.2%	6.2%	6.7%	20.9%	31.7%	65.9%	82.2%														
2013/14	0.5%	1.8%	12.8%	68.4%	46.1%	28.1%															
2014/15	21.9%	14.2%	6.4%	10.5%	14.4%																
2015/16	17.8%	16.3%	8.3%	15.8%																	
2016/17	33.3%	22.7%	17.7%																		
2017/18	58.3%	29.7%																			
2018/19	0.4%																				
Average																					
All	8.3%	9.1%	16.0%	30.8%	37.4%	46.1%	63.6%	70.3%	81.9%	84.9%	83.4%	89.0%	80.8%	85.5%	87.3%	99.6%	99.6%	97.0%	91.0%	86.9%	
Last 3	30.7%	22.9%	10.8%	31.5%	30.7%	53.7%	63.3%	65.4%	91.8%	81.3%	81.9%	95.2%	61.9%	71.1%	79.2%	100.0%	99.6%				
Last 5	24.3%	17.8%	9.2%	23.7%	30.7%	38.2%	79.6%	76.6%	91.7%	91.8%	79.2%	95.2%	86.1%	93.8%	99.5%						
x-hi,low																					
Implicit	2.6%	10.7%	23.2%	43.8%	60.1%	72.3%	87.4%	91.2%	94.2%	96.1%	97.4%	97.6%	97.4%	97.6%	97.8%	97.9%	98.0%	98.2%	98.4%	98.5%	
Prior	2.6%	10.8%	23.3%	44.0%	60.4%	72.7%	87.8%	91.6%	94.7%	96.6%	97.8%	98.1%	97.9%	98.1%	98.3%	98.4%	98.5%	98.7%	98.9%	98.9%	99.0%

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Paid Losses 11/30/19 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1999/00	240.0	\$88,175,376	98.5%	\$89,498,007
2000/01	228.0	7,938,079	98.3%	8,073,264
2001/02	216.0	12,153,693	98.0%	12,397,752
2002/03	204.0	5,220,383	97.7%	5,341,190
2003/04	192.0	16,951,620	97.4%	17,395,934
2004/05	180.0	3,343,636	97.2%	3,441,569
2005/06	168.0	4,023,510	96.7%	4,162,062
2006/07	156.0	6,971,160	96.2%	7,247,274
2007/08	144.0	1,287,951	95.7%	1,345,659
2008/09	132.0	1,983,037	94.8%	2,092,608
2009/10	120.0	1,711,869	92.9%	1,842,586
2010/11	108.0	1,958,703	90.2%	2,171,516
2011/12	96.0	2,729,791	84.3%	3,238,229
2012/13	84.0	1,199,043	78.1%	1,536,161
2013/14	72.0	951,531	62.4%	1,523,824
2014/15	60.0	1,032,332	48.0%	2,149,189
2015/16	48.0	388,129	30.0%	1,292,859
2016/17	36.0	80,750	13.6%	591,753
2017/18	24.0	4,275,600	2.9%	15,000,000 *
2018/19	12.0	5,525	0.3%	2,019,357
Total		\$162,381,717		\$182,360,795

* - Indicates large claim(s) limited to retention. For details, see Exhibit OL-15.

(3) is from Exhibit OL-1.

(4) is from Exhibit OL-2.

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/19 (2)	Limited Reported Incurred Losses 11/30/19 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1999/00	240.0	\$88,175,376	100.0%	\$88,175,376
2000/01	228.0	7,938,079	99.9%	7,946,017
2001/02	216.0	12,153,693	99.8%	12,178,013
2002/03	204.0	5,220,383	99.7%	5,236,060
2003/04	192.0	16,951,620	99.5%	17,036,530
2004/05	180.0	11,118,636	99.3%	11,144,035 *
2005/06	168.0	4,023,510	99.0%	4,063,906
2006/07	156.0	10,593,160	98.7%	10,731,615
2007/08	144.0	1,287,951	98.0%	1,313,918
2008/09	132.0	7,601,192	97.3%	7,808,726
2009/10	120.0	1,836,869	96.7%	1,900,230
2010/11	108.0	2,608,304	95.7%	2,725,257
2011/12	96.0	4,755,791	92.5%	5,142,951
2012/13	84.0	2,559,043	89.3%	2,864,228
2013/14	72.0	13,518,531	86.3%	14,075,977 *
2014/15	60.0	17,275,333	79.9%	17,846,682 *
2015/16	48.0	11,810,129	68.6%	14,926,025 *
2016/17	36.0	8,573,750	58.9%	14,558,506
2017/18	24.0	8,913,600	26.8%	32,326,044 *
2018/19	12.0	2,039,025	10.6%	19,233,246
Total		\$238,953,974		\$291,233,344

* - Indicates large claim(s) limited to retention. For details, see Exhibit OL-15.

(3) is from Exhibit OL-1.

(4) is from Exhibit OL-2.

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/19 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/19 (6)	Limited Case Reserves 11/30/19 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1999/00	240.0	98.5%	100.0%	100.0%	\$88,175,376	\$0	\$88,175,376
2000/01	228.0	98.3%	99.9%	94.0%	7,938,079	0	7,938,079
2001/02	216.0	98.0%	99.8%	89.9%	12,153,693	0	12,153,693
2002/03	204.0	97.7%	99.7%	86.8%	5,220,383	0	5,220,383
2003/04	192.0	97.4%	99.5%	80.5%	16,951,620	0	16,951,620
2004/05	180.0	97.2%	99.3%	75.5%	3,343,636	7,775,000	11,207,847 *
2005/06	168.0	96.7%	99.0%	70.1%	4,023,510	0	4,023,510
2006/07	156.0	96.2%	98.7%	66.1%	6,971,160	3,622,000	12,447,696
2007/08	144.0	95.7%	98.0%	53.9%	1,287,951	0	1,287,951
2008/09	132.0	94.8%	97.3%	49.2%	1,983,037	5,618,155	12,795,346 *
2009/10	120.0	92.9%	96.7%	53.0%	1,711,869	125,000	1,947,724
2010/11	108.0	90.2%	95.7%	56.2%	1,958,703	649,601	3,114,361
2011/12	96.0	84.3%	92.5%	52.1%	2,729,791	2,026,000	6,621,866
2012/13	84.0	78.1%	89.3%	51.4%	1,199,043	1,360,000	3,842,509
2013/14	72.0	62.4%	86.3%	63.6%	951,531	12,567,000	14,988,684 *
2014/15	60.0	48.0%	79.9%	61.4%	1,032,332	16,243,001	18,076,381 *
2015/16	48.0	30.0%	68.6%	55.1%	388,129	11,422,000	17,034,420 *
2016/17	36.0	13.6%	58.9%	52.4%	80,750	8,493,000	16,290,111
2017/18	24.0	2.9%	26.8%	24.6%	4,275,600	4,638,000	23,127,015
2018/19	12.0	0.3%	10.6%	10.4%	5,525	2,033,500	19,640,921
Total					\$162,381,717	\$76,572,257	\$296,885,492

* - Indicates large claim(s) limited to retention. For details, see Exhibit OL-15.

(3) and (4) are from Exhibit OL-2.

(6) and (7) are from Exhibit OL-1.

Preliminary Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	Preliminary Projected Ultimate Limited Losses (5)
0 to 1999/00	\$89,498,007	\$88,175,376	\$88,175,376	\$88,175,376
0 2000/01	8,073,264	7,946,017	7,938,079	7,938,079
0 2001/02	12,397,752	12,178,013	12,153,693	12,153,693
0 2002/03	5,341,190	5,236,060	5,220,383	5,220,383
0 2003/04	17,395,934	17,036,530	16,951,620	16,951,620
3 2004/05	3,441,569	11,144,035	11,207,847	11,207,847
0 2005/06	4,162,062	4,063,906	4,023,510	4,023,510
3 2006/07	7,247,274	10,731,615	12,447,696	12,447,696
0 2007/08	1,345,659	1,313,918	1,287,951	1,287,951
2 2008/09	2,092,608	7,808,726	12,795,346	12,795,346
1 2009/10	1,842,586	1,900,230	1,947,724	1,947,724
5 2010/11	2,171,516	2,725,257	3,114,361	3,114,361
4 2011/12	3,238,229	5,142,951	6,621,866	5,882,409
10 2012/13	1,536,161	2,864,228	3,842,509	3,353,368
10 2013/14	1,523,824	14,075,977	14,988,684	14,532,331
18 2014/15	2,149,189	17,846,682	18,076,381	17,961,532
32 2015/16	1,292,859	14,926,025	17,034,420	15,980,222
43 2016/17	591,753	14,558,506	16,290,111	16,290,111
28 2017/18	15,000,000	32,326,044	23,127,015	23,127,015
28 2018/19	2,019,357	19,233,246	19,640,921	19,640,921
Total	\$182,360,795	\$291,233,344	\$296,885,492	\$294,031,495

(2) is from Exhibit OL-3.

(3) is from Exhibit OL-4.

(4) is from Exhibit OL-5.

(5) is based on (2) to (4) and actuarial judgment.

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Revenue (000) (3)	Limited Loss Rate per \$1,000 of Revenue (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per \$1,000 of Revenue (4)X(5) (6)	Projected A-priori Loss Rate per \$1,000 of Revenue (7)/(5) (8)
2009/10	\$1,947,724	\$1,287,986	\$1.51	1.480	\$2.24	\$7.26
2010/11	3,114,361	1,293,078	2.41	1.423	3.43	7.56
2011/12	5,882,409	1,331,769	4.42	1.369	6.04	7.86
2012/13	3,353,368	1,285,791	2.61	1.316	3.43	8.17
2013/14	14,532,331	1,362,902	10.66	1.265	13.49	8.50
2014/15	17,961,532	1,509,150	11.90	1.217	14.48	8.84
2015/16	15,980,222	1,699,156	9.40	1.170	11.00	9.19
2016/17	16,290,111	1,753,287	9.29	1.125	10.45	9.56
2017/18	23,127,015	1,675,248	13.81	1.082	14.93	9.94
2018/19	19,640,921	1,675,248	11.72	1.040	12.19	10.34

(7) Projected 2019/20 a-priori loss rate per \$1,000 of Revenue \$10.75

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Percent Losses Paid (3)	Projected A-priori Loss Rate per \$1,000 of Revenue (4)	Revenue (000) (5)	B-F Unpaid Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Paid Losses (2)+(6) (7)
2014/15	\$1,032,332	48.0%	\$8.84	\$1,509,150	\$6,931,638	\$7,963,969
2015/16	388,129	30.0%	9.19	1,699,156	10,929,868	11,317,997
2016/17	80,750	13.6%	9.56	1,753,287	14,473,814	14,554,564
2017/18	4,275,600	2.9%	9.94	1,675,248	16,177,082	20,452,682
2018/19	5,525	0.3%	10.34	1,675,248	17,274,397	17,279,922

III. Bornhuetter - Ferguson Analysis Based on Limited Reported Incurred Losses

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Percent Losses Reported (3)	Projected A-priori Loss Rate per \$1,000 of Revenue (4)	Revenue (000) (5)	B-F Unreported Losses [100.0%-(3)] X(4)X(5) (6)	B-F Ultimate Limited Reported Losses (2)+(6) (7)
2014/15	\$17,275,333	79.9%	\$8.84	\$1,509,150	\$2,677,169	\$19,952,502
2015/16	11,810,129	68.6%	9.19	1,699,156	4,902,918	16,713,047
2016/17	8,573,750	58.9%	9.56	1,753,287	6,890,165	15,463,915
2017/18	8,913,600	26.8%	9.94	1,675,248	12,197,046	21,110,646
2018/19	2,039,025	10.6%	10.34	1,675,248	15,485,409	17,524,434

Section I, (2) is from Exhibit OL-6.

Section I, (3), Section II, (5) and Section III, (5) are from Exhibit OL-10.

Section I, (5) is based on a 4% trend.

Section I, (7) is based on Section I, (6) and actuarial judgment.

Sections II and III, (2) are from Exhibit OL-1.

Sections II and III, (3) are from Exhibit OL-2.

Sections II and III, (4) are from Section I, (8).

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/19 (2)	Reported Claims 11/30/19 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Revenue (000) (6)	Frequency (per \$1M of Revenue) (5)/(6)X1,000 (7)
2009/10	120.0	97	100.0%	97	\$1,287,986	0.08
2010/11	108.0	84	100.0%	84	1,293,078	0.06
2011/12	96.0	53	100.0%	53	1,331,769	0.04
2012/13	84.0	68	100.0%	68	1,285,791	0.05
2013/14	72.0	55	99.0%	56	1,362,902	0.04
2014/15	60.0	62	97.5%	64	1,509,150	0.04
2015/16	48.0	62	95.2%	65	1,699,156	0.04
2016/17	36.0	57	90.2%	63	1,753,287	0.04
2017/18	24.0	32	66.8%	48	1,675,248	0.03
2018/19	12.0	31	27.3%	114	1,675,248	0.07

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2019/20 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2019/20 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2009/10	\$1,947,724	97	\$20,080	1.480	\$29,723	\$182,856	\$17,737,079
2010/11	3,114,361	84	37,076	1.423	52,770	190,171	15,974,342
2011/12	5,882,409	53	110,989	1.369	151,896	197,778	10,482,211
2012/13	3,353,368	68	49,314	1.316	64,894	205,689	13,986,830
2013/14	14,532,331	56	259,506	1.265	328,358	213,916	11,979,309
2014/15	17,961,532	64	280,649	1.217	341,452	222,473	14,238,264
2015/16	15,980,222	65	245,850	1.170	287,609	231,372	15,039,166
2016/17	16,290,111	63	258,573	1.125	290,860	240,627	15,159,480
2017/18	23,127,015	48	481,813	1.082	521,129	250,252	12,012,083
2018/19	19,640,921	114	172,289	1.040	179,180	260,262	29,669,845
						(7) Projected 2019/20 average claim severity	\$270,672

Section I, (3) is from Exhibit OL-1.

Section I, (4) is from Exhibit OL-2.

Section I, (6) is from Exhibit OL-10.

Section II, (2) is from Exhibit OL-6.

Section II, (3) is from Section I, (5).

Section II, (5) is based on a 4% trend.

Section II, (7) is based on (6) and actuarial judgment.

Projected Ultimate Limited Losses to 2018/19

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	B-F Ultimate Limited Paid Losses (5)	B-F Ultimate Limited Reported Losses (6)	Frequency Times Severity (7)	Prior Projected Ultimate Limited Losses (8)	Projected Ultimate Limited Losses (9)
to 1999/00	\$89,498,007	\$88,175,376	\$88,175,376					\$88,175,376
2000/01	8,073,264	7,946,017	7,938,079					7,985,000
2001/02	12,397,752	12,178,013	12,153,693					12,153,693
2002/03	5,341,190	5,236,060	5,220,383					5,220,383
2003/04	17,395,934	17,036,530	16,951,620					16,951,620
2004/05	3,441,569	11,144,035	11,207,847					11,208,000
2005/06	4,162,062	4,063,906	4,023,510					4,023,510
2006/07	7,247,274	10,731,615	12,447,696					10,732,000
2007/08	1,345,659	1,313,918	1,287,951					1,287,951
2008/09	2,092,608	7,808,726	12,795,346					8,000,000
2009/10	1,842,586	1,900,230	1,947,724					1,948,000
2010/11	2,171,516	2,725,257	3,114,361					3,200,000
2011/12	3,238,229	5,142,951	6,621,866					5,882,000
2012/13	1,536,161	2,864,228	3,842,509					3,353,000
2013/14	1,523,824	14,075,977	14,988,684					15,000,000
2014/15	2,149,189	17,846,682	18,076,381	7,963,969	19,952,502	14,238,264		19,500,000
2015/16	1,292,859	14,926,025	17,034,420	11,317,997	16,713,047	15,039,166		14,400,000
2016/17	591,753	14,558,506	16,290,111	14,554,564	15,463,915	15,159,480		14,600,000
2017/18	15,000,000	32,326,044	23,127,015	20,452,682	21,110,646	12,012,083		20,000,000
2018/19	2,019,357	19,233,246	19,640,921	17,279,922	17,524,434	29,669,845		17,500,000
Total	\$182,360,795	\$291,233,344	\$296,885,492					\$281,120,533
2014/15 - 2018/19	21,053,158	98,890,503	94,168,847	71,569,135	90,764,544	86,118,837		86,000,000
to 2013/14	161,307,637	192,342,841	202,716,646					195,120,533
						Change		
						All years		\$281,120,533
						2014/15 - 2018/19		86,000,000
						to 2013/14		195,120,533

(2) is from Exhibit OL-3.

(3) is from Exhibit OL-4.

(4) is from Exhibit OL-5.

(5) and (6) are from Exhibit OL-7.

(7) is from Exhibit OL-8.

(8) is based on (2) to (7) and actuarial judgment.

Projected Ultimate Limited Losses for 2019/20 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Revenue (000) (3)	Limited Loss Rate per \$1,000 of Revenue (2)/(3) (4)	Loss Rate Trend (2019/20 = 1.000) (5)	Trended Limited Loss Rate per \$1,000 of Revenue (4)X(5) (6)
2009/10	\$1,948,000	\$1,287,986	\$1.51	1.480	\$2.24
2010/11	3,200,000	1,293,078	2.47	1.423	3.52
2011/12	5,882,000	1,331,769	4.42	1.369	6.04
2012/13	3,353,000	1,285,791	2.61	1.316	3.43
2013/14	15,000,000	1,362,902	11.01	1.265	13.93
2014/15	19,500,000	1,509,150	12.92	1.217	15.72
2015/16	14,400,000	1,699,156	8.47	1.170	9.91
2016/17	14,600,000	1,753,287	8.33	1.125	9.37
2017/18	20,000,000	1,675,248	11.94	1.082	12.91
2018/19	17,500,000	1,675,248	10.45	1.040	10.86
Total	\$115,383,000	\$14,873,615	\$7.76		\$8.79

Claim Period (1)	Projected Limited Loss Rate per \$1,000 of Revenue (7)	Projected Revenue (000) (8)	Projected Ultimate Limited Losses (7)X(8) (9)	Present Value Factor (10)	Present Value of Projected Limited Loss Rate per \$1,000 of Revenue (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11) (12)
2019/20	\$10.07	\$1,675,248	\$16,869,000	0.91	\$9.19	\$15,398,000
2020/21	10.47	1,675,248	17,543,000	0.91	9.56	16,014,000
2021/22	10.89	1,675,248	18,245,000	0.91	9.94	16,655,000

(2) is from Exhibit OL-9.

(3) 2009/10, 2010/11, 2011/12, 2012/13, 2013/14, 2014/15, 2015/16, 2016/17 and 2017/18 were provided by the County. Other periods assume a 0% trend.

(5) is based on a 4% trend.

(7) 2019/20 is based on (6) and actuarial judgment.
Other period(s) based on 2019/20 plus a 4% trend.

(8) is based on (3) for 2018/19 and a 0% trend.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit OL-2.

Estimated Outstanding Losses as of November 30, 2019

Claim Period (1)	Limited Paid Losses 11/30/19 (2)	Limited Case Reserves 11/30/19 (3)	Limited Reported Incurred Losses 11/30/19 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/19 (5)-(4) (6)	Estimated Outstanding Losses 11/30/19 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/19 (7)X(8) (9)
to 1999/00	\$88,175,376	\$0	\$88,175,376	\$88,175,376	\$0	\$0	0.96	\$0
2000/01	7,938,079	0	7,938,079	7,985,000	46,921	46,921	0.95	44,490
2001/02	12,153,693	0	12,153,693	12,153,693	0	0	0.94	0
2002/03	5,220,383	0	5,220,383	5,220,383	0	0	0.94	0
2003/04	16,951,620	0	16,951,620	16,951,620	0	0	0.93	0
2004/05	3,343,636	7,775,000	11,118,636	11,208,000	89,364	7,864,364	0.92	7,251,594
2005/06	4,023,510	0	4,023,510	4,023,510	0	0	0.92	0
2006/07	6,971,160	3,622,000	10,593,160	10,732,000	138,840	3,760,840	0.92	3,445,474
2007/08	1,287,951	0	1,287,951	1,287,951	0	0	0.91	0
2008/09	1,983,037	5,618,155	7,601,192	8,000,000	398,808	6,016,963	0.91	5,502,059
2009/10	1,711,869	125,000	1,836,869	1,948,000	111,131	236,131	0.92	218,199
2010/11	1,958,703	649,601	2,608,304	3,200,000	591,696	1,241,297	0.93	1,157,179
2011/12	2,729,791	2,026,000	4,755,791	5,882,000	1,126,209	3,152,209	0.95	2,980,392
2012/13	1,199,043	1,360,000	2,559,043	3,353,000	793,957	2,153,957	0.95	2,041,996
2013/14	951,531	12,567,000	13,518,531	15,000,000	1,481,469	14,048,469	0.96	13,452,014
2014/15	1,032,332	16,243,001	17,275,333	19,500,000	2,224,668	18,467,669	0.96	17,657,780
2015/16	388,129	11,422,000	11,810,129	14,400,000	2,589,871	14,011,871	0.95	13,369,229
2016/17	80,750	8,493,000	8,573,750	14,600,000	6,026,250	14,519,250	0.95	13,779,832
2017/18	4,275,600	4,638,000	8,913,600	20,000,000	11,086,400	15,724,400	0.94	14,788,322
2018/19	5,525	2,033,500	2,039,025	17,500,000	15,460,975	17,494,475	0.93	16,222,639
Total	\$162,381,717	\$76,572,257	\$238,953,974	\$281,120,533	\$42,166,559	\$118,738,816		\$111,911,199

(2), (3) and (4) are net of specific self-insured retention and aggregate retention.

(5) is from Exhibit OL-9.

(8) is based on a 1.61% interest rate and the payout pattern in Exhibit OL-2.

Projected Losses Paid December 1, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1999/00	240.0	98.5%	252.0	99.0%	10.0% *	\$0	\$0	\$0	0.96	\$0
2000/01	228.0	98.3%	240.0	98.5%	10.0% *	46,921	4,692	42,229	0.96	40,435
2001/02	216.0	98.0%	228.0	98.3%	10.0% *	0	0	0	0.95	0
2002/03	204.0	97.7%	216.0	98.0%	10.0% *	0	0	0	0.94	0
2003/04	192.0	97.4%	204.0	97.7%	10.0% *	0	0	0	0.94	0
2004/05	180.0	97.2%	192.0	97.4%	10.0% *	7,864,364	786,436	7,077,928	0.93	6,574,092
2005/06	168.0	96.7%	180.0	97.2%	10.0% *	0	0	0	0.92	0
2006/07	156.0	96.2%	168.0	96.7%	10.0% *	3,760,840	376,084	3,384,756	0.92	3,113,137
2007/08	144.0	95.7%	156.0	96.2%	10.0% *	0	0	0	0.92	0
2008/09	132.0	94.8%	144.0	95.7%	10.0% *	6,016,963	601,696	5,415,267	0.91	4,937,199
2009/10	120.0	92.9%	132.0	94.8%	10.0% *	236,131	23,613	212,518	0.91	194,332
2010/11	108.0	90.2%	120.0	92.9%	10.0% *	1,241,297	124,130	1,117,167	0.92	1,032,331
2011/12	96.0	84.3%	108.0	90.2%	10.0% *	3,152,209	315,221	2,836,988	0.93	2,644,737
2012/13	84.0	78.1%	96.0	84.3%	10.0% *	2,153,957	215,396	1,938,561	0.95	1,832,896
2013/14	72.0	62.4%	84.0	78.1%	10.0% *	14,048,469	1,404,847	12,643,622	0.95	11,986,417
2014/15	60.0	48.0%	72.0	62.4%	10.0% *	18,467,669	1,846,767	16,620,902	0.96	15,915,230
2015/16	48.0	30.0%	60.0	48.0%	10.0% *	14,011,871	1,401,187	12,610,684	0.96	12,057,650
2016/17	36.0	13.6%	48.0	30.0%	10.0% *	14,519,250	1,451,925	13,067,325	0.95	12,468,004
2017/18	24.0	2.9%	36.0	13.6%	10.0% *	15,724,400	1,572,440	14,151,960	0.95	13,431,247
2018/19	12.0	0.3%	24.0	2.9%	2.6% *	17,494,475	455,967	17,038,508	0.94	16,024,200
2019/20	0.0	0.0%	12.0	0.3%	0.3% *	16,869,000	46,154	16,822,846	0.93	15,599,837
Total						\$135,607,816	\$10,626,555	\$124,981,261		\$117,851,744

* - Limited to a maximum of 10% per actuarial judgment.

(3) and (5) are from Exhibit OL-2.

(7) to 2018/19 is from Exhibit OL-11. The amount for 2019/20 is from Exhibit OL-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit OL-2.

Projected Losses Paid December 1, 2020 to November 30, 2021

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Months of Development 11/30/21 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/20 to 11/30/21 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/20 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/21 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/21 (9)X(10) (11)
to 1999/00	252.0	99.0%	264.0	99.3%	10.0% *	\$0	\$0	\$0	0.96	\$0
2000/01	240.0	98.5%	252.0	99.0%	10.0% *	42,229	4,223	38,006	0.96	36,406
2001/02	228.0	98.3%	240.0	98.5%	10.0% *	0	0	0	0.96	0
2002/03	216.0	98.0%	228.0	98.3%	10.0% *	0	0	0	0.95	0
2003/04	204.0	97.7%	216.0	98.0%	10.0% *	0	0	0	0.94	0
2004/05	192.0	97.4%	204.0	97.7%	10.0% *	7,077,928	707,793	6,370,135	0.94	5,959,043
2005/06	180.0	97.2%	192.0	97.4%	10.0% *	0	0	0	0.93	0
2006/07	168.0	96.7%	180.0	97.2%	10.0% *	3,384,756	338,476	3,046,280	0.92	2,808,922
2007/08	156.0	96.2%	168.0	96.7%	10.0% *	0	0	0	0.92	0
2008/09	144.0	95.7%	156.0	96.2%	10.0% *	5,415,267	541,527	4,873,740	0.92	4,465,051
2009/10	132.0	94.8%	144.0	95.7%	10.0% *	212,518	21,252	191,266	0.91	174,381
2010/11	120.0	92.9%	132.0	94.8%	10.0% *	1,117,167	111,717	1,005,450	0.91	919,408
2011/12	108.0	90.2%	120.0	92.9%	10.0% *	2,836,988	283,699	2,553,289	0.92	2,359,395
2012/13	96.0	84.3%	108.0	90.2%	10.0% *	1,938,561	193,856	1,744,705	0.93	1,626,473
2013/14	84.0	78.1%	96.0	84.3%	10.0% *	12,643,622	1,264,362	11,379,260	0.95	10,759,013
2014/15	72.0	62.4%	84.0	78.1%	10.0% *	16,620,902	1,662,090	14,958,812	0.95	14,181,265
2015/16	60.0	48.0%	72.0	62.4%	10.0% *	12,610,684	1,261,068	11,349,616	0.96	10,867,746
2016/17	48.0	30.0%	60.0	48.0%	10.0% *	13,067,325	1,306,733	11,760,592	0.96	11,244,838
2017/18	36.0	13.6%	48.0	30.0%	10.0% *	14,151,960	1,415,196	12,736,764	0.95	12,152,604
2018/19	24.0	2.9%	36.0	13.6%	10.0% *	17,038,508	1,703,851	15,334,657	0.95	14,553,713
2019/20	12.0	0.3%	24.0	2.9%	2.6% *	16,822,846	438,462	16,384,384	0.94	15,409,017
2020/21	0.0	0.0%	12.0	0.3%	0.3% *	17,543,000	47,998	17,495,002	0.93	16,223,128
Total						\$142,524,261	\$11,302,303	\$131,221,958		\$123,740,403

* - Limited to a maximum of 10% per actuarial judgment.

(3) and (5) are from Exhibit OL-2.

(7) to 2019/20 is from Exhibit OL-12, (9). The amount for 2020/21 is from Exhibit OL-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit OL-2.

Projected Losses Paid December 1, 2021 to November 30, 2022

Claim Period (1)	Months of Development 11/30/21 (2)	Percent Losses Paid (3)	Months of Development 11/30/22 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/21 to 11/30/22 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/21 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/22 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/22 (9)X(10) (11)
to 1999/00	264.0	99.3%	276.0	99.5%	10.0% *	\$0	\$0	\$0	0.96	\$0
2000/01	252.0	99.0%	264.0	99.3%	10.0% *	38,006	3,801	34,205	0.96	32,784
2001/02	240.0	98.5%	252.0	99.0%	10.0% *	0	0	0	0.96	0
2002/03	228.0	98.3%	240.0	98.5%	10.0% *	0	0	0	0.96	0
2003/04	216.0	98.0%	228.0	98.3%	10.0% *	0	0	0	0.95	0
2004/05	204.0	97.7%	216.0	98.0%	10.0% *	6,370,135	637,014	5,733,121	0.94	5,400,391
2005/06	192.0	97.4%	204.0	97.7%	10.0% *	0	0	0	0.94	0
2006/07	180.0	97.2%	192.0	97.4%	10.0% *	3,046,280	304,628	2,741,652	0.93	2,546,490
2007/08	168.0	96.7%	180.0	97.2%	10.0% *	0	0	0	0.92	0
2008/09	156.0	96.2%	168.0	96.7%	10.0% *	4,873,740	487,374	4,386,366	0.92	4,034,370
2009/10	144.0	95.7%	156.0	96.2%	10.0% *	191,266	19,127	172,139	0.92	157,704
2010/11	132.0	94.8%	144.0	95.7%	10.0% *	1,005,450	100,545	904,905	0.91	825,019
2011/12	120.0	92.9%	132.0	94.8%	10.0% *	2,553,289	255,329	2,297,960	0.91	2,101,311
2012/13	108.0	90.2%	120.0	92.9%	10.0% *	1,744,705	174,471	1,570,234	0.92	1,450,992
2013/14	96.0	84.3%	108.0	90.2%	10.0% *	11,379,260	1,137,926	10,241,334	0.93	9,547,320
2014/15	84.0	78.1%	96.0	84.3%	10.0% *	14,958,812	1,495,881	13,462,931	0.95	12,729,110
2015/16	72.0	62.4%	84.0	78.1%	10.0% *	11,349,616	1,134,962	10,214,654	0.95	9,683,705
2016/17	60.0	48.0%	72.0	62.4%	10.0% *	11,760,592	1,176,059	10,584,533	0.96	10,135,146
2017/18	48.0	30.0%	60.0	48.0%	10.0% *	12,736,764	1,273,676	11,463,088	0.96	10,960,381
2018/19	36.0	13.6%	48.0	30.0%	10.0% *	15,334,657	1,533,466	13,801,191	0.95	13,168,212
2019/20	24.0	2.9%	36.0	13.6%	10.0% *	16,384,384	1,638,438	14,745,946	0.95	13,994,984
2020/21	12.0	0.3%	24.0	2.9%	2.6% *	17,495,002	455,981	17,039,021	0.94	16,024,683
2021/22	0.0	0.0%	12.0	0.3%	0.3% *	18,245,000	49,919	18,195,081	0.93	16,872,311
Total						\$149,466,958	\$11,878,597	\$137,588,361		\$129,664,913

* - Limited to a maximum of 10% per actuarial judgment.

(3) and (5) are from Exhibit OL-2.

(7) to 2020/21 is from Exhibit OL-13, (9). The amount for 2021/22 is from Exhibit OL-10.

(10) is based on a 1.61% interest rate and the payout pattern in Exhibit OL-2.

List of Large Claims
Reported Incurred Losses Greater Than \$1,000,000

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/19 (5)	Unlimited Case Reserves 11/30/19 (6)	Unlimited Reported Incurred Losses 11/30/19 (7)
97001740	05/12/78	to 1999/00	Unlimited	\$37,869,997	\$0	\$37,869,997
97001561	05/13/78	to 1999/00	Unlimited	4,000,000	0	4,000,000
97002759	01/01/89	to 1999/00	Unlimited	1,898,909	0	1,898,909
97002994	02/01/92	to 1999/00	Unlimited	1,250,000	0	1,250,000
97003314	01/01/94	to 1999/00	Unlimited	6,760,000	0	6,760,000
97001793	04/17/95	to 1999/00	Unlimited	6,882,500	0	6,882,500
97002254	09/19/95	to 1999/00	Unlimited	2,000,000	0	2,000,000
97003820	01/01/01	2000/01	9,500,000	4,006,000	0	4,006,000
97006027	03/11/01	2000/01	9,500,000	1,003,000	0	1,003,000
97004984	02/12/02	2001/02	9,500,000	3,368,046	0	3,368,046
97004059	07/09/02	2001/02	9,500,000	1,500,000	0	1,500,000
97004588	07/10/02	2001/02	9,500,000	4,500,000	0	4,500,000
97005544	01/01/03	2002/03	9,500,000	4,750,411	0	4,750,411
97005940	01/01/04	2003/04	10,000,000	4,377,358	0	4,377,358
97005005	04/29/04	2003/04	10,000,000	5,291,386	0	5,291,386
97006364	08/28/04	2003/04	10,000,000	6,425,872	0	6,425,872
97006619	07/12/05	2004/05	10,000,000	1,286,194	0	1,286,194
97006656	08/03/05	2004/05	7,500,000	0	7,500,000 *	7,500,000 *
97007512	01/01/06	2005/06	10,000,000	2,400,000	0	2,400,000
97007544	01/01/07	2006/07	10,000,000	2,600,000	0	2,600,000
97007536	02/01/07	2006/07	10,000,000	0	3,620,000	3,620,000
97006870	09/01/07	2006/07	10,000,000	1,600,000	0	1,600,000
200908194	07/25/09	2008/09	10,000,000	0	5,218,155 *	5,218,155
201203771	01/01/12	2011/12	10,000,000	0	2,000,000	2,000,000
201408195	01/01/14	2013/14	15,000,000	0	1,000,000	1,000,000
201404102	01/18/14	2013/14	15,000,000	0	1,000,000	1,000,000
201404988	01/23/14	2013/14	10,000,000	0	10,000,000 *	10,000,000 *
201503551	11/14/15	2014/15	15,000,000	29,999	24,970,001 *	25,000,000 *
201606065	01/01/16	2015/16	5,000,000	0	5,000,000 *	5,000,000 *
201605245	07/25/16	2015/16	15,000,000	0	3,000,000	3,000,000
201603690	09/19/16	2015/16	15,000,000	0	1,400,000	1,400,000
201704186	11/20/17	2016/17	15,000,000	0	4,463,000	4,463,000
201705968	12/01/17	2017/18	15,000,000	4,275,600 *	0	4,275,600 *
201705649	12/04/17	2017/18	15,000,000	0	2,540,000	2,540,000

* - for open claims with incurred greater than \$5 million, the developed amount is capped at reported incurred.

The claim(s) indicated by a "*" have been limited in development.

Amounts are gross of excess insurance and net of other recoveries.

Size of Loss Distribution

I. Reported Claim Count

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	1,603	27	19	9	3	1	1,662		
0.01 - 5,000	421	2	6	9	5	11	454	454	34.5%
5,000 - 10,000	195	8	7	4	6	3	223	677	51.5%
10,000 - 25,000	150	4	10	8	5	3	180	857	65.2%
25,000 - 50,000	114	4	6	6	2	3	135	992	75.4%
50,000 - 100,000	105	14	6	10	4	3	142	1,134	86.2%
100,000 - 250,000	57	0	1	5	2	5	70	1,204	91.6%
250,000 - 500,000	45	2	4	5	3	2	61	1,265	96.2%
500,000 - 750,000	12	0	0	0	0	0	12	1,277	97.1%
750,000 - 1,000,000	6	0	0	0	0	0	6	1,283	97.6%
Over 1,000,000	25	1	3	1	2	0	32	1,315	100.0%
Total	2,733	62	62	57	32	31	2,977	1,315	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2014/15 (3)	2015/16 (4)	2016/17 (5)	2017/18 (6)	2018/19 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
0.01 - 5,000	926,248	9,000	26,000	25,000	13,000	22,525	1,021,773	1,021,773	0.4%
5,000 - 10,000	1,684,753	80,000	70,000	40,000	60,000	30,000	1,964,753	2,986,526	1.2%
10,000 - 25,000	2,795,813	64,693	171,001	155,750	100,000	56,500	3,343,756	6,330,283	2.5%
25,000 - 50,000	4,438,169	139,800	269,352	240,000	100,000	150,000	5,337,321	11,667,603	4.7%
50,000 - 100,000	8,283,387	1,231,840	473,776	950,000	325,000	300,000	11,564,003	23,231,606	9.3%
100,000 - 250,000	10,448,819	0	200,000	1,000,000	400,000	830,000	12,878,819	36,110,425	14.5%
250,000 - 500,000	16,957,279	750,000	1,200,000	1,700,000	1,100,000	650,000	22,357,279	58,467,704	23.5%
500,000 - 750,000	7,098,311	0	0	0	0	0	7,098,311	65,566,015	26.3%
750,000 - 1,000,000	5,601,529	0	0	0	0	0	5,601,529	71,167,544	28.6%
Over 1,000,000	132,107,829	25,000,000	9,400,000	4,463,000	6,815,600	0	177,786,429	248,953,974	100.0%
Total	\$190,342,137	\$27,275,333	\$11,810,129	\$8,573,750	\$8,913,600	\$2,039,025	\$248,953,974	\$248,953,974	

Amounts are gross of excess insurance and net of other recoveries.

Data was provided by the County.

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