

## **Cook County, Illinois**

### **Actuarial Study of the Workers Compensation and Liability Self-Insured Programs as of November 30, 2020**

**May 25, 2021**

May 25, 2021

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, 2020**

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.


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

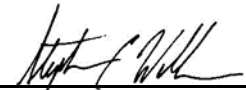
We, Elissa Sirovatka and Mujtaba Dato, are members of the American Academy of Actuaries and meet the Academy's qualification standards to render this opinion. We performed this analysis using generally accepted actuarial principles and all relevant Actuarial Standards of Practice.


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   
Stephen Williams, FCAS, MAAA  
Regional Director and Actuary

By   
Brenda Craigmyle  
Senior Actuarial Analyst

ES/SW:bc

Z:\Clients\Cook County\2020\_11\_30\Report\CookCounty\_113020\_052521.doc

## Table of Contents

I.	Background .....	1
II.	Objectives .....	5
III.	Conclusions .....	6

### Appendices

A	Conditions and Limitations
B	Glossary of Actuarial Terms
C	Exhibits

## 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 6/30/20	25,000,000	80,000,000
7/1/20 to present	35,000,000	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 6/30/20	20,000,000	None
7/1/20 to present	30,000,000	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 situations, 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, 2020 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 and law enforcement officers for 2020/21 and medical malpractice exposures for years through 2020/21. 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 684 claims in the liability loss data (total incurred of -\$1.6 million out of \$1.3 billion total incurred for the medical malpractice and liability programs) with coverage of “Recovery Claims”. These claims were first included in the loss run provided for the prior study (valued as of November 30, 2019). These claims 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.

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.

### **COVID-19**

The potential short- and long-term impacts of the COVID-19 pandemic and the ensuing economic recession are currently unknown. However, considerations for the County regarding this emerging risk include:

1. *Claims impact.*

We did not discern any significant claims activity due to COVID-19. We recommend the County consult with its claims professionals and legal counsel to ascertain any potential risk for COVID-19 claims.

The 2019/20 projected losses shown in this study do not reflect the estimated impact of COVID-19. The projected losses for 2019/20 are subject to more uncertainty than usual.

In addition, there is significant uncertainty regarding the impact of COVID-19 and any potential legislation, executive orders, or stay-at home orders on 2020/21 workers compensation claims. As such, we made no adjustment to the estimates for this year for COVID-19. The actual emerged claim experience may differ significantly from the estimates projected in this report.

2. *Other considerations*

To stimulate the economy during the pandemic, the Federal Reserve lowered its benchmark interest rate by a full percentage point to nearly zero. This may reduce the investment income the County earns going forward. The estimated outstanding claim liabilities shown in this report are discounted at an assumed

0.19% interest rate. If the County does not realize this return, then the discounted claim liabilities may be higher than indicated.

## II. Objectives

The specific objectives of this study are the following:

1. **Estimate Outstanding Losses.** Estimate outstanding losses as of November 30, 2020, November 30, 2021, and November 30, 2022.

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 2020/21, 2021/22, and 2022/23.

The projected ultimate limited losses are the accrual value of losses with accident dates during 2020/21, 2021/22, and 2022/23, 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 2020/21, 2021/22, and 2022/23 claim periods.

The projected losses paid are the claim disbursements during 2020/21, 2021/22, and 2022/23, 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, 2020 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, 2020**

Coverage (1)	Full Value			Present Value		
	Expected (2)	70% Level (3)	90% Level (4)	Expected (5)	70% Level (6)	90% Level (7)
<b>I. Healthcare Facilities</b>						
(Ai) Indemnity	\$18,382,706	\$20,956,285	\$26,654,924	\$18,255,302	\$20,811,044	\$26,470,188
(Aii) Medical	<u>6,061,330</u>	<u>6,909,916</u>	<u>8,788,929</u>	<u>6,010,515</u>	<u>6,851,987</u>	<u>8,715,247</u>
<b>(A) Workers Compensation</b>	<b>\$24,444,036</b>	<b>\$27,866,201</b>	<b>\$35,443,852</b>	<b>\$24,265,817</b>	<b>\$27,663,031</b>	<b>\$35,185,435</b>
(Bi) Cermak	7,147,000	8,361,990	11,292,260	7,105,663	8,313,626	11,226,948
(Bii) John H. Stroger	122,251,001	143,033,671	193,156,582	121,497,987	142,152,645	191,966,819
(Biii) Oak Forest	70,000	81,900	110,600	69,438	81,242	109,712
(Biv) Provident	9,539,000	11,160,630	15,071,620	9,484,451	11,096,808	14,985,433
(Bv) Unspecified	<u>134,285</u>	<u>157,113</u>	<u>212,170</u>	<u>133,446</u>	<u>156,132</u>	<u>210,845</u>
<b>(B) Medical Malpractice</b>	<b>\$139,141,286</b>	<b>\$162,795,305</b>	<b>\$219,843,232</b>	<b>\$138,290,985</b>	<b>\$161,800,452</b>	<b>\$218,499,756</b>
(C) Claim Expense	2,794,767	3,186,035	4,052,413	2,777,688	3,166,565	4,027,648
<b>(D) Subtotal</b>	<b>\$166,380,089</b>	<b>\$193,847,540</b>	<b>\$259,339,497</b>	<b>\$165,334,490</b>	<b>\$192,630,048</b>	<b>\$257,712,839</b>
<b>II. General Government</b>						
(Ei) Indemnity	\$127,467,179	\$145,312,584	\$184,827,410	\$126,438,087	\$144,139,419	\$183,335,226
(Eii) Medical	<u>39,963,269</u>	<u>45,558,127</u>	<u>57,946,740</u>	<u>39,654,324</u>	<u>45,205,929</u>	<u>57,498,770</u>
<b>(E) Workers Compensation</b>	<b>\$167,430,448</b>	<b>\$190,870,711</b>	<b>\$242,774,150</b>	<b>\$166,092,411</b>	<b>\$189,345,349</b>	<b>\$240,833,996</b>
(F) General liability	2,254,344	2,569,952	3,268,799	2,248,479	2,563,266	3,260,295
(G) Automobile liability	12,629,072	14,397,142	18,312,154	12,598,510	14,362,301	18,267,840
(H) Law enforcement liability	157,349,848	184,099,322	248,612,760	156,237,353	182,797,703	246,855,018
(I) Other liability	95,898,749	112,201,536	151,520,023	95,192,372	111,375,075	150,403,948
(J) Claim Expense	78,750,040	89,775,045	114,187,557	78,205,141	89,153,860	113,397,454
<b>(K) Subtotal</b>	<b>\$514,312,501</b>	<b>\$593,913,709</b>	<b>\$778,675,444</b>	<b>\$510,574,266</b>	<b>\$589,597,555</b>	<b>\$773,018,549</b>
<b>(L) Total</b>	<b>\$680,692,590</b>	<b>\$787,761,249</b>	<b>\$1,038,014,940</b>	<b>\$675,908,756</b>	<b>\$782,227,603</b>	<b>\$1,030,731,388</b>

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 0.19% interest rate, as provided by the County.

The discount rate used in the prior year's analysis was 1.61%. The decrease in discount rate had the impact of increasing the discounted reserves about \$33 million.

Undiscounted outstanding losses increased from \$599.4 million as of November 30, 2019, to \$680.7 million as of November 30, 2020. 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, 2019 to November 30, 2020**  
**All Coverages Combined**  
**(Excluding Claim Expense Reserves)**

Claim Period (1)	As of 11/30/19			As of 11/30/20			Change		
	Case Reserves (2)	IBNR (3)	Total (4)	Case Reserves (5)	IBNR (6)	Total (7)	Case Reserves (8)	IBNR (9)	Total (10)
to 2000/01	\$22,717	\$704	\$23,421	\$44,127	\$6,936	\$51,063	\$21,410	\$6,232	\$27,642
2001/02	707	79	785	3	1	4	(704)	(78)	(781)
2002/03	236	53	289	4,211	120	4,332	3,976	67	4,043
2003/04	946	145	1,091	1,394	161	1,555	448	16	464
2004/05	23,188	318	23,506	2,464	434	2,898	(20,724)	115	(20,608)
2005/06	2,330	594	2,925	2,020	387	2,407	(311)	(207)	(518)
2006/07	4,104	393	4,497	3,986	241	4,226	(118)	(152)	(271)
2007/08	1,764	656	2,420	1,698	551	2,249	(66)	(105)	(171)
2008/09	6,334	807	7,141	6,599	554	7,153	264	(253)	11
2009/10	1,784	841	2,624	1,841	608	2,448	57	(233)	(176)
2010/11	2,482	1,308	3,790	5,525	973	6,498	3,043	(335)	2,708
2011/12	4,079	2,597	6,676	10,857	2,460	13,317	6,778	(137)	6,641
2012/13	40,743	4,315	45,058	11,664	4,158	15,822	(29,078)	(158)	(29,236)
2013/14	31,940	10,029	41,969	27,733	5,143	32,876	(4,207)	(4,886)	(9,093)
2014/15	63,256	9,730	72,986	28,555	9,690	38,244	(34,702)	(40)	(34,742)
2015/16	39,048	13,784	52,832	36,631	12,023	48,654	(2,417)	(1,761)	(4,178)
2016/17	43,403	23,664	67,067	56,057	18,271	74,327	12,654	(5,393)	7,260
2017/18	39,264	38,255	77,519	57,896	26,870	84,767	18,633	(11,385)	7,248
2018/19	31,342	63,724	95,067	35,809	52,688	88,497	4,467	(11,036)	(6,570)
2019/20				37,921	79,890	117,811	37,921	79,890	117,811
Total	\$359,666	\$171,997	\$531,663	\$376,989	\$222,159	\$599,148	\$17,323	\$50,162	\$67,485

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, 2019 and November 30, 2020 is shown in Summary Exhibit 2. Detail by year and coverage is provided in Summary Exhibits 10 through 24.

Case reserves are up \$17 million from our prior analysis. Increases in a few large law enforcement liability claims along with a more general increase for workers compensation were partially offset by decreases for medical malpractice and other liability.

For workers compensation, total case reserves increased by \$22 million compared to the prior study. Similar to the prior study, this increase was not driven by a few large claims, but rather by increases in the average case reserves on many claims. The County previously 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, 2021, and November 30, 2022 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 2019/20 payments, ii) case reserves, and iii) cumulative reported incurred amounts as of November 30, 2020.

In summary, the expected (or central estimate) discounted reserves are up from \$569 million in last year's study to \$676 million in this year's study. The increase is driven by a substantial increase in case reserves for the law enforcement liability and workers compensation segments.

## 2. Project Ultimate Limited Losses

We project ultimate limited losses for 2020/21 to be as shown in Table III-2. The projected ultimate limited losses are the accrual value of losses with accident dates during 2020/21 regardless of report or payment date.

**Table III-2  
Projected Ultimate Losses  
2020/21**

Coverage (1)	Full Value			Present Value		
	Expected (2)	70% Level (3)	90% Level (4)	Expected (5)	70% Level (6)	90% Level (7)
<b>I. Healthcare Facilities</b>						
(Ai) Indemnity	\$3,485,000	\$4,077,450	\$5,506,300	\$3,457,000	\$4,044,690	\$5,462,060
(Aii) Medical	<u>1,531,000</u>	<u>1,791,270</u>	<u>2,418,980</u>	<u>1,522,000</u>	<u>1,780,740</u>	<u>2,404,760</u>
<b>(A) Workers Compensation</b>	<b>\$5,016,000</b>	<b>\$5,868,720</b>	<b>\$7,925,280</b>	<b>\$4,979,000</b>	<b>\$5,825,430</b>	<b>\$7,866,820</b>
(Bi) Cermak	1,483,000	1,779,600	2,610,080	1,466,000	1,759,200	2,580,160
(Bii) John H. Stroger	21,759,000	26,110,800	38,295,840	21,499,000	25,798,800	37,838,240
(Biii) Oak Forest	5,000	6,000	8,800	4,000	4,800	7,040
(Biv) Provident	1,557,000	1,868,400	2,740,320	1,539,000	1,846,800	2,708,640
(Bv) Unspecified	<u>21,000</u>	<u>25,200</u>	<u>36,960</u>	<u>21,000</u>	<u>25,200</u>	<u>36,960</u>
<b>(B) Medical Malpractice</b>	<b>\$24,825,000</b>	<b>\$29,790,000</b>	<b>\$43,692,000</b>	<b>\$24,529,000</b>	<b>\$29,434,800</b>	<b>\$43,171,040</b>
<b>(C) Subtotal</b>	<b>\$29,841,000</b>	<b>\$35,658,720</b>	<b>\$51,617,280</b>	<b>\$29,508,000</b>	<b>\$35,260,230</b>	<b>\$51,037,860</b>
<b>II. General Government</b>						
(Di) Indemnity	\$33,326,000	\$38,991,420	\$52,655,080	\$33,045,000	\$38,662,650	\$52,211,100
(Dii) Medical	<u>10,910,000</u>	<u>12,764,700</u>	<u>17,237,800</u>	<u>10,847,000</u>	<u>12,690,990</u>	<u>17,138,260</u>
<b>(D) Workers Compensation</b>	<b>\$44,236,000</b>	<b>\$51,756,120</b>	<b>\$69,892,880</b>	<b>\$43,892,000</b>	<b>\$51,353,640</b>	<b>\$69,349,360</b>
(E) General liability	525,000	614,250	829,500	522,000	610,740	824,760
(F) Automobile liability	2,061,000	2,411,370	3,256,380	2,051,000	2,399,670	3,240,580
(G) Law enforcement liability	17,643,000	21,171,600	31,051,680	17,443,000	20,931,600	30,699,680
(H) Other liability	15,739,000	18,886,800	27,700,640	15,566,000	18,679,200	27,396,160
<b>(I) Subtotal</b>	<b>\$80,204,000</b>	<b>\$94,840,140</b>	<b>\$132,731,080</b>	<b>\$79,474,000</b>	<b>\$93,974,850</b>	<b>\$131,510,540</b>
<b>(J) Total</b>	<b>\$110,045,000</b>	<b>\$130,498,860</b>	<b>\$184,348,360</b>	<b>\$108,982,000</b>	<b>\$129,235,080</b>	<b>\$182,548,400</b>

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

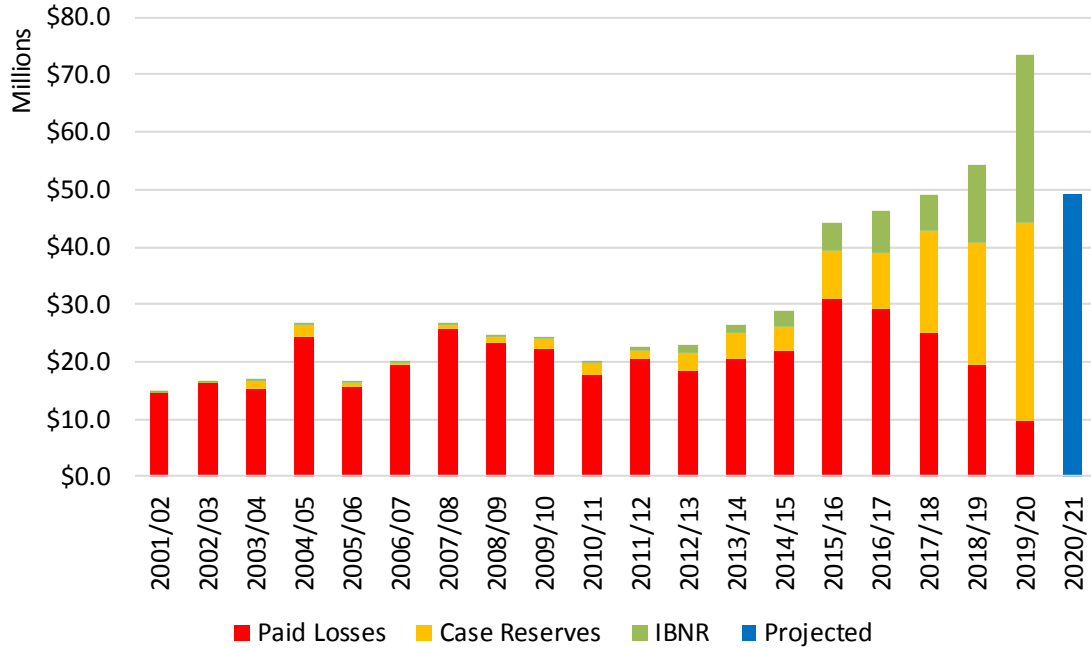
The present value of the estimated outstanding losses is the estimated outstanding losses discounted to reflect future investment earnings. It is based on a 0.19% interest rate, as provided by the County.

Projected ultimate losses for 2021/22 and 2022/23 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 2019/20 claim period). On this basis, our ultimate loss and ALAE estimates for all years through the 2019/20 claim period are up by approximately \$86 million, or 4.1%. The overall increase in estimates is driven largely by increases in estimates for workers compensation, law enforcement liability, and Stroger Hospital.

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

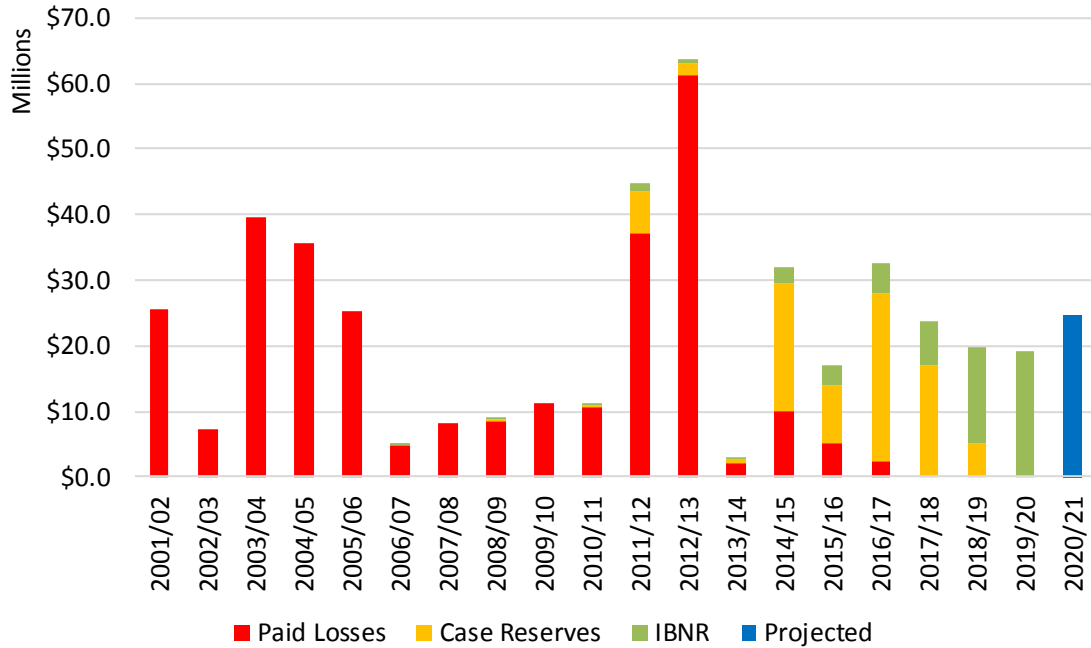
**Graph III-1**  
**Composition of Projected Ultimate Limited Losses**  
**Workers Compensation**



For years through 2018/19, the estimate of the ultimate workers compensation losses has increased by 1.3% from the prior report.

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

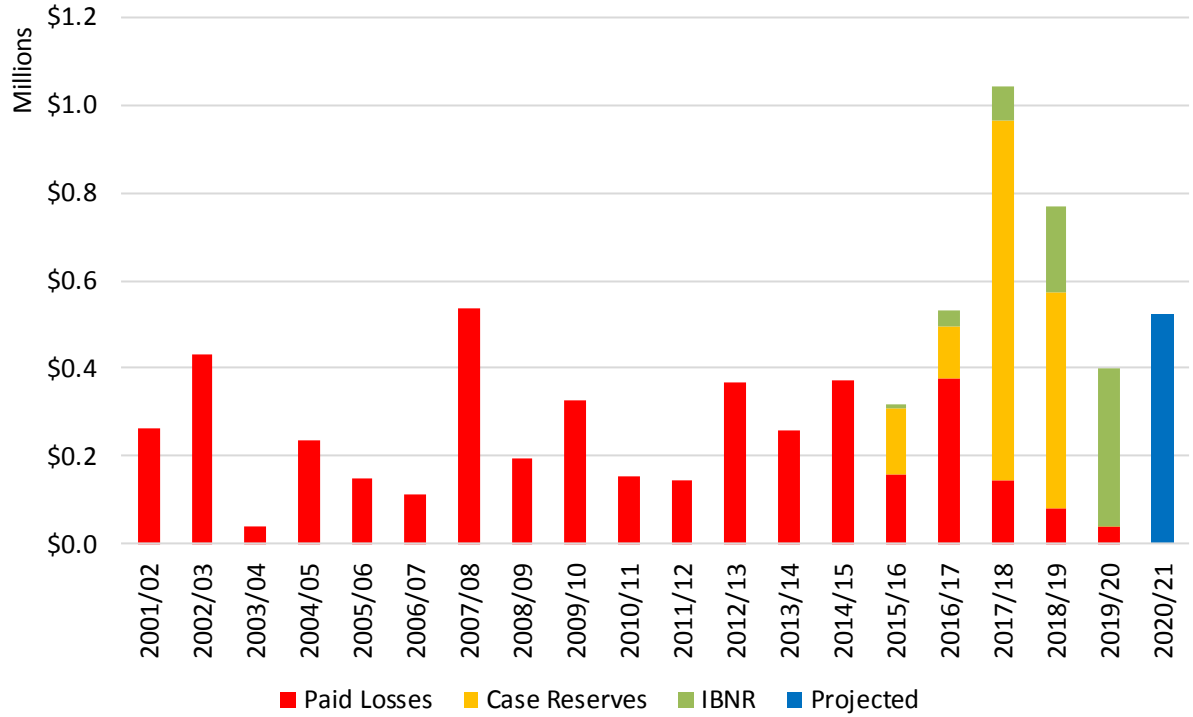
**Graph III-2**  
**Composition of Projected Ultimate Limited Losses**  
*Medical Malpractice*



For years through 2018/19, the estimate of the ultimate medical malpractice losses has increased by 2.4% 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.

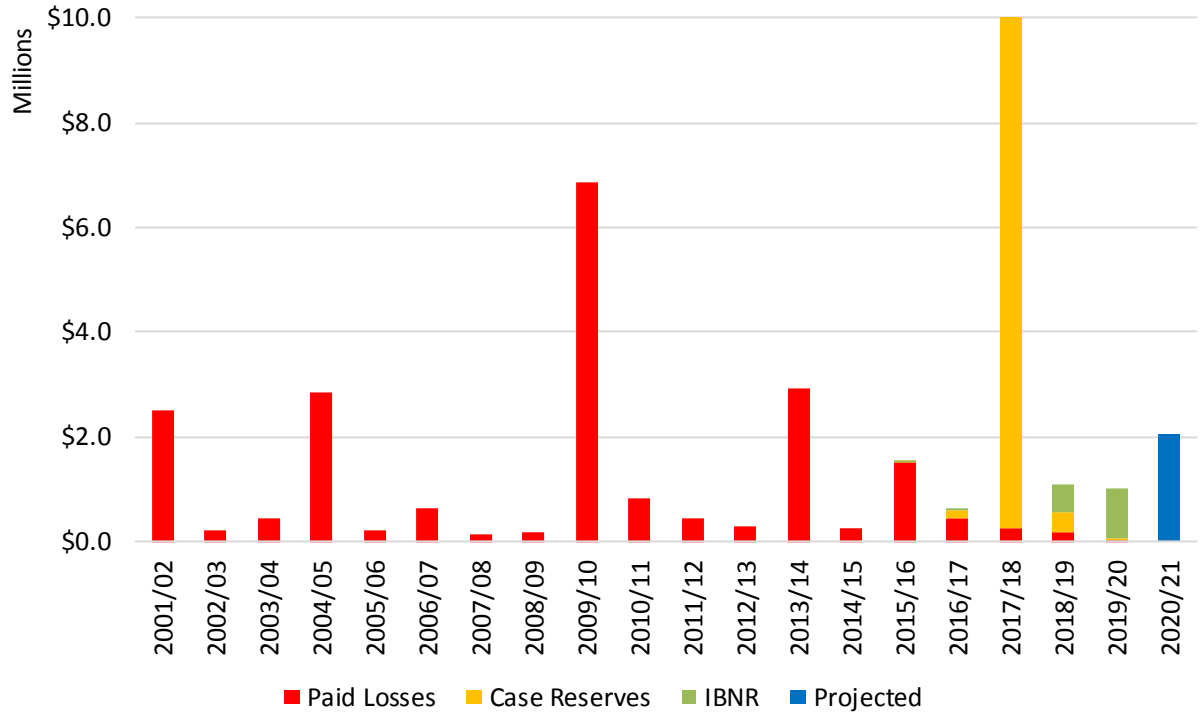
**Graph III-3**  
**Composition of Projected Ultimate Limited Losses**  
**General Liability**



For years through 2018/19, the estimate of the ultimate general liability losses has increased by 3.9% from the prior report.

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

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

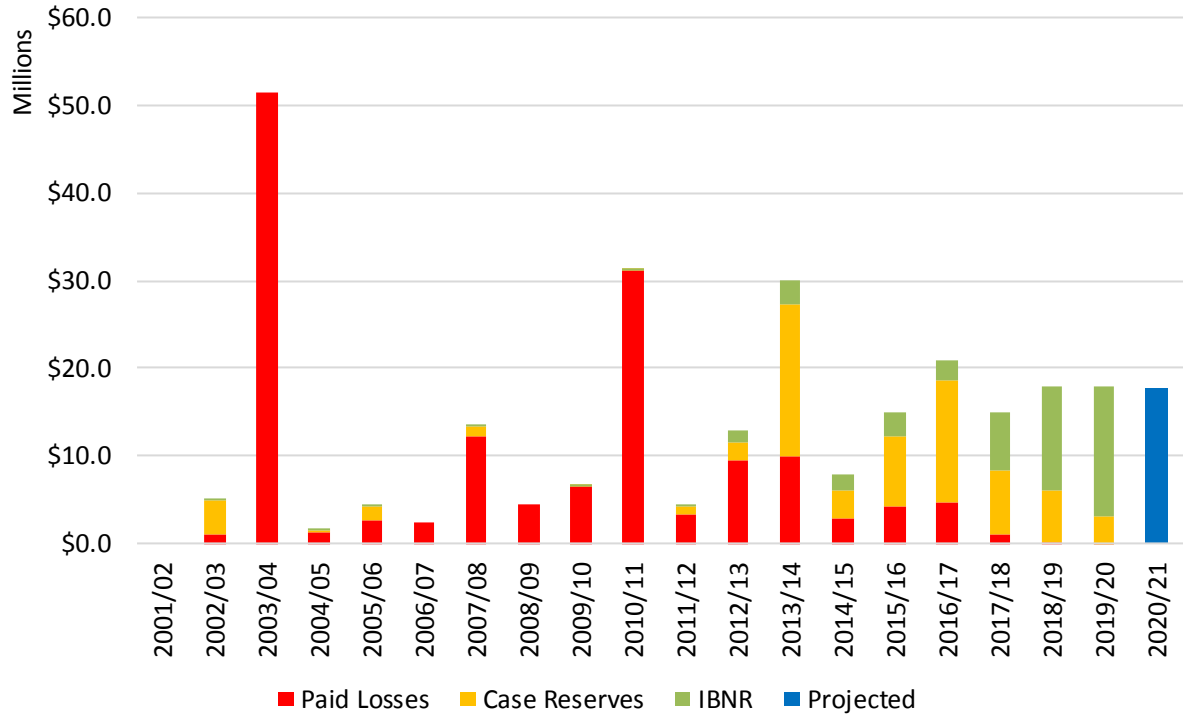


For years through 2018/19, the estimate of the ultimate automobile liability losses has increased by 13.3% from the prior report. This increase was driven by an increase of \$6.0 million in one 2017/18 claim.



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

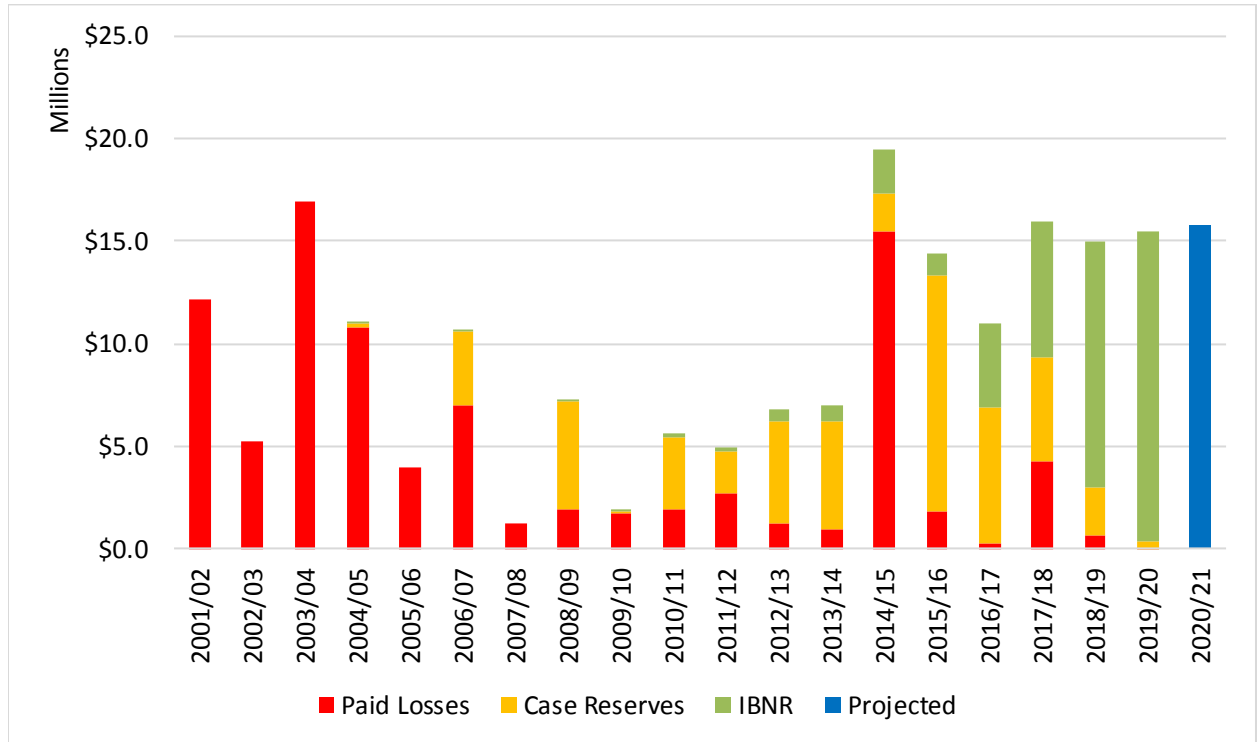
**Graph III-5**  
**Composition of Projected Ultimate Limited Losses**  
**Law Enforcement Liability**



For years through 2018/19, the estimate of the ultimate law enforcement liability losses has increased by 16.1% from the prior report. This increase was driven by three claims which had an increase in incurred of at least \$2 million each, and two newly reported claims with incurred of \$4 million and \$10 million.

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

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



For years through 2018/19, the estimate of the ultimate other liability losses has decreased by -5.0% from the prior report.

We note that employment practices liability comprises almost 90% of the Other Liability claim counts and reported incurred amounts for the last ten years (2010/11 through 2019/20).

### 3. Project Losses Paid

We project losses paid during 2020/21 through 2022/23 to be as shown in Table III-3. The projected losses paid are the claim disbursements during 2020/21, 2021/22, and 2022/23, regardless of accident or report date.

**Table III-3  
Projected Losses Paid  
2020/21, 2021/22, and 2022/23**

Coverage (1)	2020/21 (2)	2021/22 (3)	2022/23 (4)
<b>I. Healthcare Facilities</b>			
(Ai) Indemnity	\$4,128,267	\$3,995,509	\$3,893,105
(Aii) Medical	<u>2,563,393</u>	<u>1,929,768</u>	<u>1,748,897</u>
<b>(A) Workers Compensation</b>	<b>\$6,691,660</b>	<b>\$5,925,277</b>	<b>\$5,642,002</b>
(Bi) Cermak	1,396,216	1,418,362	1,357,582
(Bii) John H. Stroger	19,933,604	23,619,767	21,767,785
(Biii) Oak Forest	3,663	7,999	11,203
(Biv) Provident	1,893,597	2,099,216	1,426,848
(Bv) Unspecified	<u>20,535</u>	<u>26,701</u>	<u>24,306</u>
<b>(B) Medical Malpractice</b>	<b>\$23,247,615</b>	<b>\$27,172,045</b>	<b>\$24,587,724</b>
<b>(C) Subtotal</b>	<b>\$29,939,275</b>	<b>\$33,097,322</b>	<b>\$30,229,726</b>
<b>II. General Government</b>			
(Di) Indemnity	\$32,651,572	\$32,687,392	\$32,989,002
(Dii) Medical	<u>13,351,571</u>	<u>12,548,526</u>	<u>12,238,805</u>
<b>(D) Workers Compensation</b>	<b>\$46,003,143</b>	<b>\$45,235,918</b>	<b>\$45,227,807</b>
(E) General liability	1,035,459	840,611	607,461
(F) Automobile liability	7,576,639	3,379,964	3,032,177
(G) Law enforcement liability	20,192,040	19,849,149	19,852,877
(H) Other liability	8,482,183	9,194,956	9,867,505
<b>(I) Subtotal</b>	<b>\$83,289,464</b>	<b>\$78,500,598</b>	<b>\$78,587,827</b>
<b>(J) Total</b>	<b>\$113,228,739</b>	<b>\$111,597,920</b>	<b>\$108,817,553</b>

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 (two medical malpractice, one automobile liability, four law enforcement liability, and one 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, 2020. 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 11/30/20

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$18,382,706	\$20,956,285	\$26,654,924	\$18,255,302	\$20,811,044	\$26,470,188
(Aii) WC - Medical	<u>6,061,330</u>	<u>6,909,916</u>	<u>8,788,929</u>	<u>6,010,515</u>	<u>6,851,987</u>	<u>8,715,247</u>
(A) Workers compensation	\$24,444,036	\$27,866,201	\$35,443,852	\$24,265,817	\$27,663,031	\$35,185,435
(Bi) Cermak	7,147,000	8,361,990	11,292,260	7,105,663	8,313,626	11,226,948
(Bii) John H. Stroger	122,251,001	143,033,671	193,156,582	121,497,987	142,152,645	191,966,819
(Biii) Oak Forest	70,000	81,900	110,600	69,438	81,242	109,712
(Biv) Provident	9,539,000	11,160,630	15,071,620	9,484,451	11,096,808	14,985,433
(Bv) Unspecified	<u>134,285</u>	<u>157,113</u>	<u>212,170</u>	<u>133,446</u>	<u>156,132</u>	<u>210,845</u>
(B) Medical malpractice	\$139,141,286	\$162,795,305	\$219,843,232	\$138,290,985	\$161,800,452	\$218,499,756
(C) Claim Expense Reserves	2,794,767	3,186,035	4,052,413	2,777,688	3,166,565	4,027,648
(D) Subtotal	\$166,380,089	\$193,847,540	\$259,339,497	\$165,334,490	\$192,630,048	\$257,712,839
<b>II. General Government</b>						
(Ei) WC - Indemnity	127,467,179	145,312,584	184,827,410	126,438,087	144,139,419	183,335,226
(Eii) WC - Medical	<u>39,963,269</u>	<u>45,558,127</u>	<u>57,946,740</u>	<u>39,654,324</u>	<u>45,205,929</u>	<u>57,498,770</u>
(E) Workers compensation	\$167,430,448	\$190,870,711	\$242,774,150	\$166,092,411	\$189,345,349	\$240,833,996
(F) General liability	2,254,344	2,569,952	3,268,799	2,248,479	2,563,266	3,260,295
(G) Automobile liability	12,629,072	14,397,142	18,312,154	12,598,510	14,362,301	18,267,840
(H) Law enforcement liability	157,349,848	184,099,322	248,612,760	156,237,353	182,797,703	246,855,018
(I) Other liability	95,898,749	112,201,536	151,520,023	95,192,372	111,375,075	150,403,948
(J) Claim Expense Reserves	78,750,040	89,775,045	114,187,557	78,205,141	89,153,860	113,397,454
(K) Subtotal	\$514,312,501	\$593,913,709	\$778,675,444	\$510,574,266	\$589,597,555	\$773,018,549
<b>Total</b>	<b>\$680,692,590</b>	<b>\$787,761,249</b>	<b>\$1,038,014,940</b>	<b>\$675,908,756</b>	<b>\$782,227,603</b>	<b>\$1,030,731,388</b>

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

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$17,739,439	\$20,222,960	\$25,722,187	\$17,615,430	\$20,081,590	\$25,542,374
(Aii) WC - Medical	<u>5,028,937</u>	<u>5,732,988</u>	<u>7,291,959</u>	<u>4,981,049</u>	<u>5,678,396</u>	<u>7,222,521</u>
(A) Workers compensation	\$22,768,376	\$25,955,949	\$33,014,145	\$22,596,479	\$25,759,986	\$32,764,895
(Bi) Cermak	7,233,784	8,463,527	11,429,379	7,189,720	8,411,972	11,359,758
(Bii) John H. Stroger	124,076,397	145,169,384	196,040,707	123,316,654	144,280,485	194,840,313
(Biii) Oak Forest	71,337	83,464	112,712	70,853	82,898	111,948
(Biv) Provident	9,202,403	10,766,812	14,539,797	9,148,430	10,703,663	14,454,519
(Bv) Unspecified	<u>134,750</u>	<u>157,658</u>	<u>212,905</u>	<u>133,934</u>	<u>156,703</u>	<u>211,616</u>
(B) Medical malpractice	\$140,718,671	\$164,640,845	\$222,335,500	\$139,859,591	\$163,635,721	\$220,978,154
(C) Claim Expense Reserves	2,826,450	3,222,153	4,098,353	2,809,178	3,202,463	4,073,308
(D) Subtotal	\$166,313,497	\$193,818,947	\$259,447,998	\$165,265,248	\$192,598,170	\$257,816,356
<b>II. General Government</b>						
(Ei) WC - Indemnity	128,141,607	146,081,432	185,805,330	127,103,294	144,897,755	184,299,776
(Eii) WC - Medical	<u>37,521,698</u>	<u>42,774,736</u>	<u>54,406,462</u>	<u>37,211,992</u>	<u>42,421,671</u>	<u>53,957,388</u>
(E) Workers compensation	\$165,663,305	\$188,856,168	\$240,211,792	\$164,315,286	\$187,319,426	\$238,257,165
(F) General liability	1,743,885	1,988,029	2,528,633	1,739,251	1,982,746	2,521,914
(G) Automobile liability	7,113,433	8,109,314	10,314,478	7,093,608	8,086,713	10,285,732
(H) Law enforcement liability	154,800,808	181,116,945	244,585,277	153,690,106	179,817,424	242,830,367
(I) Other liability	103,155,566	120,692,012	162,985,794	102,399,153	119,807,009	161,790,662
(J) Claim Expense Reserves	78,362,850	89,333,649	113,626,132	77,820,630	88,715,518	112,839,913
(K) Subtotal	\$510,839,847	\$590,096,117	\$774,252,106	\$507,058,034	\$585,728,836	\$768,525,753
<b>Total</b>	<b>\$677,153,344</b>	<b>\$783,915,064</b>	<b>\$1,033,700,105</b>	<b>\$672,323,282</b>	<b>\$778,327,007</b>	<b>\$1,026,342,109</b>

C. Estimated Outstanding Losses as of 11/30/22

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$17,280,930	\$19,700,260	\$25,057,349	\$17,159,432	\$19,561,752	\$24,881,176
(Aii) WC - Medical	<u>4,691,169</u>	<u>5,347,933</u>	<u>6,802,195</u>	<u>4,644,610</u>	<u>5,294,855</u>	<u>6,734,685</u>
(A) Workers compensation	\$21,972,099	\$25,048,193	\$31,859,544	\$21,804,042	\$24,856,608	\$31,615,861
(Bi) Cermak	7,358,422	8,609,354	11,626,307	7,311,167	8,554,065	11,551,644
(Bii) John H. Stroger	123,085,630	144,010,187	194,475,295	122,310,369	143,103,132	193,250,383
(Biii) Oak Forest	68,338	79,955	107,974	67,931	79,479	107,331
(Biv) Provident	8,723,187	10,206,129	13,782,635	8,668,324	10,141,939	13,695,952
(Bv) Unspecified	<u>130,049</u>	<u>152,157</u>	<u>205,477</u>	<u>129,241</u>	<u>151,212</u>	<u>204,201</u>
(B) Medical malpractice	\$139,365,626	\$163,057,782	\$220,197,689	\$138,487,032	\$162,029,827	\$218,809,511
(C) Claim Expense Reserves	2,799,273	3,191,172	4,058,946	2,782,167	3,171,670	4,034,142
(D) Subtotal	\$164,136,998	\$191,297,147	\$256,116,179	\$163,073,241	\$190,058,105	\$254,459,513
<b>II. General Government</b>						
(Ei) WC - Indemnity	129,280,215	147,379,445	187,456,312	128,230,638	146,182,927	185,934,425
(Eii) WC - Medical	<u>36,319,172</u>	<u>41,403,856</u>	<u>52,662,799</u>	<u>36,010,564</u>	<u>41,052,043</u>	<u>52,215,318</u>
(E) Workers compensation	\$165,599,387	\$188,783,301	\$240,119,111	\$164,241,202	\$187,234,970	\$238,149,743
(F) General liability	1,449,274	1,652,172	2,101,447	1,445,003	1,647,303	2,095,254
(G) Automobile liability	5,866,469	6,687,775	8,506,380	5,850,698	6,669,796	8,483,512
(H) Law enforcement liability	153,300,659	179,361,771	242,215,041	152,161,860	178,029,376	240,415,739
(I) Other liability	110,329,610	129,085,644	174,320,784	109,515,618	128,133,273	173,034,676
(J) Claim Expense Reserves	79,576,507	90,717,218	115,385,935	79,025,889	90,089,514	114,587,540
(K) Subtotal	\$516,121,906	\$596,287,881	\$782,648,699	\$512,240,270	\$591,804,233	\$776,766,464
<b>Total</b>	<b>\$680,258,904</b>	<b>\$787,585,028</b>	<b>\$1,038,764,878</b>	<b>\$675,313,511</b>	<b>\$781,862,338</b>	<b>\$1,031,225,978</b>

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 LEL-11.

Section II, I is from Exhibit OL-11.

Section II, J is from Summary Exhibit 7.

Comparison of Estimated Outstanding Losses

	As of November 30, 2019			As of November 30, 2020			Change		
	Case Reserves	IBNR	Total	Case Reserves	IBNR	Total	Case Reserves	IBNR	Total
<b>I. Health Care Facilities</b>									
(Ai) WC - Indemnity	\$11,263,975	\$6,513,600	\$17,777,575	\$13,125,338	\$5,257,365	\$18,382,703	\$1,861,362	-\$1,256,235	\$605,128
(Aii) WC - Medical	<u>3,745,724</u>	<u>740,627</u>	<u>4,486,351</u>	<u>5,120,390</u>	<u>940,940</u>	<u>6,061,330</u>	<u>1,374,666</u>	<u>200,314</u>	<u>1,574,979</u>
(A) Workers compensation	\$15,009,699	\$7,254,226	\$22,263,926	\$18,245,727	\$6,198,306	\$24,444,033	\$3,236,028	-\$1,055,921	\$2,180,107
(Bi) Cermak	4,000,000	3,154,000	7,154,000	4,000,000	3,147,000	7,147,000	0	-7,000	-7,000
(Bii) John H. Stroger	96,340,500	37,040,501	133,381,001	75,940,000	46,311,001	122,251,001	-20,400,500	9,270,500	-11,130,000
(Biii) Oak Forest	0	90,000	90,000	0	70,000	70,000	0	-20,000	-20,000
(Biv) Provident	5,805,000	3,905,000	9,710,000	5,550,000	3,989,000	9,539,000	-255,000	84,000	-171,000
(Bv) Unspecified	<u>50,000</u>	<u>76,785</u>	<u>126,785</u>	<u>50,000</u>	<u>84,285</u>	<u>134,285</u>	<u>0</u>	<u>7,500</u>	<u>7,500</u>
(B) Medical malpractice	\$106,195,500	\$44,266,286	\$150,461,786	\$85,540,000	\$53,601,286	\$139,141,286	-\$20,655,500	\$9,335,000	-\$11,320,500
(C) Claim Expense Reserves		<u>2,823,557</u>	<u>2,823,557</u>		<u>2,794,767</u>	<u>2,794,767</u>	0	-28,790	-28,790
(D) Subtotal	\$121,205,199	\$54,344,069	\$175,549,269	\$103,785,727	\$62,594,359	\$166,380,086	-\$17,419,472	\$8,250,289	-\$9,169,183
<b>II. General Government</b>									
(Ei) WC - Indemnity	57,172,733	39,553,437	96,726,170	70,652,561	56,814,622	127,467,183	13,479,828	17,261,184	30,741,012
(Eii) WC - Medical	<u>27,185,346</u>	<u>6,982,796</u>	<u>34,168,141</u>	<u>32,565,727</u>	<u>7,397,545</u>	<u>39,963,272</u>	<u>5,380,382</u>	<u>414,749</u>	<u>5,795,131</u>
(E) Workers compensation	\$84,358,079	\$46,536,233	\$130,894,312	\$103,218,288	\$64,212,166	\$167,430,454	\$18,860,209	\$17,675,933	\$36,536,143
(F) General liability	1,121,887	627,200	1,749,087	1,574,626	679,719	2,254,345	452,739	52,519	505,258
(G) Automobile liability	4,663,450	1,796,087	6,459,537	10,836,609	1,792,463	12,629,073	6,173,160	-3,624	6,169,536
(H) Law enforcement liability	71,745,156	29,350,075	101,095,232	104,961,684	52,388,164	157,349,848	33,216,528	23,038,088	56,254,616
(I) Other liability	76,572,257	42,166,559	118,738,816	52,611,857	43,286,893	95,898,750	-23,960,400	1,120,334	-22,840,066
(J) Claim Expense Reserves		<u>64,926,258</u>	<u>64,926,258</u>		<u>78,750,040</u>	<u>78,750,040</u>	0	13,823,782	13,823,782
(K) Subtotal	\$238,460,828	\$185,402,412	\$423,863,240	\$273,203,064	\$241,109,445	\$514,312,509	\$34,742,236	\$55,707,033	\$90,449,269
<b>Total</b>	<b>\$359,666,027</b>	<b>\$239,746,482</b>	<b>\$599,412,509</b>	<b>\$376,988,792</b>	<b>\$303,703,804</b>	<b>\$680,692,595</b>	<b>\$17,322,764</b>	<b>\$63,957,322</b>	<b>\$81,280,086</b>

Projected Ultimate Losses

A. 2020/21 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$3,485,000	\$4,077,450	\$5,506,300	\$3,457,000	\$4,044,690	\$5,462,060
(Aii) WC - Medical	<u>1,531,000</u>	<u>1,791,270</u>	<u>2,418,980</u>	<u>1,522,000</u>	<u>1,780,740</u>	<u>2,404,760</u>
(A) Workers compensation	\$5,016,000	\$5,868,720	\$7,925,280	\$4,979,000	\$5,825,430	\$7,866,820
(Bi) Cermak	1,483,000	1,779,600	2,610,080	1,466,000	1,759,200	2,580,160
(Bii) John H. Stroger	21,759,000	26,110,800	38,295,840	21,499,000	25,798,800	37,838,240
(Biii) Oak Forest	5,000	6,000	8,800	4,000	4,800	7,040
(Biv) Provident	1,557,000	1,868,400	2,740,320	1,539,000	1,846,800	2,708,640
(Bv) Unspecified	<u>21,000</u>	<u>25,200</u>	<u>36,960</u>	<u>21,000</u>	<u>25,200</u>	<u>36,960</u>
(B) Medical malpractice	\$24,825,000	\$29,790,000	\$43,692,000	\$24,529,000	\$29,434,800	\$43,171,040
(C) Subtotal	<u>29,841,000</u>	<u>35,658,720</u>	<u>51,617,280</u>	<u>29,508,000</u>	<u>35,260,230</u>	<u>51,037,860</u>
<b>II. General Government</b>						
(Di) WC - Indemnity	33,326,000	38,991,420	52,655,080	33,045,000	38,662,650	52,211,100
(Dii) WC - Medical	<u>10,910,000</u>	<u>12,764,700</u>	<u>17,237,800</u>	<u>10,847,000</u>	<u>12,690,990</u>	<u>17,138,260</u>
(D) Workers compensation	\$44,236,000	\$51,756,120	\$69,892,880	\$43,892,000	\$51,353,640	\$69,349,360
(E) General liability	525,000	614,250	829,500	522,000	610,740	824,760
(F) Automobile liability	2,061,000	2,411,370	3,256,380	2,051,000	2,399,670	3,240,580
(G) Law enforcement liability	17,643,000	21,171,600	31,051,680	17,443,000	20,931,600	30,699,680
(H) Other liability	15,739,000	18,886,800	27,700,640	15,566,000	18,679,200	27,396,160
(I) Subtotal	<u>80,204,000</u>	<u>94,840,140</u>	<u>132,731,080</u>	<u>79,474,000</u>	<u>93,974,850</u>	<u>131,510,540</u>
<b>Total</b>	<b>\$110,045,000</b>	<b>\$130,498,860</b>	<b>\$184,348,360</b>	<b>\$108,982,000</b>	<b>\$129,235,080</b>	<b>\$182,548,400</b>

B. 2021/22 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$3,537,000	\$4,138,290	\$5,588,460	\$3,509,000	\$4,105,530	\$5,544,220
(Aii) WC - Medical	1,592,000	1,862,640	2,515,360	1,582,000	1,850,940	2,499,560
(A) Workers compensation	\$5,129,000	\$6,000,930	\$8,103,820	\$5,091,000	\$5,956,470	\$8,043,780
(Bi) Cermak	1,543,000	1,851,600	2,715,680	1,524,000	1,828,800	2,682,240
(Bii) John H. Stroger	22,629,000	27,154,800	39,827,040	22,359,000	26,830,800	39,351,840
(Biii) Oak Forest	5,000	6,000	8,800	5,000	6,000	8,800
(Biv) Provident	1,620,000	1,944,000	2,851,200	1,600,000	1,920,000	2,816,000
(Bv) Unspecified	22,000	26,400	38,720	22,000	26,400	38,720
(B) Medical malpractice	\$25,819,000	\$30,982,800	\$45,441,440	\$25,510,000	\$30,612,000	\$44,897,600
(C) Subtotal	<u>\$30,948,000</u>	<u>\$36,983,730</u>	<u>\$53,545,260</u>	<u>\$30,601,000</u>	<u>\$36,568,470</u>	<u>\$52,941,380</u>
<b>II. General Government</b>						
(Di) WC - Indemnity	33,826,000	39,576,420	53,445,080	33,541,000	39,242,970	52,994,780
(Dii) WC - Medical	11,346,000	13,274,820	17,926,680	11,281,000	13,198,770	17,823,980
(D) Workers compensation	\$45,172,000	\$52,851,240	\$71,371,760	\$44,822,000	\$52,441,740	\$70,818,760
(E) General liability	546,000	638,820	862,680	543,000	635,310	857,940
(F) Automobile liability	2,133,000	2,495,610	3,370,140	2,122,000	2,482,740	3,352,760
(G) Law enforcement liability	18,349,000	22,018,800	32,294,240	18,140,000	21,768,000	31,926,400
(H) Other liability	16,369,000	19,642,800	28,809,440	16,189,000	19,426,800	28,492,640
(I) Subtotal	<u>\$82,569,000</u>	<u>\$97,647,270</u>	<u>\$136,708,260</u>	<u>\$81,816,000</u>	<u>\$96,754,590</u>	<u>\$135,448,500</u>
<b>Total</b>	<b>\$113,517,000</b>	<b>\$134,631,000</b>	<b>\$190,253,520</b>	<b>\$112,417,000</b>	<b>\$133,323,060</b>	<b>\$188,389,880</b>

C. 2022/23 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$3,590,000	\$4,200,300	\$5,672,200	\$3,562,000	\$4,167,540	\$5,627,960
(Aii) WC - Medical	1,655,000	1,936,350	2,614,900	1,646,000	1,925,820	2,600,680
(A) Workers compensation	\$5,245,000	\$6,136,650	\$8,287,100	\$5,208,000	\$6,093,360	\$8,228,640
(Bi) Cermak	1,604,000	1,924,800	2,823,040	1,585,000	1,902,000	2,789,600
(Bii) John H. Stroger	23,534,000	28,240,800	41,419,840	23,254,000	27,904,800	40,927,040
(Biii) Oak Forest	5,000	6,000	8,800	5,000	6,000	8,800
(Biv) Provident	1,685,000	2,022,000	2,965,600	1,664,000	1,996,800	2,928,640
(Bv) Unspecified	23,000	27,600	40,480	23,000	27,600	40,480
(B) Medical malpractice	\$26,851,000	\$32,221,200	\$47,257,760	\$26,531,000	\$31,837,200	\$46,694,560
(C) Subtotal	<u>\$32,096,000</u>	<u>\$38,357,850</u>	<u>\$55,544,860</u>	<u>\$31,739,000</u>	<u>\$37,930,560</u>	<u>\$54,923,200</u>
<b>II. General Government</b>						
(Di) WC - Indemnity	34,334,000	40,170,780	54,247,720	34,049,000	39,877,880	53,964,760
(Dii) WC - Medical	11,800,000	13,806,000	18,644,000	11,733,000	13,727,610	18,538,140
(D) Workers compensation	\$46,134,000	\$53,976,780	\$72,891,720	\$45,782,000	\$53,605,490	\$72,502,900
(E) General liability	568,000	664,560	897,440	564,000	659,880	891,120
(F) Automobile liability	2,207,000	2,582,190	3,487,060	2,197,000	2,570,490	3,471,260
(G) Law enforcement liability	19,083,000	22,899,600	33,586,080	18,866,000	22,639,200	33,204,160
(H) Other liability	17,024,000	20,428,800	29,962,240	16,836,000	20,203,200	29,631,360
(I) Subtotal	<u>\$85,016,000</u>	<u>\$100,551,930</u>	<u>\$140,824,540</u>	<u>\$84,248,000</u>	<u>\$99,827,380</u>	<u>\$139,438,240</u>
<b>Total</b>	<b>\$117,112,000</b>	<b>\$138,909,780</b>	<b>\$196,369,400</b>	<b>\$116,965,000</b>	<b>\$133,462,940</b>	<b>\$181,967,040</b>

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)
<b>1. 2019/20 Payments</b>				
General liability		\$366,217	\$310,855	\$55,362
Automobile liability		245,464	525	244,939
Law enforcement liability		2,062,054	268,300	1,793,754
Other liability		24,342,670	7,681,018	16,661,652
Average		\$6,754,101	\$2,065,175	\$4,688,927
<b>2. 11/30/20 Case Reserves</b>				
General liability		\$1,574,626	\$565,000	\$1,009,626
Automobile liability		10,836,609	0	10,836,609
Law enforcement liability		104,961,684	14,041,150	90,920,534
Other liability		52,611,857	1,750,000	50,861,857
Average		\$42,496,194	\$4,089,038	\$38,407,157
<b>3. 11/30/20 Reported Incurred</b>				
General liability		\$12,367,298	\$2,444,941	\$9,922,357
Automobile liability		45,317,849	2,633,199	42,684,650
Law enforcement liability		255,925,990	36,988,005	218,937,984
Other liability		239,335,718	53,657,327	185,678,391
Average		\$138,236,714	\$23,930,868	\$114,305,846
<b>4. Ratio to Total</b>				
		Payments	30.6%	69.4%
		Case Reserves	9.6%	90.4%
		Reported Incurred	17.3%	82.7%
		Prior	15.0%	85.0%
		Selected	15.0%	85.0%
<b>5. Estimated Outstanding Losses</b>				
<b>Estimated Outstanding Losses as of 11/30/20</b>				
a. General Liability		\$2,254,344	\$338,152	\$1,916,192
b. Automobile Liability		12,629,072	1,894,361	10,734,711
c. Law Enforcement Liability		157,349,848	23,602,477	133,747,371
d. Other Liability		95,898,749	14,384,812	81,513,937
<b>Estimated Outstanding Losses as of 11/30/21</b>				
a. General Liability		\$1,743,885	\$261,583	\$1,482,302
b. Automobile Liability		7,113,433	1,067,015	6,046,418
c. Law Enforcement Liability		154,800,808	23,220,121	131,580,687
d. Other Liability		103,155,566	15,473,335	87,682,231
<b>Estimated Outstanding Losses as of 11/30/22</b>				
a. General Liability		\$1,449,274	\$217,391	\$1,231,883
b. Automobile Liability		5,866,469	879,970	4,986,499
c. Law Enforcement Liability		153,300,659	22,995,099	130,305,560
d. Other Liability		110,329,610	16,549,442	93,780,169
<b>6. Projected Ultimate Losses</b>				
<b>2020/21</b>				
a. General Liability		\$525,000	\$78,750	\$446,250
b. Automobile Liability		2,061,000	309,150	1,751,850
c. Law Enforcement Liability		17,643,000	2,646,450	14,996,550
d. Other Liability		15,739,000	2,360,850	13,378,150
<b>2021/22</b>				
a. General Liability		\$546,000	\$81,900	\$464,100
b. Automobile Liability		2,133,000	319,950	1,813,050
c. Law Enforcement Liability		18,349,000	2,752,350	15,596,650
d. Other Liability		16,369,000	2,455,350	13,913,650
<b>2022/23</b>				
a. General Liability		\$568,000	\$85,200	\$482,800
b. Automobile Liability		2,207,000	331,050	1,875,950
c. Law Enforcement Liability		19,083,000	2,862,450	16,220,550
d. Other Liability		17,024,000	2,553,600	14,470,400



Actual and Projected Paid Losses (\$Millions)

	Actual Limited Paid Losses 2016/17	Actual Limited Paid Losses 2017/18	Actual Limited Paid Losses 2018/19	Actual Limited Paid Losses 2019/20	Average Paid Losses 2016/17 to 2019/20	Projected Paid Losses 2020/21	Projected Paid Losses 2021/22	Projected Paid Losses 2022/23
<b>I. Health Care Facilities</b>								
(Ai) WC - Indemnity	\$2.77	\$2.60	\$2.42	\$2.89	\$2.67	\$4.13	\$4.00	\$3.89
(Aii) WC - Medical	0.75	0.83	0.49	0.95	0.76	2.56	1.93	1.75
(A) Workers compensation	\$3.52	\$3.43	\$2.91	\$3.84	\$3.43	\$6.69	\$5.93	\$5.64
(Bi) Cermak	0.01	1.98	0.91	0.00	0.72	1.40	1.42	1.36
(Bii) John H. Stroger	11.93	22.78	19.59	48.05	25.59	19.93	23.62	21.77
(Biii) Oak Forest	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
(Biv) Provident	3.11	0.99	0.29	0.16	1.13	1.89	2.10	1.43
(Bv) Unspecified	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.02
(B) Medical malpractice	\$15.04	\$25.74	\$20.79	\$48.20	\$27.44	\$23.25	\$27.17	\$24.59
(C) Subtotal	\$18.56	\$29.17	\$23.70	\$52.05	\$30.87	\$29.94	\$33.10	\$30.23
<b>II. General Government</b>								
(Di) WC - Indemnity	21.30	22.44	25.95	29.65	24.84	32.65	32.69	32.99
(Dii) WC - Medical	8.70	7.52	7.65	10.07	8.49	13.35	12.55	12.24
(D) Workers compensation	\$30.01	\$29.96	\$33.60	\$39.73	\$33.32	\$46.00	\$45.24	\$45.23
(E) General liability	0.52	0.06	0.58	0.37	0.38	1.04	0.84	0.61
(F) Automobile liability	3.90	0.30	0.86	0.25	1.33	7.58	3.38	3.03
(G) Law enforcement liability	19.27	12.54	33.12	2.06	16.75	20.19	19.85	19.85
(H) Other liability	1.76	5.73	1.04	24.34	8.22	8.48	9.19	9.87
(I) Subtotal	\$55.47	\$48.59	\$69.20	\$66.74	\$60.00	\$83.29	\$78.50	\$78.59
<b>Total</b>	<b>\$74.03</b>	<b>\$77.77</b>	<b>\$92.90</b>	<b>\$118.79</b>	<b>\$90.87</b>	<b>\$113.23</b>	<b>\$111.60</b>	<b>\$108.82</b>

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 2016/17	Projected Ultimate Limited Losses 2017/18	Projected Ultimate Limited Losses 2018/19	Projected Ultimate Limited Losses 2019/20	Average Ultimate Limited Losses 2016/17 to 2019/20	Projected Ultimate Limited Losses 2020/21	Projected Ultimate Limited Losses 2021/22	Projected Ultimate Limited Losses 2022/23
<b>I. Health Care Facilities</b>								
(Ai) WC - Indemnity	\$3.00	\$2.60	\$4.50	\$4.00	\$3.53	\$3.49	\$3.54	\$3.59
(Aii) WC - Medical	0.89	0.80	2.50	2.00	1.55	1.53	1.59	1.66
(A) Workers compensation	\$3.89	\$3.40	\$7.00	\$6.00	\$5.07	\$5.02	\$5.13	\$5.25
(Bi) Cermak	1.00	0.73	0.85	1.00	0.90	1.48	1.54	1.60
(Bii) John H. Stroger	27.00	22.00	18.00	17.26	21.07	21.76	22.63	23.53
(Biii) Oak Forest	0.01	0.02	0.02	0.03	0.02	0.01	0.01	0.01
(Biv) Provident	4.47	1.00	1.00	1.00	1.87	1.56	1.62	1.69
(Bv) Unspecified	0.01	0.02	0.02	0.03	0.02	0.02	0.02	0.02
(B) Medical malpractice	\$32.49	\$23.76	\$19.89	\$19.31	\$23.86	\$24.83	\$25.82	\$26.85
(C) Subtotal	\$36.38	\$27.16	\$26.89	\$25.31	\$28.94	\$29.84	\$30.95	\$32.10
<b>II. General Government</b>								
(Di) WC - Indemnity	31.80	33.00	34.00	50.00	37.20	33.33	33.83	34.33
(Dii) WC - Medical	10.50	12.70	13.20	17.30	13.43	10.91	11.35	11.80
(D) Workers compensation	\$42.30	\$45.70	\$47.20	\$67.30	\$50.63	\$44.24	\$45.17	\$46.13
(E) General liability	0.53	1.04	0.77	0.40	0.69	0.53	0.55	0.57
(F) Automobile liability	0.64	10.75	1.10	1.00	3.37	2.06	2.13	2.21
(G) Law enforcement liability	21.00	15.00	18.00	18.00	18.00	17.64	18.35	19.08
(H) Other liability	11.00	16.00	15.00	15.50	14.38	15.74	16.37	17.02
(I) Subtotal	\$75.47	\$88.49	\$82.07	\$102.20	\$87.06	\$80.20	\$82.57	\$85.02
<b>Total</b>	<b>\$111.85</b>	<b>\$115.65</b>	<b>\$108.96</b>	<b>\$127.51</b>	<b>\$115.99</b>	<b>\$110.05</b>	<b>\$113.52</b>	<b>\$117.11</b>

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
	2019/20	12,910,728	1,291,073	11,619,655
	Average	\$7,853,316	\$759,523	\$7,093,793
2. Average FY 2001-2020 Loss Payments		\$39,958,841	\$23,743,295	\$16,215,545
3. Ratio of Expense Payments to Loss Payments (Section 1 / Section 2)		Actual	3.20%	43.75%
		Prior	2.90%	43.00%
		Selected	2.90%	43.00%
4. Case Reserves as of 11/30/20		\$255,524,776	\$85,540,000	\$169,984,776
5. IBNR Reserves as of 11/30/20		151,748,525	53,601,286	98,147,239
6. Estimated Undiscounted Expense Reserves as of 11/30/20		81,544,807	2,794,767	78,750,040
7. Discount Factor		0.993	0.994	0.993
8. Estimated Discounted Expense Reserves as of 11/30/20		80,982,829	2,777,688	78,205,141
9. Estimated Outstanding Losses as of 11/30/21		407,532,363	140,718,671	266,813,692
9a. Estimated Case Reserves as of 11/30/21		255,658,743	86,509,730	169,149,013
9b. Estimated IBNR Reserves as of 11/30/21		151,873,620	54,208,941	97,664,679
10. Estimated Undiscounted Expense Reserves as of 11/30/21		81,189,300	2,826,450	78,362,850
11. Estimated Discounted Expense Reserves as of 11/30/21		80,629,808	2,809,178	77,820,630
12. Estimated Outstanding Losses as of 11/30/22		410,311,638	139,365,626	270,946,012
12a. Estimated Case Reserves as of 11/30/22		257,446,653	85,677,918	171,768,736
12b. Estimated IBNR Reserves as of 11/30/22		152,864,985	53,687,708	99,177,276
13. Estimated Undiscounted Expense Reserves as of 11/30/22		82,375,780	2,799,273	79,576,507
14. Estimated Discounted Expense Reserves as of 11/30/22		81,808,056	2,782,167	79,025,889

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, 2020

Claim Period (1)	Limited Paid Losses 11/30/20 (2)	Limited Case Reserves 11/30/20 (3)	Limited Reported Incurred Losses 11/30/20 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/20 (5)-(4) (6)	Estimated Outstanding Losses 11/30/20 (3) + (6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/20 (7) x (8) (9)
to 2000/01	\$333,622,424	\$0	\$333,622,424	\$333,622,424	\$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	35,597,600	0	35,597,600	35,597,600	0	0	1.00	0
2005/06	25,370,000	0	25,370,000	25,370,000	0	0	1.00	0
2006/07	4,752,500	100,000	4,852,500	4,862,500	10,000	110,000	1.00	109,826
2007/08	8,302,000	0	8,302,000	8,302,000	0	0	1.00	0
2008/09	8,380,000	500,000	8,880,000	8,975,000	95,000	595,000	1.00	593,488
2009/10	11,202,500	0	11,202,500	11,202,500	0	0	1.00	0
2010/11	10,718,000	100,000	10,818,000	11,003,000	185,000	285,000	1.00	284,069
2011/12	37,293,999	6,350,000	43,643,999	44,825,000	1,181,001	7,531,001	1.00	7,503,828
2012/13	61,315,000	1,700,000	63,015,000	63,741,000	726,000	2,426,000	1.00	2,417,604
2013/14	2,050,000	650,000	2,700,000	2,925,000	225,000	875,000	1.00	871,875
2014/15	9,931,715	19,550,000	29,481,715	32,110,000	2,628,285	22,178,285	1.00	22,082,385
2015/16	5,075,000	8,855,000	13,930,000	17,163,000	3,233,000	12,088,000	1.00	12,037,496
2016/17	2,400,000	25,600,000	28,000,000	32,493,000	4,493,000	30,093,000	0.99	29,940,031
2017/18	0	16,980,000	16,980,000	23,760,000	6,780,000	23,760,000	0.99	23,606,932
2018/19	0	5,155,000	5,155,000	19,890,000	14,735,000	19,890,000	0.99	19,727,509
2019/20	0	0	0	19,310,000	19,310,000	19,310,000	0.99	19,115,942
<b>Total</b>	<b>\$628,441,923</b>	<b>\$85,540,000</b>	<b>\$713,981,923</b>	<b>\$767,583,209</b>	<b>\$53,601,286</b>	<b>\$139,141,286</b>		<b>\$138,290,985</b>

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)
<b>I. Actual Payments</b>					
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
2019/20	43,569,284	25,516,404	24,455,000	25,250,000	118,790,688
<b>II. Estimated Future Payments</b>					
2020/21	52,694,803	37,286,321	23,247,615		113,228,739
2021/22	51,161,195	33,264,680	27,172,045		111,597,920
2022/23	50,869,809	33,360,020	24,587,724		108,817,553

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 11/30/19 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Estimated Outstanding Losses 11/30/19 (6) - (9)	Estimated Outstanding Losses 11/30/20 (7) - (10)	Projected Ultimate Limited Losses 11/30/19 (6)	Projected Ultimate Limited Losses 11/30/20 (7)	Change in Ultimate (7) - (6) (8)	Percentage Change in Ultimate (7) / (6) - 1 (9)	Limited Paid Losses 11/30/19 (10)	Limited Paid Losses 11/30/20 (11)	Limited Case Reserves 11/30/19 (2) - (10) (12)	Limited Case Reserves 11/30/20 (3) - (11) (13)	Estimated IBNR 11/30/19 (4)-(12) (14)	Estimated IBNR 11/30/20 (5)-(13) (15)
<b>A. Health Care Facilities</b>														
(Ai) WC - Indemnity	\$95,372	\$100,123	\$17,778	\$18,383	\$105,049	\$105,380	\$332	0.3%	\$84,108	\$86,998	\$11,264	\$13,125	\$6,514	\$5,257
(Aii) WC - Medical	29,645	31,971	4,486	6,061	31,600	32,912	1,312	4.2%	25,900	26,851	3,746	5,120	741	941
(Bi) Cermak	26,212	26,212	7,154	7,147	31,032	29,359	(1,673)	-5.4%	22,212	22,212	4,000	4,000	3,154	3,147
(Bii) John H. Stroger	549,662	577,311	133,381	122,251	603,966	623,622	19,656	3.3%	453,321	501,371	96,341	75,940	37,041	46,311
(Biii) Oak Forest	28,200	28,200	90	70	28,306	28,270	(36)	-0.1%	28,200	28,200	-	-	90	70
(Biv) Provident	36,375	36,275	9,710	9,539	42,003	40,264	(1,739)	-4.1%	30,570	30,725	5,805	5,550	3,905	3,989
(Bv) Unspecified	45,984	45,984	127	134	46,080	46,068	(12)	0.0%	45,934	45,934	50	50	77	84
<b>B. General Government</b>														
(Ei) WC - Indemnity	349,180	392,313	96,726	127,467	417,748	449,128	31,380	7.5%	292,007	321,661	57,173	70,653	39,553	56,815
(Eii) WC - Medical	154,881	170,335	34,168	39,963	171,973	177,733	5,760	3.3%	127,695	137,770	27,185	32,566	6,983	7,398
(F) General liability	11,548	12,367	1,749	2,254	12,627	13,047	420	3.3%	10,426	10,793	1,122	1,575	627	680
(G) Automobile liability	38,899	45,318	6,460	12,629	42,804	47,110	4,306	10.1%	34,236	34,481	4,663	10,837	1,796	1,792
(H) Law enforcement liat	220,647	255,926	101,095	157,350	266,310	308,314	42,004	15.8%	148,902	150,964	71,745	104,962	29,350	52,388
(I) Other liability	238,954	239,336	118,739	95,899	297,990	282,623	(15,367)	-5.2%	162,382	186,724	76,572	52,612	42,167	43,287
<b>Total</b>	<b>\$1,825,558</b>	<b>\$1,961,672</b>	<b>\$531,663</b>	<b>\$599,148</b>	<b>\$2,097,488</b>	<b>\$2,183,831</b>	<b>\$86,343</b>	<b>4.1%</b>	<b>\$1,465,892</b>	<b>\$1,584,683</b>	<b>\$359,666</b>	<b>\$376,989</b>	<b>\$171,997</b>	<b>\$222,159</b>

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 11/30/19 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Estimated Outstanding Losses 11/30/19 (6) - (9)	Estimated Outstanding Losses 11/30/20 (7) - (10)	Projected Ultimate Limited Losses 11/30/19 (6)	Projected Ultimate Limited Losses 11/30/20 (7)	Change in Ultimate (7) - (6) (8)	Percentage Change in Ultimate (7) / (6) - 1 (9)	Limited Paid Losses 11/30/19 (10)	Limited Paid Losses 11/30/20 (11)	Limited Case Reserves 11/30/19 (2) - (10) (12)	Limited Case Reserves 11/30/20 (3) - (11) (13)	Estimated IBNR 11/30/19 (4)-(12) (14)	Estimated IBNR 11/30/20 (5)-(13) (15)
to 2000/01	\$655,316	\$677,223	\$23,421	\$51,063	\$656,019	\$684,159	\$28,140	4.3%	\$632,599	\$633,096	\$22,717	\$44,127	\$704	\$6,936
2001/02	55,496	55,121	785	4	55,575	55,122	(453)	-0.8%	54,790	55,118	707	3	79	1
2002/03	30,528	34,575	289	4,332	30,582	34,695	4,114	13.5%	30,293	30,364	236	4,211	53	120
2003/04	124,263	125,168	1,091	1,555	124,408	125,329	921	0.7%	123,317	123,774	946	1,394	145	161
2004/05	76,500	77,780	23,506	2,898	76,818	78,213	1,396	1.8%	53,312	75,316	23,188	2,464	318	434
2005/06	49,467	50,230	2,925	2,407	50,061	50,617	556	1.1%	47,136	48,211	2,330	2,020	594	387
2006/07	38,264	38,474	4,497	4,226	38,657	38,714	57	0.1%	34,160	34,488	4,104	3,986	393	241
2007/08	49,919	50,191	2,420	2,249	50,575	50,742	167	0.3%	48,154	48,492	1,764	1,698	656	551
2008/09	44,640	45,103	7,141	7,153	45,447	45,657	210	0.5%	38,305	38,504	6,334	6,599	807	554
2009/10	50,229	50,648	2,624	2,448	51,069	51,255	186	0.4%	48,445	48,807	1,784	1,841	841	608
2010/11	65,019	68,262	3,790	6,498	66,327	69,235	2,908	4.4%	62,537	62,737	2,482	5,525	1,308	973
2011/12	68,028	75,193	6,676	13,317	70,625	77,653	7,028	10.0%	63,949	64,336	4,079	10,857	2,597	2,460
2012/13	105,267	102,941	45,058	15,822	109,582	107,098	(2,484)	-2.3%	64,525	91,277	40,743	11,664	4,315	4,158
2013/14	66,447	64,495	41,969	32,876	76,476	69,638	(6,838)	-8.9%	34,507	36,762	31,940	27,733	10,029	5,143
2014/15	91,715	79,525	72,986	38,244	101,444	89,214	(12,230)	-12.1%	28,458	50,970	63,256	28,555	9,730	9,690
2015/16	77,564	80,495	52,832	48,654	91,349	92,518	1,170	1.3%	38,516	43,864	39,048	36,631	13,784	12,023
2016/17	73,868	93,577	67,067	74,327	97,532	111,848	14,316	14.7%	30,465	37,521	43,403	56,057	23,664	18,271
2017/18	63,716	88,782	77,519	84,767	101,971	115,652	13,681	13.4%	24,452	30,885	39,264	57,896	38,255	26,870
2018/19	39,314	56,272	95,067	88,497	103,038	108,960	5,922	5.7%	7,971	20,463	31,342	35,809	63,724	52,688
2019/20		47,620		117,811	99,933	127,510	27,577	27.6%		9,699		37,921		79,890
<b>Total</b>	<b>\$1,825,558</b>	<b>\$1,961,672</b>	<b>\$531,663</b>	<b>\$599,148</b>	<b>\$2,097,488</b>	<b>\$2,183,831</b>	<b>\$86,343</b>	<b>4.1%</b>	<b>\$1,465,892</b>	<b>\$1,584,683</b>	<b>\$359,666</b>	<b>\$376,989</b>	<b>\$171,997</b>	<b>\$222,159</b>
Total (ex FY20)	\$1,825,558	\$1,914,052	\$531,663	\$481,337	\$1,997,555	\$2,056,321	\$58,766	2.9%	\$1,465,892	\$1,574,984	\$359,666	\$339,068	\$171,997	\$142,269

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Estimated Outstanding Losses 11/30/19 (6) - (9) (4)	Estimated Outstanding Losses 11/30/20 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/19 (6)	Projected Ultimate Limited Losses 11/30/20 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/19 (9)	Limited Paid Losses 11/30/20 (10)	Limited Case Reserves 11/30/19 (2) - (9) (11)	Limited Case Reserves 11/30/20 (3) - (10) (12)	Estimated IBNR 11/30/19 (4)-(11) (13)	Estimated IBNR 11/30/20 (5)-(12) (14)
to 2000/01	\$56,086	\$56,176	\$5,200	\$5,013	\$56,536	\$56,590	\$54	\$51,336	\$51,577	\$4,751	\$4,599	\$449	\$414
2001/02	1,190	1,190	4	4	1,191	1,191	0	1,187	1,187	3	3	1	1
2002/03	3,013	3,013	50	27	3,025	3,020	(5)	2,975	2,993	38	20	12	7
2003/04	1,967	1,967	145	130	2,003	1,990	(13)	1,858	1,860	108	108	36	23
2004/05	3,181	3,183	751	739	3,275	3,275	0	2,524	2,536	657	647	94	92
2005/06	1,743	1,739	5	(0)	1,744	1,739	(5)	1,739	1,739	3	0	1	(0)
2006/07	2,102	2,102	22	22	2,109	2,109	0	2,087	2,087	15	15	7	7
2007/08	1,973	1,980	137	135	2,020	2,020	0	1,883	1,885	90	95	47	40
2008/09	2,127	2,128	126	80	2,174	2,155	(19)	2,048	2,075	80	53	47	27
2009/10	2,407	2,409	580	408	2,626	2,530	(96)	2,046	2,122	361	287	219	121
2010/11	1,940	1,940	278	269	2,000	2,000	0	1,722	1,731	218	209	60	60
2011/12	2,302	2,314	307	242	2,408	2,376	(32)	2,101	2,134	201	180	106	62
2012/13	2,955	2,976	601	166	3,178	3,050	(128)	2,577	2,884	378	91	223	74
2013/14	2,548	2,528	529	394	2,746	2,675	(71)	2,217	2,281	331	247	198	147
2014/15	1,742	1,695	690	415	2,051	1,840	(211)	1,361	1,425	381	270	309	145
2015/16	2,210	2,350	1,089	823	2,780	2,720	(60)	1,691	1,897	519	453	570	370
2016/17	2,114	2,395	1,601	1,150	2,990	3,000	10	1,389	1,850	726	545	876	605
2017/18	1,793	1,819	2,016	1,381	3,030	2,600	(430)	1,014	1,219	780	600	1,237	781
2018/19	1,980	3,858	3,647	3,404	4,000	4,500	500	353	1,096	1,626	2,762	2,020	642
2019/20		2,362		3,580	3,163	4,000	837		420		1,942		1,638
Total	\$95,372	\$100,123	\$17,778	\$18,383	\$105,049	\$105,380	\$332	\$84,108	\$86,998	\$11,264	\$13,125	\$6,514	\$5,257
Total (ex FY20)	\$95,372	\$97,761	\$17,778	\$14,803	\$101,886	\$101,380	(\$505)	\$84,108	\$86,578	\$11,264	\$11,183	\$6,514	\$3,619



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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Estimated Outstanding Losses 11/30/19 (6) - (9) (4)	Estimated Outstanding Losses 11/30/20 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/19 (6)	Projected Ultimate Limited Losses 11/30/20 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/19 (9)	Limited Paid Losses 11/30/20 (10)	Limited Case Reserves 11/30/19 (2) - (9) (11)	Limited Case Reserves 11/30/20 (3) - (10) (12)	Estimated IBNR 11/30/19 (4)-(11) (13)	Estimated IBNR 11/30/20 (5)-(12) (14)
to 2000/01	\$13,402	\$13,352	\$430	\$370	\$13,426	\$13,390	(\$36)	\$12,995	\$13,020	\$407	\$332	\$23	\$38
2001/02	620	620	1	1	621	621	0	620	620	0	0	1	1
2002/03	919	919	20	20	919	919	0	899	899	20	20	0	0
2003/04	1,328	1,328	112	110	1,328	1,328	0	1,216	1,218	112	110	0	0
2004/05	1,317	1,317	62	56	1,317	1,317	(0)	1,255	1,261	62	56	0	(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	751	751	4	4	751	751	0	747	747	4	4	0	0
2008/09	696	698	9	8	697	698	1	688	690	9	8	1	0
2009/10	777	777	56	49	782	780	(2)	726	731	51	46	5	3
2010/11	691	691	28	27	694	694	0	666	667	25	25	3	3
2011/12	1,033	1,027	76	63	1,052	1,040	(12)	976	977	57	51	19	13
2012/13	1,228	1,319	289	212	1,270	1,340	70	981	1,128	247	191	42	21
2013/14	698	685	69	47	712	695	(17)	643	648	55	37	14	10
2014/15	527	566	151	88	550	570	20	399	482	128	84	23	4
2015/16	882	867	307	197	923	890	(33)	616	693	266	174	41	23
2016/17	931	848	630	425	989	890	(99)	359	465	572	382	58	42
2017/18	801	716	692	437	991	800	(191)	299	363	502	352	190	84
2018/19	1,354	2,285	1,549	2,092	1,675	2,500	825	126	408	1,228	1,877	321	215
2019/20		1,516		1,856	1,214	2,000	786		144		1,372		484
Total	\$29,645	\$31,971	\$4,486	\$6,061	\$31,600	\$32,912	\$1,312	\$25,900	\$26,851	\$3,746	\$5,120	\$741	\$941
Total (ex FY20)	\$29,645	\$30,455	\$4,486	\$4,205	\$30,386	\$30,912	\$526	\$25,900	\$26,707	\$3,746	\$3,748	\$741	\$457

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Estimated Outstanding Losses 11/30/19 (6) - (9)	Estimated Outstanding Losses 11/30/20 (7) - (10)	Projected Ultimate Limited Losses 11/30/19 (6)	Projected Ultimate Limited Losses 11/30/20 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/19 (9)	Limited Paid Losses 11/30/20 (10)	Limited Case Reserves 11/30/19 (2) - (9) (11)	Limited Case Reserves 11/30/20 (3) - (10) (12)	Estimated IBNR 11/30/19 (4)-(11) (13)	Estimated IBNR 11/30/20 (5)-(12) (14)
to 2000/01	\$12,012	\$12,012	\$0	\$0	\$12,012	\$12,012	\$0	\$12,012	\$12,012	\$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	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	3,041	3,041	3,209	3,209	3,250	3,250	0	41	41	3,000	3,000	209	209
2015/16	2,955	2,955	1,345	1,258	3,300	3,213	(87)	1,955	1,955	1,000	1,000	345	258
2016/17	900	900	600	100	1,500	1,000	(500)	900	900	0	0	600	100
2017/18	0	0	1,000	730	1,000	730	(270)	0	0	0	0	1,000	730
2018/19	0	0	1,000	850	1,000	850	(150)	0	0	0	0	1,000	850
2019/20	0	0	0	1,000	1,666	1,000	(666)	0	0	0	0	0	1,000
Total	\$26,212	\$26,212	\$7,154	\$7,147	\$31,032	\$29,359	(\$1,673)	\$22,212	\$22,212	\$4,000	\$4,000	\$3,154	\$3,147
Total (ex FY20)	\$26,212	\$26,212	\$7,154	\$6,147	\$29,366	\$28,359	(\$1,007)	\$22,212	\$22,212	\$4,000	\$4,000	\$3,154	\$2,147

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Estimated Outstanding Losses 11/30/19 (6) - (9) (4)	Estimated Outstanding Losses 11/30/20 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/19 (6)	Projected Ultimate Limited Losses 11/30/20 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/19 (9)	Limited Paid Losses 11/30/20 (10)	Limited Case Reserves 11/30/19 (2) - (9) (11)	Limited Case Reserves 11/30/20 (3) - (10) (12)	Estimated IBNR (4)-(11) (13)	Estimated IBNR (5)-(12) (14)
to 2000/01	\$259,882	\$259,882	\$0	\$0	\$259,882	\$259,882	\$0	\$259,882	\$259,882	\$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	33,607	33,607	14,000	0	33,607	33,607	0	19,607	33,607	14,000	0	0	0
2005/06	23,325	23,325	825	0	23,400	23,325	(75)	22,575	23,325	750	0	75	0
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	8,405	0	595	7,905	8,500	595	7,905	7,905	0	500	0	95
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	10,815	0	285	10,715	11,000	285	10,715	10,715	0	100	0	185
2011/12	36,219	41,819	976	7,531	36,445	43,000	6,555	35,469	35,469	750	6,350	226	1,181
2012/13	67,540	60,340	33,610	360	68,000	60,500	(7,500)	34,390	60,140	33,150	200	460	160
2013/14	2,275	2,275	5,375	875	7,000	2,500	(4,500)	1,625	1,625	650	650	4,725	225
2014/15	35,060	26,390	33,075	18,910	37,000	28,800	(8,200)	3,925	9,890	31,135	16,500	1,940	2,410
2015/16	7,090	8,030	9,910	10,825	10,000	11,000	1,000	90	175	7,000	7,855	2,910	2,970
2016/17	4,901	23,050	11,000	25,500	11,000	27,000	16,000	0	1,500	4,901	21,550	6,100	3,950
2017/18	3,855	16,980	12,000	22,000	12,000	22,000	10,000	0	0	3,855	16,980	8,145	5,020
2018/19	50	5,155	12,500	18,000	12,500	18,000	5,500	0	0	50	5,155	12,450	12,845
2019/20		0		17,260	17,264	17,260	(4)		0		0		17,260
Total	\$549,662	\$577,311	\$133,381	\$122,251	\$603,966	\$623,622	\$19,656	\$453,321	\$501,371	\$96,341	\$75,940	\$37,041	\$46,311
Total (ex FY20)	\$549,662	\$577,311	\$133,381	\$104,991	\$586,702	\$606,362	\$19,660	\$453,321	\$501,371	\$96,341	\$75,940	\$37,041	\$29,051

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Estimated Outstanding Losses 11/30/19 (6) - (9)	Estimated Outstanding Losses 11/30/20 (7) - (10)	Projected Ultimate Limited Losses 11/30/19 (6)	Projected Ultimate Limited Losses 11/30/20 (7)	Change in Ultimate (7) - (6)	Limited Paid Losses 11/30/19 (9)	Limited Paid Losses 11/30/20 (10)	Limited Case Reserves 11/30/19 (2) - (9)	Limited Case Reserves 11/30/20 (3) - (10)	Estimated IBNR (4)-(11)	Estimated IBNR (5)-(12)
to 2000/01	\$3,980	\$3,980	\$0	\$0	\$3,980	\$3,980	\$0	\$3,980	\$3,980	\$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	0	0	0	0	0	0	0	0	0	0	0
2015/16	0	0	15	0	15	0	(15)	0	0	0	0	15	0
2016/17	0	0	20	10	20	10	(10)	0	0	0	0	20	10
2017/18	0	0	25	15	25	15	(10)	0	0	0	0	25	15
2018/19	0	0	30	20	30	20	(10)	0	0	0	0	30	20
2019/20	0	0	0	25	16	25	9	0	0	0	0	0	25
Total	\$28,200	\$28,200	\$90	\$70	\$28,306	\$28,270	(\$36)	\$28,200	\$28,200	\$0	\$0	\$90	\$70
Total (ex FY20)	\$28,200	\$28,200	\$90	\$45	\$28,290	\$28,245	(\$45)	\$28,200	\$28,200	\$0	\$0	\$90	\$45

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Estimated Outstanding Losses 11/30/19 (6) - (9)	Estimated Outstanding Losses 11/30/20 (7) - (10)	Projected Ultimate Limited Losses 11/30/19 (6)	Projected Ultimate Limited Losses 11/30/20 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/19 (9)	Limited Paid Losses 11/30/20 (10)	Limited Case Reserves 11/30/19 (2) - (9) (11)	Limited Case Reserves 11/30/20 (3) - (10) (12)	Estimated IBNR 11/30/19 (4)-(11) (13)	Estimated IBNR 11/30/20 (5)-(12) (14)
to 2000/01	\$13,365	\$13,365	\$0	\$0	\$13,365	\$13,365	\$0	\$13,365	\$13,365	\$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	0	0	1,815	1,815	0	1,815	1,815	0	0	0	0
2012/13	2,675	2,675	1,725	2,066	2,900	3,241	341	1,175	1,175	1,500	1,500	225	566
2013/14	425	425	0	0	425	425	0	425	425	0	0	0	0
2014/15	0	0	275	0	275	0	(275)	0	0	0	0	275	0
2015/16	2,945	2,945	1,210	0	4,000	2,945	(1,055)	2,790	2,945	155	0	1,055	0
2016/17	4,050	4,050	4,500	4,473	4,500	4,473	(27)	0	0	4,050	4,050	450	423
2017/18	100	0	1,000	1,000	1,000	1,000	0	0	0	100	0	900	1,000
2018/19	0	0	1,000	1,000	1,000	1,000	0	0	0	0	0	1,000	1,000
2019/20	0	0	0	1,000	1,723	1,000	(723)	0	0	0	0	0	1,000
Total	\$36,375	\$36,275	\$9,710	\$9,539	\$42,003	\$40,264	(\$1,739)	\$30,570	\$30,725	\$5,805	\$5,550	\$3,905	\$3,989
Total (ex FY20)	\$36,375	\$36,275	\$9,710	\$8,539	\$40,280	\$39,264	(\$1,016)	\$30,570	\$30,725	\$5,805	\$5,550	\$3,905	\$2,989

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Estimated Outstanding Losses 11/30/19 (6) - (9) (4)	Estimated Outstanding Losses 11/30/20 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/19 (6)	Projected Ultimate Limited Losses 11/30/20 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/19 (9)	Limited Paid Losses 11/30/20 (10)	Limited Case Reserves 11/30/19 (2) - (9) (11)	Limited Case Reserves 11/30/20 (3) - (10) (12)	Estimated IBNR 11/30/19 (4)-(11) (13)	Estimated IBNR 11/30/20 (5)-(12) (14)
to 2000/01	\$44,383	\$44,383	\$0	\$0	\$44,383	\$44,383	\$0	\$44,383	\$44,383	\$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	51	51	74	59	75	60	(15)	1	1	50	50	24	9
2015/16	0	0	8	5	8	5	(3)	0	0	0	0	8	5
2016/17	0	0	10	10	10	10	0	0	0	0	0	10	10
2017/18	0	0	15	15	15	15	0	0	0	0	0	15	15
2018/19	0	0	20	20	20	20	0	0	0	0	0	20	20
2019/20	0	0	0	25	19	25	6	0	0	0	0	0	25
Total	\$45,984	\$45,984	\$127	\$134	\$46,080	\$46,068	(\$12)	\$45,934	\$45,934	\$50	\$50	\$77	\$84
Total (ex FY20)	\$45,984	\$45,984	\$127	\$109	\$46,061	\$46,043	(\$18)	\$45,934	\$45,934	\$50	\$50	\$77	\$59



COOK COUNTY, ILLINOIS  
WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)

Summary Exhibit 19

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Estimated Outstanding Losses 11/30/19 (6) - (9)	Estimated Outstanding Losses 11/30/20 (7) - (10)	Projected Ultimate Limited Losses 11/30/19 (6)	Projected Ultimate Limited Losses 11/30/20 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/19 (9)	Limited Paid Losses 11/30/20 (10)	Limited Case Reserves 11/30/19 (2) - (9) (11)	Limited Case Reserves 11/30/20 (3) - (10) (12)	Estimated IBNR 11/30/19 (4)-(11) (13)	Estimated IBNR 11/30/20 (5)-(12) (14)
to 2000/01	\$87,680	\$87,553	\$2,411	\$2,022	\$87,832	\$87,666	(\$166)	\$85,421	\$85,644	\$2,259	\$1,909	\$152	\$113
2001/02	9,005	8,632	754	0	9,080	8,632	(448)	8,326	8,632	680	0	75	0
2002/03	8,393	8,393	186	165	8,431	8,417	(14)	8,245	8,252	148	142	38	24
2003/04	8,794	9,637	738	1,228	8,893	9,755	862	8,155	8,527	639	1,111	99	118
2004/05	9,155	9,764	802	1,280	9,287	9,897	610	8,485	8,617	670	1,147	132	133
2005/06	9,131	9,619	253	610	9,308	9,709	401	9,055	9,099	76	520	177	90
2006/07	11,878	11,925	480	226	12,072	11,973	(99)	11,592	11,747	286	178	194	48
2007/08	17,426	17,672	860	715	17,744	17,866	122	16,884	17,151	541	521	318	194
2008/09	14,471	14,785	831	919	14,807	15,045	238	13,976	14,126	495	660	336	260
2009/10	13,741	13,992	1,514	1,536	14,202	14,300	98	12,688	12,764	1,053	1,228	461	308
2010/11	11,746	11,991	1,443	1,519	12,135	12,300	165	10,692	10,781	1,055	1,211	389	309
2011/12	13,302	14,124	1,672	1,698	14,215	14,580	365	12,543	12,882	760	1,242	913	456
2012/13	12,532	12,618	4,076	3,492	13,921	13,800	(121)	9,845	10,308	2,687	2,310	1,389	1,182
2013/14	14,591	15,472	4,111	3,371	15,838	16,288	450	11,727	12,917	2,865	2,555	1,247	816
2014/15	17,324	17,517	7,006	4,976	20,521	20,000	(521)	13,515	15,024	3,808	2,493	3,197	2,483
2015/16	24,086	26,094	10,260	9,981	28,115	30,100	1,985	17,855	20,119	6,230	5,976	4,029	4,006
2016/17	23,274	25,749	14,049	12,830	29,527	31,800	2,273	15,478	18,970	7,796	6,779	6,253	6,051
2017/18	23,275	28,332	17,471	16,146	29,727	33,000	3,273	12,256	16,854	11,018	11,478	6,452	4,668
2018/19	19,377	23,191	27,808	21,576	33,078	34,000	922	5,270	12,424	14,107	10,767	13,701	10,809
2019/20		25,251		43,176	29,015	50,000	20,985		6,824		18,427		24,749
Total	\$349,180	\$392,313	\$96,726	\$127,467	\$417,748	\$449,128	\$31,380	\$292,007	\$321,661	\$57,173	\$70,653	\$39,553	\$56,815
Total (ex FY20)	\$349,180	\$367,062	\$96,726	\$84,291	\$388,733	\$399,128	\$10,395	\$292,007	\$314,837	\$57,173	\$52,226	\$39,553	\$32,065

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Estimated Outstanding Losses 11/30/19 (6) - (9) (4)	Estimated Outstanding Losses 11/30/20 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/19 (6)	Projected Ultimate Limited Losses 11/30/20 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/19 (9)	Limited Paid Losses 11/30/20 (10)	Limited Case Reserves 11/30/19 (2) - (9) (11)	Limited Case Reserves 11/30/20 (3) - (10) (12)	Estimated IBNR 11/30/19 (4)-(11) (13)	Estimated IBNR 11/30/20 (5)-(12) (14)
to 2000/01	\$32,076	\$32,072	\$330	\$354	\$32,106	\$32,139	\$33	\$31,776	\$31,785	\$300	\$287	\$30	\$67
2001/02	4,040	4,038	27	0	4,043	4,038	(5)	4,016	4,038	24	0	3	0
2002/03	4,130	4,177	33	43	4,133	4,190	57	4,100	4,147	30	30	3	13
2003/04	3,808	3,867	96	86	3,816	3,888	72	3,721	3,802	87	65	9	21
2004/05	11,665	12,360	26	468	11,668	12,463	795	11,642	11,995	24	364	3	103
2005/06	3,984	4,204	1	16	3,985	4,220	235	3,984	4,204	1	0	1	16
2006/07	4,745	4,907	92	108	4,756	4,944	188	4,664	4,836	81	71	11	37
2007/08	6,195	6,214	152	127	6,217	6,262	45	6,065	6,135	130	79	22	48
2008/09	6,584	6,631	158	233	6,609	6,704	95	6,451	6,471	133	160	25	73
2009/10	6,486	6,677	236	260	6,530	6,758	228	6,294	6,498	192	178	44	81
2010/11	5,085	5,176	543	499	5,192	5,250	58	4,649	4,751	435	425	107	74
2011/12	4,667	4,560	353	241	4,737	4,640	(97)	4,384	4,399	283	161	70	80
2012/13	4,597	4,582	549	504	4,695	4,695	0	4,146	4,191	451	391	98	113
2013/14	6,428	6,483	2,399	2,113	6,860	6,860	0	4,461	4,747	1,967	1,736	432	377
2014/15	6,342	6,238	1,956	1,507	6,679	6,582	(97)	4,723	5,075	1,618	1,163	337	344
2015/16	10,345	9,900	3,044	2,176	10,918	10,400	(518)	7,874	8,224	2,471	1,676	573	500
2016/17	10,333	9,896	4,180	2,535	11,351	10,500	(851)	7,171	7,965	3,162	1,931	1,018	604
2017/18	11,382	11,825	7,445	6,010	12,933	12,700	(233)	5,488	6,690	5,894	5,135	1,551	875
2018/19	11,988	11,550	12,551	7,624	14,635	13,200	(1,435)	2,084	5,576	9,903	5,973	2,647	1,650
2019/20		14,980		15,060	10,110	17,300	7,190		2,240		12,741		2,320
Total	\$154,881	\$170,335	\$34,168	\$39,963	\$171,973	\$177,733	\$5,760	\$127,695	\$137,770	\$27,185	\$32,566	\$6,983	\$7,398
Total (ex FY20)	\$154,881	\$155,355	\$34,168	\$24,903	\$161,863	\$160,433	(\$1,430)	\$127,695	\$135,530	\$27,185	\$19,825	\$6,983	\$5,078



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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Estimated Outstanding Losses 11/30/19 (6) - (9) (4)	Estimated Outstanding Losses 11/30/20 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/19 (6)	Projected Ultimate Limited Losses 11/30/20 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/19 (9)	Limited Paid Losses 11/30/20 (10)	Limited Case Reserves 11/30/19 (2) - (9) (11)	Limited Case Reserves 11/30/20 (3) - (10) (12)	Estimated IBNR 11/30/19 (4)-(11) (13)	Estimated IBNR 11/30/20 (5)-(12) (14)
to 2000/01	\$6,388	\$6,388	\$0	\$0	\$6,388	\$6,388	\$0	\$6,388	\$6,388	\$0	\$0	\$0	\$0
2001/02	265	265	0	0	265	265	0	265	265	0	0	0	0
2002/03	432	432	0	0	432	432	0	432	432	0	0	0	0
2003/04	40	40	0	0	40	40	0	40	40	0	0	0	0
2004/05	236	236	0	0	236	236	0	236	236	0	0	0	0
2005/06	152	152	0	0	152	152	0	152	152	0	0	0	0
2006/07	112	112	0	0	112	112	0	112	112	0	0	0	0
2007/08	538	538	0	0	538	538	0	538	538	0	0	0	0
2008/09	195	195	0	0	195	195	0	195	195	0	0	0	0
2009/10	325	325	0	0	325	325	0	325	325	0	0	0	0
2010/11	154	154	0	0	154	154	0	154	154	0	0	0	0
2011/12	147	147	0	0	147	147	0	147	147	0	0	0	0
2012/13	370	370	0	0	370	370	0	370	370	0	0	0	0
2013/14	259	259	0	0	259	259	0	259	259	0	0	0	0
2014/15	373	373	0	0	373	373	0	373	373	0	0	0	0
2015/16	308	308	180	160	338	318	(20)	158	158	150	150	30	10
2016/17	244	494	226	151	300	530	230	74	379	170	115	56	36
2017/18	814	966	905	895	1,050	1,042	(8)	145	147	669	819	236	76
2018/19	195	572	438	689	500	770	270	62	81	133	490	305	198
2019/20		40		360	452	400	(52)		40		1		360
Total	\$ 11,548	\$ 12,367	\$ 1,749	\$ 2,254	\$ 12,627	\$ 13,047	\$ 420	\$ 10,426	\$ 10,793	\$ 1,122	\$ 1,575	\$ 627	\$ 680
Total (ex FY20)	\$ 11,548	\$ 12,327	\$ 1,749	\$ 1,894	\$ 12,175	\$ 12,647	\$ 472	\$ 10,426	\$ 10,753	\$ 1,122	\$ 1,574	\$ 627	\$ 320

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Estimated Outstanding Losses 11/30/19 (6) - (9)	Estimated Outstanding Losses 11/30/20 (7) - (10)	Projected Ultimate Limited Losses 11/30/19 (6)	Projected Ultimate Limited Losses 11/30/20 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/19 (9)	Limited Paid Losses 11/30/20 (10)	Limited Case Reserves 11/30/19 (2) - (9) (11)	Limited Case Reserves 11/30/20 (3) - (10) (12)	Estimated IBNR 11/30/19 (4)-(11) (13)	Estimated IBNR 11/30/20 (5)-(12) (14)
to 2000/01	\$13,250	\$13,250	\$0	\$0	\$13,250	\$13,250	\$0	\$13,250	\$13,250	\$0	\$0	\$0	\$0
2001/02	2,524	2,524	0	0	2,524	2,524	0	2,524	2,524	0	0	0	0
2002/03	234	234	0	0	234	234	0	234	234	0	0	0	0
2003/04	431	431	0	0	431	431	0	431	431	0	0	0	0
2004/05	2,857	2,857	0	0	2,857	2,857	0	2,857	2,857	0	0	0	0
2005/06	201	201	0	0	201	201	0	201	201	0	0	0	0
2006/07	653	653	0	0	653	653	0	653	653	0	0	0	0
2007/08	150	150	0	0	150	150	0	150	150	0	0	0	0
2008/09	192	192	0	0	192	192	0	192	192	0	0	0	0
2009/10	6,849	6,849	0	0	6,849	6,849	0	6,849	6,849	0	0	0	0
2010/11	834	834	0	0	834	834	0	834	834	0	0	0	0
2011/12	445	445	0	0	445	445	0	445	445	0	0	0	0
2012/13	302	302	0	0	302	302	0	302	302	0	0	0	0
2013/14	2,936	2,936	0	0	2,936	2,936	0	2,936	2,936	0	0	0	0
2014/15	239	239	0	0	239	239	0	239	239	0	0	0	0
2015/16	1,520	1,520	42	17	1,552	1,527	(25)	1,510	1,510	10	10	32	7
2016/17	621	594	334	191	745	635	(110)	411	444	210	150	124	41
2017/18	4,542	10,490	5,044	10,511	5,200	10,750	5,550	156	239	4,386	10,251	658	260
2018/19	118	558	1,040	938	1,100	1,100	0	60	162	57	396	982	542
2019/20		58		972	2,109	1,000	(1,109)		28		30		942
Total	\$ 38,899	\$ 45,318	\$ 6,460	\$ 12,629	\$ 42,804	\$ 47,110	\$ 4,306	\$ 34,236	\$ 34,481	\$ 4,663	\$ 10,837	\$ 1,796	\$ 1,792
Total (ex FY20)	\$ 38,899	\$ 45,260	\$ 6,460	\$ 11,657	\$ 40,695	\$ 46,110	\$ 5,415	\$ 34,236	\$ 34,453	\$ 4,663	\$ 10,807	\$ 1,796	\$ 850

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/19 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Estimated Outstanding Losses 11/30/19 (6) - (9)	Estimated Outstanding Losses 11/30/20 (7) - (10)	Projected Ultimate Limited Losses 11/30/19 (6)	Projected Ultimate Limited Losses 11/30/20 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/19 (9)	Limited Paid Losses 11/30/20 (10)	Limited Case Reserves 11/30/19 (2) - (9) (11)	Limited Case Reserves 11/30/20 (3) - (10) (12)	Estimated IBNR 11/30/19 (4)-(11) (13)	Estimated IBNR 11/30/20 (5)-(12) (14)
to 2000/01	\$16,697	\$38,697	\$15,002	\$43,303	\$16,699	\$45,000	\$28,301	\$1,697	\$1,697	\$15,000	\$37,000	\$2	\$6,303
2001/02	0	0	0	0	0	0	0	0	0	0	0	0	0
2002/03	1,024	5,024	0	4,076	1,024	5,100	4,076	1,024	1,024	0	4,000	0	76
2003/04	51,374	51,374	0	0	51,374	51,374	0	51,374	51,374	0	0	0	0
2004/05	1,371	1,421	0	59	1,371	1,430	59	1,371	1,371	0	50	0	9
2005/06	4,099	4,159	1,840	1,780	4,439	4,439	0	2,599	2,659	1,500	1,500	340	280
2006/07	2,403	2,403	32	0	2,435	2,403	(32)	2,403	2,403	0	0	32	0
2007/08	13,297	13,297	1,268	1,268	13,565	13,565	0	12,297	12,297	1,000	1,000	268	268
2008/09	4,393	4,393	0	0	4,393	4,393	0	4,393	4,393	0	0	0	0
2009/10	6,603	6,603	2	8	6,604	6,610	6	6,602	6,602	1	1	1	7
2010/11	31,243	31,243	257	257	31,400	31,400	0	31,143	31,143	100	100	157	157
2011/12	3,332	4,176	140	1,271	3,469	4,600	1,131	3,329	3,329	3	847	137	424
2012/13	10,509	11,559	2,054	3,442	11,593	13,000	1,407	9,539	9,558	970	2,001	1,084	1,441
2013/14	22,768	27,234	15,437	20,028	24,700	30,000	5,300	9,263	9,972	13,505	17,262	1,932	2,766
2014/15	9,740	6,044	8,083	5,106	10,931	8,000	(2,931)	2,848	2,894	6,893	3,150	1,191	1,956
2015/16	13,413	12,196	11,411	10,701	15,000	15,000	0	3,589	4,299	9,824	7,896	1,587	2,804
2016/17	17,927	18,658	15,398	16,200	20,000	21,000	1,000	4,602	4,800	13,325	13,858	2,073	2,342
2017/18	8,240	8,321	14,181	13,922	15,000	15,000	0	819	1,078	7,421	7,242	6,760	6,679
2018/19	2,214	6,074	15,989	17,932	16,000	18,000	2,000	11	68	2,204	6,006	13,786	11,926
2019/20		3,052		17,997	16,313	18,000	1,687		4		3,048		14,948
Total	\$220,647	\$255,926	\$ 101,095	\$ 157,350	\$266,310	\$308,314	\$ 42,004	\$148,902	\$150,964	\$ 71,745	\$104,962	\$ 29,350	\$ 52,388
Total (ex FY20)	\$220,647	\$252,874	\$ 101,095	\$ 139,353	\$249,997	\$290,314	\$ 40,317	\$148,902	\$150,961	\$ 71,745	\$101,913	\$ 29,350	\$ 37,440

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)	(2)	(3)	(6) - (9)	(7) - (10)	(6)	(7)	(8)	(9)	(10)	(2) - (9)	(3) - (10)	(4)-(11)	(5)-(12)
to 2000/01	\$96,113	\$96,113	\$47	\$0	\$96,160	\$96,113	(\$47)	\$96,113	\$96,113	\$0	\$0	\$47	\$0
2001/02	12,154	12,154	0	0	12,154	12,154	0	12,154	12,154	0	0	0	0
2002/03	5,220	5,220	0	0	5,220	5,220	0	5,220	5,220	0	0	0	0
2003/04	16,952	16,952	0	0	16,952	16,952	0	16,952	16,952	0	0	0	0
2004/05	11,119	11,044	7,864	296	11,208	11,140	(68)	3,344	10,844	7,775	200	89	96
2005/06	4,024	4,024	0	0	4,024	4,024	0	4,024	4,024	0	0	0	0
2006/07	10,593	10,593	3,761	3,761	10,732	10,732	0	6,971	6,971	3,622	3,622	139	139
2007/08	1,288	1,288	0	0	1,288	1,288	0	1,288	1,288	0	0	0	0
2008/09	7,601	7,201	6,017	5,317	8,000	7,300	(700)	1,983	1,983	5,618	5,218	399	99
2009/10	1,837	1,812	236	188	1,948	1,900	(48)	1,712	1,712	125	100	111	88
2010/11	2,608	5,413	1,241	3,641	3,200	5,600	2,400	1,959	1,959	650	3,455	592	187
2011/12	4,756	4,756	3,152	2,270	5,882	5,000	(882)	2,730	2,730	2,026	2,026	1,126	244
2012/13	2,559	6,199	2,154	5,581	3,353	6,800	3,447	1,199	1,219	1,360	4,980	794	601
2013/14	13,519	6,199	14,048	6,048	15,000	7,000	(8,000)	952	952	12,567	5,247	1,481	801
2014/15	17,275	17,371	18,468	3,974	19,500	19,500	0	1,032	15,526	16,243	1,845	2,225	2,129
2015/16	11,810	13,330	14,012	12,512	14,400	14,400	0	388	1,888	11,422	11,442	2,590	1,070
2016/17	8,574	6,942	14,519	10,754	14,600	11,000	(3,600)	81	246	8,493	6,696	6,026	4,058
2017/18	8,914	9,335	15,724	11,704	20,000	16,000	(4,000)	4,276	4,296	4,638	5,039	11,086	6,665
2018/19	2,039	3,030	17,494	14,353	17,500	15,000	(2,500)	6	647	2,034	2,383	15,461	11,970
2019/20		361		15,499	16,869	15,500	(1,369)		1		360		15,139
Total	\$238,954	\$239,336	\$ 118,739	\$ 95,899	\$297,990	\$282,623	\$ (15,367)	\$162,382	\$186,724	\$ 76,572	\$ 52,612	\$ 42,167	\$ 43,287
Total (ex FY20)	\$238,954	\$238,975	\$ 118,739	\$ 80,399	\$281,121	\$267,123	\$ (13,998)	\$162,382	\$186,723	\$ 76,572	\$ 52,252	\$ 42,167	\$ 28,147

Data Summary as of November 30, 2020  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Payroll (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Limited Paid Losses 11/30/20 (8)	Limited Case Reserves 11/30/20 (9)	Limited Reported Incurred Losses 11/30/20 (10)
to 2000/01	See Note	See Note	240.0	Not Provided	7,414	14	\$51,576,571	\$4,599,207	\$56,175,778
2001/02	9,500,000	40,000,000	228.0	434,846	490	1	1,187,430	3,000	1,190,430
2002/03	9,500,000	45,000,000	216.0	441,142	514	2	2,992,856	19,741	3,012,597
2003/04	Unlimited	None	204.0	453,644	593	2	1,859,550	107,602	1,967,151
2004/05	Unlimited	None	192.0	458,776	518	1	2,535,860	646,863	3,182,723
2005/06	Unlimited	None	180.0	464,619	510	0	1,739,346	0	1,739,346
2006/07	Unlimited	None	168.0	448,051	318	3	2,086,766	15,000	2,101,766
2007/08	Unlimited	None	156.0	445,664	274	5	1,884,880	94,768	1,979,648
2008/09	Unlimited	None	144.0	501,624	280	6	2,074,723	52,965	2,127,688
2009/10	Unlimited	None	132.0	526,535	214	6	2,122,232	287,239	2,409,471
2010/11	Unlimited	None	120.0	489,053	202	10	1,730,639	209,331	1,939,969
2011/12	Unlimited	None	108.0	515,084	169	9	2,133,698	180,016	2,313,714
2012/13	Unlimited	None	96.0	482,783	143	10	2,884,441	91,376	2,975,817
2013/14	Unlimited	None	84.0	482,783	158	11	2,281,302	246,559	2,527,860
2014/15	Unlimited	None	72.0	468,483	158	14	1,425,359	269,522	1,694,880
2015/16	Unlimited	None	60.0	497,031	176	19	1,897,269	453,135	2,350,404
2016/17	Unlimited	None	48.0	529,113	167	27	1,849,923	545,340	2,395,263
2017/18	Unlimited	None	36.0	539,050	179	22	1,218,778	599,825	1,818,603
2018/19	Unlimited	None	24.0	580,283	159	35	1,096,059	2,761,701	3,857,760
2019/20	Unlimited	None	12.0	524,163	209	85	419,962	1,942,149	2,362,111
<b>Total</b>					<b>12,845</b>	<b>282</b>	<b>\$86,997,643</b>	<b>\$13,125,338</b>	<b>\$100,122,981</b>

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

Effective Date	Retention	Aggregate
12/01/77	Unlimited	None
12/01/00	9,500,000	40,000,000
12/01/03	Unlimited	see column (3)

(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)

Data Summary as of November 30, 2020  
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Payroll (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Net Unlimited Paid Losses 11/30/20 (8)	Net Unlimited Case Reserves 11/30/20 (9)	Net Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	7,414	14	\$51,576,571	\$4,599,207	\$56,175,778
2001/02	Unlimited	40,000,000	228.0	434,846	490	1	1,187,430	3,000	1,190,430
2002/03	Unlimited	45,000,000	216.0	441,142	514	2	2,992,856	19,741	3,012,597
2003/04	Unlimited	None	204.0	453,644	593	2	1,859,550	107,602	1,967,151
2004/05	Unlimited	None	192.0	458,776	518	1	2,535,860	646,863	3,182,723
2005/06	Unlimited	None	180.0	464,619	510	0	1,739,346	0	1,739,346
2006/07	Unlimited	None	168.0	448,051	318	3	2,086,766	15,000	2,101,766
2007/08	Unlimited	None	156.0	445,664	274	5	1,884,880	94,768	1,979,648
2008/09	Unlimited	None	144.0	501,624	280	6	2,074,723	52,965	2,127,688
2009/10	Unlimited	None	132.0	526,535	214	6	2,122,232	287,239	2,409,471
2010/11	Unlimited	None	120.0	489,053	202	10	1,730,639	209,331	1,939,969
2011/12	Unlimited	None	108.0	515,084	169	9	2,133,698	180,016	2,313,714
2012/13	Unlimited	None	96.0	482,783	143	10	2,884,441	91,376	2,975,817
2013/14	Unlimited	None	84.0	482,783	158	11	2,281,302	246,559	2,527,860
2014/15	Unlimited	None	72.0	468,483	158	14	1,425,359	269,522	1,694,880
2015/16	Unlimited	None	60.0	497,031	176	19	1,897,269	453,135	2,350,404
2016/17	Unlimited	None	48.0	529,113	167	27	1,849,923	545,340	2,395,263
2017/18	Unlimited	None	36.0	539,050	179	22	1,218,778	599,825	1,818,603
2018/19	Unlimited	None	24.0	580,283	159	35	1,096,059	2,761,701	3,857,760
2019/20	Unlimited	None	12.0	524,163	209	85	419,962	1,942,149	2,362,111
<b>Total</b>					<b>12,845</b>	<b>282</b>	<b>\$86,997,643</b>	<b>\$13,125,338</b>	<b>\$100,122,981</b>

(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, 2020  
Gross Unlimited Losses

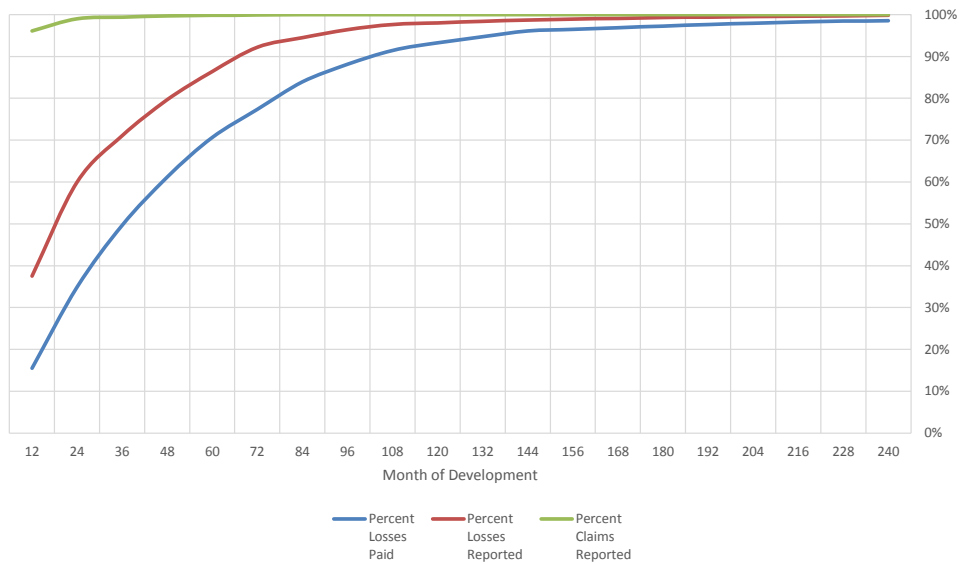
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Payroll (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Gross Unlimited Paid Losses 11/30/20 (8)	Gross Unlimited Case Reserves 11/30/20 (9)	Gross Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	7,414	14	\$51,677,034	\$4,599,207	\$56,276,241
2001/02	Unlimited	40,000,000	228.0	434,846	490	1	1,195,886	3,000	1,198,886
2002/03	Unlimited	45,000,000	216.0	441,142	514	2	2,998,581	19,741	3,018,322
2003/04	Unlimited	None	204.0	453,644	593	2	1,859,774	107,602	1,967,375
2004/05	Unlimited	None	192.0	458,776	518	1	2,536,125	646,863	3,182,989
2005/06	Unlimited	None	180.0	464,619	510	0	1,739,346	0	1,739,346
2006/07	Unlimited	None	168.0	448,051	318	3	2,086,766	15,000	2,101,766
2007/08	Unlimited	None	156.0	445,664	274	5	1,884,880	94,768	1,979,648
2008/09	Unlimited	None	144.0	501,624	280	6	2,074,744	52,965	2,127,709
2009/10	Unlimited	None	132.0	526,535	214	6	2,122,386	287,239	2,409,625
2010/11	Unlimited	None	120.0	489,053	202	10	1,730,639	209,331	1,939,969
2011/12	Unlimited	None	108.0	515,084	169	9	2,160,629	180,016	2,340,646
2012/13	Unlimited	None	96.0	482,783	143	10	2,903,340	91,376	2,994,716
2013/14	Unlimited	None	84.0	482,783	158	11	2,281,514	246,559	2,528,073
2014/15	Unlimited	None	72.0	468,483	158	14	1,437,444	269,522	1,706,966
2015/16	Unlimited	None	60.0	497,031	176	19	1,901,021	453,135	2,354,156
2016/17	Unlimited	None	48.0	529,113	167	27	1,853,843	545,340	2,399,183
2017/18	Unlimited	None	36.0	539,050	179	22	1,222,095	599,825	1,821,920
2018/19	Unlimited	None	24.0	580,283	159	35	1,096,946	2,761,701	3,858,647
2019/20	Unlimited	None	12.0	524,163	209	85	419,962	1,942,149	2,362,111
<b>Total</b>					<b>12,845</b>	<b>282</b>	<b>\$87,182,957</b>	<b>\$13,125,338</b>	<b>\$100,308,294</b>

(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	96.9%	99.1%	100.0%
156.0	96.5%	98.9%	100.0%
144.0	96.1%	98.7%	100.0%
132.0	94.7%	98.4%	100.0%
120.0	93.3%	98.0%	100.0%
108.0	91.4%	97.6%	100.0%
96.0	88.1%	96.4%	100.0%
84.0	83.9%	94.5%	100.0%
72.0	77.3%	92.2%	99.9%
60.0	70.6%	86.4%	99.8%
48.0	61.1%	79.6%	99.7%
36.0	49.7%	71.1%	99.4%
24.0	34.9%	60.0%	99.0%
12.0	15.5%	37.5%	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).



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

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 2000/01													\$43,372	\$44,782	\$45,145	\$45,658	\$46,137	\$46,677	\$46,999	\$47,365	\$51,677
2001/02					902	975	1,041	1,045	1,069	1,069	1,093	1,095	1,095	1,095	1,176	1,176	1,181	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	2,999			
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	1,860				
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	2,536					
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	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	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	1,885								
2008/09	309	575	756	995	1,148	1,360	1,495	1,920	1,955	2,016	2,048	2,075									
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	1,731											
2011/12	558	903	1,169	1,368	1,755	1,913	2,108	2,128	2,161												
2012/13	334	930	1,179	1,711	2,255	2,422	2,582	2,903													
2013/14	480	1,031	1,686	2,042	2,117	2,218	2,282														
2014/15	283	881	1,063	1,298	1,374	1,437															
2015/16	722	1,329	1,494	1,693	1,901																
2016/17	358	1,021	1,392	1,854																	
2017/18	505	1,017	1,222																		
2018/19	353	1,097																			
2019/20	420																				

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 2000/01												1.033	1.008	1.011	1.011	1.012	1.007	1.008	1.091	
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	1.000		
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	1.006	1.000		
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	1.001				
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	1.005					
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	1.000						
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	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	1.001								
2008/09	1.862	1.315	1.315	1.155	1.184	1.099	1.284	1.018	1.031	1.016	1.013									
2009/10	2.354	1.322	1.111	1.087	1.268	1.082	1.062	1.069	1.054	1.037										
2010/11	1.506	1.250	1.178	1.149	1.244	1.023	1.022	1.033	1.005											
2011/12	1.620	1.295	1.170	1.282	1.090	1.102	1.010	1.015												
2012/13	2.782	1.268	1.452	1.318	1.074	1.066	1.124													
2013/14	2.147	1.636	1.211	1.036	1.048	1.029														
2014/15	3.108	1.207	1.221	1.059	1.046															
2015/16	1.840	1.124	1.133	1.123																
2016/17	2.849	1.364	1.332																	
2017/18	2.014	1.202																		
2018/19	3.107																			
2019/20																				
Average																				
All	2.228	1.347	1.212	1.142	1.115	1.094	1.048	1.042	1.029	1.023	1.028	1.016	1.020	1.022	1.006	1.006	1.008	1.004	1.091	
Wtd 3	2.577	1.220	1.227	1.071	1.058	1.064	1.060	1.038	1.031	1.019	1.024	1.000	1.014	1.016	1.006	1.004	1.007			
Last 3	2.656	1.230	1.229	1.073	1.056	1.066	1.052	1.039	1.030	1.019	1.025	1.000	1.013	1.014	1.006	1.004	1.008			
Last 5	2.656	1.258	1.255	1.155	1.071	1.059	1.070	1.040	1.033	1.019	1.025	1.007	1.020	1.016	1.006					
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	1.450	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	1.003	1.001	1.015
Selected	2.250	1.425	1.230	1.155	1.095	1.085	1.050	1.038	1.020	1.015	1.015	1.004	1.004	1.004	1.004	1.003	1.003	1.002	1.001	1.015
Cumulative	6.450	2.867	2.012	1.635	1.416	1.293	1.192	1.135	1.094	1.072	1.056	1.041	1.037	1.032	1.028	1.024	1.021	1.018	1.016	1.015
Percent	15.5%	34.9%	49.7%	61.1%	70.6%	77.3%	83.9%	88.1%	91.4%	93.3%	94.7%	96.1%	96.5%	96.9%	97.3%	97.6%	97.9%	98.2%	98.4%	98.5%
Prior Cumul	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
	-1.9%	-1.9%	-0.2%	-0.2%	0.2%	1.6%	2.1%	1.6%	1.6%	1.6%	1.1%	0.2%	0.2%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%

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 (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 2000/01													\$50,979	\$51,287	\$49,457	\$47,435	\$47,660	\$47,873	\$48,112	\$48,410	\$56,276
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	2,866	3,134	3,134	3,187	3,181	3,183	3,183	3,183	3,183	3,183	
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	1,739	
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	1,924	1,937	1,937	1,961	1,973	1,980						
2008/09	879	1,171	848	1,031	1,181	1,789	1,802	2,045	2,075	2,102	2,127	2,128									
2009/10	789	918	1,055	1,200	1,982	2,172	2,201	2,401	2,401	2,401	2,407	2,410									
2010/11	783	837	1,111	1,730	1,788	1,957	1,847	1,848	1,940	1,940											
2011/12	783	1,014	1,772	1,844	2,116	2,335	2,331	2,329	2,341												
2012/13	552	1,720	1,979	2,336	2,675	2,929	2,960	2,995													
2013/14	1,181	1,764	2,308	2,511	2,495	2,548	2,528														
2014/15	760	1,419	1,555	1,632	1,755	1,707															
2015/16	1,623	2,123	2,184	2,213	2,354																
2016/17	1,882	2,180	2,118	2,399																	
2017/18	1,496	1,797	1,822																		
2018/19	1,980	3,859																			
2019/20	2,362																				

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 2000/01													1.006	0.964	0.959	1.005	1.004	1.005	1.006	1.162	
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	1.000	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	1.000	1.000	1.000	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	1.001						
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	0.998							
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	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	1.003									
2008/09	1.332	0.724	1.216	1.145	1.515	1.007	1.134	1.015	1.013	1.012	1.000										
2009/10	1.163	1.150	1.137	1.652	1.096	1.013	1.091	1.000	1.002	1.001											
2010/11	1.070	1.327	1.557	1.034	1.094	0.944	1.000	1.049	1.000												
2011/12	1.295	1.747	1.041	1.148	1.103	0.998	0.999	1.005													
2012/13	3.119	1.151	1.181	1.145	1.095	1.011	1.012														
2013/14	1.494	1.309	1.088	0.994	1.021	0.992															
2014/15	1.867	1.096	1.050	1.075	0.973																
2015/16	1.308	1.029	1.013	1.064																	
2016/17	1.158	0.972	1.133																		
2017/18	1.201	1.014																			
2018/19	1.949																				
2019/20																					
Average																					
All	1.488	1.162	1.086	1.101	1.065	1.047	1.005	1.023	1.052	1.025	1.013	1.013	1.010	1.006	1.001	1.002	1.002	1.003	1.162		
Wtd 3	1.463	1.004	1.066	1.039	1.038	1.001	1.005	1.016	1.005	1.008	1.001	1.001	1.008	1.001	1.000	1.001	1.005	1.005			
Last 3	1.436	1.005	1.065	1.044	1.030	1.000	1.004	1.018	1.005	1.009	1.001	1.001	1.006	1.001	1.000	1.002	1.002				
Last 5	1.459	1.046	1.090	1.095	1.070	1.000	1.034	1.023	1.006	1.009	1.002	1.001	1.016	1.002	1.001						
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	1.600	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	
Selected	1.600	1.185	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	2.667	1.667	1.407	1.256	1.157	1.085	1.058	1.038	1.024	1.020	1.016	1.013	1.011	1.009	1.007	1.006	1.005	1.004	1.003	1.002	
Percent	37.5%	60.0%	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.

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 2000/01													7,412	7,419	7,411	7,411	7,411	7,413	7,412	7,413	7,414
2001/02					489	489	489	489	489	489	489	489	490	490	490	490	490	490	490	490	490
2002/03				512	512	513	513	513	513	513	513	514	514	514	514	514	514	514	514	514	514
2003/04			589	589	590	591	591	591	591	591	593	593	593	593	593	593	593	593	593	593	593
2004/05		516	516	516	517	517	517	517	517	518	518	518	518	518	518	518	518	518	518	518	518
2005/06	503	507	509	511	511	511	511	511	510	510	510	510	510	510	510	510	510	510	510	510	510
2006/07	306	313	313	313	313	314	314	318	318	318	318	318	318	318	318	318	318	318	318	318	318
2007/08	263	266	267	268	267	267	274	274	274	274	274	274	274	274	274	274	274	274	274	274	274
2008/09	241	244	270	270	271	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280
2009/10	181	204	205	206	213	213	214	214	214	214	214	214	214	214	214	214	214	214	214	214	214
2010/11	187	193	193	201	201	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202
2011/12	158	161	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169
2012/13	136	140	142	143	143	143	143	143	143	143	143	143	143	143	143	143	143	143	143	143	143
2013/14	145	155	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158
2014/15	149	155	157	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158
2015/16	169	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176
2016/17	149	166	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167
2017/18	174	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179
2018/19	153	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159
2019/20	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209

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 2000/01													1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2001/02					1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2002/03				1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2003/04			1.000	1.002	1.002	1.000	1.000	1.000	1.000	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2004/05		1.000	1.000	1.002	1.000	1.000	1.000	1.000	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
2005/06	1.008	1.004	1.004	1.000	1.000	1.000	1.000	0.998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2006/07	1.023	1.000	1.000	1.000	1.003	1.000	1.013	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2007/08	1.011	1.004	1.004	0.996	1.000	1.026	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008/09	1.012	1.107	1.000	1.004	1.033	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009/10	1.127	1.005	1.005	1.034	1.000	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
2010/11	1.032	1.000	1.041	1.000	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
2011/12	1.019	1.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2012/13	1.029	1.014	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2013/14	1.069	1.019	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2014/15	1.040	1.013	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2015/16	1.041	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2016/17	1.114	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2017/18	1.029	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2018/19	1.039	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2019/20	1.039	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Average																					
All	1.042	1.016	1.005	1.003	1.003	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Wtd 3	1.059	1.002	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
Last 3	1.061	1.002	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
Last 5	1.040	1.006	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
x-hi,low																					
Similar	1.131	1.019	1.010	1.007	1.007	1.005	1.005	1.006	1.006	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Previous	1.030	1.004	1.003	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Selected	1.030	1.004	1.003	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Cumulative	1.040	1.010	1.006	1.003	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Percent	96.1%	99.0%	99.4%	99.7%	99.8%	99.9%	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%

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 2000/01												85.1%	87.3%	91.3%	96.3%	96.8%	97.5%	97.7%	97.8%	91.8%
2001/02					73.8%	73.6%	75.0%	98.9%	98.9%	100.0%	100.0%	100.0%	98.6%	98.6%	98.7%	98.6%	98.6%	99.7%	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%	99.3%		
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%	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%	79.7%				
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%	99.8%	100.0%					
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%	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%	95.2%							
2008/09	35.1%	49.1%	89.2%	96.5%	97.3%	76.0%	83.0%	93.9%	94.2%	95.9%	96.3%	97.5%								
2009/10	42.0%	85.0%	97.8%	95.5%	62.9%	72.7%	77.6%	75.6%	80.8%	85.0%	88.1%									
2010/11	64.3%	90.5%	85.3%	64.5%	71.7%	81.5%	88.3%	90.2%	88.8%	89.2%										
2011/12	71.2%	89.1%	66.0%	74.2%	82.9%	81.9%	90.4%	91.4%	92.3%											
2012/13	60.6%	54.0%	59.6%	73.2%	84.3%	82.7%	87.2%	96.9%												
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%	84.2%														
2015/16	44.5%	62.6%	68.4%	76.5%	80.8%															
2016/17	19.0%	46.8%	65.7%	77.3%																
2017/18	33.8%	56.6%	67.1%																	
2018/19	17.8%	28.4%																		
2019/20	17.8%																			
<b>Average</b>																				
All	39.0%	59.5%	70.5%	78.5%	81.2%	85.4%	88.7%	92.4%	93.7%	92.8%	93.6%	93.2%	93.8%	94.3%	93.6%	97.3%	98.9%	98.8%	91.8%	
Last 3	23.1%	44.0%	67.1%	77.8%	81.3%	84.6%	89.3%	92.8%	87.3%	90.0%	91.6%	97.4%	98.0%	92.1%	91.1%	90.8%	97.3%	98.9%		
Last 5	23.6%	55.2%	67.9%	77.8%	82.7%	82.9%	88.6%	91.8%	90.5%	92.1%	95.2%	97.4%	96.1%	96.5%	96.8%	96.5%				
x-hi,low																				
Implicit	41.3%	58.1%	69.9%	76.8%	81.7%	83.9%	88.8%	91.4%	93.7%	95.2%	96.2%	97.4%	97.5%	97.7%	97.9%	98.2%	98.4%	98.6%	98.7%	98.7%
Prior	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%



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

Exhibit WC-HC-Indem-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/20 (2)	Limited Paid Losses 11/30/20 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 2000/01	240.0	\$51,576,571	98.5%	\$52,350,219
2001/02	228.0	1,187,430	98.4%	1,206,447
2002/03	216.0	2,992,856	98.2%	3,046,869
2003/04	204.0	1,859,550	97.9%	1,898,788
2004/05	192.0	2,535,860	97.6%	2,597,138
2005/06	180.0	1,739,346	97.3%	1,788,502
2006/07	168.0	2,086,766	96.9%	2,154,323
2007/08	156.0	1,884,880	96.5%	1,953,685
2008/09	144.0	2,074,723	96.1%	2,159,060
2009/10	132.0	2,122,232	94.7%	2,241,628
2010/11	120.0	1,730,639	93.3%	1,855,424
2011/12	108.0	2,133,698	91.4%	2,333,295
2012/13	96.0	2,884,441	88.1%	3,274,129
2013/14	84.0	2,281,302	83.9%	2,718,981
2014/15	72.0	1,425,359	77.3%	1,843,221
2015/16	60.0	1,897,269	70.6%	2,686,559
2016/17	48.0	1,849,923	61.1%	3,025,540
2017/18	36.0	1,218,778	49.7%	2,451,767
2018/19	24.0	1,096,059	34.9%	3,141,978
2019/20	12.0	419,962	15.5%	2,708,707
<b>Total</b>		<b>\$86,997,643</b>		<b>\$97,436,259</b>

(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 11/30/20 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 2000/01	240.0	\$56,175,778	99.8%	\$56,288,130
2001/02	228.0	1,190,430	99.7%	1,194,004
2002/03	216.0	3,012,597	99.6%	3,024,663
2003/04	204.0	1,967,151	99.5%	1,977,005
2004/05	192.0	3,182,723	99.4%	3,201,864
2005/06	180.0	1,739,346	99.3%	1,751,557
2006/07	168.0	2,101,766	99.1%	2,120,753
2007/08	156.0	1,979,648	98.9%	2,001,527
2008/09	144.0	2,127,688	98.7%	2,155,506
2009/10	132.0	2,409,471	98.4%	2,448,296
2010/11	120.0	1,939,969	98.0%	1,979,114
2011/12	108.0	2,313,714	97.6%	2,369,841
2012/13	96.0	2,975,817	96.4%	3,087,630
2013/14	84.0	2,527,860	94.5%	2,675,299
2014/15	72.0	1,694,880	92.2%	1,838,578
2015/16	60.0	2,350,404	86.4%	2,720,509
2016/17	48.0	2,395,263	79.6%	3,008,087
2017/18	36.0	1,818,603	71.1%	2,557,957
2018/19	24.0	3,857,760	60.0%	6,429,968
2019/20	12.0	2,362,111	37.5%	6,299,324
<b>Total</b>		<b>\$100,122,981</b>		<b>\$109,129,612</b>

(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 11/30/20 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/20 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/20 (6)	Limited Case Reserves 11/30/20 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 2000/01	240.0	98.5%	99.8%	86.5%	\$51,576,571	\$4,599,207	\$56,893,962
2001/02	228.0	98.4%	99.7%	81.0%	1,187,430	3,000	1,191,133
2002/03	216.0	98.2%	99.6%	77.5%	2,992,856	19,741	3,018,330
2003/04	204.0	97.9%	99.5%	75.9%	1,859,550	107,602	2,001,351
2004/05	192.0	97.6%	99.4%	74.7%	2,535,860	646,863	3,402,236
2005/06	180.0	97.3%	99.3%	74.6%	1,739,346	0	1,739,346
2006/07	168.0	96.9%	99.1%	71.4%	2,086,766	15,000	2,107,759
2007/08	156.0	96.5%	98.9%	69.0%	1,884,880	94,768	2,022,302
2008/09	144.0	96.1%	98.7%	67.0%	2,074,723	52,965	2,153,821
2009/10	132.0	94.7%	98.4%	70.2%	2,122,232	287,239	2,531,247
2010/11	120.0	93.3%	98.0%	70.6%	1,730,639	209,331	2,027,179
2011/12	108.0	91.4%	97.6%	72.3%	2,133,698	180,016	2,382,637
2012/13	96.0	88.1%	96.4%	69.6%	2,884,441	91,376	3,015,777
2013/14	84.0	83.9%	94.5%	65.8%	2,281,302	246,559	2,656,219
2014/15	72.0	77.3%	92.2%	65.5%	1,425,359	269,522	1,836,690
2015/16	60.0	70.6%	86.4%	53.7%	1,897,269	453,135	2,741,185
2016/17	48.0	61.1%	79.6%	47.6%	1,849,923	545,340	2,996,326
2017/18	36.0	49.7%	71.1%	42.5%	1,218,778	599,825	2,629,303
2018/19	24.0	34.9%	60.0%	38.6%	1,096,059	2,761,701	8,257,116
2019/20	12.0	15.5%	37.5%	26.0%	419,962	1,942,149	7,881,351
Total					\$86,997,643	\$13,125,338	\$113,485,270

(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 2019/20

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 2000/01	\$52,350,219	\$56,288,130	\$56,893,962	\$56,288,000
2001/02	1,206,447	1,194,004	1,191,133	1,194,000
2002/03	3,046,869	3,024,663	3,018,330	3,025,000
2003/04	1,898,788	1,977,005	2,001,351	1,977,000
2004/05	2,597,138	3,201,864	3,402,236	3,202,000
2005/06	1,788,502	1,751,557	1,739,346	1,752,000
2006/07	2,154,323	2,120,753	2,107,759	2,121,000
2007/08	1,953,685	2,001,527	2,022,302	2,002,000
2008/09	2,159,060	2,155,506	2,153,821	2,156,000
2009/10	2,241,628	2,448,296	2,531,247	2,448,000
2010/11	1,855,424	1,979,114	2,027,179	1,979,000
2011/12	2,333,295	2,369,841	2,382,637	2,370,000
2012/13	3,274,129	3,087,630	3,015,777	3,088,000
2013/14	2,718,981	2,675,299	2,656,219	2,675,000
2014/15	1,843,221	1,838,578	1,836,690	1,839,000
2015/16	2,686,559	2,720,509	2,741,185	2,721,000
2016/17	3,025,540	3,008,087	2,996,326	3,008,000
2017/18	2,451,767	2,557,957	2,629,303	2,558,000
2018/19	3,141,978	6,429,968	8,257,116	4,786,000
2019/20	2,708,707	6,299,324	7,881,351	4,504,000
<b>Total</b>	<b>\$97,436,259</b>	<b>\$109,129,612</b>	<b>\$113,485,270</b>	<b>\$105,693,000</b>

(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.





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

Exhibit WC-HC-Indem-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 (2020/21 = 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)
2010/11	\$1,979,000	\$489,053	\$0.40	1.173	\$0.47	\$0.51
2011/12	2,370,000	515,084	0.46	1.164	0.54	0.51
2012/13	3,088,000	482,783	0.64	1.145	0.73	0.52
2013/14	2,675,000	482,783	0.55	1.127	0.62	0.53
2014/15	1,839,000	468,483	0.39	1.106	0.43	0.54
2015/16	2,721,000	497,031	0.55	1.083	0.59	0.55
2016/17	3,008,000	529,113	0.57	1.064	0.60	0.56
2017/18	2,558,000	539,050	0.47	1.047	0.50	0.57
2018/19	4,786,000	580,283	0.82	1.030	0.85	0.58
2019/20	4,504,000	524,163	0.86	1.015	0.87	0.59

(7) Projected 2020/21 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 11/30/20 (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)
2015/16	\$1,897,269	70.6%	\$0.55	\$497,031	\$800,646	\$2,697,916
2016/17	1,849,923	61.1%	0.56	529,113	1,147,688	2,997,610
2017/18	1,218,778	49.7%	0.57	539,050	1,538,113	2,756,892
2018/19	1,096,059	34.9%	0.58	580,283	2,178,659	3,274,718
2019/20	419,962	15.5%	0.59	524,163	2,591,983	3,011,945

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/20 (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)
2015/16	\$2,350,404	86.4%	\$0.55	\$497,031	\$370,745	\$2,721,149
2016/17	2,395,263	79.6%	0.56	529,113	601,737	2,996,999
2017/18	1,818,603	71.1%	0.57	539,050	884,031	2,702,635
2018/19	3,857,760	60.0%	0.58	580,283	1,338,447	5,196,207
2019/20	2,362,111	37.5%	0.59	524,163	1,917,307	4,279,418

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).



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

Exhibit WC-HC-Indem-8

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/20 (2)	Reported Claims 11/30/20 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2010/11	120.0	202	100.0%	202	\$489,053	0.41
2011/12	108.0	169	100.0%	169	515,084	0.33
2012/13	96.0	143	100.0%	143	482,783	0.30
2013/14	84.0	158	100.0%	158	482,783	0.33
2014/15	72.0	158	99.9%	158	468,483	0.34
2015/16	60.0	176	99.8%	176	497,031	0.35
2016/17	48.0	167	99.7%	168	529,113	0.32
2017/18	36.0	179	99.4%	180	539,050	0.33
2018/19	24.0	159	99.0%	161	580,283	0.28
2019/20	12.0	209	96.1%	217	524,163	0.41

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2020/21 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2020/21 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2010/11	\$1,979,000	202	\$9,797	1.577	\$15,445	\$13,851	\$2,797,867
2011/12	2,370,000	169	14,024	1.519	21,301	14,376	2,429,535
2012/13	3,088,000	143	21,594	1.451	31,335	15,048	2,151,901
2013/14	2,675,000	158	16,930	1.386	23,461	15,758	2,489,712
2014/15	1,839,000	158	11,639	1.321	15,374	16,531	2,611,944
2015/16	2,721,000	176	15,460	1.256	19,417	17,386	3,060,020
2016/17	3,008,000	168	17,905	1.198	21,444	18,232	3,063,045
2017/18	2,558,000	180	14,211	1.144	16,258	19,087	3,435,741
2018/19	4,786,000	161	29,727	1.093	32,490	19,979	3,216,593
2019/20	4,504,000	217	20,756	1.045	21,699	20,887	4,532,452
(7) Projected 2020/21 average claim severity					\$21,836		

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 2019/20

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 2000/01	\$52,350,219	\$56,288,130	\$56,893,962				\$56,535,565	\$56,590,000
2001/02	1,206,447	1,194,004	1,191,133				1,191,000	1,191,000
2002/03	3,046,869	3,024,663	3,018,330				3,025,000	3,020,000
2003/04	1,898,788	1,977,005	2,001,351				2,003,000	1,990,000
2004/05	2,597,138	3,201,864	3,402,236				3,275,000	3,275,000
2005/06	1,788,502	1,751,557	1,739,346				1,744,000	1,739,346
2006/07	2,154,323	2,120,753	2,107,759				2,109,000	2,109,000
2007/08	1,953,685	2,001,527	2,022,302				2,020,000	2,020,000
2008/09	2,159,060	2,155,506	2,153,821				2,174,000	2,155,000
2009/10	2,241,628	2,448,296	2,531,247				2,626,000	2,530,000
2010/11	1,855,424	1,979,114	2,027,179				2,000,000	2,000,000
2011/12	2,333,295	2,369,841	2,382,637				2,408,000	2,376,000
2012/13	3,274,129	3,087,630	3,015,777				3,178,000	3,050,000
2013/14	2,718,981	2,675,299	2,656,219				2,746,000	2,675,000
2014/15	1,843,221	1,838,578	1,836,690				2,051,000	1,840,000
2015/16	2,686,559	2,720,509	2,741,185	2,697,916	2,721,149	3,060,020	2,780,000	2,720,000
2016/17	3,025,540	3,008,087	2,996,326	2,997,610	2,996,999	3,063,045	2,990,000	3,000,000
2017/18	2,451,767	2,557,957	2,629,303	2,756,892	2,702,635	3,435,741	3,030,000	2,600,000
2018/19	3,141,978	6,429,968	8,257,116	3,274,718	5,196,207	3,216,593	4,000,000	4,500,000
2019/20	2,708,707	6,299,324	7,881,351	3,011,945	4,279,418	4,532,452	3,163,000	4,000,000
<b>Total</b>	<b>\$97,436,259</b>	<b>\$109,129,612</b>	<b>\$113,485,270</b>				<b>\$105,048,565</b>	<b>\$105,380,346</b>
2015/16 - 2019/20	14,014,551	21,015,845	24,505,281	14,739,081	17,896,408	17,307,851	15,963,000	16,820,000
to 2014/15	83,421,708	88,113,767	88,979,989				89,085,565	88,560,346
						<b>Change</b>		
						All years		\$331,781
						2015/16 - 2019/20		857,000
						to 2014/15		-525,219

- (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 2020/21 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 (2020/21 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2010/11	\$2,000,000	\$489,053	\$0.41	1.173	\$0.48
2011/12	2,376,000	515,084	0.46	1.164	0.54
2012/13	3,050,000	482,783	0.63	1.145	0.72
2013/14	2,675,000	482,783	0.55	1.127	0.62
2014/15	1,840,000	468,483	0.39	1.106	0.43
2015/16	2,720,000	497,031	0.55	1.083	0.59
2016/17	3,000,000	529,113	0.57	1.064	0.60
2017/18	2,600,000	539,050	0.48	1.047	0.50
2018/19	4,500,000	580,283	0.78	1.030	0.80
2019/20	4,000,000	524,163	0.76	1.015	0.77
Total	\$28,761,000	\$5,107,826	\$0.56		\$0.61

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)
2020/21	\$0.59	\$591,829	\$3,485,000	0.99	\$0.58	\$3,457,000
2021/22	0.60	591,829	3,537,000	0.99	0.59	3,509,000
2022/23	0.61	591,829	3,590,000	0.99	0.60	3,562,000

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

(3) was provided by the County.

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

(7) 2020/21 is based on (6) and actuarial judgment.  
Other period(s) based on 2020/21 plus the trend in Exhibit WC-HC-Indem-15.

(8) to 2020/21 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 0.19% 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, 2020

Claim Period (1)	Limited Paid Losses 11/30/20 (2)	Limited Case Reserves 11/30/20 (3)	Limited Reported Incurred Losses 11/30/20 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/20 (5)-(4) (6)	Estimated Outstanding Losses 11/30/20 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/20 (7)X(8) (9)
to 2000/01	\$51,576,571	\$4,599,207	\$56,175,778	\$56,590,000	\$414,222	\$5,013,429	0.99	\$4,987,219
2001/02	1,187,430	3,000	1,190,430	1,191,000	570	3,570	0.99	3,546
2002/03	2,992,856	19,741	3,012,597	3,020,000	7,403	27,144	0.99	26,933
2003/04	1,859,550	107,602	1,967,151	1,990,000	22,849	130,451	0.99	129,354
2004/05	2,535,860	646,863	3,182,723	3,275,000	92,277	739,140	0.99	732,392
2005/06	1,739,346	0	1,739,346	1,739,346	0	0	0.99	0
2006/07	2,086,766	15,000	2,101,766	2,109,000	7,234	22,234	0.99	22,008
2007/08	1,884,880	94,768	1,979,648	2,020,000	40,352	135,120	0.99	133,657
2008/09	2,074,723	52,965	2,127,688	2,155,000	27,312	80,277	0.99	79,350
2009/10	2,122,232	287,239	2,409,471	2,530,000	120,529	407,768	0.99	403,652
2010/11	1,730,639	209,331	1,939,969	2,000,000	60,031	269,362	0.99	266,755
2011/12	2,133,698	180,016	2,313,714	2,376,000	62,286	242,302	0.99	240,051
2012/13	2,884,441	91,376	2,975,817	3,050,000	74,183	165,559	0.99	164,186
2013/14	2,281,302	246,559	2,527,860	2,675,000	147,140	393,699	0.99	390,640
2014/15	1,425,359	269,522	1,694,880	1,840,000	145,120	414,642	0.99	411,686
2015/16	1,897,269	453,135	2,350,404	2,720,000	369,596	822,731	0.99	816,832
2016/17	1,849,923	545,340	2,395,263	3,000,000	604,737	1,150,077	0.99	1,141,939
2017/18	1,218,778	599,825	1,818,603	2,600,000	781,397	1,381,222	0.99	1,371,363
2018/19	1,096,059	2,761,701	3,857,760	4,500,000	642,240	3,403,941	0.99	3,379,491
2019/20	419,962	1,942,149	2,362,111	4,000,000	1,637,889	3,580,038	0.99	3,554,248
<b>Total</b>	<b>\$86,997,643</b>	<b>\$13,125,338</b>	<b>\$100,122,981</b>	<b>\$105,380,346</b>	<b>\$5,257,367</b>	<b>\$18,382,706</b>		<b>\$18,255,302</b>

(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 0.19% 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, 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 2000/01	240.0	98.5%	252.0	99.0%	20.0% *	\$5,013,429	\$1,002,686	\$4,010,743	0.99	\$3,989,986
2001/02	228.0	98.4%	240.0	98.5%	6.2% *	3,570	223	3,347	0.99	3,330
2002/03	216.0	98.2%	228.0	98.4%	11.1% *	27,144	3,008	24,136	0.99	23,974
2003/04	204.0	97.9%	216.0	98.2%	14.2% *	130,451	18,547	111,904	0.99	111,035
2004/05	192.0	97.6%	204.0	97.9%	12.4% *	739,140	91,764	647,376	0.99	641,932
2005/06	180.0	97.3%	192.0	97.6%	14.2% *	0	0	0	0.99	0
2006/07	168.0	96.9%	180.0	97.3%	12.4% *	22,234	2,747	19,487	0.99	19,300
2007/08	156.0	96.5%	168.0	96.9%	11.0% *	135,120	14,806	120,314	0.99	119,091
2008/09	144.0	96.1%	156.0	96.5%	9.8% *	80,277	7,899	72,378	0.99	71,594
2009/10	132.0	94.7%	144.0	96.1%	20.0% *	407,768	81,554	326,214	0.99	322,448
2010/11	120.0	93.3%	132.0	94.7%	20.0% *	269,362	53,872	215,490	0.99	213,315
2011/12	108.0	91.4%	120.0	93.3%	20.0% *	242,302	48,460	193,842	0.99	191,966
2012/13	96.0	88.1%	108.0	91.4%	20.0% *	165,559	33,112	132,447	0.99	131,217
2013/14	84.0	83.9%	96.0	88.1%	20.0% *	393,699	78,740	314,959	0.99	312,347
2014/15	72.0	77.3%	84.0	83.9%	20.0% *	414,642	82,928	331,714	0.99	329,137
2015/16	60.0	70.6%	72.0	77.3%	20.0% *	822,731	164,546	658,185	0.99	653,493
2016/17	48.0	61.1%	60.0	70.6%	20.0% *	1,150,077	230,015	920,062	0.99	913,465
2017/18	36.0	49.7%	48.0	61.1%	20.0% *	1,381,222	276,244	1,104,978	0.99	1,097,159
2018/19	24.0	34.9%	36.0	49.7%	20.0% *	3,403,941	680,788	2,723,153	0.99	2,703,716
2019/20	12.0	15.5%	24.0	34.9%	20.0% *	3,580,038	716,008	2,864,030	0.99	2,843,458
2020/21	0.0	0.0%	12.0	15.5%	15.5% *	3,485,000	540,320	2,944,680	0.99	2,923,467
Total						\$21,867,706	\$4,128,267	\$17,739,439		\$17,615,430

\* - 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-11. The amount for 2020/21 is from Exhibit WC-HC-Indem-10.

(10) is based on a 0.19% 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, 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 2000/01	252.0	99.0%	264.0	99.3%	20.0% *	\$4,010,743	\$802,149	\$3,208,594	0.99	\$3,192,230
2001/02	240.0	98.5%	252.0	99.0%	20.0% *	3,347	669	2,678	0.99	2,664
2002/03	228.0	98.4%	240.0	98.5%	6.2% *	24,136	1,507	22,629	0.99	22,511
2003/04	216.0	98.2%	228.0	98.4%	11.1% *	111,904	12,401	99,503	0.99	98,833
2004/05	204.0	97.9%	216.0	98.2%	14.2% *	647,376	92,039	555,337	0.99	551,026
2005/06	192.0	97.6%	204.0	97.9%	12.4% *	0	0	0	0.99	0
2006/07	180.0	97.3%	192.0	97.6%	14.2% *	19,487	2,758	16,729	0.99	16,576
2007/08	168.0	96.9%	180.0	97.3%	12.4% *	120,314	14,865	105,449	0.99	104,438
2008/09	156.0	96.5%	168.0	96.9%	11.0% *	72,378	7,931	64,447	0.99	63,792
2009/10	144.0	96.1%	156.0	96.5%	9.8% *	326,214	32,100	294,114	0.99	290,930
2010/11	132.0	94.7%	144.0	96.1%	20.0% *	215,490	43,098	172,392	0.99	170,402
2011/12	120.0	93.3%	132.0	94.7%	20.0% *	193,842	38,768	155,074	0.99	153,509
2012/13	108.0	91.4%	120.0	93.3%	20.0% *	132,447	26,489	105,958	0.99	104,932
2013/14	96.0	88.1%	108.0	91.4%	20.0% *	314,959	62,992	251,967	0.99	249,627
2014/15	84.0	83.9%	96.0	88.1%	20.0% *	331,714	66,343	265,371	0.99	263,170
2015/16	72.0	77.3%	84.0	83.9%	20.0% *	658,185	131,637	526,548	0.99	522,457
2016/17	60.0	70.6%	72.0	77.3%	20.0% *	920,062	184,012	736,050	0.99	730,803
2017/18	48.0	61.1%	60.0	70.6%	20.0% *	1,104,978	220,996	883,982	0.99	877,644
2018/19	36.0	49.7%	48.0	61.1%	20.0% *	2,723,153	544,631	2,178,522	0.99	2,163,107
2019/20	24.0	34.9%	36.0	49.7%	20.0% *	2,864,030	572,806	2,291,224	0.99	2,274,870
2020/21	12.0	15.5%	24.0	34.9%	20.0% *	2,944,680	588,936	2,355,744	0.99	2,338,823
2021/22	0.0	0.0%	12.0	15.5%	15.5% *	3,537,000	548,382	2,988,618	0.99	2,967,088
Total						\$21,276,439	\$3,995,509	\$17,280,930		\$17,159,432

\* - 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-12, (9). The amount for 2021/22 is from Exhibit WC-HC-Indem-10.

(10) is based on a 0.19% 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, 2022 to November 30, 2023

Claim Period (1)	Months of Development 11/30/22 (2)	Percent Losses Paid (3)	Months of Development 11/30/23 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/22 to 11/30/23 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/22 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/23 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/23 (9)X(10) (11)
to 2000/01	264.0	99.3%	276.0	99.5%	20.0% *	\$3,208,594	\$641,719	\$2,566,875	1.00	\$2,554,061
2001/02	252.0	99.0%	264.0	99.3%	20.0% *	2,678	536	2,142	0.99	2,131
2002/03	240.0	98.5%	252.0	99.0%	20.0% *	22,629	4,526	18,103	0.99	18,009
2003/04	228.0	98.4%	240.0	98.5%	6.2% *	99,503	6,213	93,290	0.99	92,802
2004/05	216.0	98.2%	228.0	98.4%	11.1% *	555,337	61,543	493,794	0.99	490,471
2005/06	204.0	97.9%	216.0	98.2%	14.2% *	0	0	0	0.99	0
2006/07	192.0	97.6%	204.0	97.9%	12.4% *	16,729	2,077	14,652	0.99	14,529
2007/08	180.0	97.3%	192.0	97.6%	14.2% *	105,449	14,925	90,524	0.99	89,698
2008/09	168.0	96.9%	180.0	97.3%	12.4% *	64,447	7,963	56,484	0.99	55,943
2009/10	156.0	96.5%	168.0	96.9%	11.0% *	294,114	32,228	261,886	0.99	259,224
2010/11	144.0	96.1%	156.0	96.5%	9.8% *	172,392	16,964	155,428	0.99	153,745
2011/12	132.0	94.7%	144.0	96.1%	20.0% *	155,074	31,015	124,059	0.99	122,627
2012/13	120.0	93.3%	132.0	94.7%	20.0% *	105,958	21,192	84,766	0.99	83,910
2013/14	108.0	91.4%	120.0	93.3%	20.0% *	251,967	50,393	201,574	0.99	199,623
2014/15	96.0	88.1%	108.0	91.4%	20.0% *	265,371	53,074	212,297	0.99	210,325
2015/16	84.0	83.9%	96.0	88.1%	20.0% *	526,548	105,310	421,238	0.99	417,745
2016/17	72.0	77.3%	84.0	83.9%	20.0% *	736,050	147,210	588,840	0.99	584,265
2017/18	60.0	70.6%	72.0	77.3%	20.0% *	883,982	176,796	707,186	0.99	702,145
2018/19	48.0	61.1%	60.0	70.6%	20.0% *	2,178,522	435,704	1,742,818	0.99	1,730,322
2019/20	36.0	49.7%	48.0	61.1%	20.0% *	2,291,224	458,245	1,832,979	0.99	1,820,009
2020/21	24.0	34.9%	36.0	49.7%	20.0% *	2,355,744	471,149	1,884,595	0.99	1,871,143
2021/22	12.0	15.5%	24.0	34.9%	20.0% *	2,988,618	597,724	2,390,894	0.99	2,373,721
2022/23	0.0	0.0%	12.0	15.5%	15.5% *	3,590,000	556,599	3,033,401	0.99	3,011,549
<b>Total</b>						<b>\$20,870,930</b>	<b>\$3,893,105</b>	<b>\$16,977,825</b>		<b>\$16,857,997</b>

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

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

(7) to 2021/22 is from Exhibit WC-HC-Indem-13, (9). The amount for 2022/23 is from Exhibit WC-HC-Indem-10.

(10) is based on a 0.19% 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-15

Loss Rate and Severity Trend

I. Benefit Level Changes

Effective Date (1)	Benefit Level Change (2)	Cumulative Benefit Level Change (3)
06/28/11	0.989	0.989
07/01/11	1.001	0.990
09/01/11	0.983	0.973
01/15/13	1.001	0.974
07/15/13	1.001	0.975
01/15/14	1.001	0.976
01/15/15	1.002	0.978
07/01/15	1.002	0.980
07/15/15	1.002	0.982
01/15/16	1.002	0.984
07/01/16	1.002	0.986
07/15/16	1.002	0.988
07/01/17	1.001	0.989
07/01/18	1.001	0.990
07/15/18	1.001	0.991

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2020/21 = 1.000) (2)	Residual Trend (2020/21 = 1.000) (3)	Retention Index (2020/21 = 1.000) (4)	Loss Rate Trend (2020/21 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2020/21 = 1.000) (6)	Severity Trend (2020/21 = 1.000) (5)X(6) (7)
2010/11	1.011	1.161	1.000	1.173	1.344	1.577
2011/12	1.018	1.143	1.000	1.164	1.305	1.519
2012/13	1.017	1.126	1.000	1.145	1.267	1.451
2013/14	1.015	1.110	1.000	1.127	1.230	1.386
2014/15	1.012	1.093	1.000	1.106	1.194	1.321
2015/16	1.006	1.077	1.000	1.083	1.159	1.256
2016/17	1.003	1.061	1.000	1.064	1.126	1.198
2017/18	1.001	1.046	1.000	1.047	1.093	1.144
2018/19	1.000	1.030	1.000	1.030	1.061	1.093
2019/20	1.000	1.015	1.000	1.015	1.030	1.045
2020/21	1.000	1.000	1.000	1.000	1.000	1.000
2021/22	1.000	0.985	1.000	0.985	0.971	0.957
2022/23	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 11/30/20 (5)	Unlimited Case Reserves 11/30/20 (6)	Unlimited Reported Incurred Losses 11/30/20 (7)
20040024	07/28/89	to 2000/01	Unlimited	\$747,032	\$392,062	\$1,139,094
951084	06/14/95	to 2000/01	Unlimited	187,435	1,623,880	1,811,316
960092	11/12/95	to 2000/01	Unlimited	829,998	606,292	1,436,290
971237	07/28/97	to 2000/01	Unlimited	973,126	457,317	1,430,443
20050890	05/08/05	2004/05	Unlimited	734,139	646,863	1,381,002
201906811	05/08/19	2018/19	Unlimited	102,764	1,270,299	1,373,063

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

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



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)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	4,817	4	4	5	21	11	4,862		
0.01 - 5,000	5,079	127	120	131	98	142	5,697	5,697	71.4%
5,000 - 10,000	644	5	7	7	3	3	669	6,366	79.7%
10,000 - 25,000	677	11	13	9	7	18	735	7,101	89.0%
25,000 - 50,000	359	11	10	11	8	18	417	7,518	94.2%
50,000 - 100,000	227	12	8	14	16	15	292	7,810	97.8%
100,000 - 250,000	114	6	4	2	5	2	133	7,943	99.5%
250,000 - 500,000	23	0	1	0	0	0	24	7,967	99.8%
500,000 - 750,000	7	0	0	0	0	0	7	7,974	99.9%
750,000 - 1,000,000	3	0	0	0	0	0	3	7,977	99.9%
Over 1,000,000	5	0	0	0	1	0	6	7,983	100.0%
<b>Total</b>	<b>11,955</b>	<b>176</b>	<b>167</b>	<b>179</b>	<b>159</b>	<b>209</b>	<b>12,845</b>	<b>7,983</b>	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (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	5,121,336	82,396	66,674	53,811	54,548	75,770	5,454,534	5,454,534	5.4%
5,000 - 10,000	4,641,176	31,858	55,699	47,390	24,383	21,790	4,822,296	10,276,831	10.3%
10,000 - 25,000	10,573,541	170,534	218,618	155,017	105,201	312,220	11,535,132	21,811,963	21.8%
25,000 - 50,000	12,293,324	410,289	379,239	383,161	302,274	686,287	14,454,574	36,266,537	36.2%
50,000 - 100,000	15,458,686	768,419	562,973	967,818	1,193,240	1,024,923	19,976,058	56,242,594	56.2%
100,000 - 250,000	17,396,116	886,909	753,115	211,407	805,052	241,120	20,293,719	76,536,313	76.4%
250,000 - 500,000	7,694,322	0	358,945	0	0	0	8,053,266	84,589,580	84.5%
500,000 - 750,000	4,517,248	0	0	0	0	0	4,517,248	89,106,828	89.0%
750,000 - 1,000,000	2,444,945	0	0	0	0	0	2,444,945	91,551,773	91.4%
Over 1,000,000	7,198,145	0	0	0	1,373,063	0	8,571,208	100,122,981	100.0%
<b>Total</b>	<b>\$87,338,840</b>	<b>\$2,350,404</b>	<b>\$2,395,263</b>	<b>\$1,818,603</b>	<b>\$3,857,760</b>	<b>\$2,362,111</b>	<b>\$100,122,981</b>	<b>\$100,122,981</b>	

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

Data was provided by the County.

CookCounty\_WC\_Healthcare\_Indem\_113020.xlsx



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

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

Data Summary as of November 30, 2020  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Payroll (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Limited Paid Losses 11/30/20 (8)	Limited Case Reserves 11/30/20 (9)	Limited Reported Incurred Losses 11/30/20 (10)
to 2000/01	See Note	See Note	240.0	Not Provided	7,414	14	\$13,020,104	\$331,603	\$13,351,707
2001/02	9,500,000	40,000,000	228.0	434,846	490	1	620,425	0	620,425
2002/03	9,500,000	45,000,000	216.0	441,142	514	2	898,593	20,056	918,650
2003/04	Unlimited	None	204.0	453,644	593	2	1,217,787	110,316	1,328,103
2004/05	Unlimited	None	192.0	458,776	518	1	1,261,368	56,004	1,317,371
2005/06	Unlimited	None	180.0	464,619	510	0	763,576	0	763,576
2006/07	Unlimited	None	168.0	448,051	318	3	925,319	0	925,319
2007/08	Unlimited	None	156.0	445,664	274	5	747,148	3,500	750,648
2008/09	Unlimited	None	144.0	501,624	280	6	689,795	8,187	697,982
2009/10	Unlimited	None	132.0	526,535	214	6	731,311	46,189	777,500
2010/11	Unlimited	None	120.0	489,053	202	10	666,650	24,737	691,387
2011/12	Unlimited	None	108.0	515,084	169	9	976,560	50,679	1,027,239
2012/13	Unlimited	None	96.0	482,783	143	10	1,128,433	190,753	1,319,186
2013/14	Unlimited	None	84.0	482,783	158	11	648,175	36,783	684,958
2014/15	Unlimited	None	72.0	468,483	158	14	481,850	84,017	565,867
2015/16	Unlimited	None	60.0	497,031	176	19	693,484	173,549	867,033
2016/17	Unlimited	None	48.0	529,113	167	27	465,455	382,239	847,695
2017/18	Unlimited	None	36.0	539,050	179	22	363,048	352,493	715,541
2018/19	Unlimited	None	24.0	580,283	159	35	408,147	1,876,970	2,285,117
2019/20	Unlimited	None	12.0	524,163	209	85	143,810	1,372,316	1,516,126
<b>Total</b>					<b>12,845</b>	<b>282</b>	<b>\$26,851,039</b>	<b>\$5,120,390</b>	<b>\$31,971,429</b>

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

Effective Date	Retention	Aggregate
12/01/77	Unlimited	None
12/01/00	9,500,000	40,000,000
12/01/03	Unlimited	see column (3)

(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, 2020  
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Payroll (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Net Unlimited Paid Losses 11/30/20 (8)	Net Unlimited Case Reserves 11/30/20 (9)	Net Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	7,414	14	\$13,020,104	\$331,603	\$13,351,707
2001/02	Unlimited	40,000,000	228.0	434,846	490	1	620,425	0	620,425
2002/03	Unlimited	45,000,000	216.0	441,142	514	2	898,593	20,056	918,650
2003/04	Unlimited	None	204.0	453,644	593	2	1,217,787	110,316	1,328,103
2004/05	Unlimited	None	192.0	458,776	518	1	1,261,368	56,004	1,317,371
2005/06	Unlimited	None	180.0	464,619	510	0	763,576	0	763,576
2006/07	Unlimited	None	168.0	448,051	318	3	925,319	0	925,319
2007/08	Unlimited	None	156.0	445,664	274	5	747,148	3,500	750,648
2008/09	Unlimited	None	144.0	501,624	280	6	689,795	8,187	697,982
2009/10	Unlimited	None	132.0	526,535	214	6	731,311	46,189	777,500
2010/11	Unlimited	None	120.0	489,053	202	10	666,650	24,737	691,387
2011/12	Unlimited	None	108.0	515,084	169	9	976,560	50,679	1,027,239
2012/13	Unlimited	None	96.0	482,783	143	10	1,128,433	190,753	1,319,186
2013/14	Unlimited	None	84.0	482,783	158	11	648,175	36,783	684,958
2014/15	Unlimited	None	72.0	468,483	158	14	481,850	84,017	565,867
2015/16	Unlimited	None	60.0	497,031	176	19	693,484	173,549	867,033
2016/17	Unlimited	None	48.0	529,113	167	27	465,455	382,239	847,695
2017/18	Unlimited	None	36.0	539,050	179	22	363,048	352,493	715,541
2018/19	Unlimited	None	24.0	580,283	159	35	408,147	1,876,970	2,285,117
2019/20	Unlimited	None	12.0	524,163	209	85	143,810	1,372,316	1,516,126
<b>Total</b>					<b>12,845</b>	<b>282</b>	<b>\$26,851,039</b>	<b>\$5,120,390</b>	<b>\$31,971,429</b>

(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, 2020  
Gross Unlimited Losses

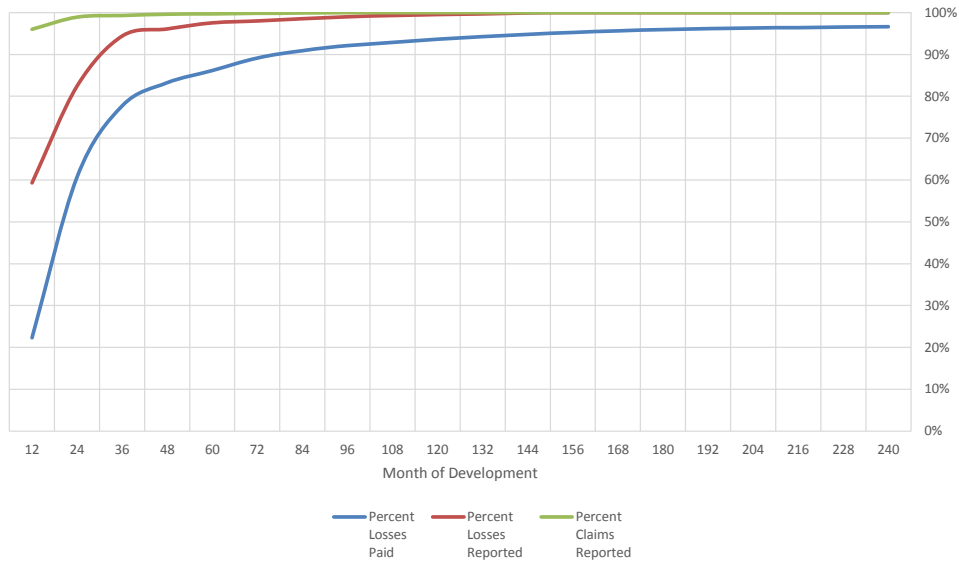
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Payroll (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Gross Unlimited Paid Losses 11/30/20 (8)	Gross Unlimited Case Reserves 11/30/20 (9)	Gross Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	7,414	14	\$13,066,206	\$331,603	\$13,397,809
2001/02	Unlimited	40,000,000	228.0	434,846	490	1	620,425	0	620,425
2002/03	Unlimited	45,000,000	216.0	441,142	514	2	899,025	20,056	919,081
2003/04	Unlimited	None	204.0	453,644	593	2	1,218,670	110,316	1,328,985
2004/05	Unlimited	None	192.0	458,776	518	1	1,261,462	56,004	1,317,466
2005/06	Unlimited	None	180.0	464,619	510	0	763,576	0	763,576
2006/07	Unlimited	None	168.0	448,051	318	3	925,319	0	925,319
2007/08	Unlimited	None	156.0	445,664	274	5	747,148	3,500	750,648
2008/09	Unlimited	None	144.0	501,624	280	6	689,799	8,187	697,986
2009/10	Unlimited	None	132.0	526,535	214	6	731,365	46,189	777,554
2010/11	Unlimited	None	120.0	489,053	202	10	666,650	24,737	691,387
2011/12	Unlimited	None	108.0	515,084	169	9	979,921	50,679	1,030,600
2012/13	Unlimited	None	96.0	482,783	143	10	1,141,853	190,753	1,332,606
2013/14	Unlimited	None	84.0	482,783	158	11	648,248	36,783	685,031
2014/15	Unlimited	None	72.0	468,483	158	14	488,684	84,017	572,701
2015/16	Unlimited	None	60.0	497,031	176	19	694,561	173,549	868,110
2016/17	Unlimited	None	48.0	529,113	167	27	466,362	382,239	848,601
2017/18	Unlimited	None	36.0	539,050	179	22	364,502	352,493	716,995
2018/19	Unlimited	None	24.0	580,283	159	35	408,463	1,876,970	2,285,433
2019/20	Unlimited	None	12.0	524,163	209	85	143,810	1,372,316	1,516,126
<b>Total</b>					<b>12,845</b>	<b>282</b>	<b>\$26,926,050</b>	<b>\$5,120,390</b>	<b>\$32,046,439</b>

(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	86.1%	97.5%	99.7%
48.0	83.2%	96.1%	99.6%
36.0	77.8%	94.4%	99.3%
24.0	60.8%	82.4%	98.9%
12.0	22.3%	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).

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

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 2000/01													\$15,458	\$15,458	\$15,458	\$15,458	\$15,458	\$15,458	\$15,458	\$13,066
2001/02					650	702	702	702	702	702	702	702	702	702	620	620	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	899	899	899
2003/04			827	933	959	972	1,011	1,050	1,072	1,101	1,104	1,105	1,006	1,096	1,158	1,217	1,219			
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	1,261				
2005/06	393	669	720	763	834	875	875	877	877	877	764	764	764	764	764					
2006/07	338	849	840	963	975	977	985	1,033	1,033	925	925	925	925	925						
2007/08	315	656	812	827	799	828	828	852	746	746	747	747	747							
2008/09	217	526	636	702	738	766	778	684	685	688	688	690								
2009/10	119	381	608	674	697	743	698	709	718	726	731									
2010/11	278	590	711	723	734	662	662	662	666	667										
2011/12	167	569	772	997	894	916	916	979	980	980										
2012/13	87	557	811	774	856	946	983	1,142												
2013/14	223	722	591	631	640	643	648													
2014/15	240	311	383	400	405	489														
2015/16	138	444	608	617	695															
2016/17	98	233	360	466																
2017/18	176	301	365																	
2018/19	126	408																		
2019/20	144																			

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 2000/01													1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.845
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	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	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	1.001				
2004/05		1.182	1.135	1.029	1.020	1.014	1.017	1.007	1.013	1.006	1.007	1.001	1.001	1.002	1.005					
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	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	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	1.000								
2008/09	2.422	1.209	1.105	1.051	1.037	1.015	0.880	1.002	1.003	1.000	1.003									
2009/10	3.199	1.597	1.108	1.035	1.066	0.939	1.016	1.013	1.011	1.007										
2010/11	2.122	1.206	1.016	1.016	0.902	1.000	1.000	1.006	1.000											
2011/12	3.402	1.357	1.291	0.896	1.025	1.069	1.001	1.000												
2012/13	6.416	1.455	0.955	1.106	1.106	1.039	1.161													
2013/14	3.246	0.818	1.068	1.013	1.005	1.009														
2014/15	1.295	1.230	1.045	1.013	1.206															
2015/16	3.207	1.371	1.014	1.126																
2016/17	2.384	1.544	1.297																	
2017/18	1.711	1.212																		
2018/19	3.250																			
2019/20																				
Average																				
All	2.782	1.249	1.099	1.028	1.040	1.011	1.016	0.993	0.995	0.988	0.985	0.989	0.992	0.990	1.011	1.000	1.000	1.000	1.000	0.845
Wtd 3	2.360	1.364	1.098	1.056	1.093	1.042	1.061	1.006	1.005	1.003	1.001	1.000	1.001	1.021	1.020	1.001	1.000	1.000	1.000	
Last 3	2.448	1.376	1.119	1.051	1.105	1.039	1.054	1.006	1.005	1.003	1.001	1.000	1.000	1.020	1.018	1.000	1.000	1.000	1.000	
Last 5	2.434	1.271	1.042	1.044	1.045	1.016	1.006	1.003	1.001	1.000	1.000	1.000	1.000	1.001	1.002					
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	2.725	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
Selected	2.725	1.280	1.070	1.035	1.035	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	4.485	1.646	1.286	1.202	1.161	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	22.3%	60.8%	77.8%	83.2%	86.1%	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.



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

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 2000/01													\$15,949	\$15,949	\$15,949	\$15,949	\$15,949	\$15,949	\$15,949	\$13,398
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	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	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	1,317				
2005/06	1,393	1,681	1,726	824	893	875	875	877	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	925						
2007/08	954	932	1,062	849	800	828	828	872	777	780	760	751	751							
2008/09	768	893	693	720	753	794	799	711	721	700	696	698								
2009/10	429	480	690	691	741	778	775	744	789	778	778									
2010/11	442	676	762	778	787	763	706	689	691	691										
2011/12	367	722	869	1,104	1,004	991	1,170	1,037	1,031											
2012/13	385	769	977	969	979	1,235	1,230	1,333												
2013/14	608	1,088	886	736	700	698	685													
2014/15	758	615	536	499	533	573														
2015/16	1,379	1,037	947	883	868															
2016/17	1,400	1,227	932	849																
2017/18	926	803	717																	
2018/19	1,354	2,285																		
2019/20	1,516																			

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 2000/01													1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.840
2001/02					1.023	0.995	0.606	1.000	0.995	1.000	1.000	1.000	1.000	1.000	0.884	1.000	0.998	1.000		
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	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	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	1.000					
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	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	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	1.000								
2008/09	1.164	0.775	1.040	1.045	1.055	1.006	0.890	1.014	0.971	0.994	1.002									
2009/10	1.120	1.437	1.001	1.072	1.051	0.996	0.960	1.060	0.986	1.000										
2010/11	1.528	1.127	1.020	1.012	0.970	0.925	0.976	1.003	1.000											
2011/12	1.966	1.203	1.270	0.910	0.987	1.180	0.886	0.994												
2012/13	1.996	1.270	0.991	1.011	1.261	0.996	1.084													
2013/14	1.790	0.814	0.831	0.951	0.997	0.981														
2014/15	0.812	0.872	0.930	1.070	1.074															
2015/16	0.752	0.913	0.932	0.984																
2016/17	0.876	0.760	0.911																	
2017/18	0.867	0.893																		
2018/19	1.688																			
2019/20																				
Average																				
All	1.303	1.004	0.950	0.974	0.999	0.979	0.962	0.997	0.988	0.983	1.021	0.993	0.984	0.980	1.000	1.000	0.999	1.000	1.000	0.840
Wtd 3	1.173	0.846	0.923	0.992	1.132	1.055	0.985	1.016	0.986	0.989	0.997	1.000	1.016	0.999	1.000	1.000	1.000	1.000		
Last 3	1.144	0.855	0.924	1.001	1.110	1.053	0.982	1.019	0.986	0.990	0.997	1.000	1.012	0.999	1.000	1.000	0.999			
Last 5	0.852	0.860	0.924	0.982	1.019	0.991	0.942	1.004	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	1.390	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
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 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 2000/01												7,413	7,413	7,413	7,413	7,413	7,413	7,413	7,413	7,414
2001/02					489	489	489	489	489	489	489	489	490	490	490	490	490	490	490	490
2002/03				512	512	513	513	513	513	513	513	514	514	514	514	514	514	514	514	514
2003/04			589	589	590	591	591	591	591	591	593	593	593	593	593	593	593	593	593	593
2004/05		516	516	516	517	517	517	517	517	518	518	518	518	518	518	518	518	518	518	518
2005/06	503	507	509	511	511	511	511	511	510	510	510	510	510	510	510	510	510	510	510	510
2006/07	306	313	313	313	313	314	314	318	318	318	318	318	318	318	318	318	318	318	318	318
2007/08	263	266	267	268	267	267	274	274	274	274	274	274	274	274	274	274	274	274	274	274
2008/09	241	244	270	270	271	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280
2009/10	181	204	205	206	213	213	214	214	214	214	214	214	214	214	214	214	214	214	214	214
2010/11	187	193	193	201	201	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202
2011/12	158	161	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169
2012/13	136	140	142	143	143	143	143	143	143	143	143	143	143	143	143	143	143	143	143	143
2013/14	145	155	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158
2014/15	149	155	157	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158
2015/16	169	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176
2016/17	149	166	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167
2017/18	174	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179
2018/19	153	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159
2019/20	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209

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 2000/01													1.000	1.000	1.000	1.000	1.000	1.000	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	1.000	1.000
2002/03				1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2003/04			1.000	1.002	1.002	1.000	1.000	1.000	1.000	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2004/05		1.000	1.000	1.002	1.000	1.000	1.000	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005/06	1.008	1.004	1.004	1.000	1.000	1.000	1.000	0.998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2006/07	1.023	1.000	1.000	1.000	1.003	1.000	1.013	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2007/08	1.011	1.004	1.004	0.996	1.000	1.026	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008/09	1.012	1.107	1.000	1.004	1.033	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009/10	1.127	1.005	1.005	1.034	1.000	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
2010/11	1.032	1.000	1.041	1.000	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
2011/12	1.019	1.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2012/13	1.029	1.014	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2013/14	1.069	1.019	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2014/15	1.040	1.013	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2015/16	1.041	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2016/17	1.114	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2017/18	1.029	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2018/19	1.039	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2019/20	1.039	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Average																				
All	1.042	1.016	1.005	1.003	1.003	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Wtd 3	1.059	1.002	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
Last 3	1.061	1.002	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
Last 5	1.040	1.006	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
x-hi,low																				
Similar	1.131	1.019	1.010	1.007	1.007	1.005	1.005	1.006	1.006	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Previous	1.030	1.004	1.003	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Selected	1.030	1.004	1.003	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Cumulative	1.041	1.011	1.007	1.004	1.003	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Percent	96.0%	98.9%	99.3%	99.6%	99.7%	99.8%	99.9%	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%

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 2000/01													96.9%	96.9%	96.9%	96.9%	96.9%	96.9%	96.9%	96.9%	97.5%
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%	99.8%	99.8%	100.0%	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%	77.3%	75.7%	82.4%	87.2%	91.6%	91.7%				
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%	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%	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%	98.8%									
2009/10	27.7%	79.2%	88.1%	97.5%	94.1%	95.4%	90.0%	95.3%	91.1%	93.4%	94.1%										
2010/11	62.8%	87.2%	93.3%	93.0%	93.3%	86.7%	93.9%	96.1%	96.4%	96.4%											
2011/12	45.5%	78.8%	88.8%	90.3%	89.0%	92.4%	83.6%	94.5%	95.1%												
2012/13	22.5%	72.4%	82.9%	79.9%	87.4%	76.6%	79.9%	85.7%													
2013/14	36.6%	66.4%	66.7%	85.7%	91.3%	92.1%	94.6%														
2014/15	31.7%	50.6%	71.4%	80.2%	76.0%	85.3%															
2015/16	10.0%	42.8%	64.2%	69.9%	80.0%																
2016/17	7.0%	19.0%	38.6%	55.0%																	
2017/18	19.0%	37.5%	50.8%																		
2018/19	9.3%	17.9%																			
2019/20	9.5%																				
<b>Average</b>																					
All	26.9%	55.3%	69.3%	79.9%	84.3%	88.4%	91.8%	96.7%	97.3%	98.2%	98.9%	96.7%	96.1%	96.0%	96.2%	96.4%	96.6%	98.2%	98.5%	97.5%	
Last 3	12.6%	24.8%	51.2%	68.3%	82.4%	84.7%	86.1%	92.1%	94.2%	96.0%	97.0%	99.5%	99.8%	98.4%	94.1%	95.0%	96.5%	98.2%			
Last 5	9.6%	33.1%	60.6%	76.7%	85.5%	88.0%	89.2%	95.3%	95.4%	96.8%	99.0%	99.5%	99.3%	97.6%	97.7%	96.8%					
x-hi,low																					
Implicit	37.6%	73.7%	82.4%	86.6%	88.3%	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%	74.1%	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%	



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

Exhibit WC-HC-Med-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/20 (2)	Limited Paid Losses 11/30/20 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 2000/01	240.0	\$13,020,104	96.6%	\$13,475,808
2001/02	228.0	620,425	96.5%	642,782
2002/03	216.0	898,593	96.4%	931,905
2003/04	204.0	1,217,787	96.3%	1,264,195
2004/05	192.0	1,261,368	96.1%	1,312,055
2005/06	180.0	763,576	95.9%	795,848
2006/07	168.0	925,319	95.7%	967,320
2007/08	156.0	747,148	95.3%	784,187
2008/09	144.0	689,795	94.8%	727,610
2009/10	132.0	731,311	94.2%	776,030
2010/11	120.0	666,650	93.7%	711,660
2011/12	108.0	976,560	92.8%	1,051,877
2012/13	96.0	1,128,433	92.1%	1,225,187
2013/14	84.0	648,175	90.9%	712,899
2014/15	72.0	481,850	89.1%	540,565
2015/16	60.0	693,484	86.1%	805,217
2016/17	48.0	465,455	83.2%	559,364
2017/18	36.0	363,048	77.8%	466,836
2018/19	24.0	408,147	60.8%	671,780
2019/20	12.0	143,810	22.3%	645,011
<b>Total</b>		<b>\$26,851,039</b>		<b>\$29,068,136</b>

(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 11/30/20 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 2000/01	240.0	\$13,351,707	100.0%	\$13,351,707
2001/02	228.0	620,425	100.0%	620,425
2002/03	216.0	918,650	100.0%	918,650
2003/04	204.0	1,328,103	100.0%	1,328,103
2004/05	192.0	1,317,371	100.0%	1,317,371
2005/06	180.0	763,576	100.0%	763,576
2006/07	168.0	925,319	100.0%	925,319
2007/08	156.0	750,648	100.0%	750,648
2008/09	144.0	697,982	99.9%	698,680
2009/10	132.0	777,500	99.7%	779,834
2010/11	120.0	691,387	99.5%	694,849
2011/12	108.0	1,027,239	99.3%	1,034,449
2012/13	96.0	1,319,186	99.0%	1,332,429
2013/14	84.0	684,958	98.5%	695,294
2014/15	72.0	565,867	98.0%	577,278
2015/16	60.0	867,033	97.5%	888,939
2016/17	48.0	847,695	96.1%	882,149
2017/18	36.0	715,541	94.4%	758,027
2018/19	24.0	2,285,117	82.4%	2,771,814
2019/20	12.0	1,516,126	59.3%	2,556,264
<b>Total</b>		<b>\$31,971,429</b>		<b>\$33,645,803</b>

(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 11/30/20 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/20 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/20 (6)	Limited Case Reserves 11/30/20 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 2000/01	240.0	96.6%	100.0%	100.0%	\$13,020,104	\$331,603	\$13,351,707
2001/02	228.0	96.5%	100.0%	100.0%	620,425	0	620,425
2002/03	216.0	96.4%	100.0%	100.0%	898,593	20,056	918,650
2003/04	204.0	96.3%	100.0%	100.0%	1,217,787	110,316	1,328,103
2004/05	192.0	96.1%	100.0%	100.0%	1,261,368	56,004	1,317,371
2005/06	180.0	95.9%	100.0%	100.0%	763,576	0	763,576
2006/07	168.0	95.7%	100.0%	100.0%	925,319	0	925,319
2007/08	156.0	95.3%	100.0%	100.0%	747,148	3,500	750,648
2008/09	144.0	94.8%	99.9%	98.1%	689,795	8,187	698,143
2009/10	132.0	94.2%	99.7%	94.8%	731,311	46,189	780,030
2010/11	120.0	93.7%	99.5%	92.1%	666,650	24,737	693,502
2011/12	108.0	92.8%	99.3%	90.3%	976,560	50,679	1,032,704
2012/13	96.0	92.1%	99.0%	87.4%	1,128,433	190,753	1,346,651
2013/14	84.0	90.9%	98.5%	83.6%	648,175	36,783	692,160
2014/15	72.0	89.1%	98.0%	81.8%	481,850	84,017	584,558
2015/16	60.0	86.1%	97.5%	82.2%	693,484	173,549	904,509
2016/17	48.0	83.2%	96.1%	76.7%	465,455	382,239	963,579
2017/18	36.0	77.8%	94.4%	74.8%	363,048	352,493	834,360
2018/19	24.0	60.8%	82.4%	55.3%	408,147	1,876,970	3,804,927
2019/20	12.0	22.3%	59.3%	47.6%	143,810	1,372,316	3,024,706
Total					\$26,851,039	\$5,120,390	\$35,335,628

(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 2019/20

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 2000/01	\$13,475,808	\$13,351,707	\$13,351,707	\$13,352,000
2001/02	642,782	620,425	620,425	620,000
2002/03	931,905	918,650	918,650	919,000
2003/04	1,264,195	1,328,103	1,328,103	1,328,000
2004/05	1,312,055	1,317,371	1,317,371	1,317,000
2005/06	795,848	763,576	763,576	764,000
2006/07	967,320	925,319	925,319	925,000
2007/08	784,187	750,648	750,648	751,000
2008/09	727,610	698,680	698,143	699,000
2009/10	776,030	779,834	780,030	780,000
2010/11	711,660	694,849	693,502	695,000
2011/12	1,051,877	1,034,449	1,032,704	1,034,000
2012/13	1,225,187	1,332,429	1,346,651	1,332,000
2013/14	712,899	695,294	692,160	695,000
2014/15	540,565	577,278	584,558	577,000
2015/16	805,217	888,939	904,509	889,000
2016/17	559,364	882,149	963,579	882,000
2017/18	466,836	758,027	834,360	758,000
2018/19	671,780	2,771,814	3,804,927	1,722,000
2019/20	645,011	2,556,264	3,024,706	1,601,000
<b>Total</b>	<b>\$29,068,136</b>	<b>\$33,645,803</b>	<b>\$35,335,628</b>	<b>\$31,640,000</b>

(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.

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 (2020/21 = 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)
2010/11	\$695,000	\$489,053	\$0.14	1.415	\$0.20	\$0.17
2011/12	1,034,000	515,084	0.20	1.510	0.30	0.16
2012/13	1,332,000	482,783	0.28	1.447	0.40	0.17
2013/14	695,000	482,783	0.14	1.378	0.20	0.17
2014/15	577,000	468,483	0.12	1.310	0.16	0.18
2015/16	889,000	497,031	0.18	1.255	0.22	0.19
2016/17	882,000	529,113	0.17	1.200	0.20	0.20
2017/18	758,000	539,050	0.14	1.142	0.16	0.21
2018/19	1,722,000	580,283	0.30	1.083	0.32	0.22
2019/20	1,601,000	524,163	0.31	1.040	0.32	0.23

(7) Projected 2020/21 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 11/30/20 (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)
2015/16	\$693,484	86.1%	\$0.19	\$497,031	\$132,461	\$825,946
2016/17	465,455	83.2%	0.20	529,113	178,451	643,907
2017/18	363,048	77.8%	0.21	539,050	253,032	616,080
2018/19	408,147	60.8%	0.22	580,283	506,919	915,066
2019/20	143,810	22.3%	0.23	524,163	944,014	1,087,825

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/20 (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)
2015/16	\$867,033	97.5%	\$0.19	\$497,031	\$23,524	\$890,557
2016/17	847,695	96.1%	0.20	529,113	41,515	889,210
2017/18	715,541	94.4%	0.21	539,050	63,790	779,331
2018/19	2,285,117	82.4%	0.22	580,283	226,809	2,511,926
2019/20	1,516,126	59.3%	0.23	524,163	494,333	2,010,459

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 11/30/20 (2)	Reported Claims 11/30/20 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2010/11	120.0	202	100.0%	202	\$489,053	0.41
2011/12	108.0	169	100.0%	169	515,084	0.33
2012/13	96.0	143	100.0%	143	482,783	0.30
2013/14	84.0	158	99.9%	158	482,783	0.33
2014/15	72.0	158	99.8%	158	468,483	0.34
2015/16	60.0	176	99.7%	177	497,031	0.36
2016/17	48.0	167	99.6%	168	529,113	0.32
2017/18	36.0	179	99.3%	180	539,050	0.33
2018/19	24.0	159	98.9%	161	580,283	0.28
2019/20	12.0	209	96.0%	218	524,163	0.42

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2020/21 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2020/21 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2010/11	\$695,000	202	\$3,441	1.901	\$6,541	\$4,721	\$953,587
2011/12	1,034,000	169	6,118	1.970	12,054	4,555	769,834
2012/13	1,332,000	143	9,315	1.833	17,070	4,897	700,313
2013/14	695,000	158	4,399	1.695	7,456	5,294	836,517
2014/15	577,000	158	3,652	1.564	5,712	5,738	906,569
2015/16	889,000	177	5,023	1.455	7,308	6,168	1,091,801
2016/17	882,000	168	5,250	1.350	7,090	6,646	1,116,447
2017/18	758,000	180	4,211	1.248	5,253	7,194	1,294,918
2018/19	1,722,000	161	10,696	1.149	12,287	7,812	1,257,756
2019/20	1,601,000	218	7,344	1.071	7,867	8,378	1,826,441
						(7) Projected 2020/21 average claim severity	\$8,975

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 2019/20

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 2000/01	\$13,475,808	\$13,351,707	\$13,351,707				\$13,425,561	\$13,390,000
2001/02	642,782	620,425	620,425				621,000	621,000
2002/03	931,905	918,650	918,650				919,000	919,000
2003/04	1,264,195	1,328,103	1,328,103				1,328,103	1,328,103
2004/05	1,312,055	1,317,371	1,317,371				1,317,371	1,317,371
2005/06	795,848	763,576	763,576				763,576	763,576
2006/07	967,320	925,319	925,319				925,319	925,319
2007/08	784,187	750,648	750,648				751,000	751,000
2008/09	727,610	698,680	698,143				697,000	698,000
2009/10	776,030	779,834	780,030				782,000	780,000
2010/11	711,660	694,849	693,502				694,000	694,000
2011/12	1,051,877	1,034,449	1,032,704				1,052,000	1,040,000
2012/13	1,225,187	1,332,429	1,346,651				1,270,000	1,340,000
2013/14	712,899	695,294	692,160				712,000	695,000
2014/15	540,565	577,278	584,558				550,000	570,000
2015/16	805,217	888,939	904,509	825,946	890,557	1,091,801	923,000	890,000
2016/17	559,364	882,149	963,579	643,907	889,210	1,116,447	989,000	890,000
2017/18	466,836	758,027	834,360	616,080	779,331	1,294,918	991,000	800,000
2018/19	671,780	2,771,814	3,804,927	915,066	2,511,926	1,257,756	1,675,000	2,500,000
2019/20	645,011	2,556,264	3,024,706	1,087,825	2,010,459	1,826,441	1,214,000	2,000,000
<b>Total</b>	<b>\$29,068,136</b>	<b>\$33,645,803</b>	<b>\$35,335,628</b>				<b>\$31,599,930</b>	<b>\$32,912,369</b>
2015/16 - 2019/20	3,148,208	7,857,193	9,532,082	4,088,823	7,081,482	6,587,363	5,792,000	7,080,000
to 2014/15	25,919,927	25,788,611	25,803,546				25,807,930	25,832,369
						<b>Change</b>		
						All years		\$1,312,439
						2015/16 - 2019/20		1,288,000
						to 2014/15		24,439

(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 2020/21 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 (2020/21 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2010/11	\$694,000	\$489,053	\$0.14	1.415	\$0.20
2011/12	1,040,000	515,084	0.20	1.510	0.30
2012/13	1,340,000	482,783	0.28	1.447	0.40
2013/14	695,000	482,783	0.14	1.378	0.20
2014/15	570,000	468,483	0.12	1.310	0.16
2015/16	890,000	497,031	0.18	1.255	0.22
2016/17	890,000	529,113	0.17	1.200	0.20
2017/18	800,000	539,050	0.15	1.142	0.17
2018/19	2,500,000	580,283	0.43	1.083	0.47
2019/20	2,000,000	524,163	0.38	1.040	0.40
Total	\$11,419,000	\$5,107,826	\$0.22		\$0.27

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)
2020/21	\$0.26	\$591,829	\$1,531,000	0.99	\$0.26	\$1,522,000
2021/22	0.27	591,829	1,592,000	0.99	0.27	1,582,000
2022/23	0.28	591,829	1,655,000	0.99	0.28	1,646,000

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

(3) was provided by the County.

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

(7) 2020/21 is based on (6) and actuarial judgment.  
Other period(s) based on 2020/21 plus the trend in Exhibit WC-HC-Med-15.

(8) to 2020/21 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 0.19% 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, 2020

Claim Period (1)	Limited Paid Losses 11/30/20 (2)	Limited Case Reserves 11/30/20 (3)	Limited Reported Incurred Losses 11/30/20 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/20 (5)-(4) (6)	Estimated Outstanding Losses 11/30/20 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/20 (7)X(8) (9)
to 2000/01	\$13,020,104	\$331,603	\$13,351,707	\$13,390,000	\$38,293	\$369,896	0.99	\$367,962
2001/02	620,425	0	620,425	621,000	575	575	0.99	571
2002/03	898,593	20,056	918,650	919,000	350	20,406	0.99	20,230
2003/04	1,217,787	110,316	1,328,103	1,328,103	0	110,316	0.99	109,186
2004/05	1,261,368	56,004	1,317,371	1,317,371	0	56,004	0.99	55,356
2005/06	763,576	0	763,576	763,576	0	0	0.99	0
2006/07	925,319	0	925,319	925,319	0	0	0.99	0
2007/08	747,148	3,500	750,648	751,000	352	3,852	0.99	3,796
2008/09	689,795	8,187	697,982	698,000	18	8,205	0.99	8,082
2009/10	731,311	46,189	777,500	780,000	2,500	48,689	0.98	47,946
2010/11	666,650	24,737	691,387	694,000	2,613	27,350	0.98	26,921
2011/12	976,560	50,679	1,027,239	1,040,000	12,761	63,440	0.98	62,449
2012/13	1,128,433	190,753	1,319,186	1,340,000	20,814	211,567	0.98	208,193
2013/14	648,175	36,783	684,958	695,000	10,042	46,825	0.98	46,094
2014/15	481,850	84,017	565,867	570,000	4,133	88,150	0.99	86,848
2015/16	693,484	173,549	867,033	890,000	22,967	196,516	0.99	193,916
2016/17	465,455	382,239	847,695	890,000	42,305	424,544	0.99	419,175
2017/18	363,048	352,493	715,541	800,000	84,459	436,952	0.99	432,060
2018/19	408,147	1,876,970	2,285,117	2,500,000	214,883	2,091,853	0.99	2,075,503
2019/20	143,810	1,372,316	1,516,126	2,000,000	483,874	1,856,190	0.99	1,846,227
<b>Total</b>	<b>\$26,851,039</b>	<b>\$5,120,390</b>	<b>\$31,971,429</b>	<b>\$32,912,369</b>	<b>\$940,939</b>	<b>\$6,061,330</b>		<b>\$6,010,515</b>

(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 0.19% 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, 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 2000/01	240.0	96.6%	252.0	97.6%	30.0%	\$369,896	\$110,969	\$258,927	0.99	\$257,587
2001/02	228.0	96.5%	240.0	96.6%	2.8%	575	16	559	0.99	556
2002/03	216.0	96.4%	228.0	96.5%	2.7%	20,406	550	19,856	0.99	19,718
2003/04	204.0	96.3%	216.0	96.4%	2.6%	110,316	2,895	107,421	0.99	106,496
2004/05	192.0	96.1%	204.0	96.3%	5.0%	56,004	2,787	53,217	0.99	52,672
2005/06	180.0	95.9%	192.0	96.1%	4.7%	0	0	0	0.99	0
2006/07	168.0	95.7%	180.0	95.9%	6.6%	0	0	0	0.99	0
2007/08	156.0	95.3%	168.0	95.7%	8.1%	3,852	311	3,541	0.99	3,492
2008/09	144.0	94.8%	156.0	95.3%	9.1%	8,205	748	7,457	0.99	7,349
2009/10	132.0	94.2%	144.0	94.8%	9.8%	48,689	4,777	43,912	0.99	43,255
2010/11	120.0	93.7%	132.0	94.2%	8.9%	27,350	2,431	24,919	0.98	24,539
2011/12	108.0	92.8%	120.0	93.7%	11.7%	63,440	7,403	56,037	0.98	55,158
2012/13	96.0	92.1%	108.0	92.8%	9.3%	211,567	19,740	191,827	0.98	188,830
2013/14	84.0	90.9%	96.0	92.1%	13.0%	46,825	6,096	40,729	0.98	40,080
2014/15	72.0	89.1%	84.0	90.9%	16.4%	88,150	14,468	73,682	0.98	72,531
2015/16	60.0	86.1%	72.0	89.1%	21.7%	196,516	42,690	153,826	0.99	151,554
2016/17	48.0	83.2%	60.0	86.1%	17.3%	424,544	73,648	350,896	0.99	346,254
2017/18	36.0	77.8%	48.0	83.2%	24.5%	436,952	106,991	329,961	0.99	325,788
2018/19	24.0	60.8%	36.0	77.8%	43.3%	2,091,853	906,789	1,185,064	0.99	1,171,796
2019/20	12.0	22.3%	24.0	60.8%	49.5%	1,856,190	918,735	937,455	0.99	930,128
2020/21	0.0	0.0%	12.0	22.3%	22.3%	1,531,000	341,349	1,189,651	0.99	1,183,266
Total						\$7,592,330	\$2,563,393	\$5,028,937		\$4,981,049

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

(7) to 2019/20 is from Exhibit WC-HC-Med-11. The amount for 2020/21 is from Exhibit WC-HC-Med-10.

(10) is based on a 0.19% 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, 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 2000/01	252.0	97.6%	264.0	98.3%	30.0%	\$258,927	\$77,678	\$181,249	0.99	\$180,325
2001/02	240.0	96.6%	252.0	97.6%	30.0%	559	168	391	0.99	389
2002/03	228.0	96.5%	240.0	96.6%	2.8%	19,856	551	19,305	0.99	19,204
2003/04	216.0	96.4%	228.0	96.5%	2.7%	107,421	2,898	104,523	0.99	103,797
2004/05	204.0	96.3%	216.0	96.4%	2.6%	53,217	1,396	51,821	0.99	51,375
2005/06	192.0	96.1%	204.0	96.3%	5.0%	0	0	0	0.99	0
2006/07	180.0	95.9%	192.0	96.1%	4.7%	0	0	0	0.99	0
2007/08	168.0	95.7%	180.0	95.9%	6.6%	3,541	234	3,307	0.99	3,265
2008/09	156.0	95.3%	168.0	95.7%	8.1%	7,457	602	6,855	0.99	6,760
2009/10	144.0	94.8%	156.0	95.3%	9.1%	43,912	4,005	39,907	0.99	39,329
2010/11	132.0	94.2%	144.0	94.8%	9.8%	24,919	2,445	22,474	0.99	22,138
2011/12	120.0	93.7%	132.0	94.2%	8.9%	56,037	4,980	51,057	0.98	50,278
2012/13	108.0	92.8%	120.0	93.7%	11.7%	191,827	22,385	169,442	0.98	166,783
2013/14	96.0	92.1%	108.0	92.8%	9.3%	40,729	3,800	36,929	0.98	36,352
2014/15	84.0	90.9%	96.0	92.1%	13.0%	73,682	9,592	64,090	0.98	63,068
2015/16	72.0	89.1%	84.0	90.9%	16.4%	153,826	25,248	128,578	0.98	126,570
2016/17	60.0	86.1%	72.0	89.1%	21.7%	350,896	76,226	274,670	0.99	270,613
2017/18	48.0	83.2%	60.0	86.1%	17.3%	329,961	57,240	272,721	0.99	269,113
2018/19	36.0	77.8%	48.0	83.2%	24.5%	1,185,064	290,172	894,892	0.99	883,575
2019/20	24.0	60.8%	36.0	77.8%	43.3%	937,455	406,373	531,082	0.99	525,136
2020/21	12.0	22.3%	24.0	60.8%	49.5%	1,189,651	588,826	600,825	0.99	596,129
2021/22	0.0	0.0%	12.0	22.3%	22.3%	1,592,000	354,949	1,237,051	0.99	1,230,411
Total						\$6,620,937	\$1,929,768	\$4,691,169		\$4,644,610

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

(7) to 2020/21 is from Exhibit WC-HC-Med-12, (9). The amount for 2021/22 is from Exhibit WC-HC-Med-10.

(10) is based on a 0.19% 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-14

Projected Losses Paid December 1, 2022 to November 30, 2023

Claim Period (1)	Months of Development 11/30/22 (2)	Percent Losses Paid (3)	Months of Development 11/30/23 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/22 to 11/30/23 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/22 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/23 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/23 (9)X(10) (11)
to 2000/01	264.0	98.3%	276.0	98.8%	30.0%	\$181,249	\$54,375	\$126,874	1.00	\$126,241
2001/02	252.0	97.6%	264.0	98.3%	30.0%	391	117	274	0.99	273
2002/03	240.0	96.6%	252.0	97.6%	30.0%	19,305	5,792	13,513	0.99	13,443
2003/04	228.0	96.5%	240.0	96.6%	2.8%	104,523	2,901	101,622	0.99	101,091
2004/05	216.0	96.4%	228.0	96.5%	2.7%	51,821	1,398	50,423	0.99	50,073
2005/06	204.0	96.3%	216.0	96.4%	2.6%	0	0	0	0.99	0
2006/07	192.0	96.1%	204.0	96.3%	5.0%	0	0	0	0.99	0
2007/08	180.0	95.9%	192.0	96.1%	4.7%	3,307	156	3,151	0.99	3,115
2008/09	168.0	95.7%	180.0	95.9%	6.6%	6,855	453	6,402	0.99	6,320
2009/10	156.0	95.3%	168.0	95.7%	8.1%	39,907	3,220	36,687	0.99	36,180
2010/11	144.0	94.8%	156.0	95.3%	9.1%	22,474	2,050	20,424	0.99	20,128
2011/12	132.0	94.2%	144.0	94.8%	9.8%	51,057	5,010	46,047	0.99	45,358
2012/13	120.0	93.7%	132.0	94.2%	8.9%	169,442	15,058	154,384	0.98	152,027
2013/14	108.0	92.8%	120.0	93.7%	11.7%	36,929	4,309	32,620	0.98	32,108
2014/15	96.0	92.1%	108.0	92.8%	9.3%	64,090	5,980	58,110	0.98	57,202
2015/16	84.0	90.9%	96.0	92.1%	13.0%	128,578	16,739	111,839	0.98	110,056
2016/17	72.0	89.1%	84.0	90.9%	16.4%	274,670	45,082	229,588	0.98	226,003
2017/18	60.0	86.1%	72.0	89.1%	21.7%	272,721	59,244	213,477	0.99	210,324
2018/19	48.0	83.2%	60.0	86.1%	17.3%	894,892	155,242	739,650	0.99	729,865
2019/20	36.0	77.8%	48.0	83.2%	24.5%	531,082	130,040	401,042	0.99	395,970
2020/21	24.0	60.8%	36.0	77.8%	43.3%	600,825	260,449	340,376	0.99	336,565
2021/22	12.0	22.3%	24.0	60.8%	49.5%	1,237,051	612,287	624,764	0.99	619,881
2022/23	0.0	0.0%	12.0	22.3%	22.3%	1,655,000	368,995	1,286,005	0.99	1,279,103
<b>Total</b>						<b>\$6,346,169</b>	<b>\$1,748,897</b>	<b>\$4,597,272</b>		<b>\$4,551,326</b>

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

(7) to 2021/22 is from Exhibit WC-HC-Med-13, (9). The amount for 2022/23 is from Exhibit WC-HC-Med-10.

(10) is based on a 0.19% 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-15

Loss Rate and Severity Trend

I. Benefit Level Changes

Effective Date (1)	Benefit Level Change (2)	Cumulative Benefit Level Change (3)
01/01/11	1.015	1.015
09/01/11	0.853	0.866
01/01/12	1.015	0.879
11/20/12	0.994	0.874
01/01/13	1.009	0.881
01/01/14	1.008	0.888
07/16/14	1.003	0.891
01/01/15	1.010	0.900
01/01/16	1.003	0.903
01/01/17	1.006	0.908
01/01/18	1.011	0.918
01/01/19	1.014	0.931

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2020/21 = 1.000) (2)	Residual Trend (2020/21 = 1.000) (3)	Retention Index (2020/21 = 1.000) (4)	Loss Rate Trend (2020/21 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2020/21 = 1.000) (6)	Severity Trend (2020/21 = 1.000) (5)X(6) (7)
2010/11	0.956	1.480	1.000	1.415	1.344	1.901
2011/12	1.061	1.423	1.000	1.510	1.305	1.970
2012/13	1.057	1.369	1.000	1.447	1.267	1.833
2013/14	1.047	1.316	1.000	1.378	1.230	1.695
2014/15	1.035	1.265	1.000	1.310	1.194	1.564
2015/16	1.032	1.217	1.000	1.255	1.159	1.455
2016/17	1.026	1.170	1.000	1.200	1.126	1.350
2017/18	1.015	1.125	1.000	1.142	1.093	1.248
2018/19	1.001	1.082	1.000	1.083	1.061	1.149
2019/20	1.000	1.040	1.000	1.040	1.030	1.071
2020/21	1.000	1.000	1.000	1.000	1.000	1.000
2021/22	1.000	0.962	1.000	0.962	0.971	0.934
2022/23	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 11/30/20 (5)	Unlimited Case Reserves 11/30/20 (6)	Unlimited Reported Incurred Losses 11/30/20 (7)
894134	07/23/91	to 2000/01	Unlimited	\$1,198,386	\$1,590	\$1,199,976

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

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



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

Exhibit WC-HC-Med-17

Size of Loss Distribution

I. Reported Claim Count

Claim Size (1)	Prior (2)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	7,543	97	101	104	87	108	8,040		
0.01 - 5,000	3,583	53	43	48	36	51	3,814	3,814	79.4%
5,000 - 10,000	301	10	10	6	4	1	332	4,146	86.3%
10,000 - 25,000	317	3	2	10	11	28	371	4,517	94.0%
25,000 - 50,000	129	10	7	10	7	17	180	4,697	97.8%
50,000 - 100,000	55	2	3	1	12	3	76	4,773	99.3%
100,000 - 250,000	19	1	1	0	1	1	23	4,796	99.8%
250,000 - 500,000	5	0	0	0	0	0	5	4,801	99.9%
500,000 - 750,000	2	0	0	0	0	0	2	4,803	100.0%
750,000 - 1,000,000	0	0	0	0	1	0	1	4,804	100.0%
Over 1,000,000	1	0	0	0	0	0	1	4,805	100.0%
<b>Total</b>	<b>11,955</b>	<b>176</b>	<b>167</b>	<b>179</b>	<b>159</b>	<b>209</b>	<b>12,845</b>	<b>4,805</b>	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (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	3,542,147	75,721	74,473	71,323	44,319	88,876	3,896,859	3,896,859	12.2%
5,000 - 10,000	2,164,160	72,062	78,929	38,402	30,119	5,950	2,389,623	6,286,482	19.7%
10,000 - 25,000	5,035,334	53,360	34,808	160,330	205,033	518,350	6,007,217	12,293,699	38.5%
25,000 - 50,000	4,503,846	377,585	240,185	385,485	234,703	603,450	6,345,254	18,638,953	58.3%
50,000 - 100,000	3,654,547	148,304	275,376	60,000	793,246	180,500	5,111,973	23,750,925	74.3%
100,000 - 250,000	2,641,137	140,000	143,923	0	111,997	119,000	3,156,056	26,906,982	84.2%
250,000 - 500,000	1,761,723	0	0	0	0	0	1,761,723	28,668,704	89.7%
500,000 - 750,000	1,237,048	0	0	0	0	0	1,237,048	29,905,752	93.5%
750,000 - 1,000,000	0	0	0	0	865,700	0	865,700	30,771,452	96.2%
Over 1,000,000	1,199,976	0	0	0	0	0	1,199,976	31,971,429	100.0%
<b>Total</b>	<b>\$25,739,917</b>	<b>\$867,033</b>	<b>\$847,695</b>	<b>\$715,541</b>	<b>\$2,285,117</b>	<b>\$1,516,126</b>	<b>\$31,971,429</b>	<b>\$31,971,429</b>	

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

Data was provided by the County.

CookCounty\_WC\_Healthcare\_Med\_113020.xlsx



COOK COUNTY, ILLINOIS  
MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Data Summary as of November 30, 2020  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Limited Paid Losses 11/30/20 (8)	Limited Case Reserves 11/30/20 (9)	Limited Reported Incurred Losses 11/30/20 (10)
to 2000/01	See Note	See Note	240.0	Not Provided	25	0	\$12,012,000	\$0	\$12,012,000
2001/02	15,000,000	50,000,000	228.0	Not Provided	16	0	1,000,000	0	1,000,000
2002/03	20,000,000	80,000,000	216.0	Not Provided	10	0	19,000	0	19,000
2003/04	20,000,000	None	204.0	785	18	0	2,958,500	0	2,958,500
2004/05	20,000,000	None	192.0	748	16	0	750	0	750
2005/06	20,000,000	None	180.0	733	18	0	1,000,000	0	1,000,000
2006/07	20,000,000	None	168.0	613	13	0	2,500	0	2,500
2007/08	20,000,000	None	156.0	Not Provided	8	0	1,000,000	0	1,000,000
2008/09	20,000,000	None	144.0	Not Provided	1	0	0	0	0
2009/10	40,000,000	None	132.0	Not Provided	4	0	1,310,000	0	1,310,000
2010/11	40,000,000	None	120.0	Not Provided	1	0	3,000	0	3,000
2011/12	40,000,000	None	108.0	929	3	0	10,000	0	10,000
2012/13	30,000,000	None	96.0	862	7	0	0	0	0
2013/14	30,000,000	None	84.0	862	0	0	0	0	0
2014/15	25,000,000	None	72.0	877	5	1	41,000	3,000,000	3,041,000
2015/16	25,000,000	80,000,000	60.0	961	3	1	1,955,000	1,000,000	2,955,000
2016/17	25,000,000	80,000,000	48.0	1,303	1	0	900,000	0	900,000
2017/18	25,000,000	80,000,000	36.0	1,300	0	0	0	0	0
2018/19	25,000,000	80,000,000	24.0	1,282	1	0	0	0	0
2019/20	35,000,000	80,000,000	12.0	1,267	0	0	0	0	0
<b>Total</b>					<b>150</b>	<b>2</b>	<b>\$22,211,750</b>	<b>\$4,000,000</b>	<b>\$26,211,750</b>

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

Effective Date	Retention	Aggregate
12/01/70	Unlimited	None
12/01/00	10,000,000	25,000,000
12/01/01	15,000,000	see column (3)
12/01/02	20,000,000	see column (3)
03/01/10	40,000,000	see column (3)
03/01/13	30,000,000	see column (3)
07/01/15	25,000,000	see column (3)
07/01/20	35,000,000	see column (3)

(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, 2020  
 Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Net Unlimited Paid Losses 11/30/20 (8)	Net Unlimited Case Reserves 11/30/20 (9)	Net Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	25	0	\$12,012,000	\$0	\$12,012,000
2001/02	Unlimited	50,000,000	228.0	Not Provided	16	0	1,000,000	0	1,000,000
2002/03	Unlimited	80,000,000	216.0	Not Provided	10	0	19,000	0	19,000
2003/04	Unlimited	None	204.0	785	18	0	2,958,500	0	2,958,500
2004/05	Unlimited	None	192.0	748	16	0	750	0	750
2005/06	Unlimited	None	180.0	733	18	0	1,000,000	0	1,000,000
2006/07	Unlimited	None	168.0	613	13	0	2,500	0	2,500
2007/08	Unlimited	None	156.0	Not Provided	8	0	1,000,000	0	1,000,000
2008/09	Unlimited	None	144.0	Not Provided	1	0	0	0	0
2009/10	Unlimited	None	132.0	Not Provided	4	0	1,310,000	0	1,310,000
2010/11	Unlimited	None	120.0	Not Provided	1	0	3,000	0	3,000
2011/12	Unlimited	None	108.0	929	3	0	10,000	0	10,000
2012/13	Unlimited	None	96.0	862	7	0	0	0	0
2013/14	Unlimited	None	84.0	862	0	0	0	0	0
2014/15	Unlimited	None	72.0	877	5	1	41,000	3,000,000	3,041,000
2015/16	Unlimited	80,000,000	60.0	961	3	1	1,955,000	1,000,000	2,955,000
2016/17	Unlimited	80,000,000	48.0	1,303	1	0	900,000	0	900,000
2017/18	Unlimited	80,000,000	36.0	1,300	0	0	0	0	0
2018/19	Unlimited	80,000,000	24.0	1,282	1	0	0	0	0
2019/20	Unlimited	80,000,000	12.0	1,267	0	0	0	0	0
<b>Total</b>					<b>150</b>	<b>2</b>	<b>\$22,211,750</b>	<b>\$4,000,000</b>	<b>\$26,211,750</b>

(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, 2020  
 Gross Unlimited Losses

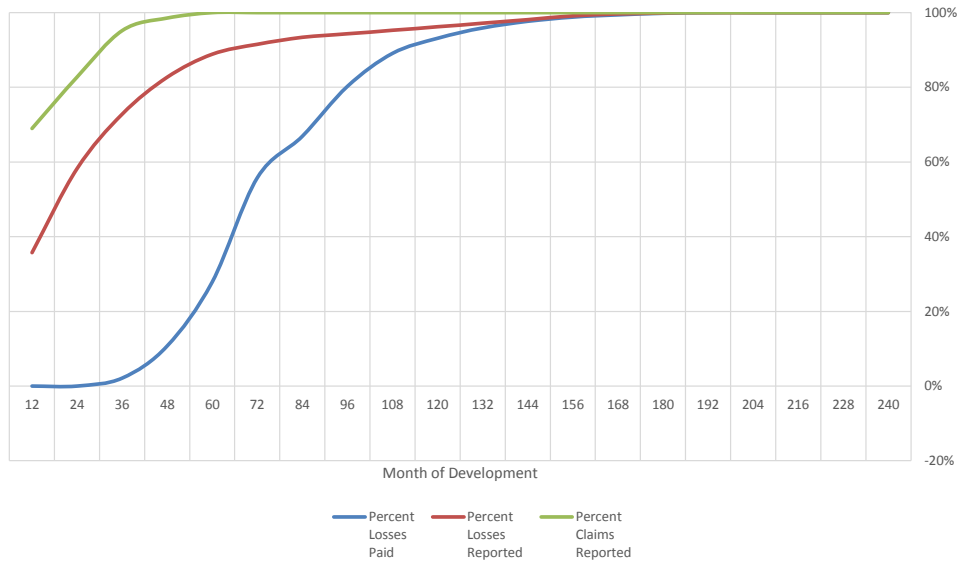
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Gross Unlimited Paid Losses 11/30/20 (8)	Gross Unlimited Case Reserves 11/30/20 (9)	Gross Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	25	0	\$12,012,000	\$0	\$12,012,000
2001/02	Unlimited	50,000,000	228.0	Not Provided	16	0	1,000,000	0	1,000,000
2002/03	Unlimited	80,000,000	216.0	Not Provided	10	0	19,000	0	19,000
2003/04	Unlimited	None	204.0	785	18	0	2,958,500	0	2,958,500
2004/05	Unlimited	None	192.0	748	16	0	750	0	750
2005/06	Unlimited	None	180.0	733	18	0	1,000,000	0	1,000,000
2006/07	Unlimited	None	168.0	613	13	0	2,500	0	2,500
2007/08	Unlimited	None	156.0	Not Provided	8	0	1,000,000	0	1,000,000
2008/09	Unlimited	None	144.0	Not Provided	1	0	0	0	0
2009/10	Unlimited	None	132.0	Not Provided	4	0	1,310,000	0	1,310,000
2010/11	Unlimited	None	120.0	Not Provided	1	0	3,000	0	3,000
2011/12	Unlimited	None	108.0	929	3	0	10,000	0	10,000
2012/13	Unlimited	None	96.0	862	7	0	0	0	0
2013/14	Unlimited	None	84.0	862	0	0	0	0	0
2014/15	Unlimited	None	72.0	877	5	1	41,000	3,000,000	3,041,000
2015/16	Unlimited	80,000,000	60.0	961	3	1	1,955,000	1,000,000	2,955,000
2016/17	Unlimited	80,000,000	48.0	1,303	1	0	900,000	0	900,000
2017/18	Unlimited	80,000,000	36.0	1,300	0	0	0	0	0
2018/19	Unlimited	80,000,000	24.0	1,282	1	0	0	0	0
2019/20	Unlimited	80,000,000	12.0	1,267	0	0	0	0	0
<b>Total</b>					<b>150</b>	<b>2</b>	<b>\$22,211,750</b>	<b>\$4,000,000</b>	<b>\$26,211,750</b>

(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	99.8%	99.9%	100.0%
168.0	99.4%	99.6%	100.0%
156.0	98.8%	99.1%	100.0%
144.0	97.6%	98.1%	100.0%
132.0	95.9%	97.2%	100.0%
120.0	93.1%	96.2%	100.0%
108.0	89.1%	95.2%	100.0%
96.0	80.3%	94.3%	100.0%
84.0	66.9%	93.4%	100.0%
72.0	55.7%	91.5%	100.0%
60.0	27.9%	88.9%	100.0%
48.0	10.7%	82.7%	98.5%
36.0	2.1%	72.8%	95.2%
24.0	0.0%	58.3%	82.8%
12.0	0.0%	35.7%	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 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 2000/01																				\$285,259	\$285,259	\$285,259
2001/02	0	0	30	9,351	12,349	16,054	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	24,848	24,848	24,848	24,848	24,848	24,848	
2002/03	10	12	1,260	1,263	3,248	4,488	4,888	4,986	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,313	5,313	5,313	5,313	5,313	5,313	
2003/04	0	0	0	8,781	16,656	18,246	19,496	19,646	19,646	19,646	19,646	19,646	19,646	19,196	19,196	19,196	19,196	19,196	19,196	19,196	19,196	
2004/05	0	90	107	5,775	16,665	18,715	18,715	18,715	18,715	19,715	19,715	19,715	19,715	19,698	19,698	19,698	19,698	19,698	19,698	19,698	33,698	
2005/06	0	1	516	528	6,778	9,228	9,908	11,533	11,603	23,603	24,028	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,750	
2006/07	0	16	16	26	2,016	2,016	4,766	4,766	4,766	4,766	4,753	4,753	4,753	4,753	4,753	4,753	4,753	4,753	4,753	4,753	4,753	
2007/08	0	127	127	3,677	6,027	8,427	8,427	8,427	8,427	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	
2008/09	0	0	2,445	3,155	3,155	4,405	5,155	8,155	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	
2009/10	0	0	0	2,318	7,653	10,438	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	
2010/11	0	0	0	2,850	4,878	5,168	5,468	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	
2011/12	0	20,100	20,825	24,390	26,195	34,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	
2012/13	0	850	850	2,330	5,590	20,255	35,565	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	
2013/14	0	0	0	825	1,675	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	
2014/15	0	25	30	58	3,966	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	
2015/16	90	2,590	4,540	4,835	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	
2016/17	0	0	900	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	
2017/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2018/19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2019/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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 2000/01																				1.000	1.000
2001/02			311.700	1.321	1.300	1.561	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.992	1.000	1.000	1.000	1.000	1.000	1.000
2002/03	1.150	109.565	1.002	2.572	1.382	1.089	1.020	1.066	1.000	1.000	1.000	1.000	1.000	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000
2003/04				1.897	1.095	1.069	1.008	1.000	1.000	1.000	1.000	1.000	0.977	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2004/05		1.189	53.971	2.886	1.123	1.000	1.000	1.000	1.000	1.053	1.000	1.000	0.999	1.000	1.000	1.711	1.000	1.000	1.000	1.000	1.000
2005/06		1032.000	1.023	12.837	1.361	1.074	1.164	1.006	2.034	1.018	0.999	1.000	1.000	1.031	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2006/07		1.000	1.621	77.245	1.000	2.364	1.000	1.000	1.000	0.997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2007/08		1.000	28.953	1.639	1.398	1.000	1.000	1.000	0.985	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008/09			1.290	1.000	1.396	1.170	1.582	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009/10				3.302	1.364	1.073	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2010/11				1.712	1.059	1.058	1.960	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2011/12		1.036	1.171	1.074	1.309	1.087	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2012/13		1.000	2.741	2.399	3.623	1.756	1.724	1.724	1.724	1.724	1.724	1.724	1.724	1.724	1.724	1.724	1.724	1.724	1.724	1.724	1.724
2013/14				2.030	1.224	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2014/15		1.200	1.933	68.379	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504
2015/16	28.778	1.753	1.065	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050
2016/17			2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667
2017/18																					
2018/19																					
2019/20																					
Average																					
All	14.964	127.749	34.095	12.090	1.510	1.254	1.205	1.007	1.107	1.002	1.000	1.000	0.996	1.006	1.176	1.000	1.000	1.000	1.000	1.000	1.000
Wtd 3		2.100	1.333	1.874	2.870	1.324	1.396	1.000	1.000	1.000	1.000	1.000	1.000	1.012	1.317	1.000	1.000	1.000	1.000	1.000	1.000
Last 3			1.888	23.820	2.450	1.281	1.561	1.000	1.000	1.000	1.000	1.000	1.000	1.010	1.237	1.000	1.000	1.000	1.000	1.000	1.000
Last 5				1.834	1.679	1.073	1.435	1.000	1.000	1.000	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																					
Previous	2.000	120.000	5.000	2.600	2.000	1.200	1.180	1.120	1.050	1.040	1.020	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Selected	2.000	120.000	5.000	2.600	2.000	1.200	1.200	1.110	1.045	1.030	1.018	1.012	1.006	1.004	1.002	1.000	1.000	1.000	1.000	1.000	1.000
Cumulative	#####	5596.562	46.638	9.328	3.588	1.794	1.495	1.246	1.122	1.074	1.043	1.024	1.012	1.006	1.002	1.000	1.000	1.000	1.000	1.000	1.000
Percent	0.0%	0.0%	2.1%	10.7%	27.9%	55.7%	66.9%	80.3%	89.1%	93.1%	95.9%	97.6%	98.8%	99.4%	99.8%	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 and is for Cermak, Stroger and Provident combined.

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 2000/01																			\$285,259	\$285,259	\$285,259
2001/02	33,740	25,655	29,808	24,761	25,134	31,305	25,861	26,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	24,848	24,848	24,848	24,848	24,848	
2002/03	26,711	16,022	31,503	8,413	8,248	6,788	5,688	5,336	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,313	5,313	5,313	5,313	5,313	
2003/04	28,331	39,505	26,840	38,771	29,756	28,646	20,246	20,146	19,646	19,646	19,646	19,646	19,646	19,196	19,196	19,196	19,196	19,196	19,196	19,196	
2004/05	9,450	27,041	20,842	24,110	21,345	19,465	18,715	19,715	19,715	19,715	19,715	19,715	19,715	29,698	39,698	33,698	33,698	33,698	33,698	33,698	
2005/06	14,276	35,957	22,631	24,828	17,228	16,758	13,858	15,603	25,603	25,603	24,028	24,250	25,000	24,750	24,750						
2006/07	11,046	13,126	8,721	5,787	4,726	5,646	5,496	4,766	4,766	4,766	4,853	4,853	4,853	4,853							
2007/08	24,827	12,544	17,152	18,477	12,927	12,227	10,927	8,427	8,427	8,302	8,302	8,302	8,302								
2008/09	5,235	6,890	9,775	10,255	9,555	10,005	8,255	8,405	8,205	8,205	8,205	8,705									
2009/10	5,095	8,253	15,550	16,368	13,503	12,388	11,203	11,203	11,203	11,203	11,203										
2010/11	770	3,900	8,530	11,105	11,183	10,673	9,968	10,718	10,718	10,818											
2011/12	23,923	34,253	39,927	39,455	39,455	39,045	37,644	38,344	38,044	43,644											
2012/13	6,925	12,000	29,150	39,255	61,465	66,155	70,215	63,015													
2013/14	1,560	7,155	6,400	5,575	3,125	2,700															
2014/15	7,000	8,225	8,630	16,108	38,101	29,431															
2015/16	5,190	8,620	11,315	12,990	13,930																
2016/17	450	2,376	9,851	28,000																	
2017/18	1,450	3,955	16,980																		
2018/19	50	5,155																			
2019/20	0																				

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 2000/01																			1.000	1.000
2001/02	0.760	1.162	0.831	1.015	1.246	0.826	1.008	0.962	1.000	1.000	1.000	1.000	1.000	1.000	0.992	1.000	1.000	1.000	1.000	
2002/03	0.600	0.360	1.458	0.980	0.823	0.838	0.938	0.996	1.000	1.000	1.000	1.000	1.000	0.999	1.000	1.000	1.000	1.000	1.000	
2003/04	1.394	0.679	1.445	0.767	0.963	0.707	0.995	0.975	1.000	1.000	1.000	1.000	0.977	1.000	1.000	1.000				
2004/05	2.861	0.771	1.157	0.885	0.912	0.961	1.053	1.000	1.000	1.000	1.000	1.506	1.337	0.849	1.000					
2005/06	2.519	0.629	1.097	0.694	0.973	0.827	1.126	1.641	1.000	0.938	1.009	1.031	0.990	1.000						
2006/07	1.188	0.664	0.664	0.817	1.195	0.973	0.867	1.000	1.000	1.018	1.000	1.000	1.000							
2007/08	0.505	1.367	1.077	0.700	0.946	0.894	0.771	1.000	0.985	1.000	1.000	1.000								
2008/09	1.316	1.419	1.049	0.932	1.047	0.825	1.018	0.976	1.000	1.000	1.061									
2009/10	1.620	1.884	1.053	0.825	0.917	0.904	1.000	1.000	1.000	1.000										
2010/11	5.065	2.187	1.302	1.007	0.954	0.934	1.075	1.000	1.009											
2011/12	1.432	1.166	0.988	0.990	0.964	1.019	0.992	1.147												
2012/13	1.733	2.429	1.347	1.566	1.076	1.061	0.897													
2013/14	4.587	0.894	0.871	0.561	0.864	1.000														
2014/15	1.175	1.049	1.867	2.365	0.772															
2015/16	1.661	1.313	1.148	1.072																
2016/17	5.279	4.147	2.842																	
2017/18	2.728	4.293																		
2018/19	103.100																			
2019/20																				
Average																				
All	7.751	1.554	1.262	1.012	0.975	0.905	0.978	1.063	0.999	0.995	1.009	1.077	1.051	0.970	0.998	1.000	1.000	1.000	1.000	
Wtd 3	5.890	2.551	1.916	1.591	0.957	1.045	0.943	1.093	1.003	1.000	1.023	1.020	1.164	0.928	1.000	1.000				
Last 3	37.035	3.251	1.952	1.333	0.904	1.027	0.988	1.049	1.003	1.000	1.020	1.010	1.109	0.950	1.000	1.000				
Last 5	3.222	2.170	1.454	1.209	0.928	0.984	1.003	1.000	1.000	1.000	1.003	1.010	0.997	1.000						
x-hi,low																				
Previous	1.600	1.225	1.125	1.075	1.050	1.020	1.020	1.020	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Selected	1.630	1.250	1.135	1.075	1.030	1.020	1.010	1.010	1.010	1.010	1.010	1.010	1.005	1.003	1.001	1.000	1.000	1.000	1.000	
Cumulative	2.797	1.716	1.373	1.210	1.125	1.093	1.071	1.060	1.050	1.040	1.029	1.019	1.009	1.004	1.001	1.000	1.000	1.000	1.000	
Percent	35.7%	58.3%	72.8%	82.7%	88.9%	91.5%	93.4%	94.3%	95.2%	96.2%	97.2%	98.1%	99.1%	99.6%	99.9%	100.0%	100.0%	100.0%	100.0%	

Amounts are limited (net of excess insurance).

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



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 2000/01																				520	520
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	
2005/06											100	101	101	101	101	101					
2006/07										72	73	73	73	73							
2007/08									51	51	51	51	51								
2008/09									46	46	46	46	47								
2009/10									51	51	51	51	51								
2010/11									59	59	60	60	60								
2011/12						56	56	59	56	57	57	59									
2012/13				64	65	65	65	65													
2013/14			41	42	42	42	42														
2014/15		33	43	45	47	47															
2015/16	35	46	53	56	57																
2016/17	12	19	25	26																	
2017/18	28	34	39																		
2018/19	29	38																			
2019/20	15																				

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 2000/01																				1.000
2001/02															1.000	1.000	1.000	1.000	1.000	
2002/03														1.000	1.000	1.000	1.000	1.000	1.000	
2003/04													1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2004/05												1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2005/06												1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2006/07										1.014	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	1.010	
2007/08									1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2008/09								1.000	1.000	1.000	1.000	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	
2009/10							1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2010/11						1.000	1.000	1.017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2011/12					1.000	1.018	1.000	1.035	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2012/13				1.016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2013/14			1.024	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2014/15		1.303	1.047	1.044	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2015/16	1.314	1.152	1.057	1.018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2016/17	1.583	1.316	1.040	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2017/18	1.214	1.147	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2018/19	1.310	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2019/20	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Average																				
All	1.356	1.230	1.042	1.019	1.000	1.004	1.004	1.009	1.000	1.003	1.008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Wtd 3	1.319	1.182	1.050	1.021	1.000	1.006	1.006	1.012	1.000	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Last 3	1.369	1.205	1.048	1.021	1.000	1.006	1.006	1.012	1.000	1.000	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Last 5																				
x-hi,low																				
Previous	1.200	1.150	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
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.

COOK COUNTY, ILLINOIS  
MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

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 2000/01																			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%	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%	100.0%						
2006/07	0.0%	0.1%	0.2%	0.5%	42.7%	35.7%	86.7%	100.0%	100.0%	100.0%	97.9%	97.9%	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%	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%	94.3%									
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	100.0%	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%	100.0%	99.1%											
2011/12	0.0%	58.7%	52.2%	61.8%	67.1%	91.1%	97.3%	98.0%	85.5%												
2012/13	0.0%	7.1%	2.9%	5.9%	9.1%	30.6%	50.7%	97.3%													
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%	33.7%															
2015/16	1.7%	30.0%	40.1%	37.2%	36.4%																
2016/17	0.0%	0.0%	9.1%	8.6%																	
2017/18	0.0%	0.0%	0.0%																		
2018/19	0.0%	0.0%																			
2019/20																					
<b>Average</b>																					
All	0.1%	5.4%	9.1%	20.1%	44.1%	60.4%	81.2%	95.7%	93.2%	99.1%	99.8%	98.9%	94.3%	90.8%	91.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 3			16.4%	15.4%	33.5%	46.8%	74.6%	98.4%	95.2%	99.7%	100.0%	97.4%	98.0%	81.5%	86.2%	100.0%	100.0%	100.0%			
Last 5	0.0%	0.1%	3.2%	9.8%	33.5%	52.7%	76.0%	98.4%	100.0%	100.0%	100.0%	99.0%	98.0%	98.3%	100.0%						
x-hi,low																					
Implicit	0.0%	0.0%	2.9%	13.0%	31.4%	60.9%	71.7%	85.1%	93.6%	96.8%	98.7%	99.5%	99.7%	99.8%	99.9%	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 11/30/20 (2)	Limited Paid Losses 11/30/20 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 2000/01	240.0	\$12,012,000	100.0%	\$12,012,000
2001/02	228.0	1,000,000	100.0%	1,000,000
2002/03	216.0	19,000	100.0%	19,000
2003/04	204.0	2,958,500	100.0%	2,958,500
2004/05	192.0	750	100.0%	750
2005/06	180.0	1,000,000	99.8%	1,002,000
2006/07	168.0	2,500	99.4%	2,515
2007/08	156.0	1,000,000	98.8%	1,012,044
2008/09	144.0	0	97.6%	0
2009/10	132.0	1,310,000	95.9%	1,365,837
2010/11	120.0	3,000	93.1%	3,222
2011/12	108.0	10,000	89.1%	11,222
2012/13	96.0	0	80.3%	0
2013/14	84.0	0	66.9%	0
2014/15	72.0	41,000	55.7%	73,545
2015/16	60.0	1,955,000	27.9%	7,013,640
2016/17	48.0	900,000	10.7%	8,394,842
2017/18	36.0	0	2.1%	0
2018/19	24.0	0	0.0%	0
2019/20	12.0	0	0.0%	0
<b>Total</b>		<b>\$22,211,750</b>		<b>\$34,869,117</b>

(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 11/30/20 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 2000/01	240.0	\$12,012,000	100.0%	\$12,012,000
2001/02	228.0	1,000,000	100.0%	1,000,000
2002/03	216.0	19,000	100.0%	19,000
2003/04	204.0	2,958,500	100.0%	2,958,500
2004/05	192.0	750	100.0%	750
2005/06	180.0	1,000,000	99.9%	1,001,000
2006/07	168.0	2,500	99.6%	2,510
2007/08	156.0	1,000,000	99.1%	1,009,023
2008/09	144.0	0	98.1%	0
2009/10	132.0	1,310,000	97.2%	1,348,389
2010/11	120.0	3,000	96.2%	3,119
2011/12	108.0	10,000	95.2%	10,500
2012/13	96.0	0	94.3%	0
2013/14	84.0	0	93.4%	0
2014/15	72.0	3,041,000	91.5%	3,322,354
2015/16	60.0	2,955,000	88.9%	3,325,249
2016/17	48.0	900,000	82.7%	1,088,724
2017/18	36.0	0	72.8%	0
2018/19	24.0	0	58.3%	0
2019/20	12.0	0	35.7%	0
<b>Total</b>		<b>\$26,211,750</b>		<b>\$27,101,117</b>

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

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



COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-5

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/20 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/20 (6)	Limited Case Reserves 11/30/20 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 2000/01	240.0	100.0%	100.0%	100.0%	\$12,012,000	\$0	\$12,012,000
2001/02	228.0	100.0%	100.0%	100.0%	1,000,000	0	1,000,000
2002/03	216.0	100.0%	100.0%	100.0%	19,000	0	19,000
2003/04	204.0	100.0%	100.0%	100.0%	2,958,500	0	2,958,500
2004/05	192.0	100.0%	100.0%	100.0%	750	0	750
2005/06	180.0	99.8%	99.9%	50.0%	1,000,000	0	1,000,000
2006/07	168.0	99.4%	99.6%	33.2%	2,500	0	2,500
2007/08	156.0	98.8%	99.1%	24.9%	1,000,000	0	1,000,000
2008/09	144.0	97.6%	98.1%	20.6%	0	0	0
2009/10	132.0	95.9%	97.2%	30.4%	1,310,000	0	1,310,000
2010/11	120.0	93.1%	96.2%	44.7%	3,000	0	3,000
2011/12	108.0	89.1%	95.2%	56.3%	10,000	0	10,000
2012/13	96.0	80.3%	94.3%	71.1%	0	0	0
2013/14	84.0	66.9%	93.4%	79.9%	0	0	0
2014/15	72.0	55.7%	91.5%	80.9%	41,000	3,000,000	3,750,990
2015/16	60.0	27.9%	88.9%	84.6%	1,955,000	1,000,000	3,137,559
2016/17	48.0	10.7%	82.7%	80.6%	900,000	0	900,000
2017/18	36.0	2.1%	72.8%	72.2%	0	0	0
2018/19	24.0	0.0%	58.3%	58.3%	0	0	0
2019/20	12.0	0.0%	35.7%	35.7%	0	0	0
<b>Total</b>					<b>\$22,211,750</b>	<b>\$4,000,000</b>	<b>\$27,104,298</b>

(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 2019/20

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 2000/01	\$12,012,000	\$12,012,000	\$12,012,000	\$12,012,000
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	1,002,000	1,001,000	1,000,000	1,000,000
2006/07	2,515	2,510	2,500	2,500
2007/08	1,012,044	1,009,023	1,000,000	1,000,000
2008/09	0	0	0	0
2009/10	1,365,837	1,348,389	1,310,000	1,310,000
2010/11	3,222	3,119	3,000	3,000
2011/12	11,222	10,500	10,000	10,000
2012/13	0	0	0	0
2013/14	0	0	0	0
2014/15	73,545	3,322,354	3,750,990	3,622,399
2015/16	7,013,640	3,325,249	3,137,559	3,212,635
2016/17	8,394,842	1,088,724	900,000	900,000
2017/18	0	0	0	0
2018/19	0	0	0	0
2019/20	0	0	0	0
<b>Total</b>	<b>\$34,869,117</b>	<b>\$27,101,117</b>	<b>\$27,104,298</b>	<b>\$27,050,784</b>

(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 (2020/21 = 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)
2010/11	\$3,000	929	\$3.23	1.473	\$4.75	\$698.88
2011/12	10,000	929	10.76	1.416	15.24	726.84
2012/13	0	862	0.00	1.377	0.00	747.55
2013/14	0	862	0.00	1.329	0.00	774.64
2014/15	3,622,399	877	4,132.03	1.283	5,302.24	802.27
2015/16	3,212,635	961	3,342.67	1.241	4,148.21	829.56
2016/17	900,000	1,303	690.77	1.193	824.26	862.74
2017/18	0	1,300	0.00	1.147	0.00	897.25
2018/19	0	1,282	0.00	1.103	0.00	933.14
2019/20	0	1,267	0.00	1.052	0.00	978.49

(7) Projected 2020/21 a-priori loss rate per Occupied Bed Equivalent \$1,029.47

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/20 (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)
2015/16	\$1,955,000	27.9%	\$829.56	961	\$575,049	\$2,530,049
2016/17	900,000	10.7%	862.74	1,303	1,003,556	1,903,556
2017/18	0	2.1%	897.25	1,300	1,141,732	1,141,732
2018/19	0	0.0%	933.14	1,282	1,196,525	1,196,525
2019/20	0	0.0%	978.49	1,267	1,240,073	1,240,073

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/20 (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)
2015/16	\$2,955,000	88.9%	\$829.56	961	\$88,774	\$3,043,774
2016/17	900,000	82.7%	862.74	1,303	194,850	1,094,850
2017/18	0	72.8%	897.25	1,300	316,969	316,969
2018/19	0	58.3%	933.14	1,282	499,441	499,441
2019/20	0	35.7%	978.49	1,267	796,864	796,864

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 11/30/20 (2)	Reported Claims 11/30/20 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2010/11	120.0	1	100.0%	1	929	0.00
2011/12	108.0	3	100.0%	3	929	0.00
2012/13	96.0	7	100.0%	7	862	0.01
2013/14	84.0	0	100.0%	0	862	0.00
2014/15	72.0	5	100.0%	5	877	0.01
2015/16	60.0	3	100.0%	3	961	0.00
2016/17	48.0	1	98.5%	1	1,303	0.00
2017/18	36.0	0	95.2%	0	1,300	0.00
2018/19	24.0	1	82.8%	1	1,282	0.00
2019/20	12.0	0	69.0%	0	1,267	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 (2020/21 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2020/21 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2010/11	\$3,000	1	\$3,000	1.473	\$4,419	\$226,858	\$226,858
2011/12	10,000	3	3,333	1.416	4,721	235,932	707,797
2012/13	0	7	0	1.377	0	242,654	1,698,580
2013/14	0	0	0	1.329	0	251,450	0
2014/15	3,622,399	5	724,480	1.283	929,655	260,416	1,302,081
2015/16	3,212,635	3	1,070,878	1.241	1,328,945	269,275	807,826
2016/17	900,000	1	900,000	1.193	1,073,930	280,046	280,046
2017/18	0	0	0	1.147	0	291,248	0
2018/19	0	1	0	1.103	0	302,898	302,898
2019/20	0	0	0	1.052	0	317,618	0

(7) Projected 2020/21 average claim severity

\$334,167

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.





COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-9

Projected Ultimate Limited Losses to 2019/20

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 2000/01	\$12,012,000	\$12,012,000	\$12,012,000				\$12,012,000	\$12,012,000
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	1,002,000	1,001,000	1,000,000				1,000,000	1,000,000
2006/07	2,515	2,510	2,500				2,500	2,500
2007/08	1,012,044	1,009,023	1,000,000				1,000,000	1,000,000
2008/09	0	0	0					0
2009/10	1,365,837	1,348,389	1,310,000				1,310,000	1,310,000
2010/11	3,222	3,119	3,000				3,000	3,000
2011/12	11,222	10,500	10,000				10,000	10,000
2012/13	0	0	0					0
2013/14	0	0	0					0
2014/15	73,545	3,322,354	3,750,990				3,250,000	3,250,000
2015/16	7,013,640	3,325,249	3,137,559	2,530,049	3,043,774	807,826	3,300,000	3,213,000
2016/17	8,394,842	1,088,724	900,000	1,903,556	1,094,850	280,046	1,500,000	1,000,000
2017/18	0	0	0	1,141,732	316,969		1,000,000	730,000
2018/19	0	0	0	1,196,525	499,441	302,898	1,000,000	850,000
2019/20	0	0	0	1,240,073	796,864		1,666,000	1,000,000
<b>Total</b>	<b>\$34,869,117</b>	<b>\$27,101,117</b>	<b>\$27,104,298</b>				<b>\$31,031,750</b>	<b>\$29,358,750</b>
2015/16 - 2019/20	15,408,482	4,413,973	4,037,559	8,011,936	5,751,898	1,390,771	8,466,000	6,793,000
to 2014/15	19,460,635	22,687,144	23,066,740				22,565,750	22,565,750
						<b>Change</b>		
						All years		-\$1,673,000
						2015/16 - 2019/20		-1,673,000
						to 2014/15		0

- (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 2020/21 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 (2020/21 = 1,000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2010/11	\$3,000	929	\$3.23	1.473	\$4.75
2011/12	10,000	929	10.76	1.416	15.24
2012/13	0	862	0.00	1.377	0.00
2013/14	0	862	0.00	1.329	0.00
2014/15	3,250,000	877	3,707.24	1.283	4,757.14
2015/16	3,213,000	961	3,343.05	1.241	4,148.68
2016/17	1,000,000	1,303	767.52	1.193	915.84
2017/18	730,000	1,300	561.38	1.147	644.11
2018/19	850,000	1,282	662.77	1.103	731.19
2019/20	1,000,000	1,267	788.98	1.052	830.09
Total	\$10,056,000	10,574	\$951.01		\$1,204.71

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)
2020/21	\$1,170.40	1,267	\$1,483,000	0.99	\$1,156.45	\$1,466,000
2021/22	1,217.22	1,267	1,543,000	0.99	1,202.70	1,524,000
2022/23	1,265.91	1,267	1,604,000	0.99	1,250.81	1,585,000

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

(3) 2011/12, 2012/13, 2013/14, 2014/15, 2015/16, 2016/17, 2017/18, 2018/19 and 2019/20 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) 2020/21 is based on an average of the limited paid and limited reported incurred B-F and development methods using 12 months of experience. Other period(s) based on 2020/21 plus a 4% trend.

(8) to 2020/21 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit MM-Cermak-2.

Estimated Outstanding Losses as of November 30, 2020

Claim Period (1)	Limited Paid Losses 11/30/20 (2)	Limited Case Reserves 11/30/20 (3)	Limited Reported Incurred Losses 11/30/20 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/20 (5)-(4) (6)	Estimated Outstanding Losses 11/30/20 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/20 (7)X(8) (9)
to 2000/01	\$12,012,000	\$0	\$12,012,000	\$12,012,000	\$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	1.00	0
2009/10	1,310,000	0	1,310,000	1,310,000	0	0	1.00	0
2010/11	3,000	0	3,000	3,000	0	0	1.00	0
2011/12	10,000	0	10,000	10,000	0	0	1.00	0
2012/13	0	0	0	0	0	0	1.00	0
2013/14	0	0	0	0	0	0	1.00	0
2014/15	41,000	3,000,000	3,041,000	3,250,000	209,000	3,209,000	1.00	3,195,124
2015/16	1,955,000	1,000,000	2,955,000	3,213,000	258,000	1,258,000	1.00	1,252,744
2016/17	900,000	0	900,000	1,000,000	100,000	100,000	0.99	99,492
2017/18	0	0	0	730,000	730,000	730,000	0.99	725,297
2018/19	0	0	0	850,000	850,000	850,000	0.99	843,056
2019/20	0	0	0	1,000,000	1,000,000	1,000,000	0.99	989,950
<b>Total</b>	<b>\$22,211,750</b>	<b>\$4,000,000</b>	<b>\$26,211,750</b>	<b>\$29,358,750</b>	<b>\$3,147,000</b>	<b>\$7,147,000</b>		<b>\$7,105,663</b>

(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 0.19% interest rate and the payout pattern in Exhibit MM-Cermak-2.



COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-12

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 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	99.8%	192.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	168.0	99.4%	180.0	99.8%	66.6%	0	0	0	1.00	0
2007/08	156.0	98.8%	168.0	99.4%	49.8%	0	0	0	1.00	0
2008/09	144.0	97.6%	156.0	98.8%	49.6%	0	0	0	1.00	0
2009/10	132.0	95.9%	144.0	97.6%	42.2%	0	0	0	1.00	0
2010/11	120.0	93.1%	132.0	95.9%	40.6%	0	0	0	1.00	0
2011/12	108.0	89.1%	120.0	93.1%	36.8%	0	0	0	1.00	0
2012/13	96.0	80.3%	108.0	89.1%	44.8%	0	0	0	1.00	0
2013/14	84.0	66.9%	96.0	80.3%	40.4%	0	0	0	1.00	0
2014/15	72.0	55.7%	84.0	66.9%	25.2%	3,209,000	808,547	2,400,453	1.00	2,391,880
2015/16	60.0	27.9%	72.0	55.7%	38.6%	1,258,000	486,176	771,824	1.00	768,487
2016/17	48.0	10.7%	60.0	27.9%	19.2%	100,000	19,213	80,787	1.00	80,449
2017/18	36.0	2.1%	48.0	10.7%	8.8%	730,000	63,982	666,018	0.99	662,632
2018/19	24.0	0.0%	36.0	2.1%	2.1%	850,000	18,077	831,923	0.99	826,564
2019/20	12.0	0.0%	24.0	0.0%	0.0%	1,000,000	89	999,911	0.99	991,742
2020/21	0.0	0.0%	12.0	0.0%	0.0%	1,483,000	132	1,482,868	0.99	1,467,966
Total						\$8,630,000	\$1,396,216	\$7,233,784		\$7,189,720

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

(7) to 2019/20 is from Exhibit MM-Cermak-11. The amount for 2020/21 is from Exhibit MM-Cermak-10.

(10) is based on a 0.19% 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, 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 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	99.8%	192.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	168.0	99.4%	180.0	99.8%	66.6%	0	0	0	1.00	0
2008/09	156.0	98.8%	168.0	99.4%	49.8%	0	0	0	1.00	0
2009/10	144.0	97.6%	156.0	98.8%	49.6%	0	0	0	1.00	0
2010/11	132.0	95.9%	144.0	97.6%	42.2%	0	0	0	1.00	0
2011/12	120.0	93.1%	132.0	95.9%	40.6%	0	0	0	1.00	0
2012/13	108.0	89.1%	120.0	93.1%	36.8%	0	0	0	1.00	0
2013/14	96.0	80.3%	108.0	89.1%	44.8%	0	0	0	1.00	0
2014/15	84.0	66.9%	96.0	80.3%	40.4%	2,400,453	970,256	1,430,197	1.00	1,425,247
2015/16	72.0	55.7%	84.0	66.9%	25.2%	771,824	194,471	577,353	1.00	575,291
2016/17	60.0	27.9%	72.0	55.7%	38.6%	80,787	31,222	49,565	1.00	49,351
2017/18	48.0	10.7%	60.0	27.9%	19.2%	666,018	127,963	538,055	1.00	535,807
2018/19	36.0	2.1%	48.0	10.7%	8.8%	831,923	72,915	759,008	0.99	755,150
2019/20	24.0	0.0%	36.0	2.1%	2.1%	999,911	21,265	978,646	0.99	972,341
2020/21	12.0	0.0%	24.0	0.0%	0.0%	1,482,868	132	1,482,736	0.99	1,470,623
2021/22	0.0	0.0%	12.0	0.0%	0.0%	1,543,000	138	1,542,862	0.99	1,527,357
<b>Total</b>						<b>\$8,776,784</b>	<b>\$1,418,362</b>	<b>\$7,358,422</b>		<b>\$7,311,167</b>

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

(7) to 2020/21 is from Exhibit MM-Cermak-12, (9). The amount for 2021/22 is from Exhibit MM-Cermak-10.

(10) is based on a 0.19% 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, 2022 to November 30, 2023

Claim Period (1)	Months of Development 11/30/22 (2)	Percent Losses Paid (3)	Months of Development 11/30/23 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/22 to 11/30/23 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/22 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/23 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/23 (9)X(10) (11)
to 2000/01	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2001/02	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	180.0	99.8%	192.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	168.0	99.4%	180.0	99.8%	66.6%	0	0	0	1.00	0
2009/10	156.0	98.8%	168.0	99.4%	49.8%	0	0	0	1.00	0
2010/11	144.0	97.6%	156.0	98.8%	49.6%	0	0	0	1.00	0
2011/12	132.0	95.9%	144.0	97.6%	42.2%	0	0	0	1.00	0
2012/13	120.0	93.1%	132.0	95.9%	40.6%	0	0	0	1.00	0
2013/14	108.0	89.1%	120.0	93.1%	36.8%	0	0	0	1.00	0
2014/15	96.0	80.3%	108.0	89.1%	44.8%	1,430,197	640,369	789,828	1.00	786,978
2015/16	84.0	66.9%	96.0	80.3%	40.4%	577,353	233,364	343,989	1.00	342,799
2016/17	72.0	55.7%	84.0	66.9%	25.2%	49,565	12,489	37,076	1.00	36,944
2017/18	60.0	27.9%	72.0	55.7%	38.6%	538,055	207,941	330,114	1.00	328,687
2018/19	48.0	10.7%	60.0	27.9%	19.2%	759,008	145,830	613,178	1.00	610,616
2019/20	36.0	2.1%	48.0	10.7%	8.8%	978,646	85,775	892,871	0.99	888,332
2020/21	24.0	0.0%	36.0	2.1%	2.1%	1,482,736	31,533	1,451,203	0.99	1,441,854
2021/22	12.0	0.0%	24.0	0.0%	0.0%	1,542,862	138	1,542,724	0.99	1,530,121
2022/23	0.0	0.0%	12.0	0.0%	0.0%	1,604,000	143	1,603,857	0.99	1,587,739
<b>Total</b>						<b>\$8,962,422</b>	<b>\$1,357,582</b>	<b>\$7,604,840</b>		<b>\$7,554,070</b>

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

(7) to 2021/22 is from Exhibit MM-Cermak-13, (9). The amount for 2022/23 is from Exhibit MM-Cermak-10.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit MM-Cermak-2.



COOK COUNTY, ILLINOIS  
MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-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 11/30/20 (5)	Unlimited Case Reserves 11/30/20 (6)	Unlimited Reported Incurred Losses 11/30/20 (7)
97001725	10/29/96	to 2000/01	Unlimited	\$8,000,000	\$0	\$8,000,000
97003095	08/14/00	to 2000/01	Unlimited	1,350,000	0	1,350,000
97004871	01/05/04	2003/04	20,000,000	2,500,000	0	2,500,000
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

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)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	116	0	0	0	1	0	117		
0.01 - 5,000	5	1	0	0	0	0	6	6	18.2%
5,000 - 10,000	4	0	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	4	0	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	1	1	0	0	0	8	28	84.8%
Over 1,000,000	4	1	0	0	0	0	5	33	100.0%
<b>Total</b>	<b>145</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>150</b>	<b>33</b>	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (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	14,650	5,000	0	0	0	0	19,650	19,650	0.1%
5,000 - 10,000	35,100	0	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	153,000	0	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	1,000,000	900,000	0	0	0	7,750,000	9,411,750	35.9%
Over 1,000,000	14,850,000	1,950,000	0	0	0	0	16,800,000	26,211,750	100.0%
<b>Total</b>	<b>\$22,356,750</b>	<b>\$2,955,000</b>	<b>\$900,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$26,211,750</b>	<b>\$26,211,750</b>	

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

Data was provided by the County.

CookCounty\_MM\_Cermak\_113020.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 2000/01							
2001/02							
2002/03							
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							
2008/09							
2009/10							
2010/11							
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	17,595	13,565	18,830		50	1,267
2020/21	1,124	17,595	13,565	18,830		50	1,267

(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, 2020  
 Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Limited Paid Losses 11/30/20 (8)	Limited Case Reserves 11/30/20 (9)	Limited Reported Incurred Losses 11/30/20 (10)
to 2000/01	See Note	See Note	240.0	Not Provided	436	0	\$259,882,357	\$0	\$259,882,357
2001/02	15,000,000	50,000,000	228.0	2,090	90	0	23,647,540	0	23,647,540
2002/03	20,000,000	80,000,000	216.0	2,039	87	0	4,268,645	0	4,268,645
2003/04	20,000,000	None	204.0	2,060	129	0	8,377,500	0	8,377,500
2004/05	20,000,000	None	192.0	2,032	92	0	33,606,850	0	33,606,850
2005/06	20,000,000	None	180.0	1,961	74	0	23,325,000	0	23,325,000
2006/07	20,000,000	None	168.0	1,829	57	1	4,750,000	100,000	4,850,000
2007/08	20,000,000	None	156.0	1,864	40	0	7,002,000	0	7,002,000
2008/09	20,000,000	None	144.0	1,949	43	1	7,905,000	500,000	8,405,000
2009/10	40,000,000	None	132.0	1,807	42	0	9,092,500	0	9,092,500
2010/11	40,000,000	None	120.0	1,814	58	1	10,715,000	100,000	10,815,000
2011/12	40,000,000	None	108.0	1,814	52	5	35,468,999	6,350,000	41,818,999
2012/13	30,000,000	None	96.0	1,840	54	3	60,140,000	200,000	60,340,000
2013/14	30,000,000	None	84.0	1,840	39	6	1,625,000	650,000	2,275,000
2014/15	25,000,000	None	72.0	1,728	41	2	9,890,000	16,500,000	26,390,000
2015/16	25,000,000	80,000,000	60.0	1,787	51	17	175,000	7,855,000	8,030,000
2016/17	25,000,000	80,000,000	48.0	1,779	21	8	1,500,000	21,550,000	23,050,000
2017/18	25,000,000	80,000,000	36.0	1,774	37	11	0	16,980,000	16,980,000
2018/19	25,000,000	80,000,000	24.0	1,638	33	4	0	5,155,000	5,155,000
2019/20	35,000,000	80,000,000	12.0	1,631	15	0	0	0	0
<b>Total</b>					<b>1,491</b>	<b>59</b>	<b>\$501,371,391</b>	<b>\$75,940,000</b>	<b>\$577,311,391</b>

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

Effective Date	Retention	Aggregate
12/01/70	Unlimited	None
12/01/00	10,000,000	25,000,000
12/01/01	15,000,000	see column (3)
12/01/02	20,000,000	see column (3)
03/01/10	40,000,000	see column (3)
03/01/13	30,000,000	see column (3)
07/01/15	25,000,000	see column (3)
07/01/20	35,000,000	see column (3)

(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 - JOHN H. STROGER, JR. HOSPITAL

Data Summary as of November 30, 2020  
 Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Net Unlimited Paid Losses 11/30/20 (8)	Net Unlimited Case Reserves 11/30/20 (9)	Net Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	436	0	\$259,882,357	\$0	\$259,882,357
2001/02	Unlimited	50,000,000	228.0	2,090	90	0	23,647,540	0	23,647,540
2002/03	Unlimited	80,000,000	216.0	2,039	87	0	4,268,645	0	4,268,645
2003/04	Unlimited	None	204.0	2,060	129	0	8,377,500	0	8,377,500
2004/05	Unlimited	None	192.0	2,032	92	0	33,606,850	0	33,606,850
2005/06	Unlimited	None	180.0	1,961	74	0	23,325,000	0	23,325,000
2006/07	Unlimited	None	168.0	1,829	57	1	4,750,000	100,000	4,850,000
2007/08	Unlimited	None	156.0	1,864	40	0	7,002,000	0	7,002,000
2008/09	Unlimited	None	144.0	1,949	43	1	7,905,000	500,000	8,405,000
2009/10	Unlimited	None	132.0	1,807	42	0	9,092,500	0	9,092,500
2010/11	Unlimited	None	120.0	1,814	58	1	10,715,000	100,000	10,815,000
2011/12	Unlimited	None	108.0	1,814	52	5	35,468,999	6,350,000	41,818,999
2012/13	Unlimited	None	96.0	1,840	54	3	60,140,000	200,000	60,340,000
2013/14	Unlimited	None	84.0	1,840	39	6	1,625,000	650,000	2,275,000
2014/15	Unlimited	None	72.0	1,728	41	2	9,890,000	16,500,000	26,390,000
2015/16	Unlimited	80,000,000	60.0	1,787	51	17	175,000	7,855,000	8,030,000
2016/17	Unlimited	80,000,000	48.0	1,779	21	8	1,500,000	21,550,000	23,050,000
2017/18	Unlimited	80,000,000	36.0	1,774	37	11	0	16,980,000	16,980,000
2018/19	Unlimited	80,000,000	24.0	1,638	33	4	0	5,155,000	5,155,000
2019/20	Unlimited	80,000,000	12.0	1,631	15	0	0	0	0
<b>Total</b>					<b>1,491</b>	<b>59</b>	<b>\$501,371,391</b>	<b>\$75,940,000</b>	<b>\$577,311,391</b>

(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, 2020  
 Gross Unlimited Losses

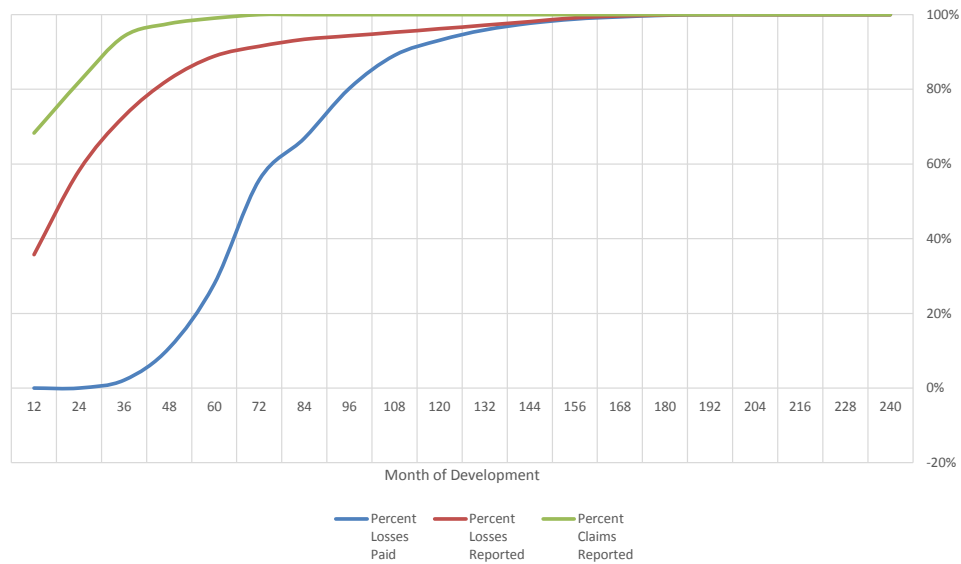
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Gross Unlimited Paid Losses 11/30/20 (8)	Gross Unlimited Case Reserves 11/30/20 (9)	Gross Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	436	0	\$259,882,357	\$0	\$259,882,357
2001/02	Unlimited	50,000,000	228.0	2,090	90	0	23,647,540	0	23,647,540
2002/03	Unlimited	80,000,000	216.0	2,039	87	0	4,268,645	0	4,268,645
2003/04	Unlimited	None	204.0	2,060	129	0	8,377,500	0	8,377,500
2004/05	Unlimited	None	192.0	2,032	92	0	33,606,850	0	33,606,850
2005/06	Unlimited	None	180.0	1,961	74	0	23,325,000	0	23,325,000
2006/07	Unlimited	None	168.0	1,829	57	1	4,750,000	100,000	4,850,000
2007/08	Unlimited	None	156.0	1,864	40	0	7,002,000	0	7,002,000
2008/09	Unlimited	None	144.0	1,949	43	1	7,905,000	500,000	8,405,000
2009/10	Unlimited	None	132.0	1,807	42	0	9,092,500	0	9,092,500
2010/11	Unlimited	None	120.0	1,814	58	1	10,715,000	100,000	10,815,000
2011/12	Unlimited	None	108.0	1,814	52	5	35,468,999	6,350,000	41,818,999
2012/13	Unlimited	None	96.0	1,840	54	3	60,140,000	200,000	60,340,000
2013/14	Unlimited	None	84.0	1,840	39	6	1,625,000	650,000	2,275,000
2014/15	Unlimited	None	72.0	1,728	41	2	9,890,000	16,500,000	26,390,000
2015/16	Unlimited	80,000,000	60.0	1,787	51	17	175,000	7,855,000	8,030,000
2016/17	Unlimited	80,000,000	48.0	1,779	21	8	1,500,000	23,050,000	23,050,000
2017/18	Unlimited	80,000,000	36.0	1,774	37	11	0	16,980,000	16,980,000
2018/19	Unlimited	80,000,000	24.0	1,638	33	4	0	5,155,000	5,155,000
2019/20	Unlimited	80,000,000	12.0	1,631	15	0	0	0	0
<b>Total</b>					<b>1,491</b>	<b>59</b>	<b>\$501,371,391</b>	<b>\$77,440,000</b>	<b>\$577,311,391</b>

(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	99.8%	99.9%	100.0%
168.0	99.4%	99.6%	100.0%
156.0	98.8%	99.1%	100.0%
144.0	97.6%	98.1%	100.0%
132.0	95.9%	97.2%	100.0%
120.0	93.1%	96.2%	100.0%
108.0	89.1%	95.2%	100.0%
96.0	80.3%	94.3%	100.0%
84.0	66.9%	93.4%	100.0%
72.0	55.7%	91.5%	100.0%
60.0	27.9%	88.9%	99.0%
48.0	10.7%	82.7%	97.5%
36.0	2.1%	72.8%	94.2%
24.0	0.0%	58.3%	82.0%
12.0	0.0%	35.7%	68.3%



(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).

COOK COUNTY, ILLINOIS  
MEDICAL MALPRACTICE - JOHN H. STROGER, JR. HOSPITAL  
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 2000/01																				\$285,259	\$285,259	\$285,259
2001/02	0	0	30	9,351	12,349	16,054	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	24,848	24,848	24,848	24,848	24,848	24,848	
2002/03	10	12	1,260	1,263	3,248	4,488	4,888	4,986	5,316	5,316	5,316	5,316	5,316	5,316	5,313	5,313	5,313	5,313	5,313	5,313	5,313	
2003/04	0	0	0	8,781	16,656	18,246	19,496	19,646	19,646	19,646	19,646	19,646	19,646	19,196	19,196	19,196	19,196	19,196	19,196	19,196	19,196	
2004/05	0	90	107	5,775	16,665	18,715	18,715	18,715	18,715	19,715	19,715	19,715	19,715	19,698	19,698	19,698	19,698	19,698	19,698	19,698	33,698	
2005/06	0	1	516	528	6,778	9,228	9,908	11,533	11,603	23,603	24,028	24,028	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,750	
2006/07	0	16	16	26	2,016	2,016	4,766	4,766	4,766	4,766	4,753	4,753	4,753	4,753	4,753	4,753	4,753	4,753	4,753	4,753	4,753	
2007/08	0	127	127	3,677	6,027	8,427	8,427	8,427	8,427	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	
2008/09	0	0	2,445	3,155	3,155	4,405	5,155	8,155	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	
2009/10	0	0	0	2,318	7,653	10,438	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	
2010/11	0	0	0	2,850	4,878	5,168	5,468	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	
2011/12	0	20,100	20,825	24,390	26,195	34,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	
2012/13	0	850	850	2,330	5,590	20,255	35,565	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	
2013/14	0	0	0	825	1,675	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	
2014/15	0	25	30	58	3,966	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	
2015/16	90	2,590	4,540	4,835	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	
2016/17	0	0	900	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	
2017/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2018/19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2019/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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 2000/01																				1.000	1.000	
2001/02			311.700	1.321	1.300	1.561	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.992	1.000	1.000	1.000	1.000	1.000	1.000	
2002/03	1.150	109.565	1.002	2.572	1.382	1.089	1.020	1.066	1.000	1.000	1.000	1.000	1.000	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000	
2003/04				1.897	1.095	1.069	1.008	1.000	1.000	1.000	1.000	1.000	0.977	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2004/05		1.189	53.971	2.886	1.123	1.000	1.000	1.000	1.053	1.000	1.000	0.999	1.000	1.000	1.711	1.000	1.000	1.000	1.000	1.000	1.000	
2005/06		1032.000	1.023	12.837	1.361	1.074	1.164	1.006	2.034	1.018	0.999	1.000	1.000	1.031	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2006/07		1.000	1.621	77.245	1.000	2.364	1.000	1.000	1.000	0.997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2007/08		1.000	28.953	1.639	1.398	1.000	1.000	1.000	0.985	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2008/09			1.290	1.000	1.396	1.170	1.582	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2009/10				3.302	1.364	1.073	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2010/11				1.712	1.059	1.058	1.960	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2011/12		1.036	1.171	1.074	1.309	1.087	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2012/13		1.000	2.741	2.399	3.623	1.756	1.724	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2013/14				2.030	1.224	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2014/15		1.200	1.933	68.379	2.504	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2015/16	28.778	1.753	1.065	1.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2016/17			2.667	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2017/18																						
2018/19																						
2019/20																						
Average																						
All	14.964	127.749	34.095	12.090	1.510	1.254	1.205	1.007	1.107	1.002	1.000	1.000	0.996	1.006	1.176	1.000	1.000	1.000	1.000	1.000	1.000	
Wtd 3		2.100	1.333	1.874	2.870	1.324	1.396	1.000	1.000	1.000	1.000	1.000	1.000	1.002	1.317	1.000	1.000	1.000	1.000	1.000	1.000	
Last 3			1.888	23.820	2.450	1.281	1.561	1.000	1.000	1.000	1.000	1.000	1.000	1.010	1.237	1.000	1.000	1.000	1.000	1.000	1.000	
Last 5				1.834	1.679	1.073	1.435	1.000	1.000	1.000	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																						
Previous	2.000	120.000	5.000	2.600	2.000	1.200	1.180	1.120	1.050	1.040	1.020	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Selected	2.000	120.000	5.000	2.600	2.000	1.200	1.200	1.110	1.045	1.030	1.018	1.012	1.006	1.004	1.002	1.000	1.000	1.000	1.000	1.000	1.000	
Cumulative	11193.123	5596.562	46.638	9.328	3.588	1.794	1.495	1.246	1.122	1.074	1.043	1.024	1.012	1.006	1.002	1.000	1.000	1.000	1.000	1.000	1.000	
Percent	0.0%	0.0%	2.1%	10.7%	27.9%	55.7%	66.9%	80.3%	89.1%	93.1%	95.9%	97.6%	98.8%	99.4%	99.8%	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 and is for Cermak, Stroger and Provident combined.

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 2000/01																			\$285,259	\$285,259	\$285,259
2001/02	33,740	25,655	29,808	24,761	25,134	31,305	25,861	26,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	24,848	24,848	24,848	24,848	24,848	
2002/03	26,711	16,022	5,770	8,413	8,248	6,788	5,688	5,336	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,313	5,313	5,313	5,313	5,313	
2003/04	28,331	39,505	26,840	38,771	29,756	28,646	20,246	20,146	19,646	19,646	19,646	19,646	19,646	19,196	19,196	19,196	19,196	19,196	19,196	19,196	
2004/05	9,450	27,041	20,842	24,110	21,345	19,465	18,715	19,715	19,715	19,715	19,715	19,715	19,715	29,698	39,698	33,698	33,698	33,698	33,698	33,698	
2005/06	14,276	35,957	22,631	24,828	17,228	16,758	13,858	15,603	25,603	25,603	24,028	24,250	25,000	24,750	24,750						
2006/07	11,046	13,126	8,721	5,787	4,726	5,646	4,766	4,766	4,766	4,766	4,853	4,853	4,853	4,853							
2007/08	24,827	12,544	17,152	18,477	12,927	12,227	10,927	8,427	8,427	8,302	8,302	8,302	8,302								
2008/09	5,235	6,890	9,775	10,255	9,555	10,005	8,255	8,405	8,205	8,205	8,205	8,205	8,705								
2009/10	5,095	8,253	15,550	16,368	13,503	12,388	11,203	11,203	11,203	11,203	11,203	11,203									
2010/11	770	3,900	8,530	11,105	11,183	10,673	9,968	10,718	10,718	10,818											
2011/12	23,923	34,253	39,927	39,455	39,045	37,644	38,344	38,044	43,644												
2012/13	6,925	12,000	29,150	39,255	61,465	66,155	70,215	63,015													
2013/14	1,560	7,155	6,400	5,575	3,125	2,700															
2014/15	7,000	8,225	8,630	16,108	38,101	29,431															
2015/16	5,190	8,620	11,315	12,990	13,930																
2016/17	450	2,376	9,851	28,000																	
2017/18	1,450	3,955	16,980																		
2018/19	50	5,155																			
2019/20	0																				

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 2000/01																			1.000	1.000
2001/02	0.760	1.162	0.831	1.015	1.246	0.826	1.008	0.962	1.000	1.000	1.000	1.000	1.000	1.000	0.992	1.000	1.000	1.000	1.000	
2002/03	0.600	0.360	1.458	0.980	0.823	0.838	0.938	0.996	1.000	1.000	1.000	1.000	1.000	0.999	1.000	1.000	1.000	1.000	1.000	
2003/04	1.394	0.679	1.445	0.767	0.963	0.707	0.995	0.975	1.000	1.000	1.000	1.000	0.977	1.000	1.000	1.000				
2004/05	2.861	0.771	1.157	0.885	0.912	0.961	1.053	1.000	1.000	1.000	1.000	1.506	1.337	0.849	1.000					
2005/06	2.519	0.629	1.097	0.694	0.973	0.827	1.126	1.641	1.000	0.938	1.009	1.031	0.990	1.000						
2006/07	1.188	0.664	0.664	0.817	1.195	0.973	0.867	1.000	1.000	1.018	1.000	1.000	1.000							
2007/08	0.505	1.367	1.077	0.700	0.946	0.894	0.771	1.000	0.985	1.000	1.000	1.000								
2008/09	1.316	1.419	1.049	0.932	1.047	0.825	1.018	0.976	1.000	1.000	1.061									
2009/10	1.620	1.884	1.053	0.825	0.917	0.904	1.000	1.000	1.000	1.000										
2010/11	5.065	2.187	1.302	1.007	0.954	0.934	1.075	1.000	1.009											
2011/12	1.432	1.166	0.988	0.990	0.964	1.019	0.992	1.147												
2012/13	1.733	2.429	1.347	1.566	1.076	1.061	0.897													
2013/14	4.587	0.894	0.871	0.561	0.864	1.000														
2014/15	1.175	1.049	1.867	2.365	0.772															
2015/16	1.661	1.313	1.148	1.072																
2016/17	5.279	4.147	2.842																	
2017/18	2.728	4.293																		
2018/19	103.100																			
2019/20																				
Average	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
All	7.751	1.554	1.262	1.012	0.975	0.905	0.978	1.063	0.999	0.995	1.009	1.077	1.051	0.970	0.998	1.000	1.000	1.000	1.000	
Wtd 3	5.890	2.551	1.916	1.591	1.045	0.943	1.093	1.003	1.000	1.023	1.020	1.164	0.928	1.000	1.000					
Last 3	37.035	3.251	1.952	1.333	0.904	1.027	0.988	1.049	1.003	1.000			0.992	1.000	0.997	1.000				
Last 5	3.222	2.170	1.454	1.209	0.928	0.984	1.003	1.000	1.000	1.000	1.003	1.010	0.997	1.000						
x-hi,low																				
Previous	1.600	1.225	1.125	1.075	1.050	1.020	1.020	1.020	1.010	1.000	x	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Selected	1.630	1.250	1.135	1.075	1.030	1.020	1.010	1.010	1.010	1.010	1.010	1.010	1.005	1.003	1.001	1.000	1.000	1.000	1.000	
Cumulative	2.797	1.716	1.373	1.210	1.125	1.093	1.071	1.060	1.050	1.040	1.029	1.019	1.009	1.004	1.001	1.000	1.000	1.000	1.000	
Percent	35.7%	58.3%	72.8%	82.7%	88.9%	91.5%	93.4%	94.3%	95.2%	96.2%	97.2%	98.1%	99.1%	99.6%	99.9%	100.0%	100.0%	100.0%	100.0%	

Amounts are limited (net of excess insurance).

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

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 2000/01																				520	520
2001/02																				118	118
2002/03															111	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	101
2006/07										72	73	73	73	73	73	73	73	73	73	73	73
2007/08									51	51	51	51	51	51	51	51	51	51	51	51	51
2008/09									46	46	46	46	46	47	47	47	47	47	47	47	47
2009/10								51	51	51	51	51	51	51	51	51	51	51	51	51	51
2010/11								59	59	59	59	59	59	59	59	59	59	59	59	59	59
2011/12						56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56
2012/13				64	65	65	65	65	65	65	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	42	42	42	42	42	42	42
2014/15		33	43	45	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
2015/16	35	46	53	56	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57
2016/17	12	19	25	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
2017/18	28	34	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
2018/19	29	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
2019/20	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15

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 2000/01																				1.000	1.000
2001/02																				1.000	1.000
2002/03															1.000	1.000	1.000	1.000	1.000	1.000	1.000
2003/04															1.000	1.000	1.000	1.000	1.000	1.000	1.000
2004/05															1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005/06															1.000	1.000	1.000	1.000	1.000	1.000	1.000
2006/07										1.014	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2007/08									1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008/09									1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009/10								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2010/11								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2011/12					1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2012/13				1.016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2013/14			1.024	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2014/15		1.303	1.047	1.044	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2015/16	1.314	1.152	1.057	1.018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2016/17	1.583	1.316	1.040	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2017/18	1.214	1.147	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2018/19	1.310	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2019/20	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Average																					
All	1.356	1.230	1.042	1.019	1.000	1.004	1.004	1.009	1.000	1.003	1.008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Wtd 3	1.319	1.182	1.050	1.021	1.000	1.006	1.006	1.012	1.000	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 3	1.369	1.205	1.048	1.021	1.000	1.006	1.006	1.012	1.000	1.000	1.007	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	1.150	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
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	1.464	1.220	1.061	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	1.000	1.000
Percent	68.3%	82.0%	94.2%	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%	100.0%	100.0%

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



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

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 2000/01																			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%	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%	100.0%						
2006/07	0.0%	0.1%	0.2%	0.5%	42.7%	35.7%	86.7%	100.0%	100.0%	100.0%	97.9%	97.9%	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%	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%	94.3%									
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	100.0%	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%	100.0%	99.1%											
2011/12	0.0%	58.7%	52.2%	61.8%	67.1%	91.1%	97.3%	98.0%	85.5%												
2012/13	0.0%	7.1%	2.9%	5.9%	9.1%	30.6%	50.7%	97.3%													
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%	33.7%															
2015/16	1.7%	30.0%	40.1%	37.2%	36.4%																
2016/17	0.0%	0.0%	9.1%	8.6%																	
2017/18	0.0%	0.0%	0.0%																		
2018/19	0.0%	0.0%																			
2019/20																					
<b>Average</b>																					
All	0.1%	5.4%	9.1%	20.1%	44.1%	60.4%	81.2%	95.7%	93.2%	99.1%	99.8%	98.9%	94.3%	90.8%	91.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 3			16.4%	15.4%	33.5%	46.8%	74.6%	98.4%	95.2%	99.7%	100.0%	97.4%	98.0%	81.5%	86.2%	100.0%	100.0%	100.0%			
Last 5	0.0%	0.1%	3.2%	9.8%	33.5%	52.7%	76.0%	98.4%	100.0%	100.0%	100.0%	99.0%	98.0%	98.3%	100.0%						
x-hi,low																					
Implicit	0.0%	0.0%	2.9%	13.0%	31.4%	60.9%	71.7%	85.1%	93.6%	96.8%	98.7%	99.5%	99.7%	99.8%	99.9%	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 - JOHN H. STROGER, JR. HOSPITAL

Exhibit MM-Stroger-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/20 (2)	Limited Paid Losses 11/30/20 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 2000/01	240.0	\$259,882,357	100.0%	\$259,882,357
2001/02	228.0	23,647,540	100.0%	23,647,540
2002/03	216.0	4,268,645	100.0%	4,268,645
2003/04	204.0	8,377,500	100.0%	8,377,500
2004/05	192.0	33,606,850	100.0%	33,606,850
2005/06	180.0	23,325,000	99.8%	23,371,650
2006/07	168.0	4,750,000	99.4%	4,778,538
2007/08	156.0	7,002,000	98.8%	7,086,332
2008/09	144.0	7,905,000	97.6%	8,096,211
2009/10	132.0	9,092,500	95.9%	9,480,058
2010/11	120.0	10,715,000	93.1%	11,506,867
2011/12	108.0	35,468,999	89.1%	39,804,315
2012/13	96.0	60,140,000	80.3%	74,914,800
2013/14	84.0	1,625,000	66.9%	2,429,063
2014/15	72.0	9,890,000	55.7%	17,740,383
2015/16	60.0	175,000	27.9%	627,819
2016/17	48.0	1,500,000	10.7%	13,991,404
2017/18	36.0	0	2.1%	0
2018/19	24.0	0	0.0%	0
2019/20	12.0	0	0.0%	0
<b>Total</b>		<b>\$501,371,391</b>		<b>\$543,610,333</b>

(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 11/30/20 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 2000/01	240.0	\$259,882,357	100.0%	\$259,882,357
2001/02	228.0	23,647,540	100.0%	23,647,540
2002/03	216.0	4,268,645	100.0%	4,268,645
2003/04	204.0	8,377,500	100.0%	8,377,500
2004/05	192.0	33,606,850	100.0%	33,606,850
2005/06	180.0	23,325,000	99.9%	23,348,325
2006/07	168.0	4,850,000	99.6%	4,869,415
2007/08	156.0	7,002,000	99.1%	7,065,179
2008/09	144.0	8,405,000	98.1%	8,565,647
2009/10	132.0	9,092,500	97.2%	9,358,950
2010/11	120.0	10,815,000	96.2%	11,243,246
2011/12	108.0	41,818,999	95.2%	43,909,673
2012/13	96.0	60,340,000	94.3%	63,990,168
2013/14	84.0	2,275,000	93.4%	2,436,749
2014/15	72.0	26,390,000	91.5%	28,831,609
2015/16	60.0	8,030,000	88.9%	9,036,126
2016/17	48.0	23,050,000	82.7%	27,883,424
2017/18	36.0	16,980,000	72.8%	23,313,567
2018/19	24.0	5,155,000	58.3%	8,847,279
2019/20	12.0	0	35.7%	0
<b>Total</b>		<b>\$577,311,391</b>		<b>\$602,482,247</b>

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

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



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

Exhibit MM-Stroger-5

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/20 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/20 (6)	Limited Case Reserves 11/30/20 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 2000/01	240.0	100.0%	100.0%	100.0%	\$259,882,357	\$0	\$259,882,357
2001/02	228.0	100.0%	100.0%	100.0%	23,647,540	0	23,647,540
2002/03	216.0	100.0%	100.0%	100.0%	4,268,645	0	4,268,645
2003/04	204.0	100.0%	100.0%	100.0%	8,377,500	0	8,377,500
2004/05	192.0	100.0%	100.0%	100.0%	33,606,850	0	33,606,850
2005/06	180.0	99.8%	99.9%	50.0%	23,325,000	0	23,325,000
2006/07	168.0	99.4%	99.6%	33.2%	4,750,000	100,000	5,050,850
2007/08	156.0	98.8%	99.1%	24.9%	7,002,000	0	7,002,000
2008/09	144.0	97.6%	98.1%	20.6%	7,905,000	500,000	10,333,501
2009/10	132.0	95.9%	97.2%	30.4%	9,092,500	0	9,092,500
2010/11	120.0	93.1%	96.2%	44.7%	10,715,000	100,000	10,938,957
2011/12	108.0	89.1%	95.2%	56.3%	35,468,999	6,350,000	46,750,969
2012/13	96.0	80.3%	94.3%	71.1%	60,140,000	200,000	60,421,386
2013/14	84.0	66.9%	93.4%	79.9%	1,625,000	650,000	2,438,038
2014/15	72.0	55.7%	91.5%	80.9%	9,890,000	16,500,000	30,294,944
2015/16	60.0	27.9%	88.9%	84.6%	175,000	7,855,000	9,463,998
2016/17	48.0	10.7%	82.7%	80.6%	1,500,000	21,550,000	28,242,268
2017/18	36.0	2.1%	72.8%	72.2%	0	16,980,000	23,505,680
2018/19	24.0	0.0%	58.3%	58.3%	0	5,155,000	8,848,412
2019/20	12.0	0.0%	35.7%	35.7%	0	0	0
<b>Total</b>					<b>\$501,371,391</b>	<b>\$75,940,000</b>	<b>\$605,491,394</b>

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

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

Preliminary Projected Ultimate Limited Losses to 2019/20

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 2000/01	\$259,882,357	\$259,882,357	\$259,882,357	\$259,882,357
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	33,606,850	33,606,850	33,606,850	33,606,850
2005/06	23,371,650	23,348,325	23,325,000	23,325,000
2006/07	4,778,538	4,869,415	5,050,850	4,960,000
2007/08	7,086,332	7,065,179	7,002,000	7,034,000
2008/09	8,096,211	8,565,647	10,333,501	9,450,000
2009/10	9,480,058	9,358,950	9,092,500	9,359,000
2010/11	11,506,867	11,243,246	10,938,957	11,243,000
2011/12	39,804,315	43,909,673	46,750,969	43,910,000
2012/13	74,914,800	63,990,168	60,421,386	63,990,000
2013/14	2,429,063	2,436,749	2,438,038	2,437,000
2014/15	17,740,383	28,831,609	30,294,944	29,563,000
2015/16	627,819	9,036,126	9,463,998	9,250,000
2016/17	13,991,404	27,883,424	28,242,268	23,372,000
2017/18	0	23,313,567	23,505,680	23,410,000
2018/19	0	8,847,279	8,848,412	8,848,000
2019/20	0	0	0	17,264,000
<b>Total</b>	<b>\$543,610,333</b>	<b>\$602,482,247</b>	<b>\$605,491,394</b>	<b>\$617,197,892</b>

(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 (2020/21 = 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)
2010/11	\$11,243,000	1,814	\$6,198.23	1.473	\$9,130.14	\$8,631.96
2011/12	43,910,000	1,814	24,207.46	1.416	34,286.69	8,977.24
2012/13	63,990,000	1,840	34,779.25	1.377	47,895.62	9,233.02
2013/14	2,437,000	1,840	1,324.54	1.329	1,760.26	9,567.69
2014/15	29,563,000	1,728	17,111.68	1.283	21,957.76	9,908.86
2015/16	9,250,000	1,787	5,176.33	1.241	6,423.75	10,245.95
2016/17	23,372,000	1,779	13,137.89	1.193	15,676.86	10,655.79
2017/18	23,410,000	1,774	13,195.38	1.147	15,139.86	11,082.02
2018/19	8,848,000	1,638	5,401.29	1.103	5,958.88	11,525.30
2019/20	17,264,000	1,631	10,582.00	1.052	11,133.37	12,085.37

(7) Projected 2020/21 a-priori loss rate per Occupied Bed Equivalent \$12,715.08

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/20 (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)
2015/16	\$175,000	27.9%	\$10,245.95	1,787	\$13,205,733	\$13,380,733
2016/17	1,500,000	10.7%	10,655.79	1,779	16,924,109	18,424,109
2017/18	0	2.1%	11,082.02	1,774	19,239,122	19,239,122
2018/19	0	0.0%	11,525.30	1,638	18,876,534	18,876,534
2019/20	0	0.0%	12,085.37	1,631	19,714,924	19,714,924

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/20 (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)
2015/16	\$8,030,000	88.9%	\$10,245.95	1,787	\$2,038,647	\$10,068,647
2016/17	23,050,000	82.7%	10,655.79	1,779	3,285,978	26,335,978
2017/18	16,980,000	72.8%	11,082.02	1,774	5,341,192	22,321,192
2018/19	5,155,000	58.3%	11,525.30	1,638	7,879,246	13,034,246
2019/20	0	35.7%	12,085.37	1,631	12,668,696	12,668,696

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).

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/20 (2)	Reported Claims 11/30/20 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2010/11	120.0	58	100.0%	58	1,814	0.03
2011/12	108.0	52	100.0%	52	1,814	0.03
2012/13	96.0	54	100.0%	54	1,840	0.03
2013/14	84.0	39	100.0%	39	1,840	0.02
2014/15	72.0	41	100.0%	41	1,728	0.02
2015/16	60.0	51	99.0%	52	1,787	0.03
2016/17	48.0	21	97.5%	22	1,779	0.01
2017/18	36.0	37	94.2%	39	1,774	0.02
2018/19	24.0	33	82.0%	40	1,638	0.02
2019/20	12.0	15	68.3%	22	1,631	0.01

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2020/21 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2020/21 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2010/11	\$11,243,000	58	\$193,845	1.473	\$285,538	\$472,049	\$27,378,852
2011/12	43,910,000	52	844,423	1.416	1,196,015	490,931	25,528,419
2012/13	63,990,000	54	1,185,000	1.377	1,631,901	504,919	27,265,605
2013/14	2,437,000	39	62,487	1.329	83,043	523,221	20,405,600
2014/15	29,563,000	41	721,049	1.283	925,252	541,878	22,216,994
2015/16	9,250,000	52	177,885	1.241	220,752	560,312	29,136,234
2016/17	23,372,000	22	1,062,364	1.193	1,267,671	582,725	12,819,943
2017/18	23,410,000	39	600,256	1.147	688,711	606,034	23,635,313
2018/19	8,848,000	40	221,200	1.103	244,035	630,275	25,211,000
2019/20	17,264,000	22	784,727	1.052	825,615	660,903	14,539,871

(7) Projected 2020/21 average claim severity \$695,340

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 2019/20

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 2000/01	\$259,882,357	\$259,882,357	\$259,882,357				\$259,882,357	\$259,882,357
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				4,268,645	4,268,645
2003/04	8,377,500	8,377,500	8,377,500				8,377,500	8,377,500
2004/05	33,606,850	33,606,850	33,606,850				33,606,850	33,606,850
2005/06	23,371,650	23,348,325	23,325,000				23,400,000	23,325,000
2006/07	4,778,538	4,869,415	5,050,850				4,860,000	4,860,000
2007/08	7,086,332	7,065,179	7,002,000				7,002,000	7,002,000
2008/09	8,096,211	8,565,647	10,333,501				7,905,000	8,500,000
2009/10	9,480,058	9,358,950	9,092,500				9,092,500	9,092,500
2010/11	11,506,867	11,243,246	10,938,957				10,715,000	11,000,000
2011/12	39,804,315	43,909,673	46,750,969				36,445,000	43,000,000
2012/13	74,914,800	63,990,168	60,421,386				68,000,000	60,500,000
2013/14	2,429,063	2,436,749	2,438,038				7,000,000	2,500,000
2014/15	17,740,383	28,831,609	30,294,944				37,000,000	28,800,000
2015/16	627,819	9,036,126	9,463,998	13,380,733	10,068,647	29,136,234	10,000,000	11,000,000
2016/17	13,991,404	27,883,424	28,242,268	18,424,109	26,335,978	12,819,943	11,000,000	27,000,000
2017/18	0	23,313,567	23,505,680	19,239,122	22,321,192	23,635,313	12,000,000	22,000,000
2018/19	0	8,847,279	8,848,412	18,876,534	13,034,246	25,211,000	12,500,000	18,000,000
2019/20	0	0	0	19,714,924	12,668,696	14,539,871	17,264,000	17,260,000
<b>Total</b>	<b>\$543,610,333</b>	<b>\$602,482,247</b>	<b>\$605,491,394</b>				<b>\$603,966,392</b>	<b>\$623,622,392</b>
2015/16 - 2019/20	14,619,223	69,080,395	70,060,357	89,635,422	84,428,759	105,342,361	62,764,000	95,260,000
to 2014/15	528,991,110	533,401,852	535,431,037				541,202,392	528,362,392
						<b>Change</b>		
						All years 2015/16 - 2019/20 to 2014/15		\$19,656,000 32,496,000 -12,840,000

- (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 2020/21 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 (2020/21 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2010/11	\$11,000,000	1,814	\$6,064.27	1.473	\$8,932.81
2011/12	43,000,000	1,814	23,705.77	1.416	33,576.12
2012/13	60,500,000	1,840	32,882.40	1.377	45,283.41
2013/14	2,500,000	1,840	1,358.78	1.329	1,805.76
2014/15	28,800,000	1,728	16,670.04	1.283	21,391.05
2015/16	11,000,000	1,787	6,155.63	1.241	7,639.05
2016/17	27,000,000	1,779	15,177.27	1.193	18,110.36
2017/18	22,000,000	1,774	12,400.61	1.147	14,227.98
2018/19	18,000,000	1,638	10,988.16	1.103	12,122.49
2019/20	17,260,000	1,631	10,579.54	1.052	11,130.79
Total	\$241,060,000	17,645	\$13,661.75		\$17,421.98

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)
2020/21	\$13,337.04	1,631	\$21,759,000	0.99	\$13,177.98	\$21,499,000
2021/22	13,870.52	1,631	22,629,000	0.99	13,705.10	22,359,000
2022/23	14,425.34	1,631	23,534,000	0.99	14,253.30	23,254,000

(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) 2020/21 is based on an average of the limited paid and limited reported incurred B-F and development methods using 12 months of experience. Other period(s) based on 2020/21 plus a 4% trend.

(8) to 2020/21 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit MM-Stroger-2.

Estimated Outstanding Losses as of November 30, 2020

Claim Period (1)	Limited Paid Losses 11/30/20 (2)	Limited Case Reserves 11/30/20 (3)	Limited Reported Incurred Losses 11/30/20 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/20 (5)-(4) (6)	Estimated Outstanding Losses 11/30/20 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/20 (7)X(8) (9)
to 2000/01	\$259,882,357	\$0	\$259,882,357	\$259,882,357	\$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	33,606,850	0	33,606,850	33,606,850	0	0	1.00	0
2005/06	23,325,000	0	23,325,000	23,325,000	0	0	1.00	0
2006/07	4,750,000	100,000	4,850,000	4,860,000	10,000	110,000	1.00	109,826
2007/08	7,002,000	0	7,002,000	7,002,000	0	0	1.00	0
2008/09	7,905,000	500,000	8,405,000	8,500,000	95,000	595,000	1.00	593,488
2009/10	9,092,500	0	9,092,500	9,092,500	0	0	1.00	0
2010/11	10,715,000	100,000	10,815,000	11,000,000	185,000	285,000	1.00	284,069
2011/12	35,468,999	6,350,000	41,818,999	43,000,000	1,181,001	7,531,001	1.00	7,503,828
2012/13	60,140,000	200,000	60,340,000	60,500,000	160,000	360,000	1.00	358,754
2013/14	1,625,000	650,000	2,275,000	2,500,000	225,000	875,000	1.00	871,875
2014/15	9,890,000	16,500,000	26,390,000	28,800,000	2,410,000	18,910,000	1.00	18,828,232
2015/16	175,000	7,855,000	8,030,000	11,000,000	2,970,000	10,825,000	1.00	10,779,773
2016/17	1,500,000	21,550,000	23,050,000	27,000,000	3,950,000	25,500,000	0.99	25,370,378
2017/18	0	16,980,000	16,980,000	22,000,000	5,020,000	22,000,000	0.99	21,858,271
2018/19	0	5,155,000	5,155,000	18,000,000	12,845,000	18,000,000	0.99	17,852,949
2019/20	0	0	0	17,260,000	17,260,000	17,260,000	0.99	17,086,544
<b>Total</b>	<b>\$501,371,391</b>	<b>\$75,940,000</b>	<b>\$577,311,391</b>	<b>\$623,622,392</b>	<b>\$46,311,001</b>	<b>\$122,251,001</b>		<b>\$121,497,987</b>

(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 0.19% 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, 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 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	99.8%	192.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	168.0	99.4%	180.0	99.8%	66.6%	110,000	73,236	36,764	1.00	36,729
2007/08	156.0	98.8%	168.0	99.4%	49.8%	0	0	0	1.00	0
2008/09	144.0	97.6%	156.0	98.8%	49.6%	595,000	295,181	299,819	1.00	299,154
2009/10	132.0	95.9%	144.0	97.6%	42.2%	0	0	0	1.00	0
2010/11	120.0	93.1%	132.0	95.9%	40.6%	285,000	115,693	169,307	1.00	168,806
2011/12	108.0	89.1%	120.0	93.1%	36.8%	7,531,001	2,772,640	4,758,361	1.00	4,742,813
2012/13	96.0	80.3%	108.0	89.1%	44.8%	360,000	161,190	198,810	1.00	198,093
2013/14	84.0	66.9%	96.0	80.3%	40.4%	875,000	353,672	521,328	1.00	519,524
2014/15	72.0	55.7%	84.0	66.9%	25.2%	18,910,000	4,764,606	14,145,394	1.00	14,094,875
2015/16	60.0	27.9%	72.0	55.7%	38.6%	10,825,000	4,183,511	6,641,489	1.00	6,612,771
2016/17	48.0	10.7%	60.0	27.9%	19.2%	25,500,000	4,899,369	20,600,631	1.00	20,514,561
2017/18	36.0	2.1%	48.0	10.7%	8.8%	22,000,000	1,928,217	20,071,783	0.99	19,969,754
2018/19	24.0	0.0%	36.0	2.1%	2.1%	18,000,000	382,803	17,617,197	0.99	17,503,703
2019/20	12.0	0.0%	24.0	0.0%	0.0%	17,260,000	1,542	17,258,458	0.99	17,117,465
2020/21	0.0	0.0%	12.0	0.0%	0.0%	21,759,000	1,944	21,757,056	0.99	21,538,406
Total						\$144,010,001	\$19,933,604	\$124,076,397		\$123,316,654

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

(7) to 2019/20 is from Exhibit MM-Stroger-11. The amount for 2020/21 is from Exhibit MM-Stroger-10.

(10) is based on a 0.19% 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, 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 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	99.8%	192.0	100.0%	100.0%	36,764	36,764	0	1.00	0
2007/08	168.0	99.4%	180.0	99.8%	66.6%	0	0	0	1.00	0
2008/09	156.0	98.8%	168.0	99.4%	49.8%	299,819	149,361	150,458	1.00	150,220
2009/10	144.0	97.6%	156.0	98.8%	49.6%	0	0	0	1.00	0
2010/11	132.0	95.9%	144.0	97.6%	42.2%	169,307	71,498	97,809	1.00	97,560
2011/12	120.0	93.1%	132.0	95.9%	40.6%	4,758,361	1,931,605	2,826,756	1.00	2,818,385
2012/13	108.0	89.1%	120.0	93.1%	36.8%	198,810	73,195	125,615	1.00	125,205
2013/14	96.0	80.3%	108.0	89.1%	44.8%	521,328	233,424	287,904	1.00	286,865
2014/15	84.0	66.9%	96.0	80.3%	40.4%	14,145,394	5,717,527	8,427,867	1.00	8,398,699
2015/16	72.0	55.7%	84.0	66.9%	25.2%	6,641,489	1,673,404	4,968,085	1.00	4,950,342
2016/17	60.0	27.9%	72.0	55.7%	38.6%	20,600,631	7,961,475	12,639,156	1.00	12,584,503
2017/18	48.0	10.7%	60.0	27.9%	19.2%	20,071,783	3,856,434	16,215,349	1.00	16,147,600
2018/19	36.0	2.1%	48.0	10.7%	8.8%	17,617,197	1,544,081	16,073,116	0.99	15,991,413
2019/20	24.0	0.0%	36.0	2.1%	2.1%	17,258,458	367,033	16,891,425	0.99	16,782,607
2020/21	12.0	0.0%	24.0	0.0%	0.0%	21,757,056	1,944	21,755,112	0.99	21,577,384
2021/22	0.0	0.0%	12.0	0.0%	0.0%	22,629,000	2,022	22,626,978	0.99	22,399,586
Total						\$146,705,397	\$23,619,767	\$123,085,630		\$122,310,369

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

(7) to 2020/21 is from Exhibit MM-Stroger-12, (9). The amount for 2021/22 is from Exhibit MM-Stroger-10.

(10) is based on a 0.19% 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, 2022 to November 30, 2023

Claim Period (1)	Months of Development 11/30/22 (2)	Percent Losses Paid (3)	Months of Development 11/30/23 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/22 to 11/30/23 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/22 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/23 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/23 (9)X(10) (11)
to 2000/01	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2001/02	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	180.0	99.8%	192.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	168.0	99.4%	180.0	99.8%	66.6%	150,458	100,172	50,286	1.00	50,238
2009/10	156.0	98.8%	168.0	99.4%	49.8%	0	0	0	1.00	0
2010/11	144.0	97.6%	156.0	98.8%	49.6%	97,809	48,523	49,286	1.00	49,177
2011/12	132.0	95.9%	144.0	97.6%	42.2%	2,826,756	1,193,732	1,633,024	1.00	1,628,874
2012/13	120.0	93.1%	132.0	95.9%	40.6%	125,615	50,992	74,623	1.00	74,402
2013/14	108.0	89.1%	120.0	93.1%	36.8%	287,904	105,996	181,908	1.00	181,314
2014/15	96.0	80.3%	108.0	89.1%	44.8%	8,427,867	3,773,568	4,654,299	1.00	4,637,506
2015/16	84.0	66.9%	96.0	80.3%	40.4%	4,968,085	2,008,086	2,959,999	1.00	2,949,755
2016/17	72.0	55.7%	84.0	66.9%	25.2%	12,639,156	3,184,590	9,454,566	1.00	9,420,800
2017/18	60.0	27.9%	72.0	55.7%	38.6%	16,215,349	6,266,706	9,948,643	1.00	9,905,624
2018/19	48.0	10.7%	60.0	27.9%	19.2%	16,073,116	3,088,162	12,984,954	1.00	12,930,702
2019/20	36.0	2.1%	48.0	10.7%	8.8%	16,891,425	1,480,470	15,410,955	0.99	15,332,618
2020/21	24.0	0.0%	36.0	2.1%	2.1%	21,755,112	462,663	21,292,449	0.99	21,155,278
2021/22	12.0	0.0%	24.0	0.0%	0.0%	22,626,978	2,022	22,624,956	0.99	22,440,121
2022/23	0.0	0.0%	12.0	0.0%	0.0%	23,534,000	2,103	23,531,897	0.99	23,295,411
<b>Total</b>						<b>\$146,619,630</b>	<b>\$21,767,785</b>	<b>\$124,851,845</b>		<b>\$124,051,820</b>

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

(7) to 2021/22 is from Exhibit MM-Stroger-13, (9). The amount for 2022/23 is from Exhibit MM-Stroger-10.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit MM-Stroger-2.

List of Large Claims  
 Reported Incurred Losses Greater Than \$2,000,000

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/20 (5)	Unlimited Case Reserves 11/30/20 (6)	Unlimited Reported Incurred Losses 11/30/20 (7)
94000155	08/23/72	to 2000/01	Unlimited	\$2,514,239	\$0	\$2,514,239
97009089	05/09/76	to 2000/01	Unlimited	5,000,000	0	5,000,000
94000244	08/04/79	to 2000/01	Unlimited	3,000,000	0	3,000,000
94000027	02/18/84	to 2000/01	Unlimited	3,000,000	0	3,000,000
94000325	10/31/85	to 2000/01	Unlimited	9,750,000	0	9,750,000
94000164	08/17/86	to 2000/01	Unlimited	6,750,000	0	6,750,000
94000192	03/06/88	to 2000/01	Unlimited	5,250,000	0	5,250,000
97005676	01/21/90	to 2000/01	Unlimited	6,500,000	0	6,500,000
94000221	04/12/90	to 2000/01	Unlimited	3,000,000	0	3,000,000
94000081	05/05/91	to 2000/01	Unlimited	3,600,000	0	3,600,000
97001530	01/01/93	to 2000/01	Unlimited	6,000,000	0	6,000,000
94000196	05/19/93	to 2000/01	Unlimited	7,400,000	0	7,400,000
94000200	06/19/93	to 2000/01	Unlimited	3,600,000	0	3,600,000
94000047	07/18/93	to 2000/01	Unlimited	15,000,000	0	15,000,000
94000197	09/24/93	to 2000/01	Unlimited	5,000,000	0	5,000,000
94000216	10/16/93	to 2000/01	Unlimited	2,500,000	0	2,500,000
94000278	01/26/95	to 2000/01	Unlimited	2,800,000	0	2,800,000
94000306	07/19/95	to 2000/01	Unlimited	3,000,000	0	3,000,000
94000333	07/27/95	to 2000/01	Unlimited	3,000,000	0	3,000,000
94000291	08/16/95	to 2000/01	Unlimited	3,500,000	0	3,500,000
97003948	01/01/96	to 2000/01	Unlimited	5,200,000	0	5,200,000
94000319	03/05/96	to 2000/01	Unlimited	2,430,979	0	2,430,979
97002438	10/21/97	to 2000/01	Unlimited	6,750,000	0	6,750,000
97002578	12/12/97	to 2000/01	Unlimited	3,500,000	0	3,500,000
97002232	04/09/98	to 2000/01	Unlimited	19,250,000	0	19,250,000
97009808	05/04/99	to 2000/01	Unlimited	5,500,000	0	5,500,000
97003168	10/19/99	to 2000/01	Unlimited	3,000,000	0	3,000,000
97003099	12/08/99	to 2000/01	Unlimited	4,000,000	0	4,000,000
97003142	01/03/00	to 2000/01	Unlimited	12,000,000	0	12,000,000
97003311	05/31/00	to 2000/01	Unlimited	10,000,000	0	10,000,000
97003837	11/22/00	to 2000/01	Unlimited	2,100,000	0	2,100,000
97003451	03/06/01	to 2000/01	10,000,000	7,000,000	0	7,000,000
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
97004808	12/19/03	2003/04	20,000,000	3,750,000	0	3,750,000
97005705	03/04/05	2004/05	20,000,000	4,500,000	0	4,500,000
97005709	08/02/05	2004/05	20,000,000	14,000,000	0	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
97007071	01/18/08	2007/08	20,000,000	2,400,000	0	2,400,000
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
97009609	06/21/10	2009/10	40,000,000	2,250,000	0	2,250,000
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
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
201208380	02/17/12	2011/12	40,000,000	0	2,500,000	2,500,000
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
201209334	06/11/12	2011/12	40,000,000	0	2,500,000	2,500,000
97009669	06/25/12	2011/12	40,000,000	5,000,000	0	5,000,000
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	23,750,000	0	23,750,000
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
97010481	11/28/13	2012/13	30,000,000	7,000,000	0	7,000,000
201507573	08/18/15	2014/15	25,000,000	0	15,000,000	15,000,000
97012405	09/14/15	2014/15	25,000,000	5,000,000	0	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
201702225	03/28/17	2016/17	25,000,000	1,500,000	1,500,000	3,000,000
201805656	10/08/17	2016/17	25,000,000	0	15,000,000	15,000,000
201805003	06/16/18	2017/18	25,000,000	0	4,000,000	4,000,000
201806970	09/05/18	2017/18	25,000,000	0	7,000,000	7,000,000
201909642	05/27/19	2018/19	25,000,000	0	5,000,000	5,000,000

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)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	978	32	13	26	29	15	1,093		
0.01 - 5,000	9	1	0	1	1	0	12	12	3.0%
5,000 - 10,000	19	0	0	0	0	0	19	31	7.8%
10,000 - 25,000	13	0	0	0	0	0	13	44	11.1%
25,000 - 50,000	27	5	1	1	1	0	35	79	19.8%
50,000 - 100,000	38	4	0	3	1	0	46	125	31.4%
100,000 - 250,000	46	1	2	1	0	0	50	175	44.0%
250,000 - 500,000	45	4	0	0	0	0	49	224	56.3%
500,000 - 750,000	27	1	0	0	0	0	28	252	63.3%
750,000 - 1,000,000	27	1	1	0	0	0	29	281	70.6%
Over 1,000,000	105	2	4	5	1	0	117	398	100.0%
<b>Total</b>	<b>1,334</b>	<b>51</b>	<b>21</b>	<b>37</b>	<b>33</b>	<b>15</b>	<b>1,491</b>	<b>398</b>	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (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	5,000	0	5,000	5,000	0	35,085	35,085	0.0%
5,000 - 10,000	167,500	0	0	0	0	0	167,500	202,585	0.0%
10,000 - 25,000	271,200	0	0	0	0	0	271,200	473,785	0.1%
25,000 - 50,000	1,212,500	250,000	50,000	50,000	50,000	0	1,612,500	2,086,285	0.4%
50,000 - 100,000	3,279,349	375,000	0	275,000	100,000	0	4,029,349	6,115,634	1.1%
100,000 - 250,000	8,313,000	150,000	500,000	150,000	0	0	9,113,000	15,228,634	2.6%
250,000 - 500,000	18,053,563	1,500,000	0	0	0	0	19,553,563	34,782,197	6.0%
500,000 - 750,000	18,850,000	750,000	0	0	0	0	19,600,000	54,382,197	9.4%
750,000 - 1,000,000	24,035,000	1,000,000	1,000,000	0	0	0	26,035,000	80,417,197	13.9%
Over 1,000,000	449,894,194	4,000,000	21,500,000	16,500,000	5,000,000	0	496,894,194	577,311,391	100.0%
<b>Total</b>	<b>\$524,096,391</b>	<b>\$8,030,000</b>	<b>\$23,050,000</b>	<b>\$16,980,000</b>	<b>\$5,155,000</b>	<b>\$0</b>	<b>\$577,311,391</b>	<b>\$577,311,391</b>	

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

Data was provided by the County.

CookCounty\_MM\_JohnHStrogerHosp\_113020.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 2000/01							
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	231	118,368	0	40,688	420	437	1,631
2020/21	231	118,368	0	40,688	420	437	1,631

(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, 2020  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Limited Paid Losses 11/30/20 (8)	Limited Case Reserves 11/30/20 (9)	Limited Reported Incurred Losses 11/30/20 (10)
to 2000/01	See Note	See Note	240.0	Not Provided	14	0	\$3,980,000	\$0	\$3,980,000
2001/02	15,000,000	50,000,000	228.0	271	2	0	100,000	0	100,000
2002/03	20,000,000	80,000,000	216.0	282	3	0	1,050,000	0	1,050,000
2003/04	20,000,000	None	204.0	315	6	0	20,375,000	0	20,375,000
2004/05	20,000,000	None	192.0	321	7	0	1,900,000	0	1,900,000
2005/06	20,000,000	None	180.0	312	11	0	620,000	0	620,000
2006/07	20,000,000	None	168.0	283	5	0	0	0	0
2007/08	20,000,000	None	156.0	234	4	0	0	0	0
2008/09	20,000,000	None	144.0	281	2	0	175,000	0	175,000
2009/10	40,000,000	None	132.0	193	2	0	0	0	0
2010/11	40,000,000	None	120.0	203	1	0	0	0	0
2011/12	40,000,000	None	108.0	144	1	0	0	0	0
2012/13	30,000,000	None	96.0	43	0	0	0	0	0
2013/14	30,000,000	None	84.0	43	0	0	0	0	0
2014/15	25,000,000	None	72.0	19	0	0	0	0	0
2015/16	25,000,000	80,000,000	60.0	4	0	0	0	0	0
2016/17	25,000,000	80,000,000	48.0	17	0	0	0	0	0
2017/18	25,000,000	80,000,000	36.0	18	0	0	0	0	0
2018/19	25,000,000	80,000,000	24.0	19	0	0	0	0	0
2019/20	35,000,000	80,000,000	12.0	11	0	0	0	0	0
<b>Total</b>					<b>58</b>		<b>\$28,200,000</b>	<b>\$0</b>	<b>\$28,200,000</b>

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

Effective Date	Retention	Aggregate
12/01/70	Unlimited	None
12/01/00	10,000,000	25,000,000
12/01/01	15,000,000	see column (3)
12/01/02	20,000,000	see column (3)
03/01/10	40,000,000	see column (3)
03/01/13	30,000,000	see column (3)
07/01/15	25,000,000	see column (3)
07/01/20	35,000,000	see column (3)

(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 - OAK FOREST HEALTH CENTER

Data Summary as of November 30, 2020  
 Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Net Unlimited Paid Losses 11/30/20 (8)	Net Unlimited Case Reserves 11/30/20 (9)	Net Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	14	0	\$3,980,000	\$0	\$3,980,000
2001/02	Unlimited	50,000,000	228.0	271	2	0	100,000	0	100,000
2002/03	Unlimited	80,000,000	216.0	282	3	0	1,050,000	0	1,050,000
2003/04	Unlimited	None	204.0	315	6	0	20,375,000	0	20,375,000
2004/05	Unlimited	None	192.0	321	7	0	1,900,000	0	1,900,000
2005/06	Unlimited	None	180.0	312	11	0	620,000	0	620,000
2006/07	Unlimited	None	168.0	283	5	0	0	0	0
2007/08	Unlimited	None	156.0	234	4	0	0	0	0
2008/09	Unlimited	None	144.0	281	2	0	175,000	0	175,000
2009/10	Unlimited	None	132.0	193	2	0	0	0	0
2010/11	Unlimited	None	120.0	203	1	0	0	0	0
2011/12	Unlimited	None	108.0	144	1	0	0	0	0
2012/13	Unlimited	None	96.0	43	0	0	0	0	0
2013/14	Unlimited	None	84.0	43	0	0	0	0	0
2014/15	Unlimited	None	72.0	19	0	0	0	0	0
2015/16	Unlimited	80,000,000	60.0	4	0	0	0	0	0
2016/17	Unlimited	80,000,000	48.0	17	0	0	0	0	0
2017/18	Unlimited	80,000,000	36.0	18	0	0	0	0	0
2018/19	Unlimited	80,000,000	24.0	19	0	0	0	0	0
2019/20	Unlimited	80,000,000	12.0	11	0	0	0	0	0
<b>Total</b>					<b>58</b>		<b>\$28,200,000</b>	<b>\$0</b>	<b>\$28,200,000</b>

(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, 2020  
 Gross Unlimited Losses

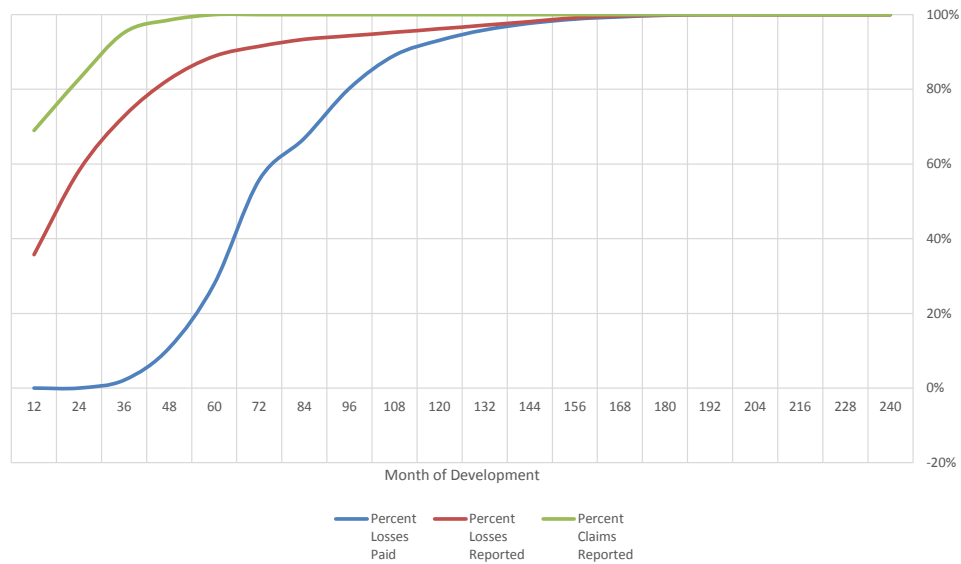
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Gross Unlimited Paid Losses 11/30/20 (8)	Gross Unlimited Case Reserves 11/30/20 (9)	Gross Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	14	0	\$3,980,000	\$0	\$3,980,000
2001/02	Unlimited	50,000,000	228.0	271	2	0	100,000	0	100,000
2002/03	Unlimited	80,000,000	216.0	282	3	0	1,050,000	0	1,050,000
2003/04	Unlimited	None	204.0	315	6	0	20,375,000	0	20,375,000
2004/05	Unlimited	None	192.0	321	7	0	1,900,000	0	1,900,000
2005/06	Unlimited	None	180.0	312	11	0	620,000	0	620,000
2006/07	Unlimited	None	168.0	283	5	0	0	0	0
2007/08	Unlimited	None	156.0	234	4	0	0	0	0
2008/09	Unlimited	None	144.0	281	2	0	175,000	0	175,000
2009/10	Unlimited	None	132.0	193	2	0	0	0	0
2010/11	Unlimited	None	120.0	203	1	0	0	0	0
2011/12	Unlimited	None	108.0	144	1	0	0	0	0
2012/13	Unlimited	None	96.0	43	0	0	0	0	0
2013/14	Unlimited	None	84.0	43	0	0	0	0	0
2014/15	Unlimited	None	72.0	19	0	0	0	0	0
2015/16	Unlimited	80,000,000	60.0	4	0	0	0	0	0
2016/17	Unlimited	80,000,000	48.0	17	0	0	0	0	0
2017/18	Unlimited	80,000,000	36.0	18	0	0	0	0	0
2018/19	Unlimited	80,000,000	24.0	19	0	0	0	0	0
2019/20	Unlimited	80,000,000	12.0	11	0	0	0	0	0
<b>Total</b>					<b>58</b>		<b>\$28,200,000</b>	<b>\$0</b>	<b>\$28,200,000</b>

(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	99.8%	99.9%	100.0%
168.0	99.4%	99.6%	100.0%
156.0	98.8%	99.1%	100.0%
144.0	97.6%	98.1%	100.0%
132.0	95.9%	97.2%	100.0%
120.0	93.1%	96.2%	100.0%
108.0	89.1%	95.2%	100.0%
96.0	80.3%	94.3%	100.0%
84.0	66.9%	93.4%	100.0%
72.0	55.7%	91.5%	100.0%
60.0	27.9%	88.9%	100.0%
48.0	10.7%	82.7%	98.5%
36.0	2.1%	72.8%	95.2%
24.0	0.0%	58.3%	82.8%
12.0	0.0%	35.7%	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).

COOK COUNTY, ILLINOIS  
MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

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 2000/01																				\$285,259	\$285,259	\$285,259
2001/02	0	0	30	9,351	12,349	16,054	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	24,848	24,848	24,848	24,848			
2002/03	10	12	1,260	1,263	3,248	4,488	4,888	4,986	5,316	5,316	5,316	5,316	5,316	5,316	5,313	5,313	5,313	5,313	5,313			
2003/04	0	0	0	8,781	16,656	18,246	19,496	19,646	19,646	19,646	19,646	19,646	19,646	19,196	19,196	19,196	19,196	19,196	19,196			
2004/05	0	90	107	5,775	16,665	18,715	18,715	18,715	18,715	19,715	19,715	19,715	19,715	19,698	19,698	19,698	19,698	19,698	19,698			
2005/06	0	1	516	528	6,778	9,228	9,908	11,533	11,603	23,603	24,028	24,000	24,000	24,000	24,000	24,750						
2006/07	0	16	16	26	2,016	2,016	4,766	4,766	4,766	4,766	4,753	4,753	4,753	4,753								
2007/08	0	127	127	3,677	6,027	8,427	8,427	8,427	8,427	8,302	8,302	8,302	8,302	8,302								
2008/09	0	0	2,445	3,155	3,155	4,405	5,155	8,155	8,205	8,205	8,205	8,205	8,205									
2009/10	0	0	0	2,318	7,653	10,438	11,203	11,203	11,203	11,203	11,203	11,203	11,203									
2010/11	0	0	0	2,850	4,878	5,168	5,468	10,718	10,718	10,718												
2011/12	0	20,100	20,825	24,390	26,195	34,294	37,294	37,294	37,294													
2012/13	0	850	850	2,330	5,590	20,255	35,565	61,315														
2013/14	0	0	0	825	1,675	2,050																
2014/15	0	25	30	58	3,966	9,931																
2015/16	90	2,590	4,540	4,835	5,075																	
2016/17	0	0	900	2,400																		
2017/18	0	0	0																			
2018/19	0	0																				
2019/20	0																					

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 2000/01																				1.000	1.000
2001/02			311.700	1.321	1.300	1.561	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.992	1.000	1.000	1.000	1.000		
2002/03	1.150	109.565	1.002	2.572	1.382	1.089	1.020	1.066	1.000	1.000	1.000	1.000	1.000	0.999	1.000	1.000	1.000	1.000	1.000		
2003/04				1.897	1.095	1.069	1.008	1.000	1.000	1.000	1.000	1.000	0.977	1.000	1.000	1.000					
2004/05		1.189	53.971	2.886	1.123	1.000	1.000	1.000	1.053	1.000	1.000	0.999	1.000	1.000	1.711						
2005/06		1032.000	1.023	12.837	1.361	1.074	1.164	1.006	2.034	1.018	0.999	1.000	1.000	1.031							
2006/07		1.000	1.621	77.245	1.000	2.364	1.000	1.000	1.000	0.997	1.000	1.000	1.000								
2007/08		1.000	28.953	1.639	1.398	1.000	1.000	1.000	0.985	1.000	1.000	1.000									
2008/09			1.290	1.000	1.396	1.170	1.582	1.006	1.000	1.000	1.000										
2009/10				3.302	1.364	1.073	1.000	1.000	1.000	1.000											
2010/11				1.712	1.059	1.058	1.960	1.000	1.000												
2011/12		1.036	1.171	1.074	1.309	1.087	1.000	1.000													
2012/13		1.000	2.741	2.399	3.623	1.756	1.724														
2013/14				2.030	1.224	1.000															
2014/15		1.200	1.933	68.379	2.504																
2015/16	28.778	1.753	1.065	1.050																	
2016/17			2.667																		
2017/18																					
2018/19																					
2019/20																					
Average																					
All	14.964	127.749	34.095	12.090	1.510	1.254	1.205	1.007	1.107	1.002	1.000	1.000	0.996	1.006	1.176	1.000	1.000	1.000	1.000	1.000	
Wtd 3		2.100	1.333	1.874	2.870	1.324	1.396	1.000	1.000	1.000	1.000	1.000	1.000	1.012	1.317	1.000					
Last 3			1.888	23.820	2.450	1.281	1.561	1.000	1.000	1.000	1.000	1.000	1.000	1.010	1.237	1.000					
Last 5				1.834	1.679	1.073	1.435	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
x-hi,low																					
Previous	2.000	120.000	5.000	2.600	2.000	1.200	1.180	1.120	1.050	1.040	1.020	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Selected	2.000	120.000	5.000	2.600	2.000	1.200	1.200	1.110	1.045	1.030	1.018	1.012	1.006	1.004	1.002	1.000	1.000	1.000	1.000	1.000	
Cumulative	#####	5596.562	46.638	9.328	3.588	1.794	1.495	1.246	1.122	1.074	1.043	1.024	1.012	1.006	1.002	1.000	1.000	1.000	1.000	1.000	
Percent	0.0%	0.0%	2.1%	10.7%	27.9%	55.7%	66.9%	80.3%	89.1%	93.1%	95.9%	97.6%	98.8%	99.4%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	

Amounts are limited (net of excess insurance).

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

COOK COUNTY, ILLINOIS  
MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

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 2000/01																			\$285,259	\$285,259	\$285,259
2001/02	33,740	25,655	29,808	24,761	25,134	31,305	25,861	26,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	24,848	24,848	24,848	24,848	24,848	
2002/03	26,711	16,022	31,503	8,413	8,248	6,788	5,688	5,336	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,313	5,313	5,313	5,313	5,313	
2003/04	28,331	39,505	26,840	38,771	29,756	28,646	20,246	20,146	19,646	19,646	19,646	19,646	19,646	19,196	19,196	19,196	19,196	19,196	19,196	19,196	
2004/05	9,450	27,041	20,842	24,110	21,345	19,465	18,715	19,715	19,715	19,715	19,715	19,715	19,715	29,698	39,698	33,698	33,698	33,698	33,698	33,698	
2005/06	14,276	35,957	22,631	24,828	17,228	16,758	13,858	15,603	25,603	25,603	24,028	24,250	25,000	24,750	24,750						
2006/07	11,046	13,126	8,721	5,787	4,726	5,646	4,766	4,766	4,766	4,766	4,853	4,853	4,853	4,853							
2007/08	24,827	12,544	17,152	18,477	12,927	12,227	10,927	8,427	8,427	8,302	8,302	8,302	8,302								
2008/09	5,235	6,890	9,775	10,255	9,555	10,005	8,255	8,405	8,205	8,205	8,205	8,705									
2009/10	5,095	8,253	15,550	16,368	13,503	12,388	11,203	11,203	11,203	11,203	11,203										
2010/11	770	3,900	8,530	11,105	11,183	10,673	9,968	10,718	10,718	10,818											
2011/12	23,923	34,253	39,927	39,455	39,455	39,045	37,644	38,344	38,044	43,644											
2012/13	6,925	12,000	29,150	39,255	61,465	66,155	70,215	63,015													
2013/14	1,560	7,155	6,400	5,575	3,125	2,700															
2014/15	7,000	8,225	8,630	16,108	38,101	29,431															
2015/16	5,190	8,620	11,315	12,990	13,930																
2016/17	450	2,376	9,851	28,000																	
2017/18	1,450	3,955	16,980																		
2018/19	50	5,155																			
2019/20	0																				

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 2000/01																			1.000	1.000
2001/02	0.760	1.162	0.831	1.015	1.246	0.826	1.008	0.962	1.000	1.000	1.000	1.000	1.000	1.000	0.992	1.000	1.000	1.000	1.000	1.000
2002/03	0.600	0.360	1.458	0.980	0.823	0.838	0.938	0.996	1.000	1.000	1.000	1.000	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000
2003/04	1.394	0.679	1.445	0.767	0.963	0.707	0.995	0.975	1.000	1.000	1.000	1.000	0.977	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2004/05	2.861	0.771	1.157	0.885	0.912	0.961	1.053	1.000	1.000	1.000	1.000	1.506	1.337	0.849	1.000					
2005/06	2.519	0.629	1.097	0.694	0.973	0.827	1.126	1.641	1.000	0.938	1.009	1.031	0.990	1.000						
2006/07	1.188	0.664	0.664	0.817	1.195	0.973	0.867	1.000	1.000	1.018	1.000	1.000	1.000							
2007/08	0.505	1.367	1.077	0.700	0.946	0.894	0.771	1.000	0.985	1.000	1.000	1.000								
2008/09	1.316	1.419	1.049	0.932	1.047	0.825	1.018	0.976	1.000	1.000	1.061									
2009/10	1.620	1.884	1.053	0.825	0.917	0.904	1.000	1.000	1.000	1.000										
2010/11	5.065	2.187	1.302	1.007	0.954	0.934	1.075	1.000	1.009											
2011/12	1.432	1.166	0.988	0.990	0.964	1.019	0.992	1.147												
2012/13	1.733	2.429	1.347	1.566	1.076	1.061	0.897													
2013/14	4.587	0.894	0.871	0.561	0.864	1.000														
2014/15	1.175	1.049	1.867	2.365	0.772															
2015/16	1.661	1.313	1.148	1.072																
2016/17	5.279	4.147	2.842																	
2017/18	2.728	4.293																		
2018/19	103.100																			
2019/20																				
Average																				
All	7.751	1.554	1.262	1.012	0.975	0.905	0.978	1.063	0.999	0.995	1.009	1.077	1.051	0.970	0.998	1.000	1.000	1.000	1.000	1.000
Wtd 3	5.890	2.551	1.916	1.591	0.957	1.045	0.943	1.093	1.003	1.000	1.023	1.020	1.164	0.928	1.000	1.000	1.000	1.000	1.000	1.000
Last 3	37.035	3.251	1.952	1.333	0.904	1.027	0.988	1.049	1.003	1.000	1.020	1.010	1.109	0.950	1.000	1.000	1.000	1.000	1.000	1.000
Last 5	3.222	2.170	1.454	1.209	0.928	0.984	1.003	1.000	1.000	1.000	1.003	1.010	0.997	1.000						
x-hi,low																				
Previous	1.600	1.225	1.125	1.075	1.050	1.020	1.020	1.020	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Selected	1.630	1.250	1.135	1.075	1.030	1.020	1.010	1.010	1.010	1.010	1.010	1.010	1.005	1.003	1.001	1.000	1.000	1.000	1.000	1.000
Cumulative	2.797	1.716	1.373	1.210	1.125	1.093	1.071	1.060	1.050	1.040	1.029	1.019	1.009	1.004	1.001	1.000	1.000	1.000	1.000	1.000
Percent	35.7%	58.3%	72.8%	82.7%	88.9%	91.5%	93.4%	94.3%	95.2%	96.2%	97.2%	98.1%	99.1%	99.6%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%

Amounts are limited (net of excess insurance).

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

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 2000/01																				520	520
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	
2005/06											100	101	101	101	101	101					
2006/07										72	73	73	73	73							
2007/08									51	51	51	51	51	51							
2008/09									46	46	46	46	47	51							
2009/10									51	51	51	51	51								
2010/11									59	59	60	60	60								
2011/12						56	59	59	56	57	57	59									
2012/13				64	65	65	65	65													
2013/14			41	42	42	42	42														
2014/15		33	43	45	47	47															
2015/16	35	46	53	56	57																
2016/17	12	19	25	26																	
2017/18	28	34	39																		
2018/19	29	38																			
2019/20	15																				

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 2000/01																				1.000
2001/02															1.000	1.000	1.000	1.000	1.000	
2002/03														1.000	1.000	1.000	1.000	1.000	1.000	
2003/04													1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2004/05												1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2005/06												1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2006/07										1.014	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2007/08									1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2008/09								1.000	1.000	1.000	1.000	1.022	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2009/10							1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2010/11						1.000	1.000	1.017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2011/12					1.000	1.018	1.000	1.035	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2012/13				1.016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2013/14			1.024	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2014/15		1.303	1.047	1.044	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2015/16	1.314	1.152	1.057	1.018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2016/17	1.583	1.316	1.040	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2017/18	1.214	1.147	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2018/19	1.310	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2019/20	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Average																				
All	1.356	1.230	1.042	1.019	1.000	1.004	1.004	1.009	1.000	1.003	1.008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Wtd 3	1.319	1.182	1.050	1.021	1.000	1.006	1.006	1.012	1.000	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Last 3	1.369	1.205	1.048	1.021	1.000	1.006	1.006	1.012	1.000	1.000	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Last 5																				
x-hi,low																				
Previous	1.200	1.150	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
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.

COOK COUNTY, ILLINOIS  
MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

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 2000/01																				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%	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%	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%	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%	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%	100.0%							
2006/07	0.0%	0.1%	0.2%	0.5%	42.7%	35.7%	86.7%	100.0%	100.0%	100.0%	97.9%	97.9%	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%	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%	94.3%										
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	100.0%	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%	100.0%	99.1%												
2011/12	0.0%	58.7%	52.2%	61.8%	67.1%	91.1%	97.3%	98.0%	85.5%													
2012/13	0.0%	7.1%	2.9%	5.9%	9.1%	30.6%	50.7%	97.3%														
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%	33.7%																
2015/16	1.7%	30.0%	40.1%	37.2%	36.4%																	
2016/17	0.0%	0.0%	9.1%	8.6%																		
2017/18	0.0%	0.0%	0.0%																			
2018/19	0.0%	0.0%																				
2019/20																						
<b>Average</b>																						
All	0.1%	5.4%	9.1%	20.1%	44.1%	60.4%	81.2%	95.7%	93.2%	99.1%	99.8%	98.9%	94.3%	90.8%	91.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 3			16.4%	15.4%	33.5%	46.8%	74.6%	98.4%	95.2%	99.7%	100.0%	97.4%	98.0%	81.5%	86.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 5	0.0%	0.1%	3.2%	9.8%	33.5%	52.7%	76.0%	98.4%	100.0%	100.0%	100.0%	99.0%	98.0%	98.3%	100.0%							
x-hi,low																						
Implicit	0.0%	0.0%	2.9%	13.0%	31.4%	60.9%	71.7%	85.1%	93.6%	96.8%	98.7%	99.5%	99.7%	99.8%	99.9%	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%	100.0%



Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/20 (2)	Limited Paid Losses 11/30/20 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 2000/01	240.0	\$3,980,000	100.0%	\$3,980,000
2001/02	228.0	100,000	100.0%	100,000
2002/03	216.0	1,050,000	100.0%	1,050,000
2003/04	204.0	20,375,000	100.0%	20,375,000
2004/05	192.0	1,900,000	100.0%	1,900,000
2005/06	180.0	620,000	99.8%	621,240
2006/07	168.0	0	99.4%	0
2007/08	156.0	0	98.8%	0
2008/09	144.0	175,000	97.6%	179,233
2009/10	132.0	0	95.9%	0
2010/11	120.0	0	93.1%	0
2011/12	108.0	0	89.1%	0
2012/13	96.0	0	80.3%	0
2013/14	84.0	0	66.9%	0
2014/15	72.0	0	55.7%	0
2015/16	60.0	0	27.9%	0
2016/17	48.0	0	10.7%	0
2017/18	36.0	0	2.1%	0
2018/19	24.0	0	0.0%	0
2019/20	12.0	0	0.0%	0
<b>Total</b>		<b>\$28,200,000</b>		<b>\$28,205,473</b>

(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 11/30/20 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 2000/01	240.0	\$3,980,000	100.0%	\$3,980,000
2001/02	228.0	100,000	100.0%	100,000
2002/03	216.0	1,050,000	100.0%	1,050,000
2003/04	204.0	20,375,000	100.0%	20,375,000
2004/05	192.0	1,900,000	100.0%	1,900,000
2005/06	180.0	620,000	99.9%	620,620
2006/07	168.0	0	99.6%	0
2007/08	156.0	0	99.1%	0
2008/09	144.0	175,000	98.1%	178,345
2009/10	132.0	0	97.2%	0
2010/11	120.0	0	96.2%	0
2011/12	108.0	0	95.2%	0
2012/13	96.0	0	94.3%	0
2013/14	84.0	0	93.4%	0
2014/15	72.0	0	91.5%	0
2015/16	60.0	0	88.9%	0
2016/17	48.0	0	82.7%	0
2017/18	36.0	0	72.8%	0
2018/19	24.0	0	58.3%	0
2019/20	12.0	0	35.7%	0
<b>Total</b>		<b>\$28,200,000</b>		<b>\$28,203,965</b>

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

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



COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Exhibit MM-Oak Forest-5

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/20 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/20 (6)	Limited Case Reserves 11/30/20 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 2000/01	240.0	100.0%	100.0%	100.0%	\$3,980,000	\$0	\$3,980,000
2001/02	228.0	100.0%	100.0%	100.0%	100,000	0	100,000
2002/03	216.0	100.0%	100.0%	100.0%	1,050,000	0	1,050,000
2003/04	204.0	100.0%	100.0%	100.0%	20,375,000	0	20,375,000
2004/05	192.0	100.0%	100.0%	100.0%	1,900,000	0	1,900,000
2005/06	180.0	99.8%	99.9%	50.0%	620,000	0	620,000
2006/07	168.0	99.4%	99.6%	33.2%	0	0	0
2007/08	156.0	98.8%	99.1%	24.9%	0	0	0
2008/09	144.0	97.6%	98.1%	20.6%	175,000	0	175,000
2009/10	132.0	95.9%	97.2%	30.4%	0	0	0
2010/11	120.0	93.1%	96.2%	44.7%	0	0	0
2011/12	108.0	89.1%	95.2%	56.3%	0	0	0
2012/13	96.0	80.3%	94.3%	71.1%	0	0	0
2013/14	84.0	66.9%	93.4%	79.9%	0	0	0
2014/15	72.0	55.7%	91.5%	80.9%	0	0	0
2015/16	60.0	27.9%	88.9%	84.6%	0	0	0
2016/17	48.0	10.7%	82.7%	80.6%	0	0	0
2017/18	36.0	2.1%	72.8%	72.2%	0	0	0
2018/19	24.0	0.0%	58.3%	58.3%	0	0	0
2019/20	12.0	0.0%	35.7%	35.7%	0	0	0
<b>Total</b>					<b>\$28,200,000</b>	<b>\$0</b>	<b>\$28,200,000</b>

(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 2019/20

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 2000/01	\$3,980,000	\$3,980,000	\$3,980,000	\$3,980,000
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	621,240	620,620	620,000	620,000
2006/07	0	0	0	0
2007/08	0	0	0	0
2008/09	179,233	178,345	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
2019/20	0	0	0	0
<b>Total</b>	<b>\$28,205,473</b>	<b>\$28,203,965</b>	<b>\$28,200,000</b>	<b>\$28,200,000</b>

(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 (2020/21 = 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)
2010/11	\$0	203	\$0.00	1.473	\$0.00	\$339.44
2011/12	0	144	0.00	1.416	0.00	353.02
2012/13	0	43	0.00	1.377	0.00	363.07
2013/14	0	43	0.00	1.329	0.00	376.23
2014/15	0	19	0.00	1.283	0.00	389.65
2015/16	0	4	0.00	1.241	0.00	402.91
2016/17	0	17	0.00	1.193	0.00	419.02
2017/18	0	18	0.00	1.147	0.00	435.78
2018/19	0	19	0.00	1.103	0.00	453.21
2019/20	0	11	0.00	1.052	0.00	475.24

(7) Projected 2020/21 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 11/30/20 (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)
2015/16	\$0	27.9%	\$402.91	4	\$1,296	\$1,296
2016/17	0	10.7%	419.02	17	6,509	6,509
2017/18	0	2.1%	435.78	18	7,720	7,720
2018/19	0	0.0%	453.21	19	8,573	8,573
2019/20	0	0.0%	475.24	11	5,029	5,029

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/20 (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)
2015/16	\$0	88.9%	\$402.91	4	\$200	\$200
2016/17	0	82.7%	419.02	17	1,264	1,264
2017/18	0	72.8%	435.78	18	2,143	2,143
2018/19	0	58.3%	453.21	19	3,578	3,578
2019/20	0	35.7%	475.24	11	3,232	3,232

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 11/30/20 (2)	Reported Claims 11/30/20 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2010/11	120.0	1	100.0%	1	203	0.00
2011/12	108.0	1	100.0%	1	144	0.01
2012/13	96.0	0	100.0%	0	43	0.00
2013/14	84.0	0	100.0%	0	43	0.00
2014/15	72.0	0	100.0%	0	19	0.00
2015/16	60.0	0	100.0%	0	4	0.00
2016/17	48.0	0	98.5%	0	17	0.00
2017/18	36.0	0	95.2%	0	18	0.00
2018/19	24.0	0	82.8%	0	19	0.00
2019/20	12.0	0	69.0%	0	11	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 (2020/21 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2020/21 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2010/11	\$0	1	\$0	1.473	\$0	\$67,888	\$67,888
2011/12	0	1	0	1.416	0	70,603	70,603
2012/13	0	0	0	1.377	0	72,615	0
2013/14	0	0	0	1.329	0	75,247	0
2014/15	0	0	0	1.283	0	77,930	0
2015/16	0	0	0	1.241	0	80,581	0
2016/17	0	0	0	1.193	0	83,804	0
2017/18	0	0	0	1.147	0	87,157	0
2018/19	0	0	0	1.103	0	90,643	0
2019/20	0	0	0	1.052	0	95,048	0

(7) Projected 2020/21 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 2019/20

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 2000/01	\$3,980,000	\$3,980,000	\$3,980,000				\$3,980,000	\$3,980,000
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	621,240	620,620	620,000				620,000	620,000
2006/07	0	0	0					0
2007/08	0	0	0					0
2008/09	179,233	178,345	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	1,296	200		15,000	0
2016/17	0	0	0	6,509	1,264		20,000	10,000
2017/18	0	0	0	7,720	2,143		25,000	15,000
2018/19	0	0	0	8,573	3,578		30,000	20,000
2019/20	0	0	0	5,029	3,232		16,000	25,000
<b>Total</b>	<b>\$28,205,473</b>	<b>\$28,203,965</b>	<b>\$28,200,000</b>				<b>\$28,306,000</b>	<b>\$28,270,000</b>
2015/16 - 2019/20	0	0	0	29,127	10,417	0	106,000	70,000
to 2014/15	28,205,473	28,203,965	28,200,000				28,200,000	28,200,000
						<b>Change</b>		
						All years		-36,000
						2015/16 - 2019/20		-36,000
						to 2014/15		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 2020/21 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 (2020/21 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2010/11	\$0	203	\$0.00	1.473	\$0.00
2011/12	0	144	0.00	1.416	0.00
2012/13	0	43	0.00	1.377	0.00
2013/14	0	43	0.00	1.329	0.00
2014/15	0	19	0.00	1.283	0.00
2015/16	0	4	0.00	1.241	0.00
2016/17	10,000	17	574.75	1.193	685.83
2017/18	15,000	18	828.57	1.147	950.67
2018/19	20,000	19	1,057.17	1.103	1,166.31
2019/20	25,000	11	2,362.15	1.052	2,485.22
<b>Total</b>	<b>\$70,000</b>	<b>522</b>	<b>\$134.20</b>		<b>\$528.80</b>

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)
2020/21	\$426.11	11	\$5,000	0.99	\$421.03	\$4,000
2021/22	443.15	11	5,000	0.99	437.87	5,000
2022/23	460.88	11	5,000	0.99	455.38	5,000

(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) 2020/21 is based on an average of the limited paid and limited reported incurred B-F and development methods using 12 months of experience. Other period(s) based on 2020/21 plus a 4% trend.

(8) to 2020/21 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 0.19% 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, 2020

Claim Period (1)	Limited Paid Losses 11/30/20 (2)	Limited Case Reserves 11/30/20 (3)	Limited Reported Incurred Losses 11/30/20 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/20 (5)-(4) (6)	Estimated Outstanding Losses 11/30/20 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/20 (7)X(8) (9)
to 2000/01	\$3,980,000	\$0	\$3,980,000	\$3,980,000	\$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	1.00	0
2009/10	0	0	0	0	0	0	1.00	0
2010/11	0	0	0	0	0	0	1.00	0
2011/12	0	0	0	0	0	0	1.00	0
2012/13	0	0	0	0	0	0	1.00	0
2013/14	0	0	0	0	0	0	1.00	0
2014/15	0	0	0	0	0	0	1.00	0
2015/16	0	0	0	0	0	0	1.00	0
2016/17	0	0	0	10,000	10,000	10,000	0.99	9,949
2017/18	0	0	0	15,000	15,000	15,000	0.99	14,903
2018/19	0	0	0	20,000	20,000	20,000	0.99	19,837
2019/20	0	0	0	25,000	25,000	25,000	0.99	24,749
<b>Total</b>	<b>\$28,200,000</b>	<b>\$0</b>	<b>\$28,200,000</b>	<b>\$28,270,000</b>	<b>\$70,000</b>	<b>\$70,000</b>		<b>\$69,438</b>

(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 0.19% 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, 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 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	99.8%	192.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	168.0	99.4%	180.0	99.8%	66.6%	0	0	0	1.00	0
2007/08	156.0	98.8%	168.0	99.4%	49.8%	0	0	0	1.00	0
2008/09	144.0	97.6%	156.0	98.8%	49.6%	0	0	0	1.00	0
2009/10	132.0	95.9%	144.0	97.6%	42.2%	0	0	0	1.00	0
2010/11	120.0	93.1%	132.0	95.9%	40.6%	0	0	0	1.00	0
2011/12	108.0	89.1%	120.0	93.1%	36.8%	0	0	0	1.00	0
2012/13	96.0	80.3%	108.0	89.1%	44.8%	0	0	0	1.00	0
2013/14	84.0	66.9%	96.0	80.3%	40.4%	0	0	0	1.00	0
2014/15	72.0	55.7%	84.0	66.9%	25.2%	0	0	0	1.00	0
2015/16	60.0	27.9%	72.0	55.7%	38.6%	0	0	0	1.00	0
2016/17	48.0	10.7%	60.0	27.9%	19.2%	10,000	1,921	8,079	1.00	8,045
2017/18	36.0	2.1%	48.0	10.7%	8.8%	15,000	1,315	13,685	0.99	13,615
2018/19	24.0	0.0%	36.0	2.1%	2.1%	20,000	425	19,575	0.99	19,449
2019/20	12.0	0.0%	24.0	0.0%	0.0%	25,000	2	24,998	0.99	24,794
2020/21	0.0	0.0%	12.0	0.0%	0.0%	5,000	0	5,000	0.99	4,950
<b>Total</b>						<b>\$75,000</b>	<b>\$3,663</b>	<b>\$71,337</b>		<b>\$70,853</b>

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

(7) to 2019/20 is from Exhibit MM-Oak Forest-11. The amount for 2020/21 is from Exhibit MM-Oak Forest-10.

(10) is based on a 0.19% 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, 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 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	99.8%	192.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	168.0	99.4%	180.0	99.8%	66.6%	0	0	0	1.00	0
2008/09	156.0	98.8%	168.0	99.4%	49.8%	0	0	0	1.00	0
2009/10	144.0	97.6%	156.0	98.8%	49.6%	0	0	0	1.00	0
2010/11	132.0	95.9%	144.0	97.6%	42.2%	0	0	0	1.00	0
2011/12	120.0	93.1%	132.0	95.9%	40.6%	0	0	0	1.00	0
2012/13	108.0	89.1%	120.0	93.1%	36.8%	0	0	0	1.00	0
2013/14	96.0	80.3%	108.0	89.1%	44.8%	0	0	0	1.00	0
2014/15	84.0	66.9%	96.0	80.3%	40.4%	0	0	0	1.00	0
2015/16	72.0	55.7%	84.0	66.9%	25.2%	0	0	0	1.00	0
2016/17	60.0	27.9%	72.0	55.7%	38.6%	8,079	3,122	4,957	1.00	4,936
2017/18	48.0	10.7%	60.0	27.9%	19.2%	13,685	2,629	11,056	1.00	11,010
2018/19	36.0	2.1%	48.0	10.7%	8.8%	19,575	1,716	17,859	0.99	17,768
2019/20	24.0	0.0%	36.0	2.1%	2.1%	24,998	532	24,466	0.99	24,308
2020/21	12.0	0.0%	24.0	0.0%	0.0%	5,000	0	5,000	0.99	4,959
2021/22	0.0	0.0%	12.0	0.0%	0.0%	5,000	0	5,000	0.99	4,950
<b>Total</b>						<b>\$76,337</b>	<b>\$7,999</b>	<b>\$68,338</b>		<b>\$67,931</b>

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

(7) to 2020/21 is from Exhibit MM-Oak Forest-12, (9). The amount for 2021/22 is from Exhibit MM-Oak Forest-10.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit MM-Oak Forest-2.

Projected Losses Paid December 1, 2022 to November 30, 2023

Claim Period (1)	Months of Development 11/30/22 (2)	Percent Losses Paid (3)	Months of Development 11/30/23 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/22 to 11/30/23 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/22 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/23 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/23 (9)X(10) (11)
to 2000/01	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2001/02	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	180.0	99.8%	192.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	168.0	99.4%	180.0	99.8%	66.6%	0	0	0	1.00	0
2009/10	156.0	98.8%	168.0	99.4%	49.8%	0	0	0	1.00	0
2010/11	144.0	97.6%	156.0	98.8%	49.6%	0	0	0	1.00	0
2011/12	132.0	95.9%	144.0	97.6%	42.2%	0	0	0	1.00	0
2012/13	120.0	93.1%	132.0	95.9%	40.6%	0	0	0	1.00	0
2013/14	108.0	89.1%	120.0	93.1%	36.8%	0	0	0	1.00	0
2014/15	96.0	80.3%	108.0	89.1%	44.8%	0	0	0	1.00	0
2015/16	84.0	66.9%	96.0	80.3%	40.4%	0	0	0	1.00	0
2016/17	72.0	55.7%	84.0	66.9%	25.2%	4,957	1,249	3,708	1.00	3,695
2017/18	60.0	27.9%	72.0	55.7%	38.6%	11,056	4,273	6,783	1.00	6,754
2018/19	48.0	10.7%	60.0	27.9%	19.2%	17,859	3,431	14,428	1.00	14,368
2019/20	36.0	2.1%	48.0	10.7%	8.8%	24,466	2,144	22,322	0.99	22,209
2020/21	24.0	0.0%	36.0	2.1%	2.1%	5,000	106	4,894	0.99	4,862
2021/22	12.0	0.0%	24.0	0.0%	0.0%	5,000	0	5,000	0.99	4,959
2022/23	0.0	0.0%	12.0	0.0%	0.0%	5,000	0	5,000	0.99	4,950
<b>Total</b>						<b>\$73,338</b>	<b>\$11,203</b>	<b>\$62,135</b>		<b>\$61,797</b>

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

(7) to 2021/22 is from Exhibit MM-Oak Forest-13, (9). The amount for 2022/23 is from Exhibit MM-Oak Forest-10.

(10) is based on a 0.19% 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-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 11/30/20 (5)	Unlimited Case Reserves 11/30/20 (6)	Unlimited Reported Incurred Losses 11/30/20 (7)
94000125	09/15/87	to 2000/01	Unlimited	\$2,500,000	\$0	\$2,500,000
94000234	12/15/93	to 2000/01	Unlimited	1,200,000	0	1,200,000
97005031	05/19/04	2003/04	20,000,000	20,000,000	0	20,000,000

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)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (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%
<b>Total</b>	<b>58</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>58</b>	<b>17</b>	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (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%
<b>Total</b>	<b>\$28,200,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$28,200,000</b>	<b>\$28,200,000</b>	

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

Data was provided by the County.

CookCounty\_MM\_OakForest\_113020.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 2000/01							
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	26,459	0	11
2020/21	0	0	0	0	26,459	0	11

(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, 2020  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Limited Paid Losses 11/30/20 (8)	Limited Case Reserves 11/30/20 (9)	Limited Reported Incurred Losses 11/30/20 (10)
to 2000/01	See Note	See Note	240.0	Not Provided	59	0	\$13,365,000	\$0	\$13,365,000
2001/02	15,000,000	50,000,000	228.0	326	12	0	200,000	0	200,000
2002/03	20,000,000	80,000,000	216.0	334	14	0	1,025,000	0	1,025,000
2003/04	20,000,000	None	204.0	329	14	0	7,860,000	0	7,860,000
2004/05	20,000,000	None	192.0	330	13	0	90,000	0	90,000
2005/06	20,000,000	None	180.0	322	9	0	425,000	0	425,000
2006/07	20,000,000	None	168.0	309	3	0	0	0	0
2007/08	20,000,000	None	156.0	317	3	0	300,000	0	300,000
2008/09	20,000,000	None	144.0	410	3	0	300,000	0	300,000
2009/10	40,000,000	None	132.0	303	5	0	800,000	0	800,000
2010/11	40,000,000	None	120.0	303	1	0	0	0	0
2011/12	40,000,000	None	108.0	293	4	0	1,815,000	0	1,815,000
2012/13	30,000,000	None	96.0	202	4	1	1,175,000	1,500,000	2,675,000
2013/14	30,000,000	None	84.0	202	3	0	425,000	0	425,000
2014/15	25,000,000	None	72.0	176	1	0	0	0	0
2015/16	25,000,000	80,000,000	60.0	181	3	0	2,945,000	0	2,945,000
2016/17	25,000,000	80,000,000	48.0	185	4	3	0	4,050,000	4,050,000
2017/18	25,000,000	80,000,000	36.0	167	2	0	0	0	0
2018/19	25,000,000	80,000,000	24.0	172	4	0	0	0	0
2019/20	35,000,000	80,000,000	12.0	151	0	0	0	0	0
<b>Total</b>					<b>161</b>	<b>4</b>	<b>\$30,725,000</b>	<b>\$5,550,000</b>	<b>\$36,275,000</b>

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

Effective Date	Retention	Aggregate
12/01/70	Unlimited	None
12/01/00	10,000,000	25,000,000
12/01/01	15,000,000	see column (3)
12/01/02	20,000,000	see column (3)
03/01/10	40,000,000	see column (3)
03/01/13	30,000,000	see column (3)
07/01/15	25,000,000	see column (3)
07/01/20	35,000,000	see column (3)

(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 - PROVIDENT HOSPITAL

Data Summary as of November 30, 2020  
 Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Net Unlimited Paid Losses 11/30/20 (8)	Net Unlimited Case Reserves 11/30/20 (9)	Net Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	59	0	\$13,365,000	\$0	\$13,365,000
2001/02	Unlimited	50,000,000	228.0	326	12	0	200,000	0	200,000
2002/03	Unlimited	80,000,000	216.0	334	14	0	1,025,000	0	1,025,000
2003/04	Unlimited	None	204.0	329	14	0	7,860,000	0	7,860,000
2004/05	Unlimited	None	192.0	330	13	0	90,000	0	90,000
2005/06	Unlimited	None	180.0	322	9	0	425,000	0	425,000
2006/07	Unlimited	None	168.0	309	3	0	0	0	0
2007/08	Unlimited	None	156.0	317	3	0	300,000	0	300,000
2008/09	Unlimited	None	144.0	410	3	0	300,000	0	300,000
2009/10	Unlimited	None	132.0	303	5	0	800,000	0	800,000
2010/11	Unlimited	None	120.0	303	1	0	0	0	0
2011/12	Unlimited	None	108.0	293	4	0	1,815,000	0	1,815,000
2012/13	Unlimited	None	96.0	202	4	1	1,175,000	1,500,000	2,675,000
2013/14	Unlimited	None	84.0	202	3	0	425,000	0	425,000
2014/15	Unlimited	None	72.0	176	1	0	0	0	0
2015/16	Unlimited	80,000,000	60.0	181	3	0	2,945,000	0	2,945,000
2016/17	Unlimited	80,000,000	48.0	185	4	3	0	4,050,000	4,050,000
2017/18	Unlimited	80,000,000	36.0	167	2	0	0	0	0
2018/19	Unlimited	80,000,000	24.0	172	4	0	0	0	0
2019/20	Unlimited	80,000,000	12.0	151	0	0	0	0	0
<b>Total</b>					<b>161</b>	<b>4</b>	<b>\$30,725,000</b>	<b>\$5,550,000</b>	<b>\$36,275,000</b>

(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 - PROVIDENT HOSPITAL

Data Summary as of November 30, 2020  
 Gross Unlimited Losses

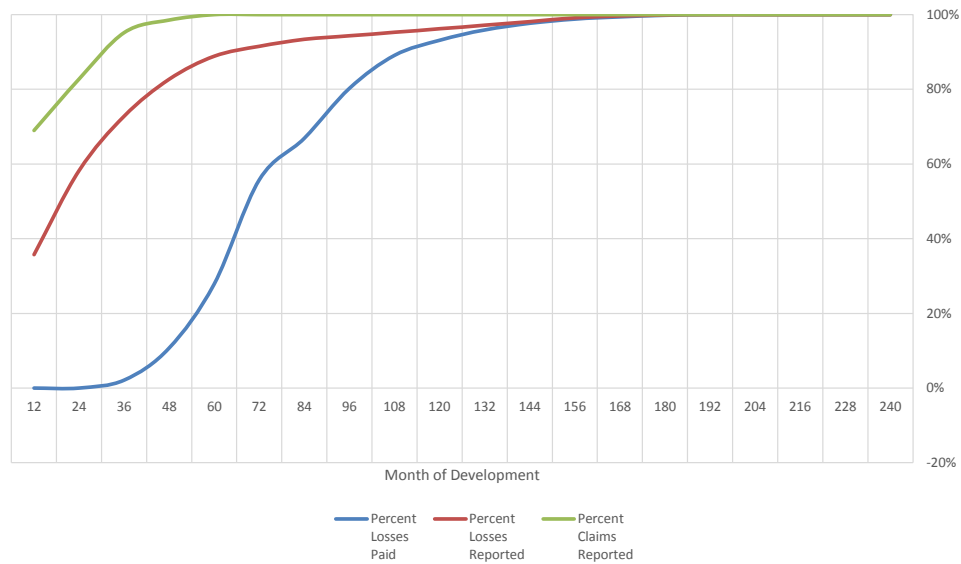
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Gross Unlimited Paid Losses 11/30/20 (8)	Gross Unlimited Case Reserves 11/30/20 (9)	Gross Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	59	0	\$13,365,000	\$0	\$13,365,000
2001/02	Unlimited	50,000,000	228.0	326	12	0	200,000	0	200,000
2002/03	Unlimited	80,000,000	216.0	334	14	0	1,025,000	0	1,025,000
2003/04	Unlimited	None	204.0	329	14	0	7,860,000	0	7,860,000
2004/05	Unlimited	None	192.0	330	13	0	90,000	0	90,000
2005/06	Unlimited	None	180.0	322	9	0	425,000	0	425,000
2006/07	Unlimited	None	168.0	309	3	0	0	0	0
2007/08	Unlimited	None	156.0	317	3	0	300,000	0	300,000
2008/09	Unlimited	None	144.0	410	3	0	300,000	0	300,000
2009/10	Unlimited	None	132.0	303	5	0	800,000	0	800,000
2010/11	Unlimited	None	120.0	303	1	0	0	0	0
2011/12	Unlimited	None	108.0	293	4	0	1,815,000	0	1,815,000
2012/13	Unlimited	None	96.0	202	4	1	1,175,000	1,500,000	2,675,000
2013/14	Unlimited	None	84.0	202	3	0	425,000	0	425,000
2014/15	Unlimited	None	72.0	176	1	0	0	0	0
2015/16	Unlimited	80,000,000	60.0	181	3	0	2,945,000	0	2,945,000
2016/17	Unlimited	80,000,000	48.0	185	4	3	0	4,050,000	4,050,000
2017/18	Unlimited	80,000,000	36.0	167	2	0	0	0	0
2018/19	Unlimited	80,000,000	24.0	172	4	0	0	0	0
2019/20	Unlimited	80,000,000	12.0	151	0	0	0	0	0
<b>Total</b>					<b>161</b>	<b>4</b>	<b>\$30,725,000</b>	<b>\$5,550,000</b>	<b>\$36,275,000</b>

(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	99.8%	99.9%	100.0%
168.0	99.4%	99.6%	100.0%
156.0	98.8%	99.1%	100.0%
144.0	97.6%	98.1%	100.0%
132.0	95.9%	97.2%	100.0%
120.0	93.1%	96.2%	100.0%
108.0	89.1%	95.2%	100.0%
96.0	80.3%	94.3%	100.0%
84.0	66.9%	93.4%	100.0%
72.0	55.7%	91.5%	100.0%
60.0	27.9%	88.9%	100.0%
48.0	10.7%	82.7%	98.5%
36.0	2.1%	72.8%	95.2%
24.0	0.0%	58.3%	82.8%
12.0	0.0%	35.7%	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).

COOK COUNTY, ILLINOIS  
MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

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 2000/01																				\$285,259	\$285,259	\$285,259
2001/02	0	0	30	9,351	12,349	16,054	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	24,848	24,848	24,848	24,848	24,848	24,848	
2002/03	10	12	1,260	1,263	3,248	4,488	4,888	4,986	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,313	5,313	5,313	5,313	5,313	5,313	
2003/04	0	0	0	8,781	16,656	18,246	19,496	19,646	19,646	19,646	19,646	19,646	19,646	19,196	19,196	19,196	19,196	19,196	19,196	19,196	19,196	
2004/05	0	90	107	5,775	16,665	18,715	18,715	18,715	18,715	19,715	19,715	19,715	19,715	19,698	19,698	19,698	19,698	19,698	19,698	19,698	33,698	
2005/06	0	1	516	528	6,778	9,228	9,908	11,533	11,603	23,603	24,028	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,750	
2006/07	0	16	16	26	2,016	2,016	4,766	4,766	4,766	4,766	4,753	4,753	4,753	4,753	4,753	4,753	4,753	4,753	4,753	4,753	4,753	
2007/08	0	127	127	3,677	6,027	8,427	8,427	8,427	8,427	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	
2008/09	0	0	2,445	3,155	3,155	4,405	5,155	8,155	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	
2009/10	0	0	0	2,318	7,653	10,438	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	
2010/11	0	0	0	2,850	4,878	5,168	5,468	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	
2011/12	0	20,100	20,825	24,390	26,195	34,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	
2012/13	0	850	850	2,330	5,590	20,255	35,565	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	
2013/14	0	0	0	825	1,675	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	
2014/15	0	25	30	58	3,966	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	9,931	
2015/16	90	2,590	4,540	4,835	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	5,075	
2016/17	0	0	900	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	
2017/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2018/19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2019/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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 2000/01																				1.000	1.000
2001/02			311.700	1.321	1.300	1.561	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.992	1.000	1.000	1.000	1.000	1.000	1.000
2002/03	1.150	109.565	1.002	2.572	1.382	1.089	1.020	1.066	1.000	1.000	1.000	1.000	1.000	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000
2003/04				1.897	1.095	1.069	1.008	1.000	1.000	1.000	1.000	1.000	0.977	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2004/05		1.189	53.971	2.886	1.123	1.000	1.000	1.000	1.000	1.053	1.000	1.000	0.999	1.000	1.000	1.711	1.000	1.000	1.000	1.000	1.000
2005/06		1032.000	1.023	12.837	1.361	1.074	1.164	1.006	2.034	1.018	0.999	1.000	1.000	1.031	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2006/07		1.000	1.621	77.245	1.000	2.364	1.000	1.000	1.000	0.997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2007/08		1.000	28.953	1.639	1.398	1.000	1.000	1.000	0.985	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008/09			1.290	1.000	1.396	1.170	1.582	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009/10				3.302	1.364	1.073	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2010/11				1.712	1.059	1.058	1.960	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2011/12		1.036	1.171	1.074	1.309	1.087	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2012/13		1.000	2.741	2.399	3.623	1.756	1.724	1.724	1.724	1.724	1.724	1.724	1.724	1.724	1.724	1.724	1.724	1.724	1.724	1.724	1.724
2013/14				2.030	1.224	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2014/15		1.200	1.933	68.379	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504	2.504
2015/16	28.778	1.753	1.065	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050
2016/17			2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667
2017/18																					
2018/19																					
2019/20																					
Average																					
All	14.964	127.749	34.095	12.090	1.510	1.254	1.205	1.007	1.107	1.002	1.000	1.000	0.996	1.006	1.176	1.000	1.000	1.000	1.000	1.000	1.000
Wtd 3		2.100	1.333	1.874	2.870	1.324	1.396	1.000	1.000	1.000	1.000	1.000	1.000	1.012	1.317	1.000	1.000	1.000	1.000	1.000	1.000
Last 3			1.888	23.820	2.450	1.281	1.561	1.000	1.000	1.000	1.000	1.000	1.000	1.010	1.237	1.000	1.000	1.000	1.000	1.000	1.000
Last 5				1.834	1.679	1.073	1.435	1.000	1.000	1.000	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																					
Previous	2.000	120.000	5.000	2.600	2.000	1.200	1.180	1.120	1.050	1.040	1.020	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Selected	2.000	120.000	5.000	2.600	2.000	1.200	1.200	1.110	1.045	1.030	1.018	1.012	1.006	1.004	1.002	1.000	1.000	1.000	1.000	1.000	1.000
Cumulative	#####	5596.562	46.638	9.328	3.588	1.794	1.495	1.246	1.122	1.074	1.043	1.024	1.012	1.006	1.002	1.000	1.000	1.000	1.000	1.000	1.000
Percent	0.0%	0.0%	2.1%	10.7%	27.9%	55.7%	66.9%	80.3%	89.1%	93.1%	95.9%	97.6%	98.8%	99.4%	99.8%	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 and is for Cermak, Stroger and Provident combined.

COOK COUNTY, ILLINOIS  
MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

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 2000/01																			\$285,259	\$285,259	\$285,259
2001/02	33,740	25,655	29,808	24,761	25,134	31,305	25,861	26,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	24,848	24,848	24,848	24,848	24,848	
2002/03	26,711	16,022	31,503	8,413	8,248	6,788	5,688	5,336	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,313	5,313	5,313	5,313	5,313	
2003/04	28,331	39,505	26,840	38,771	29,756	28,646	20,246	20,146	19,646	19,646	19,646	19,646	19,646	19,196	19,196	19,196	19,196	19,196	19,196	19,196	
2004/05	9,450	27,041	20,842	24,110	21,345	19,465	18,715	19,715	19,715	19,715	19,715	19,715	19,715	29,698	39,698	33,698	33,698	33,698	33,698	33,698	
2005/06	14,276	35,957	22,631	24,828	17,228	16,758	13,858	15,603	25,603	25,603	24,028	24,250	25,000	24,750	24,750						
2006/07	11,046	13,126	8,721	5,787	4,726	5,646	4,766	4,766	4,766	4,766	4,853	4,853	4,853	4,853							
2007/08	24,827	12,544	17,152	18,477	12,927	12,227	10,927	8,427	8,427	8,302	8,302	8,302	8,302								
2008/09	5,235	6,890	9,775	10,255	9,555	10,005	8,255	8,405	8,205	8,205	8,205	8,705									
2009/10	5,095	8,253	15,550	16,368	13,503	12,388	11,203	11,203	11,203	11,203	11,203										
2010/11	770	3,900	8,530	11,105	11,183	10,673	9,968	10,718	10,718	10,818											
2011/12	23,923	34,253	39,927	39,455	39,455	39,045	37,644	38,344	38,044	43,644											
2012/13	6,925	12,000	29,150	39,255	61,465	66,155	70,215	63,015													
2013/14	1,560	7,155	6,400	5,575	3,125	2,700															
2014/15	7,000	8,225	8,630	16,108	38,101	29,431															
2015/16	5,190	8,620	11,315	12,990	13,930																
2016/17	450	2,376	9,851	28,000																	
2017/18	1,450	3,955	16,980																		
2018/19	50	5,155																			
2019/20	0																				

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 2000/01																			1.000	1.000
2001/02	0.760	1.162	0.831	1.015	1.246	0.826	1.008	0.962	1.000	1.000	1.000	1.000	1.000	1.000	0.992	1.000	1.000	1.000	1.000	
2002/03	0.600	0.360	1.458	0.980	0.823	0.838	0.938	0.996	1.000	1.000	1.000	1.000	1.000	0.999	1.000	1.000	1.000	1.000	1.000	
2003/04	1.394	0.679	1.445	0.767	0.963	0.707	0.995	0.975	1.000	1.000	1.000	1.000	0.977	1.000	1.000	1.000				
2004/05	2.861	0.771	1.157	0.885	0.912	0.961	1.053	1.000	1.000	1.000	1.000	1.506	1.337	0.849	1.000					
2005/06	2.519	0.629	1.097	0.694	0.973	0.827	1.126	1.641	1.000	0.938	1.009	1.031	0.990	1.000						
2006/07	1.188	0.664	0.664	0.817	1.195	0.973	0.867	1.000	1.000	1.018	1.000	1.000	1.000							
2007/08	0.505	1.367	1.077	0.700	0.946	0.894	0.771	1.000	0.985	1.000	1.000	1.000								
2008/09	1.316	1.419	1.049	0.932	1.047	0.825	1.018	0.976	1.000	1.000	1.061									
2009/10	1.620	1.884	1.053	0.825	0.917	0.904	1.000	1.000	1.000	1.000										
2010/11	5.065	2.187	1.302	1.007	0.954	0.934	1.075	1.000	1.009											
2011/12	1.432	1.166	0.988	0.990	0.964	1.019	0.992	1.147												
2012/13	1.733	2.429	1.347	1.566	1.076	1.061	0.897													
2013/14	4.587	0.894	0.871	0.561	0.864	1.000														
2014/15	1.175	1.049	1.867	2.365	0.772															
2015/16	1.661	1.313	1.148	1.072																
2016/17	5.279	4.147	2.842																	
2017/18	2.728	4.293																		
2018/19	103.100																			
2019/20																				
Average																				
All	7.751	1.554	1.262	1.012	0.975	0.905	0.978	1.063	0.999	0.995	1.009	1.077	1.051	0.970	0.998	1.000	1.000	1.000	1.000	
Wtd 3	5.890	2.551	1.916	1.591	0.957	1.045	0.943	1.093	1.003	1.000	1.023	1.020	1.164	0.928	1.000	1.000				
Last 3	37.035	3.251	1.952	1.333	0.904	1.027	0.988	1.049	1.003	1.000	1.020	1.010	1.109	0.950	1.000	1.000				
Last 5	3.222	2.170	1.454	1.209	0.928	0.984	1.003	1.000	1.000	1.000	1.003	1.010	0.997	1.000						
x-hi,low																				
Previous	1.600	1.225	1.125	1.075	1.050	1.020	1.020	1.020	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Selected	1.630	1.250	1.135	1.075	1.030	1.020	1.010	1.010	1.010	1.010	1.010	1.010	1.005	1.003	1.001	1.000	1.000	1.000	1.000	
Cumulative	2.797	1.716	1.373	1.210	1.125	1.093	1.071	1.060	1.050	1.040	1.029	1.019	1.009	1.004	1.001	1.000	1.000	1.000	1.000	
Percent	35.7%	58.3%	72.8%	82.7%	88.9%	91.5%	93.4%	94.3%	95.2%	96.2%	97.2%	98.1%	99.1%	99.6%	99.9%	100.0%	100.0%	100.0%	100.0%	

Amounts are limited (net of excess insurance).

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

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 2000/01																				520	520
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	51	
2008/09									46	46	46	46	46	47	47	47	47	47	47	47	
2009/10									51	51	51	51	51	51	51	51	51	51	51	51	
2010/11									59	59	59	59	59	59	59	59	59	59	59	59	
2011/12						56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	
2012/13				64	64	65	65	65	65	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	42	42	42	42	42	42	
2014/15		33	43	45	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	
2015/16	35	46	53	56	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	
2016/17	12	19	25	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	
2017/18	28	34	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
2018/19	29	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	
2019/20	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	

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 2000/01																				1.000
2001/02															1.000	1.000	1.000	1.000	1.000	
2002/03														1.000	1.000	1.000	1.000	1.000	1.000	
2003/04													1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2004/05												1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2005/06												1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2006/07										1.014	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2007/08									1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2008/09								1.000	1.000	1.000	1.000	1.022	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2009/10							1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2010/11						1.000	1.000	1.017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2011/12					1.000	1.018	1.000	1.035	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2012/13				1.016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2013/14			1.024	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2014/15		1.303	1.047	1.044	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2015/16	1.314	1.152	1.057	1.018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2016/17	1.583	1.316	1.040	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2017/18	1.214	1.147	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2018/19	1.310	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2019/20	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Average																				
All	1.356	1.230	1.042	1.019	1.000	1.004	1.004	1.009	1.000	1.003	1.008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Wtd 3	1.319	1.182	1.050	1.021	1.000	1.006	1.006	1.012	1.000	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 3	1.369	1.205	1.048	1.021	1.000	1.006	1.006	1.012	1.000	1.000	1.007	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	1.150	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
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.

COOK COUNTY, ILLINOIS  
MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

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 2000/01																				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%	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%	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%	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%	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%	100.0%							
2006/07	0.0%	0.1%	0.2%	0.5%	42.7%	35.7%	86.7%	100.0%	100.0%	100.0%	97.9%	97.9%	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%	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%	94.3%										
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	100.0%	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%	100.0%	99.1%												
2011/12	0.0%	58.7%	52.2%	61.8%	67.1%	91.1%	97.3%	98.0%	85.5%													
2012/13	0.0%	7.1%	2.9%	5.9%	9.1%	30.6%	50.7%	97.3%														
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%	33.7%																
2015/16	1.7%	30.0%	40.1%	37.2%	36.4%																	
2016/17	0.0%	0.0%	9.1%	8.6%																		
2017/18	0.0%	0.0%	0.0%																			
2018/19	0.0%	0.0%																				
2019/20																						
<b>Average</b>																						
All	0.1%	5.4%	9.1%	20.1%	44.1%	60.4%	81.2%	95.7%	93.2%	99.1%	99.8%	98.9%	94.3%	90.8%	91.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 3			16.4%	15.4%	33.5%	46.8%	74.6%	98.4%	95.2%	99.7%	100.0%	97.4%	98.0%	81.5%	86.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 5	0.0%	0.1%	3.2%	9.8%	33.5%	52.7%	76.0%	98.4%	100.0%	100.0%	100.0%	99.0%	98.0%	98.3%	100.0%							
x-hi,low																						
Implicit	0.0%	0.0%	2.9%	13.0%	31.4%	60.9%	71.7%	85.1%	93.6%	96.8%	98.7%	99.5%	99.7%	99.8%	99.9%	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%	100.0%

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/20 (2)	Limited Paid Losses 11/30/20 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 2000/01	240.0	\$13,365,000	100.0%	\$13,365,000
2001/02	228.0	200,000	100.0%	200,000
2002/03	216.0	1,025,000	100.0%	1,025,000
2003/04	204.0	7,860,000	100.0%	7,860,000
2004/05	192.0	90,000	100.0%	90,000
2005/06	180.0	425,000	99.8%	425,850
2006/07	168.0	0	99.4%	0
2007/08	156.0	300,000	98.8%	303,613
2008/09	144.0	300,000	97.6%	307,257
2009/10	132.0	800,000	95.9%	834,099
2010/11	120.0	0	93.1%	0
2011/12	108.0	1,815,000	89.1%	2,036,844
2012/13	96.0	1,175,000	80.3%	1,463,666
2013/14	84.0	425,000	66.9%	635,293
2014/15	72.0	0	55.7%	0
2015/16	60.0	2,945,000	27.9%	10,565,304
2016/17	48.0	0	10.7%	0
2017/18	36.0	0	2.1%	0
2018/19	24.0	0	0.0%	0
2019/20	12.0	0	0.0%	0
<b>Total</b>		<b>\$30,725,000</b>		<b>\$39,111,927</b>

(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 11/30/20 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 2000/01	240.0	\$13,365,000	100.0%	\$13,365,000
2001/02	228.0	200,000	100.0%	200,000
2002/03	216.0	1,025,000	100.0%	1,025,000
2003/04	204.0	7,860,000	100.0%	7,860,000
2004/05	192.0	90,000	100.0%	90,000
2005/06	180.0	425,000	99.9%	425,425
2006/07	168.0	0	99.6%	0
2007/08	156.0	300,000	99.1%	302,707
2008/09	144.0	300,000	98.1%	305,734
2009/10	132.0	800,000	97.2%	823,444
2010/11	120.0	0	96.2%	0
2011/12	108.0	1,815,000	95.2%	1,905,738
2012/13	96.0	2,675,000	94.3%	2,836,820
2013/14	84.0	425,000	93.4%	455,217
2014/15	72.0	0	91.5%	0
2015/16	60.0	2,945,000	88.9%	3,313,996
2016/17	48.0	4,050,000	82.7%	4,899,257
2017/18	36.0	0	72.8%	0
2018/19	24.0	0	58.3%	0
2019/20	12.0	0	35.7%	0
<b>Total</b>		<b>\$36,275,000</b>		<b>\$37,808,337</b>

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

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

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/20 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/20 (6)	Limited Case Reserves 11/30/20 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 2000/01	240.0	100.0%	100.0%	100.0%	\$13,365,000	\$0	\$13,365,000
2001/02	228.0	100.0%	100.0%	100.0%	200,000	0	200,000
2002/03	216.0	100.0%	100.0%	100.0%	1,025,000	0	1,025,000
2003/04	204.0	100.0%	100.0%	100.0%	7,860,000	0	7,860,000
2004/05	192.0	100.0%	100.0%	100.0%	90,000	0	90,000
2005/06	180.0	99.8%	99.9%	50.0%	425,000	0	425,000
2006/07	168.0	99.4%	99.6%	33.2%	0	0	0
2007/08	156.0	98.8%	99.1%	24.9%	300,000	0	300,000
2008/09	144.0	97.6%	98.1%	20.6%	300,000	0	300,000
2009/10	132.0	95.9%	97.2%	30.4%	800,000	0	800,000
2010/11	120.0	93.1%	96.2%	44.7%	0	0	0
2011/12	108.0	89.1%	95.2%	56.3%	1,815,000	0	1,815,000
2012/13	96.0	80.3%	94.3%	71.1%	1,175,000	1,500,000	3,285,392
2013/14	84.0	66.9%	93.4%	79.9%	425,000	0	425,000
2014/15	72.0	55.7%	91.5%	80.9%	0	0	0
2015/16	60.0	27.9%	88.9%	84.6%	2,945,000	0	2,945,000
2016/17	48.0	10.7%	82.7%	80.6%	0	4,050,000	5,025,809
2017/18	36.0	2.1%	72.8%	72.2%	0	0	0
2018/19	24.0	0.0%	58.3%	58.3%	0	0	0
2019/20	12.0	0.0%	35.7%	35.7%	0	0	0
<b>Total</b>					<b>\$30,725,000</b>	<b>\$5,550,000</b>	<b>\$37,861,201</b>

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

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



COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Exhibit MM-Provident-6

Preliminary Projected Ultimate Limited Losses to 2019/20

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 2000/01	\$13,365,000	\$13,365,000	\$13,365,000	\$13,365,000
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	425,850	425,425	425,000	425,000
2006/07	0	0	0	0
2007/08	303,613	302,707	300,000	300,000
2008/09	307,257	305,734	300,000	300,000
2009/10	834,099	823,444	800,000	800,000
2010/11	0	0	0	0
2011/12	2,036,844	1,905,738	1,815,000	1,815,000
2012/13	1,463,666	2,836,820	3,285,392	3,240,535
2013/14	635,293	455,217	425,000	425,000
2014/15	0	0	0	0
2015/16	10,565,304	3,313,996	2,945,000	2,945,000
2016/17	0	4,899,257	5,025,809	4,472,607
2017/18	0	0	0	0
2018/19	0	0	0	0
2019/20	0	0	0	0
<b>Total</b>	<b>\$39,111,927</b>	<b>\$37,808,337</b>	<b>\$37,861,201</b>	<b>\$37,263,142</b>

(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 (2020/21 = 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)
2010/11	\$0	303	\$0.00	1.473	\$0.00	\$5,620.29
2011/12	1,815,000	293	6,204.30	1.416	8,787.57	5,845.10
2012/13	3,240,535	202	16,009.82	1.377	22,047.63	6,011.64
2013/14	425,000	202	2,099.71	1.329	2,790.43	6,229.54
2014/15	0	176	0.00	1.283	0.00	6,451.68
2015/16	2,945,000	181	16,307.37	1.241	20,237.22	6,671.16
2016/17	4,472,607	185	24,240.70	1.193	28,925.35	6,938.01
2017/18	0	167	0.00	1.147	0.00	7,215.53
2018/19	0	172	0.00	1.103	0.00	7,504.15
2019/20	0	151	0.00	1.052	0.00	7,868.82

(7) Projected 2020/21 a-priori loss rate per Occupied Bed Equivalent \$8,278.82

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/20 (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)
2015/16	\$2,945,000	27.9%	\$6,671.16	181	\$868,947	\$3,813,947
2016/17	0	10.7%	6,938.01	185	1,142,880	1,142,880
2017/18	0	2.1%	7,215.53	167	1,180,393	1,180,393
2018/19	0	0.0%	7,504.15	172	1,290,965	1,290,965
2019/20	0	0.0%	7,868.82	151	1,188,692	1,188,692

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/20 (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)
2015/16	\$2,945,000	88.9%	\$6,671.16	181	\$134,145	\$3,079,145
2016/17	4,050,000	82.7%	6,938.01	185	221,901	4,271,901
2017/18	0	72.8%	7,215.53	167	327,702	327,702
2018/19	0	58.3%	7,504.15	172	538,861	538,861
2019/20	0	35.7%	7,868.82	151	763,847	763,847

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 11/30/20 (2)	Reported Claims 11/30/20 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2010/11	120.0	1	100.0%	1	303	0.00
2011/12	108.0	4	100.0%	4	293	0.01
2012/13	96.0	4	100.0%	4	202	0.02
2013/14	84.0	3	100.0%	3	202	0.01
2014/15	72.0	1	100.0%	1	176	0.01
2015/16	60.0	3	100.0%	3	181	0.02
2016/17	48.0	4	98.5%	4	185	0.02
2017/18	36.0	2	95.2%	2	167	0.01
2018/19	24.0	4	82.8%	5	172	0.03
2019/20	12.0	0	69.0%	0	151	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 (2020/21 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2020/21 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2010/11	\$0	1	\$0	1.473	\$0	\$305,432	\$305,432
2011/12	1,815,000	4	453,750	1.416	642,677	317,649	1,270,597
2012/13	3,240,535	4	810,134	1.377	1,115,661	326,700	1,306,798
2013/14	425,000	3	141,667	1.329	188,269	338,541	1,015,624
2014/15	0	1	0	1.283	0	350,613	350,613
2015/16	2,945,000	3	981,667	1.241	1,218,235	362,541	1,087,623
2016/17	4,472,607	4	1,118,152	1.193	1,334,241	377,043	1,508,171
2017/18	0	2	0	1.147	0	392,124	784,249
2018/19	0	5	0	1.103	0	407,809	2,039,047
2019/20	0	0	0	1.052	0	427,627	0

(7) Projected 2020/21 average claim severity

\$449,908

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 2019/20

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 2000/01	\$13,365,000	\$13,365,000	\$13,365,000				\$13,365,000	\$13,365,000
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	425,850	425,425	425,000				425,000	425,000
2006/07	0	0	0					0
2007/08	303,613	302,707	300,000				300,000	300,000
2008/09	307,257	305,734	300,000				300,000	300,000
2009/10	834,099	823,444	800,000				800,000	800,000
2010/11	0	0	0					0
2011/12	2,036,844	1,905,738	1,815,000				1,815,000	1,815,000
2012/13	1,463,666	2,836,820	3,285,392				2,900,000	3,241,000
2013/14	635,293	455,217	425,000				425,000	425,000
2014/15	0	0	0				275,000	0
2015/16	10,565,304	3,313,996	2,945,000	3,813,947	3,079,145	1,087,623	4,000,000	2,945,000
2016/17	0	4,899,257	5,025,809	1,142,880	4,271,901	1,508,171	4,500,000	4,473,000
2017/18	0	0	0	1,180,393	327,702	784,249	1,000,000	1,000,000
2018/19	0	0	0	1,290,965	538,861	2,039,047	1,000,000	1,000,000
2019/20	0	0	0	1,188,692	763,847		1,723,000	1,000,000
<b>Total</b>	<b>\$39,111,927</b>	<b>\$37,808,337</b>	<b>\$37,861,201</b>				<b>\$42,003,000</b>	<b>\$40,264,000</b>
2015/16 - 2019/20	10,565,304	8,213,253	7,970,809	8,616,878	8,981,456	5,419,089	12,223,000	10,418,000
to 2014/15	28,546,623	29,595,084	29,890,392				29,780,000	29,846,000
						<b>Change</b>		
						All years 2015/16 - 2019/20 to 2014/15		-\$1,739,000 -1,805,000 66,000

(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 2020/21 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 (2020/21 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2010/11	\$0	303	\$0.00	1.473	\$0.00
2011/12	1,815,000	293	6,204.30	1.416	8,787.57
2012/13	3,241,000	202	16,012.12	1.377	22,050.80
2013/14	425,000	202	2,099.71	1.329	2,790.43
2014/15	0	176	0.00	1.283	0.00
2015/16	2,945,000	181	16,307.37	1.241	20,237.22
2016/17	4,473,000	185	24,242.82	1.193	28,927.89
2017/18	1,000,000	167	5,981.75	1.147	6,863.23
2018/19	1,000,000	172	5,811.78	1.103	6,411.75
2019/20	1,000,000	151	6,619.13	1.052	6,964.02
<b>Total</b>	<b>\$15,899,000</b>	<b>2,031</b>	<b>\$7,828.43</b>		<b>\$10,303.29</b>

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)
2020/21	\$10,309.05	151	\$1,557,000	0.99	\$10,186.10	\$1,539,000
2021/22	10,721.41	151	1,620,000	0.99	10,593.54	1,600,000
2022/23	11,150.26	151	1,685,000	0.99	11,017.29	1,664,000

(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) 2020/21 is based on an average of the limited paid and limited reported incurred B-F and development methods using 12 months of experience. Other period(s) based on 2020/21 plus a 4% trend.

(8) to 2020/21 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 0.19% 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, 2020

Claim Period (1)	Limited Paid Losses 11/30/20 (2)	Limited Case Reserves 11/30/20 (3)	Limited Reported Incurred Losses 11/30/20 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/20 (5)-(4) (6)	Estimated Outstanding Losses 11/30/20 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/20 (7)X(8) (9)
to 2000/01	\$13,365,000	\$0	\$13,365,000	\$13,365,000	\$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	1.00	0
2009/10	800,000	0	800,000	800,000	0	0	1.00	0
2010/11	0	0	0	0	0	0	1.00	0
2011/12	1,815,000	0	1,815,000	1,815,000	0	0	1.00	0
2012/13	1,175,000	1,500,000	2,675,000	3,241,000	566,000	2,066,000	1.00	2,058,850
2013/14	425,000	0	425,000	425,000	0	0	1.00	0
2014/15	0	0	0	0	0	0	1.00	0
2015/16	2,945,000	0	2,945,000	2,945,000	0	0	1.00	0
2016/17	0	4,050,000	4,050,000	4,473,000	423,000	4,473,000	0.99	4,450,263
2017/18	0	0	0	1,000,000	1,000,000	1,000,000	0.99	993,558
2018/19	0	0	0	1,000,000	1,000,000	1,000,000	0.99	991,830
2019/20	0	0	0	1,000,000	1,000,000	1,000,000	0.99	989,950
<b>Total</b>	<b>\$30,725,000</b>	<b>\$5,550,000</b>	<b>\$36,275,000</b>	<b>\$40,264,000</b>	<b>\$3,989,000</b>	<b>\$9,539,000</b>		<b>\$9,484,451</b>

(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 0.19% interest rate and the payout pattern in Exhibit MM-Provident-2.





COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Exhibit MM-Provident-12

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 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	99.8%	192.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	168.0	99.4%	180.0	99.8%	66.6%	0	0	0	1.00	0
2007/08	156.0	98.8%	168.0	99.4%	49.8%	0	0	0	1.00	0
2008/09	144.0	97.6%	156.0	98.8%	49.6%	0	0	0	1.00	0
2009/10	132.0	95.9%	144.0	97.6%	42.2%	0	0	0	1.00	0
2010/11	120.0	93.1%	132.0	95.9%	40.6%	0	0	0	1.00	0
2011/12	108.0	89.1%	120.0	93.1%	36.8%	0	0	0	1.00	0
2012/13	96.0	80.3%	108.0	89.1%	44.8%	2,066,000	925,049	1,140,951	1.00	1,136,834
2013/14	84.0	66.9%	96.0	80.3%	40.4%	0	0	0	1.00	0
2014/15	72.0	55.7%	84.0	66.9%	25.2%	0	0	0	1.00	0
2015/16	60.0	27.9%	72.0	55.7%	38.6%	0	0	0	1.00	0
2016/17	48.0	10.7%	60.0	27.9%	19.2%	4,473,000	859,407	3,613,593	1.00	3,598,495
2017/18	36.0	2.1%	48.0	10.7%	8.8%	1,000,000	87,646	912,354	0.99	907,716
2018/19	24.0	0.0%	36.0	2.1%	2.1%	1,000,000	21,267	978,733	0.99	972,428
2019/20	12.0	0.0%	24.0	0.0%	0.0%	1,000,000	89	999,911	0.99	991,742
2020/21	0.0	0.0%	12.0	0.0%	0.0%	1,557,000	139	1,556,861	0.99	1,541,215
Total						\$11,096,000	\$1,893,597	\$9,202,403		\$9,148,430

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

(7) to 2019/20 is from Exhibit MM-Provident-11. The amount for 2020/21 is from Exhibit MM-Provident-10.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit MM-Provident-2.



COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Exhibit MM-Provident-13

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 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	99.8%	192.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	168.0	99.4%	180.0	99.8%	66.6%	0	0	0	1.00	0
2008/09	156.0	98.8%	168.0	99.4%	49.8%	0	0	0	1.00	0
2009/10	144.0	97.6%	156.0	98.8%	49.6%	0	0	0	1.00	0
2010/11	132.0	95.9%	144.0	97.6%	42.2%	0	0	0	1.00	0
2011/12	120.0	93.1%	132.0	95.9%	40.6%	0	0	0	1.00	0
2012/13	108.0	89.1%	120.0	93.1%	36.8%	1,140,951	420,056	720,895	1.00	718,539
2013/14	96.0	80.3%	108.0	89.1%	44.8%	0	0	0	1.00	0
2014/15	84.0	66.9%	96.0	80.3%	40.4%	0	0	0	1.00	0
2015/16	72.0	55.7%	84.0	66.9%	25.2%	0	0	0	1.00	0
2016/17	60.0	27.9%	72.0	55.7%	38.6%	3,613,593	1,396,536	2,217,057	1.00	2,207,470
2017/18	48.0	10.7%	60.0	27.9%	19.2%	912,354	175,293	737,061	1.00	733,982
2018/19	36.0	2.1%	48.0	10.7%	8.8%	978,733	85,782	892,951	0.99	888,412
2019/20	24.0	0.0%	36.0	2.1%	2.1%	999,911	21,265	978,646	0.99	972,341
2020/21	12.0	0.0%	24.0	0.0%	0.0%	1,556,861	139	1,556,722	0.99	1,544,004
2021/22	0.0	0.0%	12.0	0.0%	0.0%	1,620,000	145	1,619,855	0.99	1,603,576
<b>Total</b>						<b>\$10,822,403</b>	<b>\$2,099,216</b>	<b>\$8,723,187</b>		<b>\$8,668,324</b>

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

(7) to 2020/21 is from Exhibit MM-Provident-12, (9). The amount for 2021/22 is from Exhibit MM-Provident-10.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit MM-Provident-2.



COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Exhibit MM-Provident-14

Projected Losses Paid December 1, 2022 to November 30, 2023

Claim Period (1)	Months of Development 11/30/22 (2)	Percent Losses Paid (3)	Months of Development 11/30/23 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/22 to 11/30/23 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/22 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/23 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/23 (9)X(10) (11)
to 2000/01	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2001/02	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	180.0	99.8%	192.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	168.0	99.4%	180.0	99.8%	66.6%	0	0	0	1.00	0
2009/10	156.0	98.8%	168.0	99.4%	49.8%	0	0	0	1.00	0
2010/11	144.0	97.6%	156.0	98.8%	49.6%	0	0	0	1.00	0
2011/12	132.0	95.9%	144.0	97.6%	42.2%	0	0	0	1.00	0
2012/13	120.0	93.1%	132.0	95.9%	40.6%	720,895	292,640	428,255	1.00	426,987
2013/14	108.0	89.1%	120.0	93.1%	36.8%	0	0	0	1.00	0
2014/15	96.0	80.3%	108.0	89.1%	44.8%	0	0	0	1.00	0
2015/16	84.0	66.9%	96.0	80.3%	40.4%	0	0	0	1.00	0
2016/17	72.0	55.7%	84.0	66.9%	25.2%	2,217,057	558,615	1,658,442	1.00	1,652,519
2017/18	60.0	27.9%	72.0	55.7%	38.6%	737,061	284,850	452,211	1.00	450,256
2018/19	48.0	10.7%	60.0	27.9%	19.2%	892,951	171,565	721,386	1.00	718,372
2019/20	36.0	2.1%	48.0	10.7%	8.8%	978,646	85,775	892,871	0.99	888,332
2020/21	24.0	0.0%	36.0	2.1%	2.1%	1,556,722	33,107	1,523,615	0.99	1,513,800
2021/22	12.0	0.0%	24.0	0.0%	0.0%	1,619,855	145	1,619,710	0.99	1,606,478
2022/23	0.0	0.0%	12.0	0.0%	0.0%	1,685,000	151	1,684,849	0.99	1,667,917
<b>Total</b>						<b>\$10,408,187</b>	<b>\$1,426,848</b>	<b>\$8,981,339</b>		<b>\$8,924,661</b>

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

(7) to 2021/22 is from Exhibit MM-Provident-13, (9). The amount for 2022/23 is from Exhibit MM-Provident-10.

(10) is based on a 0.19% 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 11/30/20 (5)	Unlimited Case Reserves 11/30/20 (6)	Unlimited Reported Incurred Losses 11/30/20 (7)
97002199	06/02/97	to 2000/01	Unlimited	\$2,500,000	\$0	\$2,500,000
97002440	04/17/99	to 2000/01	Unlimited	1,250,000	0	1,250,000
97003552	08/08/00	to 2000/01	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)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	101	0	1	2	4	0	108		
0.01 - 5,000	2	0	0	0	0	0	2	2	3.8%
5,000 - 10,000	1	0	0	0	0	0	1	3	5.7%
10,000 - 25,000	3	0	2	0	0	0	5	8	15.1%
25,000 - 50,000	3	0	0	0	0	0	3	11	20.8%
50,000 - 100,000	5	0	0	0	0	0	5	16	30.2%
100,000 - 250,000	5	1	0	0	0	0	6	22	41.5%
250,000 - 500,000	10	1	0	0	0	0	11	33	62.3%
500,000 - 750,000	2	0	0	0	0	0	2	35	66.0%
750,000 - 1,000,000	8	0	0	0	0	0	8	43	81.1%
Over 1,000,000	8	1	1	0	0	0	10	53	100.0%
<b>Total</b>	<b>148</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>4</b>	<b>0</b>	<b>161</b>	<b>53</b>	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (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	50,000	0	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	0	0	395,000	665,000	1.8%
100,000 - 250,000	880,000	155,000	0	0	0	0	1,035,000	1,700,000	4.7%
250,000 - 500,000	3,640,000	290,000	0	0	0	0	3,930,000	5,630,000	15.5%
500,000 - 750,000	1,450,000	0	0	0	0	0	1,450,000	7,080,000	19.5%
750,000 - 1,000,000	7,645,000	0	0	0	0	0	7,645,000	14,725,000	40.6%
Over 1,000,000	15,050,000	2,500,000	4,000,000	0	0	0	21,550,000	36,275,000	100.0%
<b>Total</b>	<b>\$29,280,000</b>	<b>\$2,945,000</b>	<b>\$4,050,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$36,275,000</b>	<b>\$36,275,000</b>	

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 2000/01							
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	20,802	49,663	1,505	605	34	151
2020/21	25	20,802	49,663	1,505	605	34	151

(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, 2020  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Limited Paid Losses 11/30/20 (8)	Limited Case Reserves 11/30/20 (9)	Limited Reported Incurred Losses 11/30/20 (10)
to 2000/01	See Note	See Note	240.0	Not Provided	118	0	\$44,383,067	\$0	\$44,383,067
2001/02	15,000,000	50,000,000	228.0	Not Provided	6	0	750,000	0	750,000
2002/03	20,000,000	80,000,000	216.0	Not Provided	8	0	800,000	0	800,000
2003/04	20,000,000	None	204.0	Not Provided	3	0	0	0	0
2004/05	20,000,000	None	192.0	Not Provided	4	0	0	0	0
2005/06	20,000,000	None	180.0	Not Provided	3	0	0	0	0
2006/07	20,000,000	None	168.0	Not Provided	0	0	0	0	0
2007/08	20,000,000	None	156.0	Not Provided	0	0	0	0	0
2008/09	20,000,000	None	144.0	Not Provided	0	0	0	0	0
2009/10	40,000,000	None	132.0	399	0	0	0	0	0
2010/11	40,000,000	None	120.0	399	2	0	0	0	0
2011/12	40,000,000	None	108.0	399	0	0	0	0	0
2012/13	30,000,000	None	96.0	358	1	0	0	0	0
2013/14	30,000,000	None	84.0	358	0	0	0	0	0
2014/15	25,000,000	None	72.0	223	2	1	715	50,000	50,715
2015/16	25,000,000	80,000,000	60.0	220	0	0	0	0	0
2016/17	25,000,000	80,000,000	48.0	222	0	0	0	0	0
2017/18	25,000,000	80,000,000	36.0	281	0	0	0	0	0
2018/19	25,000,000	80,000,000	24.0	313	1	0	0	0	0
2019/20	35,000,000	80,000,000	12.0	354	0	0	0	0	0
<b>Total</b>					<b>148</b>	<b>1</b>	<b>\$45,933,782</b>	<b>\$50,000</b>	<b>\$45,983,782</b>

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

Effective Date	Retention	Aggregate
12/01/70	Unlimited	None
12/01/00	10,000,000	25,000,000
12/01/01	15,000,000	see column (3)
12/01/02	20,000,000	see column (3)
03/01/10	40,000,000	see column (3)
03/01/13	30,000,000	see column (3)
07/01/15	25,000,000	see column (3)
07/01/20	35,000,000	see column (3)

(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, 2020  
 Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Net Unlimited Paid Losses 11/30/20 (8)	Net Unlimited Case Reserves 11/30/20 (9)	Net Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	118	0	\$44,383,067	\$0	\$44,383,067
2001/02	Unlimited	50,000,000	228.0	Not Provided	6	0	750,000	0	750,000
2002/03	Unlimited	80,000,000	216.0	Not Provided	8	0	800,000	0	800,000
2003/04	Unlimited	None	204.0	Not Provided	3	0	0	0	0
2004/05	Unlimited	None	192.0	Not Provided	4	0	0	0	0
2005/06	Unlimited	None	180.0	Not Provided	3	0	0	0	0
2006/07	Unlimited	None	168.0	Not Provided	0	0	0	0	0
2007/08	Unlimited	None	156.0	Not Provided	0	0	0	0	0
2008/09	Unlimited	None	144.0	Not Provided	0	0	0	0	0
2009/10	Unlimited	None	132.0	399	0	0	0	0	0
2010/11	Unlimited	None	120.0	399	2	0	0	0	0
2011/12	Unlimited	None	108.0	399	0	0	0	0	0
2012/13	Unlimited	None	96.0	358	1	0	0	0	0
2013/14	Unlimited	None	84.0	358	0	0	0	0	0
2014/15	Unlimited	None	72.0	223	2	1	715	50,000	50,715
2015/16	Unlimited	80,000,000	60.0	220	0	0	0	0	0
2016/17	Unlimited	80,000,000	48.0	222	0	0	0	0	0
2017/18	Unlimited	80,000,000	36.0	281	0	0	0	0	0
2018/19	Unlimited	80,000,000	24.0	313	1	0	0	0	0
2019/20	Unlimited	80,000,000	12.0	354	0	0	0	0	0
<b>Total</b>					<b>148</b>	<b>1</b>	<b>\$45,933,782</b>	<b>\$50,000</b>	<b>\$45,983,782</b>

(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, 2020  
 Gross Unlimited Losses

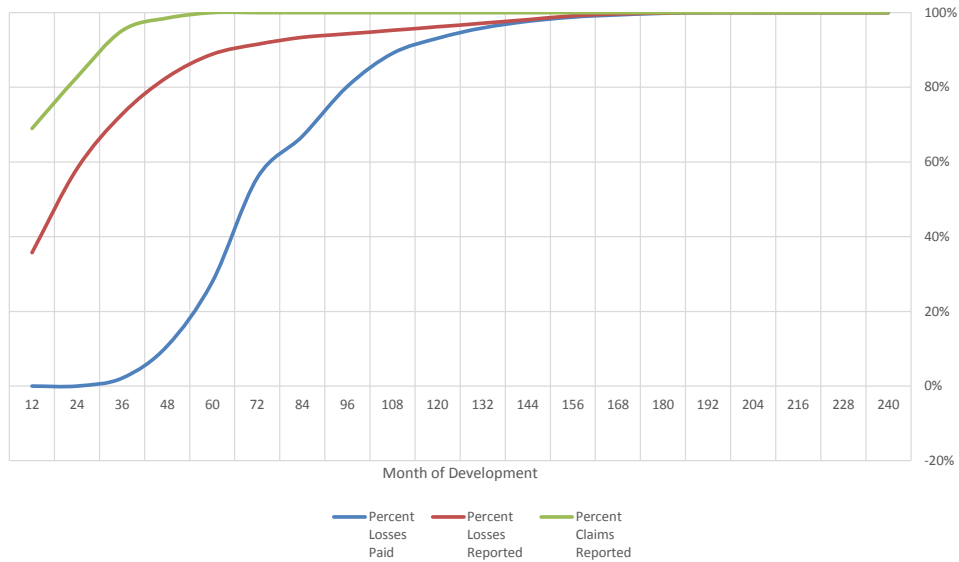
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Gross Unlimited Paid Losses 11/30/20 (8)	Gross Unlimited Case Reserves 11/30/20 (9)	Gross Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	118	0	\$44,383,067	\$0	\$44,383,067
2001/02	Unlimited	50,000,000	228.0	Not Provided	6	0	750,000	0	750,000
2002/03	Unlimited	80,000,000	216.0	Not Provided	8	0	800,000	0	800,000
2003/04	Unlimited	None	204.0	Not Provided	3	0	0	0	0
2004/05	Unlimited	None	192.0	Not Provided	4	0	0	0	0
2005/06	Unlimited	None	180.0	Not Provided	3	0	0	0	0
2006/07	Unlimited	None	168.0	Not Provided	0	0	0	0	0
2007/08	Unlimited	None	156.0	Not Provided	0	0	0	0	0
2008/09	Unlimited	None	144.0	Not Provided	0	0	0	0	0
2009/10	Unlimited	None	132.0	399	0	0	0	0	0
2010/11	Unlimited	None	120.0	399	2	0	0	0	0
2011/12	Unlimited	None	108.0	399	0	0	0	0	0
2012/13	Unlimited	None	96.0	358	1	0	0	0	0
2013/14	Unlimited	None	84.0	358	0	0	0	0	0
2014/15	Unlimited	None	72.0	223	2	1	715	50,000	50,715
2015/16	Unlimited	80,000,000	60.0	220	0	0	0	0	0
2016/17	Unlimited	80,000,000	48.0	222	0	0	0	0	0
2017/18	Unlimited	80,000,000	36.0	281	0	0	0	0	0
2018/19	Unlimited	80,000,000	24.0	313	1	0	0	0	0
2019/20	Unlimited	80,000,000	12.0	354	0	0	0	0	0
<b>Total</b>					<b>148</b>	<b>1</b>	<b>\$45,933,782</b>	<b>\$50,000</b>	<b>\$45,983,782</b>

(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	99.8%	99.9%	100.0%
168.0	99.4%	99.6%	100.0%
156.0	98.8%	99.1%	100.0%
144.0	97.6%	98.1%	100.0%
132.0	95.9%	97.2%	100.0%
120.0	93.1%	96.2%	100.0%
108.0	89.1%	95.2%	100.0%
96.0	80.3%	94.3%	100.0%
84.0	66.9%	93.4%	100.0%
72.0	55.7%	91.5%	100.0%
60.0	27.9%	88.9%	100.0%
48.0	10.7%	82.7%	98.5%
36.0	2.1%	72.8%	95.2%
24.0	0.0%	58.3%	82.8%
12.0	0.0%	35.7%	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).

COOK COUNTY, ILLINOIS  
MEDICAL MALPRACTICE - UNSPECIFIED HOSPITAL / AMBULATORY CARE

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 2000/01																				\$285,259	\$285,259	\$285,259
2001/02	0	0	30	9,351	12,349	16,054	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	24,848	24,848	24,848	24,848	24,848	24,848	
2002/03	10	12	1,260	1,263	3,248	4,488	4,888	4,986	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,313	5,313	5,313	5,313	5,313	5,313	
2003/04	0	0	0	8,781	16,656	18,246	19,496	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,196	19,196	19,196	19,196	19,196	19,196	19,196	
2004/05	0	90	107	5,775	16,665	18,715	18,715	18,715	18,715	19,715	19,715	19,715	19,715	19,698	19,698	19,698	19,698	19,698	19,698	19,698	33,698	
2005/06	0	1	516	528	6,778	9,228	9,908	11,533	11,603	23,603	24,028	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,750	
2006/07	0	16	16	26	2,016	2,016	4,766	4,766	4,766	4,766	4,753	4,753	4,753	4,753	4,753							
2007/08	0	127	127	3,677	6,027	8,427	8,427	8,427	8,427	8,302	8,302	8,302	8,302	8,302	8,302							
2008/09	0	0	2,445	3,155	3,155	4,405	5,155	8,155	8,205	8,205	8,205	8,205	8,205	8,205								
2009/10	0	0	0	2,318	7,653	10,438	11,203	11,203	11,203	11,203	11,203	11,203										
2010/11	0	0	0	2,850	4,878	5,168	5,468	10,718	10,718	10,718												
2011/12	0	20,100	20,825	24,390	26,195	34,294	37,294	37,294	37,294													
2012/13	0	850	850	2,330	5,590	20,255	35,565	61,315														
2013/14	0	0	0	825	1,675	2,050																
2014/15	0	25	30	58	3,966	9,931																
2015/16	90	2,590	4,540	4,835	5,075																	
2016/17	0	0	900	2,400																		
2017/18	0	0	0																			
2018/19	0	0																				
2019/20	0																					

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 2000/01																				1,000	1,000
2001/02			311.700	1,321	1,300	1,561	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	0.992	1,000	1,000	1,000	1,000	1,000	1,000
2002/03	1.150	109.565	1,002	2,572	1,382	1,089	1,020	1,066	1,000	1,000	1,000	1,000	1,000	1,000	0.999	1,000	1,000	1,000	1,000	1,000	1,000
2003/04				1,897	1,095	1,069	1,008	1,000	1,000	1,000	1,000	1,000	0.977	1,000	1,000	1,000					
2004/05		1.189	53.971	2,886	1,123	1,000	1,000	1,000	1,053	1,000	1,000	0.999	1,000	1,000	1,711						
2005/06		1032.000	1,023	12,837	1,361	1,074	1,164	1,006	2,034	1,018	0.999	1,000	1,000	1,031							
2006/07		1,000	1,621	77,245	1,000	2,364	1,000	1,000	1,000	0.997	1,000	1,000	1,000								
2007/08		1,000	28.953	1,639	1,398	1,000	1,000	1,000	0.985	1,000	1,000	1,000									
2008/09			1,290	1,000	1,396	1,170	1,582	1,006	1,000	1,000	1,000										
2009/10				3,302	1,364	1,073	1,000	1,000	1,000	1,000											
2010/11				1,712	1,059	1,058	1,960	1,000	1,000												
2011/12		1,036	1,171	1,074	1,309	1,087	1,000	1,000													
2012/13		1,000	2,741	2,399	3,623	1,756	1,724														
2013/14				2,030	1,224	1,000															
2014/15		1,200	1,933	68,379	2,504																
2015/16	28.778	1,753	1,065	1,050																	
2016/17			2,667																		
2017/18																					
2018/19																					
2019/20																					
Average																					
All	14.964	127.749	34.095	12.090	1.510	1.254	1.205	1.007	1.107	1.002	1.000	1.000	0.996	1.006	1.176	1.000	1.000	1.000	1.000	1.000	1.000
Wtd 3		2.100	1.333	1.874	2.870	1.324	1.396	1.000	1.000	1.000	1.000	1.000	1.000	1.002	1.317	1.000					
Last 3			1.888	23,820	2,450	1,281	1,561	1,000	1,000	1,000	1,000	1,000	1,000	1,010	1,237	1,000					
Last 5				1,834	1,679	1,073	1,435	1,000	1,000	1,000	1,000	1,000	1,000	1,000							
x-hi,low																					
Previous	2.000	120.000	5.000	2.600	2.000	1.200	1.180	1.120	1.050	1.040	1.020	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Selected	2.000	120.000	5.000	2.600	2.000	1.200	1.200	1.110	1.045	1.030	1.018	1.012	1.006	1.004	1.002	1.000	1.000	1.000	1.000	1.000	1.000
Cumulative	11193.123	5596.562	46.638	9.328	3.588	1.794	1.495	1.246	1.122	1.074	1.043	1.024	1.012	1.006	1.002	1.000	1.000	1.000	1.000	1.000	1.000
Percent	0.0%	0.0%	2.1%	10.7%	27.9%	55.7%	66.9%	80.3%	89.1%	93.1%	95.9%	97.6%	98.8%	99.4%	99.8%	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 and is for Cermak, Stroger and Provident combined.

COOK COUNTY, ILLINOIS  
MEDICAL MALPRACTICE - UNSPECIFIED HOSPITAL / AMBULATORY CARE

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 2000/01																			\$285,259	\$285,259	\$285,259
2001/02	33,740	25,655	29,808	24,761	25,134	31,305	25,861	26,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	24,848	24,848	24,848	24,848	24,848	
2002/03	26,711	16,022	31,053	8,413	8,248	6,788	5,688	5,336	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,313	5,313	5,313	5,313	5,313	
2003/04	28,331	39,505	26,840	38,771	29,756	28,646	20,246	20,146	19,646	19,646	19,646	19,646	19,646	19,196	19,196	19,196	19,196	19,196	19,196	19,196	
2004/05	9,450	27,041	20,842	24,110	21,345	19,465	18,715	19,715	19,715	19,715	19,715	19,715	19,715	29,698	39,698	33,698	33,698	33,698	33,698	33,698	
2005/06	14,276	35,957	22,631	24,828	17,228	16,758	13,858	15,603	25,603	25,603	24,028	24,250	25,000	24,750	24,750						
2006/07	11,046	13,126	8,721	5,787	4,726	5,646	4,766	4,766	4,766	4,766	4,853	4,853	4,853	4,853							
2007/08	24,827	12,544	17,152	18,477	12,927	12,227	10,927	8,427	8,427	8,302	8,302	8,302	8,302								
2008/09	5,235	6,890	9,775	10,255	9,555	10,005	8,255	8,405	8,205	8,205	8,205	8,705									
2009/10	5,095	8,253	15,550	16,368	13,503	12,388	11,203	11,203	11,203	11,203	11,203										
2010/11	770	3,900	8,530	11,105	11,183	10,673	9,968	10,718	10,718	10,818											
2011/12	23,923	34,253	39,927	39,455	39,455	39,045	37,644	38,344	38,044	43,644											
2012/13	6,925	12,000	29,150	39,255	61,465	66,155	70,215	63,015													
2013/14	1,560	7,155	6,400	5,575	3,125	2,700															
2014/15	7,000	8,225	8,630	16,108	38,101	29,431															
2015/16	5,190	8,620	11,315	12,990	13,930																
2016/17	450	2,376	9,851	28,000																	
2017/18	1,450	3,955	16,980																		
2018/19	50	5,155																			
2019/20	0																				

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 2000/01																			1.000	1.000
2001/02	0.760	1.162	0.831	1.015	1.246	0.826	1.008	0.962	1.000	1.000	1.000	1.000	1.000	1.000	0.992	1.000	1.000	1.000	1.000	
2002/03	0.600	0.360	1.458	0.980	0.823	0.838	0.938	0.996	1.000	1.000	1.000	1.000	1.000	0.999	1.000	1.000	1.000	1.000	1.000	
2003/04	1.394	0.679	1.445	0.767	0.963	0.707	0.995	0.975	1.000	1.000	1.000	1.000	0.977	1.000	1.000	1.000				
2004/05	2.861	0.771	1.157	0.885	0.912	0.961	1.053	1.000	1.000	1.000	1.000	1.506	1.337	0.849	1.000					
2005/06	2.519	0.629	1.097	0.694	0.973	0.827	1.126	1.641	1.000	0.938	1.009	1.031	0.990	1.000						
2006/07	1.188	0.664	0.664	0.817	1.195	0.973	0.867	1.000	1.000	1.018	1.000	1.000	1.000							
2007/08	0.505	1.367	1.077	0.700	0.946	0.894	0.771	1.000	0.985	1.000	1.000	1.000								
2008/09	1.316	1.419	1.049	0.932	1.047	0.825	1.018	0.976	1.000	1.000	1.061									
2009/10	1.620	1.884	1.053	0.825	0.917	0.904	1.000	1.000	1.000	1.000										
2010/11	5.065	2.187	1.302	1.007	0.954	0.934	1.075	1.000	1.009											
2011/12	1.432	1.166	0.988	0.990	0.964	1.019	0.992	1.147												
2012/13	1.733	2.429	1.347	1.566	1.076	1.061	0.897													
2013/14	4.587	0.894	0.871	0.561	0.864	1.000														
2014/15	1.175	1.049	1.867	2.365	0.772															
2015/16	1.661	1.313	1.148	1.072																
2016/17	5.279	4.147	2.842																	
2017/18	2.728	4.293																		
2018/19	103.100																			
2019/20																				
Average																				
All	7.751	1.554	1.262	1.012	0.975	0.905	0.978	1.063	0.999	0.995	1.009	1.077	1.051	0.970	0.998	1.000	1.000	1.000	1.000	
Wtd 3	5.890	2.551	1.916	1.591	0.957	1.045	0.943	1.093	1.003	1.000	1.023	1.020	1.164	0.928	1.000	1.000				
Last 3	37.035	3.251	1.952	1.333	0.904	1.027	0.988	1.049	1.003	1.000	1.020	1.010	1.109	0.950	1.000	1.000				
Last 5	3.222	2.170	1.454	1.209	0.928	0.984	1.003	1.000	1.000	1.000	1.003	1.010	0.997	1.000						
x-hi,low																				
Previous	1.600	1.225	1.125	1.075	1.050	1.020	1.020	1.020	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Selected	1.630	1.250	1.135	1.075	1.030	1.020	1.010	1.010	1.010	1.010	1.010	1.010	1.005	1.003	1.001	1.000	1.000	1.000	1.000	
Cumulative	2.797	1.716	1.373	1.210	1.125	1.093	1.071	1.060	1.050	1.040	1.029	1.019	1.009	1.004	1.001	1.000	1.000	1.000	1.000	
Percent	35.7%	58.3%	72.8%	82.7%	88.9%	91.5%	93.4%	94.3%	95.2%	96.2%	97.2%	98.1%	99.1%	99.6%	99.9%	100.0%	100.0%	100.0%	100.0%	

Amounts are limited (net of excess insurance).

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

Historical Reported Claims and Reported Claim Development

I. Historical Reported Claims

Claim Period	12	24	Months of Development:		60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
			36	48																	
to 2000/01																				520	520
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	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	59	59	59	59	59	59	59	59	59	59	
2011/12						56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	
2012/13				64	64	65	65	65	65	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	42	42	42	42	42	42	
2014/15		33	43	45	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	
2015/16	35	46	53	56	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	
2016/17	12	19	25	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	
2017/18	28	34	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
2018/19	29	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	
2019/20	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	

II. Reported Claim Development

Claim Period	12-24	24-36	Months of Development:		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	
			36-48	48-60																	
to 2000/01																					1.000
2001/02															1.000	1.000	1.000	1.000	1.000	1.000	
2002/03														1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2003/04													1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2004/05												1.000	1.000	1.000	1.000	1.000	1.000	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	
2006/07										1.014	1.014	1.014	1.014	1.014	1.014	1.014	1.014	1.014	1.014	1.014	
2007/08									1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2008/09									1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2009/10									1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2010/11									1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2011/12					1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2012/13				1.016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2013/14			1.024	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2014/15		1.303	1.047	1.044	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2015/16	1.314	1.152	1.057	1.018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2016/17	1.583	1.316	1.040	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2017/18	1.214	1.147	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2018/19	1.310	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2019/20	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Average																					
All	1.356	1.230	1.042	1.019	1.000	1.004	1.004	1.009	1.000	1.003	1.008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Wtd 3	1.319	1.182	1.050	1.021	1.000	1.006	1.006	1.012	1.000	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Last 3	1.369	1.205	1.048	1.021	1.000	1.006	1.006	1.012	1.000	1.000	1.007	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	1.150	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	
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.

COOK COUNTY, ILLINOIS  
MEDICAL MALPRACTICE - UNSPECIFIED HOSPITAL / AMBULATORY CARE

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 2000/01																			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%	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%	100.0%						
2006/07	0.0%	0.1%	0.2%	0.5%	42.7%	35.7%	86.7%	100.0%	100.0%	100.0%	97.9%	97.9%	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%	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%	94.3%									
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	100.0%	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%	100.0%	99.1%											
2011/12	0.0%	58.7%	52.2%	61.8%	67.1%	91.1%	97.3%	98.0%	85.5%												
2012/13	0.0%	7.1%	2.9%	5.9%	9.1%	30.6%	50.7%	97.3%													
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%	33.7%															
2015/16	1.7%	30.0%	40.1%	37.2%	36.4%																
2016/17	0.0%	0.0%	9.1%	8.6%																	
2017/18	0.0%	0.0%	0.0%																		
2018/19	0.0%	0.0%																			
2019/20																					
<b>Average</b>																					
All	0.1%	5.4%	9.1%	20.1%	44.1%	60.4%	81.2%	95.7%	93.2%	99.1%	99.8%	98.9%	94.3%	90.8%	91.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 3			16.4%	15.4%	33.5%	46.8%	74.6%	98.4%	95.2%	99.7%	100.0%	97.4%	98.0%	81.5%	86.2%	100.0%	100.0%	100.0%			
Last 5	0.0%	0.1%	3.2%	9.8%	33.5%	52.7%	76.0%	98.4%	100.0%	100.0%	100.0%	99.0%	98.0%	98.3%	100.0%						
x-hi,low																					
Implicit	0.0%	0.0%	2.9%	13.0%	31.4%	60.9%	71.7%	85.1%	93.6%	96.8%	98.7%	99.5%	99.7%	99.8%	99.9%	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 11/30/20 (2)	Limited Paid Losses 11/30/20 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 2000/01	240.0	\$44,383,067	100.0%	\$44,383,067
2001/02	228.0	750,000	100.0%	750,000
2002/03	216.0	800,000	100.0%	800,000
2003/04	204.0	0	100.0%	0
2004/05	192.0	0	100.0%	0
2005/06	180.0	0	99.8%	0
2006/07	168.0	0	99.4%	0
2007/08	156.0	0	98.8%	0
2008/09	144.0	0	97.6%	0
2009/10	132.0	0	95.9%	0
2010/11	120.0	0	93.1%	0
2011/12	108.0	0	89.1%	0
2012/13	96.0	0	80.3%	0
2013/14	84.0	0	66.9%	0
2014/15	72.0	715	55.7%	1,283
2015/16	60.0	0	27.9%	0
2016/17	48.0	0	10.7%	0
2017/18	36.0	0	2.1%	0
2018/19	24.0	0	0.0%	0
2019/20	12.0	0	0.0%	0
<b>Total</b>		<b>\$45,933,782</b>		<b>\$45,934,350</b>

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

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

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/20 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 2000/01	240.0	\$44,383,067	100.0%	\$44,383,067
2001/02	228.0	750,000	100.0%	750,000
2002/03	216.0	800,000	100.0%	800,000
2003/04	204.0	0	100.0%	0
2004/05	192.0	0	100.0%	0
2005/06	180.0	0	99.9%	0
2006/07	168.0	0	99.6%	0
2007/08	156.0	0	99.1%	0
2008/09	144.0	0	98.1%	0
2009/10	132.0	0	97.2%	0
2010/11	120.0	0	96.2%	0
2011/12	108.0	0	95.2%	0
2012/13	96.0	0	94.3%	0
2013/14	84.0	0	93.4%	0
2014/15	72.0	50,715	91.5%	55,407
2015/16	60.0	0	88.9%	0
2016/17	48.0	0	82.7%	0
2017/18	36.0	0	72.8%	0
2018/19	24.0	0	58.3%	0
2019/20	12.0	0	35.7%	0
<b>Total</b>		<b>\$45,983,782</b>		<b>\$45,988,474</b>

(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-5

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/20 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/20 (6)	Limited Case Reserves 11/30/20 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 2000/01	240.0	100.0%	100.0%	100.0%	\$44,383,067	\$0	\$44,383,067
2001/02	228.0	100.0%	100.0%	100.0%	750,000	0	750,000
2002/03	216.0	100.0%	100.0%	100.0%	800,000	0	800,000
2003/04	204.0	100.0%	100.0%	100.0%	0	0	0
2004/05	192.0	100.0%	100.0%	100.0%	0	0	0
2005/06	180.0	99.8%	99.9%	50.0%	0	0	0
2006/07	168.0	99.4%	99.6%	33.2%	0	0	0
2007/08	156.0	98.8%	99.1%	24.9%	0	0	0
2008/09	144.0	97.6%	98.1%	20.6%	0	0	0
2009/10	132.0	95.9%	97.2%	30.4%	0	0	0
2010/11	120.0	93.1%	96.2%	44.7%	0	0	0
2011/12	108.0	89.1%	95.2%	56.3%	0	0	0
2012/13	96.0	80.3%	94.3%	71.1%	0	0	0
2013/14	84.0	66.9%	93.4%	79.9%	0	0	0
2014/15	72.0	55.7%	91.5%	80.9%	715	50,000	62,548
2015/16	60.0	27.9%	88.9%	84.6%	0	0	0
2016/17	48.0	10.7%	82.7%	80.6%	0	0	0
2017/18	36.0	2.1%	72.8%	72.2%	0	0	0
2018/19	24.0	0.0%	58.3%	58.3%	0	0	0
2019/20	12.0	0.0%	35.7%	35.7%	0	0	0
<b>Total</b>					<b>\$45,933,782</b>	<b>\$50,000</b>	<b>\$45,995,615</b>

(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 2019/20

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 2000/01	\$44,383,067	\$44,383,067	\$44,383,067	\$44,383,067
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	1,283	55,407	62,548	60,406
2015/16	0	0	0	0
2016/17	0	0	0	0
2017/18	0	0	0	0
2018/19	0	0	0	0
2019/20	0	0	0	0
<b>Total</b>	<b>\$45,934,350</b>	<b>\$45,988,474</b>	<b>\$45,995,615</b>	<b>\$45,993,473</b>

(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 (2020/21 = 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)
2010/11	\$0	399	\$0.00	1.473	\$0.00	\$23.62
2011/12	0	399	0.00	1.416	0.00	24.57
2012/13	0	358	0.00	1.377	0.00	25.27
2013/14	0	358	0.00	1.329	0.00	26.18
2014/15	60,406	223	271.16	1.283	347.95	27.12
2015/16	0	220	0.00	1.241	0.00	28.04
2016/17	0	222	0.00	1.193	0.00	29.16
2017/18	0	281	0.00	1.147	0.00	30.33
2018/19	0	313	0.00	1.103	0.00	31.54
2019/20	0	354	0.00	1.052	0.00	33.07

(7) Projected 2020/21 a-priori loss rate per Occupied Bed Equivalent \$34.79

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/20 (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)
2015/16	\$0	27.9%	\$28.04	220	\$4,449	\$4,449
2016/17	0	10.7%	29.16	222	5,780	5,780
2017/18	0	2.1%	30.33	281	8,329	8,329
2018/19	0	0.0%	31.54	313	9,862	9,862
2019/20	0	0.0%	33.07	354	11,704	11,704

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/20 (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)
2015/16	\$0	88.9%	\$28.04	220	\$687	\$687
2016/17	0	82.7%	29.16	222	1,122	1,122
2017/18	0	72.8%	30.33	281	2,312	2,312
2018/19	0	58.3%	31.54	313	4,117	4,117
2019/20	0	35.7%	33.07	354	7,521	7,521

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).



COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - UNSPECIFIED HOSPITAL / AMBULATORY CARE

Exhibit MM-Unspecified-8

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/20 (2)	Reported Claims 11/30/20 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2010/11	120.0	2	100.0%	2	399	0.01
2011/12	108.0	0	100.0%	0	399	0.00
2012/13	96.0	1	100.0%	1	358	0.00
2013/14	84.0	0	100.0%	0	358	0.00
2014/15	72.0	2	100.0%	2	223	0.01
2015/16	60.0	0	100.0%	0	220	0.00
2016/17	48.0	0	98.5%	0	222	0.00
2017/18	36.0	0	95.2%	0	281	0.00
2018/19	24.0	1	82.8%	1	313	0.00
2019/20	12.0	0	69.0%	0	354	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 (2020/21 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2020/21 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2010/11	\$0	2	\$0	1.473	\$0	\$2,631	\$5,262
2011/12	0	0	0	1.416	0	2,736	0
2012/13	0	1	0	1.377	0	2,814	2,814
2013/14	0	0	0	1.329	0	2,916	0
2014/15	60,406	2	30,203	1.283	38,757	3,020	6,041
2015/16	0	0	0	1.241	0	3,123	0
2016/17	0	0	0	1.193	0	3,248	0
2017/18	0	0	0	1.147	0	3,378	0
2018/19	0	1	0	1.103	0	3,513	3,513
2019/20	0	0	0	1.052	0	3,684	0

(7) Projected 2020/21 average claim severity \$3,876

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.

Projected Ultimate Limited Losses to 2019/20

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 2000/01	\$44,383,067	\$44,383,067	\$44,383,067				\$44,383,067	\$44,383,067
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	1,283	55,407	62,548				75,000	60,000
2015/16	0	0	0	4,449	687		7,500	5,000
2016/17	0	0	0	5,780	1,122		10,000	10,000
2017/18	0	0	0	8,329	2,312		15,000	15,000
2018/19	0	0	0	9,862	4,117	3,513	20,000	20,000
2019/20	0	0	0	11,704	7,521		19,000	25,000
<b>Total</b>	<b>\$45,934,350</b>	<b>\$45,988,474</b>	<b>\$45,995,615</b>				<b>\$46,079,567</b>	<b>\$46,068,067</b>
2015/16 - 2019/20	0	0	0	40,124	15,759	3,513	71,500	75,000
to 2014/15	45,934,350	45,988,474	45,995,615				46,008,067	45,993,067
						<b>Change</b>		
						All years		-\$11,500
						2015/16 - 2019/20		3,500
						to 2014/15		-15,000

(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 2020/21 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 (2020/21 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2010/11	\$0	399	\$0.00	1.473	\$0.00
2011/12	0	399	0.00	1.416	0.00
2012/13	0	358	0.00	1.377	0.00
2013/14	0	358	0.00	1.329	0.00
2014/15	60,000	223	269.34	1.283	345.61
2015/16	5,000	220	22.73	1.241	28.20
2016/17	10,000	222	45.04	1.193	53.75
2017/18	15,000	281	53.45	1.147	61.32
2018/19	20,000	313	63.95	1.103	70.55
2019/20	25,000	354	70.64	1.052	74.32
<b>Total</b>	<b>\$135,000</b>	<b>3,126</b>	<b>\$43.18</b>		<b>\$63.37</b>

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)
2020/21	\$60.30	354	\$21,000	0.99	\$59.58	\$21,000
2021/22	62.72	354	22,000	0.99	61.97	22,000
2022/23	65.22	354	23,000	0.99	64.45	23,000

(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) 2020/21 is based on an average of the limited paid and limited reported incurred B-F and development methods using 12 months of experience. Other period(s) based on 2020/21 plus a 4% trend.

(8) to 2020/21 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit MM-Unspecified-2.



COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - UNSPECIFIED HOSPITAL / AMBULATORY CARE

Exhibit MM-Unspecified-11

Estimated Outstanding Losses as of November 30, 2020

Claim Period (1)	Limited Paid Losses 11/30/20 (2)	Limited Case Reserves 11/30/20 (3)	Limited Reported Incurred Losses 11/30/20 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/20 (5)-(4) (6)	Estimated Outstanding Losses 11/30/20 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/20 (7)X(8) (9)
to 2000/01	\$44,383,067	\$0	\$44,383,067	\$44,383,067	\$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	1.00	0
2009/10	0	0	0	0	0	0	1.00	0
2010/11	0	0	0	0	0	0	1.00	0
2011/12	0	0	0	0	0	0	1.00	0
2012/13	0	0	0	0	0	0	1.00	0
2013/14	0	0	0	0	0	0	1.00	0
2014/15	715	50,000	50,715	60,000	9,285	59,285	1.00	59,029
2015/16	0	0	0	5,000	5,000	5,000	1.00	4,979
2016/17	0	0	0	10,000	10,000	10,000	0.99	9,949
2017/18	0	0	0	15,000	15,000	15,000	0.99	14,903
2018/19	0	0	0	20,000	20,000	20,000	0.99	19,837
2019/20	0	0	0	25,000	25,000	25,000	0.99	24,749
<b>Total</b>	<b>\$45,933,782</b>	<b>\$50,000</b>	<b>\$45,983,782</b>	<b>\$46,068,067</b>	<b>\$84,285</b>	<b>\$134,285</b>		<b>\$133,446</b>

(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 0.19% 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, 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 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	99.8%	192.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	168.0	99.4%	180.0	99.8%	66.6%	0	0	0	1.00	0
2007/08	156.0	98.8%	168.0	99.4%	49.8%	0	0	0	1.00	0
2008/09	144.0	97.6%	156.0	98.8%	49.6%	0	0	0	1.00	0
2009/10	132.0	95.9%	144.0	97.6%	42.2%	0	0	0	1.00	0
2010/11	120.0	93.1%	132.0	95.9%	40.6%	0	0	0	1.00	0
2011/12	108.0	89.1%	120.0	93.1%	36.8%	0	0	0	1.00	0
2012/13	96.0	80.3%	108.0	89.1%	44.8%	0	0	0	1.00	0
2013/14	84.0	66.9%	96.0	80.3%	40.4%	0	0	0	1.00	0
2014/15	72.0	55.7%	84.0	66.9%	25.2%	59,285	14,938	44,347	1.00	44,189
2015/16	60.0	27.9%	72.0	55.7%	38.6%	5,000	1,932	3,068	1.00	3,055
2016/17	48.0	10.7%	60.0	27.9%	19.2%	10,000	1,921	8,079	1.00	8,045
2017/18	36.0	2.1%	48.0	10.7%	8.8%	15,000	1,315	13,685	0.99	13,615
2018/19	24.0	0.0%	36.0	2.1%	2.1%	20,000	425	19,575	0.99	19,449
2019/20	12.0	0.0%	24.0	0.0%	0.0%	25,000	2	24,998	0.99	24,794
2020/21	0.0	0.0%	12.0	0.0%	0.0%	21,000	2	20,998	0.99	20,787
Total						\$155,285	\$20,535	\$134,750		\$133,934

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

(7) to 2019/20 is from Exhibit MM-Unspecified-11. The amount for 2020/21 is from Exhibit MM-Unspecified-10.

(10) is based on a 0.19% 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, 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 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	99.8%	192.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	168.0	99.4%	180.0	99.8%	66.6%	0	0	0	1.00	0
2008/09	156.0	98.8%	168.0	99.4%	49.8%	0	0	0	1.00	0
2009/10	144.0	97.6%	156.0	98.8%	49.6%	0	0	0	1.00	0
2010/11	132.0	95.9%	144.0	97.6%	42.2%	0	0	0	1.00	0
2011/12	120.0	93.1%	132.0	95.9%	40.6%	0	0	0	1.00	0
2012/13	108.0	89.1%	120.0	93.1%	36.8%	0	0	0	1.00	0
2013/14	96.0	80.3%	108.0	89.1%	44.8%	0	0	0	1.00	0
2014/15	84.0	66.9%	96.0	80.3%	40.4%	44,347	17,925	26,422	1.00	26,331
2015/16	72.0	55.7%	84.0	66.9%	25.2%	3,068	773	2,295	1.00	2,287
2016/17	60.0	27.9%	72.0	55.7%	38.6%	8,079	3,122	4,957	1.00	4,936
2017/18	48.0	10.7%	60.0	27.9%	19.2%	13,685	2,629	11,056	1.00	11,010
2018/19	36.0	2.1%	48.0	10.7%	8.8%	19,575	1,716	17,859	0.99	17,768
2019/20	24.0	0.0%	36.0	2.1%	2.1%	24,998	532	24,466	0.99	24,308
2020/21	12.0	0.0%	24.0	0.0%	0.0%	20,998	2	20,996	0.99	20,824
2021/22	0.0	0.0%	12.0	0.0%	0.0%	22,000	2	21,998	0.99	21,777
<b>Total</b>						<b>\$156,750</b>	<b>\$26,701</b>	<b>\$130,049</b>		<b>\$129,241</b>

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

(7) to 2020/21 is from Exhibit MM-Unspecified-12, (9). The amount for 2021/22 is from Exhibit MM-Unspecified-10.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit MM-Unspecified-2.



COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - UNSPECIFIED HOSPITAL / AMBULATORY CARE

Exhibit MM-Unspecified-14

Projected Losses Paid December 1, 2022 to November 30, 2023

Claim Period (1)	Months of Development 11/30/22 (2)	Percent Losses Paid (3)	Months of Development 11/30/23 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/22 to 11/30/23 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/22 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/23 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/23 (9)X(10) (11)
to 2000/01	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2001/02	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	180.0	99.8%	192.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	168.0	99.4%	180.0	99.8%	66.6%	0	0	0	1.00	0
2009/10	156.0	98.8%	168.0	99.4%	49.8%	0	0	0	1.00	0
2010/11	144.0	97.6%	156.0	98.8%	49.6%	0	0	0	1.00	0
2011/12	132.0	95.9%	144.0	97.6%	42.2%	0	0	0	1.00	0
2012/13	120.0	93.1%	132.0	95.9%	40.6%	0	0	0	1.00	0
2013/14	108.0	89.1%	120.0	93.1%	36.8%	0	0	0	1.00	0
2014/15	96.0	80.3%	108.0	89.1%	44.8%	26,422	11,830	14,592	1.00	14,539
2015/16	84.0	66.9%	96.0	80.3%	40.4%	2,295	928	1,367	1.00	1,362
2016/17	72.0	55.7%	84.0	66.9%	25.2%	4,957	1,249	3,708	1.00	3,695
2017/18	60.0	27.9%	72.0	55.7%	38.6%	11,056	4,273	6,783	1.00	6,754
2018/19	48.0	10.7%	60.0	27.9%	19.2%	17,859	3,431	14,428	1.00	14,368
2019/20	36.0	2.1%	48.0	10.7%	8.8%	24,466	2,144	22,322	0.99	22,209
2020/21	24.0	0.0%	36.0	2.1%	2.1%	20,996	447	20,549	0.99	20,417
2021/22	12.0	0.0%	24.0	0.0%	0.0%	21,998	2	21,996	0.99	21,816
2022/23	0.0	0.0%	12.0	0.0%	0.0%	23,000	2	22,998	0.99	22,767
<b>Total</b>						<b>\$153,049</b>	<b>\$24,306</b>	<b>\$128,743</b>		<b>\$127,927</b>

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

(7) to 2021/22 is from Exhibit MM-Unspecified-13, (9). The amount for 2022/23 is from Exhibit MM-Unspecified-10.

(10) is based on a 0.19% 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 11/30/20 (5)	Unlimited Case Reserves 11/30/20 (6)	Unlimited Reported Incurred Losses 11/30/20 (7)
94000157	05/15/78	to 2000/01	Unlimited	\$2,575,459	\$0	\$2,575,459
94000147	12/12/81	to 2000/01	Unlimited	5,000,000	0	5,000,000
94000146	09/01/87	to 2000/01	Unlimited	1,155,901	0	1,155,901
94000156	01/13/88	to 2000/01	Unlimited	4,000,000	0	4,000,000
94000042	04/22/88	to 2000/01	Unlimited	1,500,000	0	1,500,000
94000145	01/14/89	to 2000/01	Unlimited	2,750,000	0	2,750,000
94000096	02/01/90	to 2000/01	Unlimited	2,500,000	0	2,500,000
94000080	08/29/90	to 2000/01	Unlimited	6,500,000	0	6,500,000
94000026	03/25/91	to 2000/01	Unlimited	3,500,000	0	3,500,000
97002717	09/01/98	to 2000/01	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)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	98	0	0	0	1	0	99		
0.01 - 5,000	3	0	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	2	0	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%
<b>Total</b>	<b>147</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>148</b>	<b>49</b>	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (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	7,215	0	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	85,000	0	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%
<b>Total</b>	<b>\$45,983,782</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$45,983,782</b>	<b>\$45,983,782</b>	

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

Data was provided by the County.

CookCounty\_MM\_Unspecified\_113020.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 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			677,711			44	354
2020/21	0	0	677,711	0	0	44	354

(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, 2020  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Payroll (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Limited Paid Losses 11/30/20 (8)	Limited Case Reserves 11/30/20 (9)	Limited Reported Incurred Losses 11/30/20 (10)
to 2000/01	See Note	See Note	240.0	Not Provided	17,485	12	\$85,643,826	\$1,908,949	\$87,552,775
2001/02	9,500,000	40,000,000	228.0	752,457	1,161	0	8,631,817	0	8,631,817
2002/03	9,500,000	45,000,000	216.0	779,098	1,223	2	8,251,638	141,595	8,393,234
2003/04	Unlimited	None	204.0	810,182	1,218	4	8,526,795	1,110,647	9,637,442
2004/05	Unlimited	None	192.0	832,363	1,318	4	8,617,245	1,146,864	9,764,109
2005/06	Unlimited	None	180.0	826,479	1,159	1	9,099,088	519,590	9,618,678
2006/07	Unlimited	None	168.0	859,906	903	3	11,747,278	177,960	11,925,238
2007/08	Unlimited	None	156.0	914,260	777	5	17,150,907	521,400	17,672,307
2008/09	Unlimited	None	144.0	942,707	767	5	14,125,631	659,679	14,785,309
2009/10	Unlimited	None	132.0	998,250	862	13	12,764,386	1,227,999	13,992,385
2010/11	Unlimited	None	120.0	928,082	789	13	10,780,541	1,210,959	11,991,500
2011/12	Unlimited	None	108.0	899,082	783	16	12,881,589	1,242,225	14,123,814
2012/13	Unlimited	None	96.0	949,338	720	21	10,307,802	2,310,453	12,618,255
2013/14	Unlimited	None	84.0	988,081	760	41	12,917,233	2,554,504	15,471,738
2014/15	Unlimited	None	72.0	998,567	778	50	15,024,147	2,493,050	17,517,197
2015/16	Unlimited	None	60.0	1,053,931	1,108	95	20,118,598	5,975,826	26,094,425
2016/17	Unlimited	None	48.0	1,075,248	1,239	127	18,970,372	6,778,611	25,748,983
2017/18	Unlimited	None	36.0	1,006,546	1,086	217	16,853,727	11,478,218	28,331,944
2018/19	Unlimited	None	24.0	1,038,161	1,037	247	12,424,132	10,767,075	23,191,207
2019/20	Unlimited	None	12.0	1,053,919	1,172	611	6,823,885	18,426,956	25,250,841
<b>Total</b>					<b>36,345</b>	<b>1,487</b>	<b>\$321,660,634</b>	<b>\$70,652,561</b>	<b>\$392,313,195</b>

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

Effective Date	Retention	Aggregate
12/01/77	Unlimited	None
12/01/00	9,500,000	40,000,000
12/01/03	Unlimited	see column (3)

(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)

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

Data Summary as of November 30, 2020  
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Payroll (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Net Unlimited Paid Losses 11/30/20 (8)	Net Unlimited Case Reserves 11/30/20 (9)	Net Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	17,485	12	\$85,643,826	\$1,908,949	\$87,552,775
2001/02	Unlimited	40,000,000	228.0	752,457	1,161	0	8,631,817	0	8,631,817
2002/03	Unlimited	45,000,000	216.0	779,098	1,223	2	8,251,638	141,595	8,393,234
2003/04	Unlimited	None	204.0	810,182	1,218	4	8,526,795	1,110,647	9,637,442
2004/05	Unlimited	None	192.0	832,363	1,318	4	8,617,245	1,146,864	9,764,109
2005/06	Unlimited	None	180.0	826,479	1,159	1	9,099,088	519,590	9,618,678
2006/07	Unlimited	None	168.0	859,906	903	3	11,747,278	177,960	11,925,238
2007/08	Unlimited	None	156.0	914,260	777	5	17,150,907	521,400	17,672,307
2008/09	Unlimited	None	144.0	942,707	767	5	14,125,631	659,679	14,785,309
2009/10	Unlimited	None	132.0	998,250	862	13	12,764,386	1,227,999	13,992,385
2010/11	Unlimited	None	120.0	928,082	789	13	10,780,541	1,210,959	11,991,500
2011/12	Unlimited	None	108.0	899,082	783	16	12,881,589	1,242,225	14,123,814
2012/13	Unlimited	None	96.0	949,338	720	21	10,307,802	2,310,453	12,618,255
2013/14	Unlimited	None	84.0	988,081	760	41	12,917,233	2,554,504	15,471,738
2014/15	Unlimited	None	72.0	998,567	778	50	15,024,147	2,493,050	17,517,197
2015/16	Unlimited	None	60.0	1,053,931	1,108	95	20,118,598	5,975,826	26,094,425
2016/17	Unlimited	None	48.0	1,075,248	1,239	127	18,970,372	6,778,611	25,748,983
2017/18	Unlimited	None	36.0	1,006,546	1,086	217	16,853,727	11,478,218	28,331,944
2018/19	Unlimited	None	24.0	1,038,161	1,037	247	12,424,132	10,767,075	23,191,207
2019/20	Unlimited	None	12.0	1,053,919	1,172	611	6,823,885	18,426,956	25,250,841
<b>Total</b>					<b>36,345</b>	<b>1,487</b>	<b>\$321,660,634</b>	<b>\$70,652,561</b>	<b>\$392,313,195</b>

(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, 2020  
Gross Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Payroll (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Gross Unlimited Paid Losses 11/30/20 (8)	Gross Unlimited Case Reserves 11/30/20 (9)	Gross Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	17,485	12	\$86,112,207	\$1,908,949	\$88,021,156
2001/02	Unlimited	40,000,000	228.0	752,457	1,161	0	8,713,917	0	8,713,917
2002/03	Unlimited	45,000,000	216.0	779,098	1,223	2	8,281,069	141,595	8,422,664
2003/04	Unlimited	None	204.0	810,182	1,218	4	8,620,923	1,110,647	9,731,570
2004/05	Unlimited	None	192.0	832,363	1,318	4	8,723,223	1,146,864	9,870,087
2005/06	Unlimited	None	180.0	826,479	1,159	1	9,117,101	519,590	9,636,691
2006/07	Unlimited	None	168.0	859,906	903	3	11,791,364	177,960	11,969,324
2007/08	Unlimited	None	156.0	914,260	777	5	17,412,919	521,400	17,934,319
2008/09	Unlimited	None	144.0	942,707	767	5	14,150,331	659,679	14,810,009
2009/10	Unlimited	None	132.0	998,250	862	13	12,802,033	1,227,999	14,030,033
2010/11	Unlimited	None	120.0	928,082	789	13	10,812,370	1,210,959	12,023,329
2011/12	Unlimited	None	108.0	899,082	783	16	13,032,575	1,242,225	14,274,800
2012/13	Unlimited	None	96.0	949,338	720	21	10,329,852	2,310,453	12,640,305
2013/14	Unlimited	None	84.0	988,081	760	41	13,017,491	2,554,504	15,571,996
2014/15	Unlimited	None	72.0	998,567	778	50	15,104,936	2,493,050	17,597,986
2015/16	Unlimited	None	60.0	1,053,931	1,108	95	20,319,764	5,975,826	26,295,591
2016/17	Unlimited	None	48.0	1,075,248	1,239	127	19,056,516	6,778,611	25,835,127
2017/18	Unlimited	None	36.0	1,006,546	1,086	217	16,989,176	11,478,218	28,467,394
2018/19	Unlimited	None	24.0	1,038,161	1,037	247	12,462,114	10,767,075	23,229,189
2019/20	Unlimited	None	12.0	1,053,919	1,172	611	6,825,575	18,426,956	25,252,531
<b>Total</b>					<b>36,345</b>	<b>1,487</b>	<b>\$323,675,456</b>	<b>\$70,652,561</b>	<b>\$394,328,017</b>

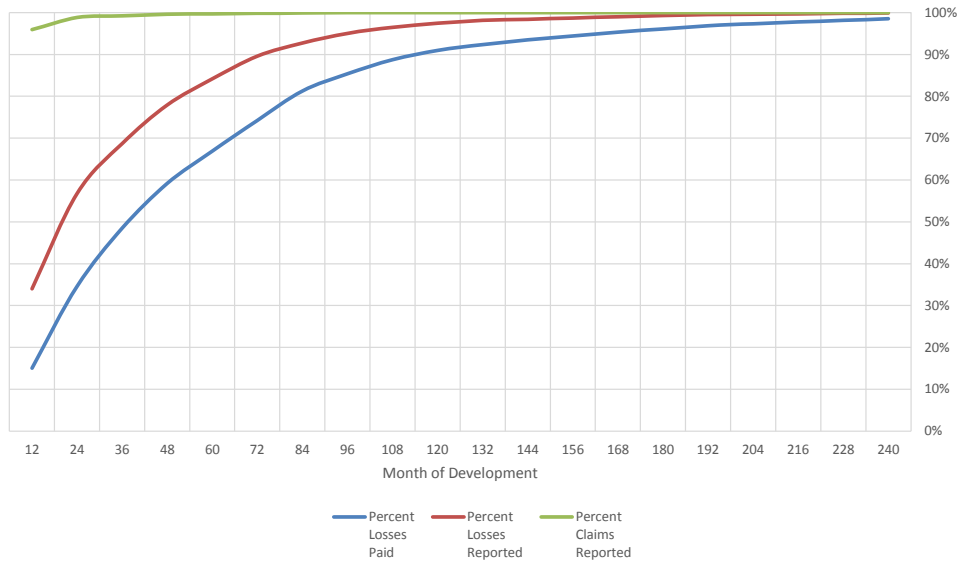
(8), (9) and (10) are gross of the specific self-insured retention and other recoveries.

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	98.1%	99.8%	100.0%
216.0	97.7%	99.7%	100.0%
204.0	97.3%	99.6%	100.0%
192.0	96.9%	99.5%	100.0%
180.0	96.1%	99.3%	100.0%
168.0	95.3%	99.0%	100.0%
156.0	94.4%	98.7%	100.0%
144.0	93.5%	98.4%	100.0%
132.0	92.3%	98.1%	100.0%
120.0	91.0%	97.4%	100.0%
108.0	88.8%	96.5%	100.0%
96.0	85.3%	95.0%	100.0%
84.0	81.3%	92.7%	99.9%
72.0	74.2%	89.6%	99.8%
60.0	66.9%	84.1%	99.7%
48.0	59.2%	77.9%	99.6%
36.0	48.5%	68.8%	99.2%
24.0	34.7%	56.8%	98.8%
12.0	15.1%	34.0%	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 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 2000/01													\$76,134	\$77,500	\$78,133	\$79,014	\$79,944	\$80,733	\$81,363	\$81,807	\$86,112
2001/02				4,995	5,012	5,409	6,145	6,866	7,018	7,218	7,373	7,426	7,505	7,539	8,183	8,338	8,371	8,408	8,714		
2002/03					5,562	5,948	6,768	6,991	7,316	7,534	7,582	7,611	7,682	8,166	8,212	8,248	8,274	8,281			
2003/04			3,755	4,354	5,205	6,500	6,855	7,022	7,164	7,248	7,332	7,406	8,000	8,034	8,192	8,249	8,621				
2004/05		2,828	3,565	4,391	5,913	6,186	6,560	6,850	7,111	7,356	7,443	8,065	8,352	8,471	8,592	8,723					
2005/06	1,453	2,780	4,351	6,140	6,770	7,111	7,396	7,536	7,952	8,103	8,503	8,683	8,803	9,073	9,117						
2006/07	1,811	3,799	5,627	6,820	7,908	8,615	9,131	9,583	9,724	11,075	11,225	11,460	11,636	11,791							
2007/08	1,544	3,529	5,382	6,535	7,464	8,455	8,820	10,401	15,890	16,466	16,699	17,029	17,413								
2008/09	1,829	4,111	5,863	7,314	8,708	9,995	11,196	12,384	13,060	13,438	14,001	14,150									
2009/10	2,059	4,695	6,392	7,658	8,838	9,734	11,256	11,807	12,225	12,689	12,802										
2010/11	2,183	4,158	5,415	6,697	7,719	9,220	9,737	10,099	10,722	10,812											
2011/12	1,861	3,935	5,816	7,160	9,913	11,006	12,024	12,693	13,033												
2012/13	1,527	3,443	5,292	7,744	8,595	9,220	9,861	10,330													
2013/14	2,329	4,358	7,831	9,470	10,455	11,814	13,017														
2014/15	2,265	7,515	10,310	12,083	13,574	15,105															
2015/16	4,540	10,919	14,827	17,988	20,320																
2016/17	4,906	11,598	15,522	19,057																	
2017/18	5,345	12,360	16,989																		
2018/19	5,271	12,462																			
2019/20	6,826																				

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 2000/01													1.018	1.008	1.011	1.012	1.010	1.008	1.005	1.053
2001/02					1.079	1.136	1.117	1.022	1.029	1.021	1.007	1.011	1.005	1.085	1.019	1.004	1.004	1.036		
2002/03				1.113	1.069	1.138	1.033	1.046	1.030	1.006	1.004	1.009	1.063	1.006	1.004	1.003	1.001			
2003/04			1.160	1.195	1.249	1.055	1.024	1.020	1.012	1.010	1.010	1.080	1.004	1.020	1.007	1.045				
2004/05		1.261	1.231	1.347	1.046	1.060	1.044	1.038	1.034	1.012	1.084	1.036	1.014	1.014	1.015					
2005/06	1.913	1.565	1.411	1.103	1.050	1.040	1.019	1.055	1.019	1.049	1.021	1.014	1.031	1.005						
2006/07	2.098	1.481	1.212	1.160	1.089	1.060	1.049	1.015	1.139	1.014	1.021	1.015	1.013							
2007/08	2.287	1.525	1.214	1.142	1.133	1.161	1.059	1.528	1.036	1.014	1.020	1.023								
2008/09	2.248	1.426	1.248	1.190	1.148	1.120	1.106	1.055	1.029	1.042	1.011									
2009/10	2.280	1.361	1.198	1.154	1.101	1.156	1.049	1.035	1.038	1.009										
2010/11	1.905	1.302	1.237	1.153	1.195	1.056	1.037	1.062	1.008											
2011/12	2.114	1.478	1.231	1.385	1.110	1.092	1.056	1.027												
2012/13	2.254	1.537	1.463	1.110	1.073	1.069	1.048													
2013/14	1.871	1.797	1.209	1.104	1.130	1.102														
2014/15	3.318	1.372	1.172	1.123	1.113															
2015/16	2.405	1.358	1.213	1.130																
2016/17	2.364	1.338	1.228																	
2017/18	2.312	1.375																		
2018/19	2.364																			
2019/20																				
Average																				
All	2.267	1.441	1.245	1.172	1.113	1.096	1.054	1.082	1.037	1.020	1.022	1.026	1.020	1.024	1.011	1.016	1.004	1.021	1.053	
Wtd 3	2.346	1.357	1.208	1.122	1.108	1.089	1.047	1.040	1.026	1.021	1.017	1.018	1.019	1.013	1.009	1.017	1.007			
Last 3	2.347	1.357	1.204	1.119	1.105	1.088	1.047	1.041	1.025	1.022	1.017	1.017	1.019	1.013	1.009	1.017	1.004			
Last 5	2.378	1.368	1.217	1.121	1.118	1.088	1.051	1.051	1.034	1.023	1.021	1.024	1.019	1.013	1.011					
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	2.275	1.450	1.220	1.130	1.110	1.095	1.050	1.040	1.025	1.015	1.010	1.008	1.007	1.006	1.005	1.003	1.003	1.003	1.002	1.015
Selected	2.300	1.400	1.220	1.130	1.110	1.095	1.050	1.040	1.025	1.015	1.012	1.010	1.010	1.008	1.008	1.005	1.004	1.004	1.004	1.015
Cumulative	6.638	2.886	2.061	1.690	1.495	1.347	1.230	1.172	1.127	1.099	1.083	1.070	1.059	1.049	1.041	1.032	1.027	1.023	1.019	1.015
Percent	15.1%	34.7%	48.5%	59.2%	66.9%	74.2%	81.3%	85.3%	88.8%	91.0%	92.3%	93.5%	94.4%	95.3%	96.1%	96.9%	97.3%	97.7%	98.1%	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 - GENERAL GOVERNMENT (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 2000/01													\$85,647	\$85,262	\$93,036	\$89,788	\$82,318	\$82,554	\$83,226	\$83,533	\$88,021
2001/02					6,778	7,267	7,901	7,230	7,363	7,326	7,699	7,726	8,750	8,752	9,098	9,063	9,063	9,087	8,714		
2002/03				8,233	9,063	9,454	7,060	7,424	7,333	7,596	7,634	8,262	8,071	8,504	8,514	8,647	8,423	8,423			
2003/04			7,149	7,596	8,160	6,898	7,363	7,353	7,823	7,825	8,474	8,502	8,831	8,777	8,595	8,888	9,732				
2004/05		5,944	7,079	7,733	6,717	6,876	6,929	7,199	7,449	7,705	8,045	8,609	8,649	8,994	9,262	9,870					
2005/06	3,325	5,112	7,350	7,002	7,473	7,347	7,562	7,682	8,354	8,374	8,795	8,837	8,888	9,149	9,637						
2006/07	3,898	6,477	6,611	7,633	8,097	8,940	9,513	10,647	10,794	11,739	11,968	11,890	11,922	11,969							
2007/08	3,366	5,060	6,631	6,733	7,983	8,863	11,257	11,696	16,602	16,997	17,468	17,570	17,934								
2008/09	3,421	6,040	6,393	7,861	9,131	12,857	13,048	13,735	13,907	14,010	14,495	14,810									
2009/10	3,954	5,346	7,028	7,962	11,691	12,760	13,215	13,262	13,419	13,743	14,030										
2010/11	3,335	4,763	5,658	9,128	9,585	10,509	11,018	11,328	11,328	11,328	11,328										
2011/12	2,894	5,892	9,845	11,328	12,770	13,071	13,266	13,453	14,275												
2012/13	2,850	7,583	8,606	9,982	10,602	11,158	12,548	12,640													
2013/14	5,774	8,444	11,564	12,220	12,484	14,678	15,572														
2014/15	5,499	11,396	14,181	16,046	17,382	17,598															
2015/16	9,516	19,675	21,634	24,218	26,296																
2016/17	14,585	19,624	23,318	25,835																	
2017/18	16,531	23,379	28,467																		
2018/19	19,378	23,229																			
2019/20	25,253																				

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 2000/01													0.996	1.091	0.965	0.917	1.003	1.008	1.004	1.054
2001/02					1.072	1.087	0.915	1.018	0.995	1.051	1.003	1.133	1.000	1.040	0.996	1.000	1.003	0.959		
2002/03				1.101	1.043	0.747	1.052	0.988	1.036	1.005	1.082	0.977	1.054	1.001	1.016	0.974	1.000			
2003/04			1.062	1.074	0.845	1.067	0.999	1.064	1.000	1.083	1.003	1.039	0.994	0.979	1.034	1.095				
2004/05		1.191	1.092	0.869	1.024	1.008	1.039	1.035	1.034	1.044	1.070	1.005	1.040	1.030	1.066					
2005/06	1.537	1.438	0.953	1.067	0.983	1.029	1.016	1.087	1.002	1.050	1.005	1.006	1.029	1.053						
2006/07	1.662	1.021	1.155	1.061	1.104	1.064	1.119	1.014	1.088	1.019	0.993	1.003	1.004							
2007/08	1.503	1.310	1.015	1.186	1.110	1.270	1.039	1.419	1.024	1.028	1.006	1.021								
2008/09	1.766	1.058	1.230	1.162	1.408	1.015	1.053	1.013	1.007	1.035	1.022									
2009/10	1.352	1.315	1.133	1.468	1.091	1.036	1.004	1.012	1.024	1.021										
2010/11	1.428	1.188	1.613	1.050	1.096	1.048	1.028	1.040	1.021											
2011/12	2.036	1.671	1.151	1.127	1.024	1.015	1.014	1.061												
2012/13	2.661	1.135	1.160	1.062	1.053	1.125	1.007													
2013/14	1.462	1.369	1.057	1.022	1.176	1.061														
2014/15	2.072	1.244	1.132	1.083	1.012															
2015/16	2.068	1.100	1.119	1.086																
2016/17	1.345	1.188	1.108																	
2017/18	1.414	1.218																		
2018/19	1.199																			
2019/20																				
Average																				
All	1.679	1.246	1.141	1.101	1.074	1.044	1.024	1.068	1.023	1.037	1.023	1.022	1.030	1.011	1.006	1.018	1.004	0.981	1.054	
Wtd 3	1.312	1.171	1.118	1.070	1.073	1.064	1.016	1.038	1.017	1.028	1.008	1.012	1.022	1.021	1.039	1.023	1.007			
Last 3	1.320	1.168	1.120	1.064	1.080	1.067	1.017	1.038	1.018	1.028	1.007	1.010	1.024	1.021	1.038	1.023	1.004			
Last 5	1.609	1.217	1.120	1.077	1.058	1.048	1.017	1.038	1.023	1.028	1.011	1.010	1.024	1.023	1.015					
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	1.720	1.210	1.133	1.080	1.065	1.030	1.022	1.015	1.010	1.007	1.003	1.003	1.003	1.003	1.002	1.001	1.001	1.001	1.001	1.001
Selected	1.670	1.210	1.133	1.080	1.065	1.035	1.025	1.015	1.010	1.007	1.003	1.003	1.003	1.003	1.003	1.002	1.001	1.001	1.001	1.001
Cumulative	2.939	1.760	1.455	1.284	1.189	1.116	1.078	1.052	1.037	1.026	1.019	1.016	1.013	1.010	1.007	1.005	1.004	1.003	1.002	1.001
Percent	34.0%	56.8%	68.8%	77.9%	84.1%	89.6%	92.7%	95.0%	96.5%	97.4%	98.1%	98.4%	98.7%	99.0%	99.3%	99.5%	99.6%	99.7%	99.8%	99.9%

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 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 2000/01													17,478	17,479	17,480	17,481	17,480	17,482	17,485	17,485	17,485
2001/02					1,160	1,160	1,160	1,160	1,160	1,160	1,159	1,160	1,161	1,161	1,161	1,161	1,161	1,161	1,161	1,161	1,161
2002/03				1,220	1,221	1,222	1,222	1,222	1,222	1,222	1,222	1,222	1,223	1,223	1,223	1,223	1,223	1,223	1,223	1,223	1,223
2003/04			1,212	1,215	1,215	1,215	1,215	1,215	1,214	1,215	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218
2004/05		1,312	1,313	1,315	1,315	1,316	1,316	1,316	1,316	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318
2005/06	1,153	1,158	1,156	1,156	1,155	1,155	1,155	1,156	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159
2006/07	875	890	892	896	897	897	896	902	902	903	903	903	903	903	903	903	903	903	903	903	903
2007/08	756	767	767	767	768	768	776	777	777	777	777	777	777	777	777	777	777	777	777	777	777
2008/09	668	679	755	755	755	766	767	767	767	767	767	767	767	767	767	767	767	767	767	767	767
2009/10	751	842	843	844	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862
2010/11	768	773	776	788	788	788	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789
2011/12	757	761	781	783	783	783	783	783	783	783	783	783	783	783	783	783	783	783	783	783	783
2012/13	703	715	716	719	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720
2013/14	730	752	756	759	760	760	760	760	760	760	760	760	760	760	760	760	760	760	760	760	760
2014/15	762	768	771	777	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778
2015/16	1,076	1,104	1,107	1,109	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108
2016/17	1,149	1,234	1,238	1,239																	
2017/18	1,069	1,086	1,086																		
2018/19	1,020	1,037																			
2019/20	1,172																				

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 2000/01													1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2001/02					1.000	1.000	1.000	1.000	1.000	0.999	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2002/03				1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2003/04			1.002	1.000	1.000	1.000	1.000	0.999	1.001	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2004/05		1.001	1.002	1.000	1.001	1.000	1.000	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005/06	1.004	0.998	1.000	0.999	1.000	1.000	1.001	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2006/07	1.017	1.002	1.004	1.001	1.000	0.999	1.007	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2007/08	1.015	1.000	1.000	1.001	1.000	1.010	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008/09	1.016	1.112	1.000	1.000	1.015	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009/10	1.121	1.001	1.001	1.021	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2010/11	1.007	1.004	1.015	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2011/12	1.005	1.026	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2012/13	1.017	1.001	1.004	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2013/14	1.030	1.005	1.004	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2014/15	1.008	1.004	1.008	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2015/16	1.026	1.003	1.002	0.999																
2016/17	1.074	1.003	1.001																	
2017/18	1.016	1.000																		
2018/19	1.017																			
2019/20																				
Average																				
All	1.027	1.012	1.003	1.002	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Wtd 3	1.037	1.002	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 3	1.036	1.002	1.003	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 5	1.020	1.003	1.003	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
x-hi,low																				
Similar	1.131	1.019	1.010	1.007	1.007	1.005	1.005	1.006	1.006	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Previous	1.030	1.004	1.004	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Selected	1.030	1.004	1.004	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Cumulative	1.042	1.012	1.008	1.004	1.003	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Percent	95.9%	98.8%	99.2%	99.6%	99.7%	99.8%	99.9%	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%

Data was provided by the County.

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 2000/01												88.9%	90.9%	84.0%	88.0%	97.1%	97.8%	97.8%	97.9%	97.8%
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%	100.0%	
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%	98.3%		
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%	88.6%			
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%	94.6%					
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%	98.5%						
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%	97.1%							
2008/09	53.5%	68.1%	91.7%	93.1%	95.4%	77.7%	85.8%	90.2%	93.9%	95.9%	96.6%	95.5%								
2009/10	52.1%	87.8%	91.0%	96.2%	75.6%	76.3%	85.2%	89.0%	91.1%	92.3%	91.2%									
2010/11	65.5%	87.3%	95.7%	73.4%	80.5%	87.7%	88.4%	89.2%	91.0%	89.9%										
2011/12	64.3%	66.8%	59.1%	63.2%	77.6%	84.2%	90.6%	94.4%	91.3%											
2012/13	53.6%	45.4%	61.5%	77.6%	81.1%	82.6%	78.6%	81.7%												
2013/14	40.3%	51.6%	67.7%	77.5%	83.7%	80.5%	83.6%													
2014/15	41.2%	65.9%	72.7%	75.3%	78.1%	85.8%														
2015/16	47.7%	55.5%	68.5%	74.3%	77.3%															
2016/17	33.6%	59.1%	66.6%	73.8%																
2017/18	32.3%	52.9%	59.7%																	
2018/19	27.2%	53.6%																		
2019/20	27.0%																			
<b>Average</b>																				
All	45.0%	61.6%	70.8%	76.9%	81.2%	84.6%	88.8%	91.8%	93.7%	95.2%	94.2%	93.9%	94.1%	92.8%	92.8%	93.1%	94.2%	96.2%	99.0%	97.8%
Last 3	28.9%	55.2%	64.9%	74.4%	79.7%	83.0%	84.3%	88.4%	91.1%	92.7%	94.5%	96.3%	97.9%	97.3%	94.2%	92.2%	93.1%	96.2%		
Last 5	31.1%	56.1%	67.6%	75.7%	78.9%	84.2%	85.7%	89.4%	92.1%	94.2%	95.3%	96.3%	97.1%	96.2%	94.2%	93.4%				
x-hi,low																				
Implicit	44.3%	61.0%	70.6%	76.0%	79.5%	82.9%	87.7%	89.8%	92.0%	93.4%	94.1%	95.0%	95.6%	96.3%	96.8%	97.4%	97.7%	98.0%	98.3%	98.6%
Prior	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%



COOK COUNTY, ILLINOIS  
WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)

Exhibit WC-Gov-Indem-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/20 (2)	Limited Paid Losses 11/30/20 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 2000/01	240.0	\$85,643,826	98.5%	\$86,928,483
2001/02	228.0	8,631,817	98.1%	8,796,339
2002/03	216.0	8,251,638	97.7%	8,442,550
2003/04	204.0	8,526,795	97.3%	8,758,969
2004/05	192.0	8,617,245	96.9%	8,896,141
2005/06	180.0	9,099,088	96.1%	9,468,728
2006/07	168.0	11,747,278	95.3%	12,322,294
2007/08	156.0	17,150,907	94.4%	18,170,328
2008/09	144.0	14,125,631	93.5%	15,114,887
2009/10	132.0	12,764,386	92.3%	13,822,210
2010/11	120.0	10,780,541	91.0%	11,849,067
2011/12	108.0	12,881,589	88.8%	14,512,322
2012/13	96.0	10,307,802	85.3%	12,077,217
2013/14	84.0	12,917,233	81.3%	15,891,307
2014/15	72.0	15,024,147	74.2%	20,239,233
2015/16	60.0	20,118,598	66.9%	30,083,262
2016/17	48.0	18,970,372	59.2%	32,053,945
2017/18	36.0	16,853,727	48.5%	34,742,529
2018/19	24.0	12,424,132	34.7%	35,855,813
2019/20	12.0	6,823,885	15.1%	45,295,289
<b>Total</b>		<b>\$321,660,634</b>		<b>\$443,320,914</b>

(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 11/30/20 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 2000/01	240.0	\$87,552,775	99.9%	\$87,640,328
2001/02	228.0	8,631,817	99.8%	8,649,089
2002/03	216.0	8,393,234	99.7%	8,418,438
2003/04	204.0	9,637,442	99.6%	9,676,049
2004/05	192.0	9,764,109	99.5%	9,813,027
2005/06	180.0	9,618,678	99.3%	9,686,202
2006/07	168.0	11,925,238	99.0%	12,044,980
2007/08	156.0	17,672,307	98.7%	17,903,305
2008/09	144.0	14,785,309	98.4%	15,023,507
2009/10	132.0	13,992,385	98.1%	14,260,462
2010/11	120.0	11,991,500	97.4%	12,306,791
2011/12	108.0	14,123,814	96.5%	14,640,121
2012/13	96.0	12,618,255	95.0%	13,275,718
2013/14	84.0	15,471,738	92.7%	16,684,826
2014/15	72.0	17,517,197	89.6%	19,551,837
2015/16	60.0	26,094,425	84.1%	31,018,463
2016/17	48.0	25,748,983	77.9%	33,056,463
2017/18	36.0	28,331,944	68.8%	41,209,998
2018/19	24.0	23,191,207	56.8%	40,816,422
2019/20	12.0	25,250,841	34.0%	74,217,086
<b>Total</b>		<b>\$392,313,195</b>		<b>\$489,893,113</b>

(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 11/30/20 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/20 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/20 (6)	Limited Case Reserves 11/30/20 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 2000/01	240.0	98.5%	99.9%	93.2%	\$85,643,826	\$1,908,949	\$87,691,174
2001/02	228.0	98.1%	99.8%	89.3%	8,631,817	0	8,631,817
2002/03	216.0	97.7%	99.7%	86.8%	8,251,638	141,595	8,414,842
2003/04	204.0	97.3%	99.6%	84.9%	8,526,795	1,110,647	9,834,249
2004/05	192.0	96.9%	99.5%	84.1%	8,617,245	1,146,864	9,980,953
2005/06	180.0	96.1%	99.3%	82.1%	9,099,088	519,590	9,731,633
2006/07	168.0	95.3%	99.0%	78.7%	11,747,278	177,960	11,973,413
2007/08	156.0	94.4%	98.7%	77.0%	17,150,907	521,400	17,828,030
2008/09	144.0	93.5%	98.4%	75.8%	14,125,631	659,679	14,996,205
2009/10	132.0	92.3%	98.1%	75.4%	12,764,386	1,227,999	14,392,243
2010/11	120.0	91.0%	97.4%	71.6%	10,780,541	1,210,959	12,472,052
2011/12	108.0	88.8%	96.5%	68.6%	12,881,589	1,242,225	14,692,008
2012/13	96.0	85.3%	95.0%	66.2%	10,307,802	2,310,453	13,798,051
2013/14	84.0	81.3%	92.7%	61.2%	12,917,233	2,554,504	17,094,598
2014/15	72.0	74.2%	89.6%	59.6%	15,024,147	2,493,050	19,206,145
2015/16	60.0	66.9%	84.1%	52.1%	20,118,598	5,975,826	31,594,053
2016/17	48.0	59.2%	77.9%	45.8%	18,970,372	6,778,611	33,757,424
2017/18	36.0	48.5%	68.8%	39.3%	16,853,727	11,478,218	46,054,064
2018/19	24.0	34.7%	56.8%	33.9%	12,424,132	10,767,075	44,164,636
2019/20	12.0	15.1%	34.0%	22.3%	6,823,885	18,426,956	89,381,061
Total					\$321,660,634	\$70,652,561	\$515,688,650

(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 2019/20

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 2000/01	\$86,928,483	\$87,640,328	\$87,691,174	\$87,666,000
2001/02	8,796,339	8,649,089	8,631,817	8,692,000
2002/03	8,442,550	8,418,438	8,414,842	8,425,000
2003/04	8,758,969	9,676,049	9,834,249	9,755,000
2004/05	8,896,141	9,813,027	9,980,953	9,897,000
2005/06	9,468,728	9,686,202	9,731,633	9,577,000
2006/07	12,322,294	12,044,980	11,973,413	12,184,000
2007/08	18,170,328	17,903,305	17,828,030	18,037,000
2008/09	15,114,887	15,023,507	14,996,205	15,069,000
2009/10	13,822,210	14,260,462	14,392,243	14,041,000
2010/11	11,849,067	12,306,791	12,472,052	12,078,000
2011/12	14,512,322	14,640,121	14,692,008	14,576,000
2012/13	12,077,217	13,275,718	13,798,051	12,676,000
2013/14	15,891,307	16,684,826	17,094,598	16,288,000
2014/15	20,239,233	19,551,837	19,206,145	19,896,000
2015/16	30,083,262	31,018,463	31,594,053	30,551,000
2016/17	32,053,945	33,056,463	33,757,424	32,555,000
2017/18	34,742,529	41,209,998	46,054,064	37,976,000
2018/19	35,855,813	40,816,422	44,164,636	38,336,000
2019/20	45,295,289	74,217,086	89,381,061	45,295,000
<b>Total</b>	<b>\$443,320,914</b>	<b>\$489,893,113</b>	<b>\$515,688,650</b>	<b>\$453,570,000</b>

(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 (2020/21 = 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)
2010/11	\$12,078,000	\$928,082	\$1.30	1.173	\$1.53	\$2.58
2011/12	14,576,000	899,082	1.62	1.164	1.89	2.60
2012/13	12,676,000	949,338	1.34	1.145	1.53	2.64
2013/14	16,288,000	988,081	1.65	1.127	1.86	2.69
2014/15	19,896,000	998,567	1.99	1.106	2.20	2.74
2015/16	30,551,000	1,053,931	2.90	1.083	3.14	2.80
2016/17	32,555,000	1,075,248	3.03	1.064	3.22	2.85
2017/18	37,976,000	1,006,546	3.77	1.047	3.95	2.89
2018/19	38,336,000	1,038,161	3.69	1.030	3.80	2.94
2019/20	45,295,000	1,053,919	4.30	1.015	4.36	2.98

(7) Projected 2020/21 a-priori loss rate per \$100 of Payroll \$3.03

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/20 (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)
2015/16	\$20,118,598	66.9%	\$2.80	\$1,053,931	\$9,762,585	\$29,881,183
2016/17	18,970,372	59.2%	2.85	1,075,248	12,495,787	31,466,159
2017/18	16,853,727	48.5%	2.89	1,006,546	14,997,893	31,851,620
2018/19	12,424,132	34.7%	2.94	1,038,161	19,951,269	32,375,401
2019/20	6,823,885	15.1%	2.98	1,053,919	26,718,984	33,542,869

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/20 (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)
2015/16	\$26,094,425	84.1%	\$2.80	\$1,053,931	\$4,678,733	\$30,773,157
2016/17	25,748,983	77.9%	2.85	1,075,248	6,767,527	32,516,510
2017/18	28,331,944	68.8%	2.89	1,006,546	9,102,445	37,434,389
2018/19	23,191,207	56.8%	2.94	1,038,161	13,183,361	36,374,568
2019/20	25,250,841	34.0%	2.98	1,053,919	20,755,244	46,006,085

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 11/30/20 (2)	Reported Claims 11/30/20 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2010/11	120.0	789	100.0%	789	\$928,082	0.85
2011/12	108.0	783	100.0%	783	899,082	0.87
2012/13	96.0	720	100.0%	720	949,338	0.76
2013/14	84.0	760	99.9%	761	988,081	0.77
2014/15	72.0	778	99.8%	780	998,567	0.78
2015/16	60.0	1,108	99.7%	1,111	1,053,931	1.05
2016/17	48.0	1,239	99.6%	1,244	1,075,248	1.16
2017/18	36.0	1,086	99.2%	1,095	1,006,546	1.09
2018/19	24.0	1,037	98.8%	1,050	1,038,161	1.01
2019/20	12.0	1,172	95.9%	1,222	1,053,919	1.16

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2020/21 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2020/21 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2010/11	\$12,078,000	789	\$15,308	1.577	\$24,133	\$22,075	\$17,417,255
2011/12	14,576,000	783	18,616	1.519	28,276	22,912	17,940,121
2012/13	12,676,000	720	17,606	1.451	25,547	23,984	17,268,153
2013/14	16,288,000	761	21,403	1.386	29,660	25,114	19,111,892
2014/15	19,896,000	780	25,508	1.321	33,693	26,347	20,550,789
2015/16	30,551,000	1,111	27,499	1.256	34,536	27,710	30,785,966
2016/17	32,555,000	1,244	26,170	1.198	31,342	29,058	36,148,608
2017/18	37,976,000	1,095	34,681	1.144	39,676	30,421	33,311,108
2018/19	38,336,000	1,050	36,510	1.093	39,905	31,842	33,433,863
2019/20	45,295,000	1,222	37,066	1.045	38,751	33,289	40,679,137
						(7) Projected 2020/21 average claim severity \$34,802	

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 2019/20

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 2000/01	\$86,928,483	\$87,640,328	\$87,691,174				\$87,832,083	\$87,666,000
2001/02	8,796,339	8,649,089	8,631,817				9,080,000	8,631,817
2002/03	8,442,550	8,418,438	8,414,842				8,431,000	8,417,000
2003/04	8,758,969	9,676,049	9,834,249				8,893,000	9,755,000
2004/05	8,896,141	9,813,027	9,980,953				9,287,000	9,897,000
2005/06	9,468,728	9,686,202	9,731,633				9,308,000	9,709,000
2006/07	12,322,294	12,044,980	11,973,413				12,072,000	11,973,000
2007/08	18,170,328	17,903,305	17,828,030				17,744,000	17,866,000
2008/09	15,114,887	15,023,507	14,996,205				14,807,000	15,045,000
2009/10	13,822,210	14,260,462	14,392,243				14,202,000	14,300,000
2010/11	11,849,067	12,306,791	12,472,052				12,135,000	12,300,000
2011/12	14,512,322	14,640,121	14,692,008				14,215,000	14,580,000
2012/13	12,077,217	13,275,718	13,798,051				13,921,000	13,800,000
2013/14	15,891,307	16,684,826	17,094,598				15,838,000	16,288,000
2014/15	20,239,233	19,551,837	19,206,145				20,521,000	20,000,000
2015/16	30,083,262	31,018,463	31,594,053	29,881,183	30,773,157	30,785,966	28,115,000	30,100,000
2016/17	32,053,945	33,056,463	33,757,424	31,466,159	32,516,510	36,148,608	29,527,000	31,800,000
2017/18	34,742,529	41,209,998	46,054,064	31,851,620	37,434,389	33,311,108	29,727,000	33,000,000
2018/19	35,855,813	40,816,422	44,164,636	32,375,401	36,374,568	33,433,863	33,078,000	34,000,000
2019/20	45,295,289	74,217,086	89,381,061	33,542,869	46,006,085	40,679,137	29,015,000	50,000,000
<b>Total</b>	<b>\$443,320,914</b>	<b>\$489,893,113</b>	<b>\$515,688,650</b>				<b>\$417,748,083</b>	<b>\$449,127,817</b>
2015/16 - 2019/20	178,030,838	220,318,432	244,951,238	159,117,231	183,104,709	174,358,682	149,462,000	178,900,000
to 2014/15	265,290,076	269,574,681	270,737,413				268,286,083	270,227,817
						<b>Change</b>		
						All years 2015/16 - 2019/20 to 2014/15		\$31,379,734 29,438,000 1,941,734

- (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.



COOK COUNTY, ILLINOIS  
WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)

Exhibit WC-Gov-Indem-10

Projected Ultimate Limited Losses for 2020/21 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 (2020/21 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2010/11	\$12,300,000	\$928,082	\$1.33	1.173	\$1.55
2011/12	14,580,000	899,082	1.62	1.164	1.89
2012/13	13,800,000	949,338	1.45	1.145	1.67
2013/14	16,288,000	988,081	1.65	1.127	1.86
2014/15	20,000,000	998,567	2.00	1.106	2.22
2015/16	30,100,000	1,053,931	2.86	1.083	3.09
2016/17	31,800,000	1,075,248	2.96	1.064	3.15
2017/18	33,000,000	1,006,546	3.28	1.047	3.43
2018/19	34,000,000	1,038,161	3.28	1.030	3.37
2019/20	50,000,000	1,053,919	4.74	1.015	4.82
Total	\$255,868,000	\$9,990,955	\$2.56		\$2.70

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)
2020/21	\$3.26	\$1,021,693	\$33,326,000	0.99	\$3.23	\$33,045,000
2021/22	3.31	1,021,693	33,826,000	0.99	3.28	33,541,000
2022/23	3.36	1,021,693	34,334,000	0.99	3.33	34,044,000

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

(3) was provided by the County.

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

(7) 2020/21 is based on (6) and actuarial judgment.  
Other period(s) based on 2020/21 plus the trend in Exhibit WC-Gov-Indem-15.

(8) to 2020/21 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 0.19% 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, 2020

Claim Period (1)	Limited Paid Losses 11/30/20 (2)	Limited Case Reserves 11/30/20 (3)	Limited Reported Incurred Losses 11/30/20 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/20 (5)-(4) (6)	Estimated Outstanding Losses 11/30/20 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/20 (7)X(8) (9)
to 2000/01	\$85,643,826	\$1,908,949	\$87,552,775	\$87,666,000	\$113,225	\$2,022,174	0.99	\$2,011,602
2001/02	8,631,817	0	8,631,817	8,631,817	0	0	0.99	0
2002/03	8,251,638	141,595	8,393,234	8,417,000	23,766	165,361	0.99	164,280
2003/04	8,526,795	1,110,647	9,637,442	9,755,000	117,558	1,228,205	0.99	1,219,210
2004/05	8,617,245	1,146,864	9,764,109	9,897,000	132,891	1,279,755	0.99	1,269,606
2005/06	9,099,088	519,590	9,618,678	9,709,000	90,322	609,912	0.99	604,992
2006/07	11,747,278	177,960	11,925,238	11,973,000	47,762	225,722	0.99	223,809
2007/08	17,150,907	521,400	17,672,307	17,866,000	193,693	715,093	0.99	708,819
2008/09	14,125,631	659,679	14,785,309	15,045,000	259,691	919,370	0.99	910,849
2009/10	12,764,386	1,227,999	13,992,385	14,300,000	307,615	1,535,614	0.99	1,520,764
2010/11	10,780,541	1,210,959	11,991,500	12,300,000	308,500	1,519,459	0.99	1,504,349
2011/12	12,881,589	1,242,225	14,123,814	14,580,000	456,186	1,698,411	0.99	1,681,980
2012/13	10,307,802	2,310,453	12,618,255	13,800,000	1,181,745	3,492,198	0.99	3,460,483
2013/14	12,917,233	2,554,504	15,471,738	16,288,000	816,262	3,370,766	0.99	3,341,149
2014/15	15,024,147	2,493,050	17,517,197	20,000,000	2,482,803	4,975,853	0.99	4,936,013
2015/16	20,118,598	5,975,826	26,094,425	30,100,000	4,005,575	9,981,401	0.99	9,902,522
2016/17	18,970,372	6,778,611	25,748,983	31,800,000	6,051,017	12,829,628	0.99	12,725,469
2017/18	16,853,727	11,478,218	28,331,944	33,000,000	4,668,056	16,146,274	0.99	16,015,108
2018/19	12,424,132	10,767,075	23,191,207	34,000,000	10,808,793	21,575,868	0.99	21,401,451
2019/20	6,823,885	18,426,956	25,250,841	50,000,000	24,749,159	43,176,115	0.99	42,835,632
<b>Total</b>	<b>\$321,660,634</b>	<b>\$70,652,561</b>	<b>\$392,313,195</b>	<b>\$449,127,817</b>	<b>\$56,814,619</b>	<b>\$127,467,179</b>		<b>\$126,438,087</b>

(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 0.19% 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, 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 2000/01	240.0	98.5%	252.0	99.0%	30.0%	\$2,022,174	\$606,652	\$1,415,522	0.99	\$1,408,196
2001/02	228.0	98.1%	240.0	98.5%	21.0%	0	0	0	0.99	0
2002/03	216.0	97.7%	228.0	98.1%	17.3%	165,361	28,589	136,772	0.99	135,976
2003/04	204.0	97.3%	216.0	97.7%	14.7%	1,228,205	180,427	1,047,778	0.99	1,040,928
2004/05	192.0	96.9%	204.0	97.3%	15.4%	1,279,755	197,707	1,082,048	0.99	1,074,123
2005/06	180.0	96.1%	192.0	96.9%	19.7%	609,912	120,109	489,803	0.99	485,919
2006/07	168.0	95.3%	180.0	96.1%	16.3%	225,722	36,891	188,831	0.99	187,308
2007/08	156.0	94.4%	168.0	95.3%	16.8%	715,093	120,308	594,785	0.99	589,743
2008/09	144.0	93.5%	156.0	94.4%	14.3%	919,370	131,277	788,093	0.99	781,178
2009/10	132.0	92.3%	144.0	93.5%	14.5%	1,535,614	222,356	1,313,258	0.99	1,301,086
2010/11	120.0	91.0%	132.0	92.3%	15.1%	1,519,459	229,951	1,289,508	0.99	1,277,038
2011/12	108.0	88.8%	120.0	91.0%	19.7%	1,698,411	335,405	1,363,006	0.99	1,349,452
2012/13	96.0	85.3%	108.0	88.8%	23.3%	3,492,198	813,758	2,678,440	0.99	2,652,527
2013/14	84.0	81.3%	96.0	85.3%	21.7%	3,370,766	732,009	2,638,757	0.99	2,614,793
2014/15	72.0	74.2%	84.0	81.3%	27.4%	4,975,853	1,361,819	3,614,034	0.99	3,582,279
2015/16	60.0	66.9%	72.0	74.2%	22.2%	9,981,401	2,216,763	7,764,638	0.99	7,702,469
2016/17	48.0	59.2%	60.0	66.9%	18.8%	12,829,628	2,418,282	10,411,346	0.99	10,329,069
2017/18	36.0	48.5%	48.0	59.2%	20.7%	16,146,274	3,346,645	12,799,629	0.99	12,695,714
2018/19	24.0	34.7%	36.0	48.5%	21.2%	21,575,868	4,576,051	16,999,817	0.99	16,861,717
2019/20	12.0	15.1%	24.0	34.7%	23.1%	43,176,115	9,955,901	33,220,214	0.99	32,951,665
2020/21	0.0	0.0%	12.0	15.1%	15.1%	33,326,000	5,020,672	28,305,328	0.99	28,082,114
Total						\$160,793,179	\$32,651,572	\$128,141,607		\$127,103,294

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

(7) to 2019/20 is from Exhibit WC-Gov-Indem-11. The amount for 2020/21 is from Exhibit WC-Gov-Indem-10.

(10) is based on a 0.19% 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, 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 2000/01	252.0	99.0%	264.0	99.3%	30.0%	\$1,415,522	\$424,657	\$990,865	0.99	\$985,812
2001/02	240.0	98.5%	252.0	99.0%	30.0%	0	0	0	0.99	0
2002/03	228.0	98.1%	240.0	98.5%	21.0%	136,772	28,703	108,069	0.99	107,504
2003/04	216.0	97.7%	228.0	98.1%	17.3%	1,047,778	181,149	866,629	0.99	861,585
2004/05	204.0	97.3%	216.0	97.7%	14.7%	1,082,048	158,956	923,092	0.99	917,057
2005/06	192.0	96.9%	204.0	97.3%	15.4%	489,803	75,669	414,134	0.99	411,101
2006/07	180.0	96.1%	192.0	96.9%	19.7%	188,831	37,186	151,645	0.99	150,442
2007/08	168.0	95.3%	180.0	96.1%	16.3%	594,785	97,209	497,576	0.99	493,562
2008/09	156.0	94.4%	168.0	95.3%	16.8%	788,093	132,590	655,503	0.99	649,946
2009/10	144.0	93.5%	156.0	94.4%	14.3%	1,313,258	187,521	1,125,737	0.99	1,115,859
2010/11	132.0	92.3%	144.0	93.5%	14.5%	1,289,508	186,720	1,102,788	0.99	1,092,567
2011/12	120.0	91.0%	132.0	92.3%	15.1%	1,363,006	206,274	1,156,732	0.99	1,145,546
2012/13	108.0	88.8%	120.0	91.0%	19.7%	2,678,440	528,942	2,149,498	0.99	2,128,123
2013/14	96.0	85.3%	108.0	88.8%	23.3%	2,638,757	614,888	2,023,869	0.99	2,004,289
2014/15	84.0	81.3%	96.0	85.3%	21.7%	3,614,034	784,838	2,829,196	0.99	2,803,502
2015/16	72.0	74.2%	84.0	81.3%	27.4%	7,764,638	2,125,070	5,639,568	0.99	5,590,016
2016/17	60.0	66.9%	72.0	74.2%	22.2%	10,411,346	2,312,249	8,099,097	0.99	8,034,250
2017/18	48.0	59.2%	60.0	66.9%	18.8%	12,799,629	2,412,627	10,387,002	0.99	10,304,918
2018/19	36.0	48.5%	48.0	59.2%	20.7%	16,999,817	3,523,559	13,476,258	0.99	13,366,850
2019/20	24.0	34.7%	36.0	48.5%	21.2%	33,220,214	7,045,714	26,174,500	0.99	25,961,869
2020/21	12.0	15.1%	24.0	34.7%	23.1%	28,305,328	6,526,873	21,778,455	0.99	21,602,400
2021/22	0.0	0.0%	12.0	15.1%	15.1%	33,826,000	5,095,998	28,730,002	0.99	28,503,440
Total						\$161,967,607	\$32,687,392	\$129,280,215		\$128,230,638

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

(7) to 2020/21 is from Exhibit WC-Gov-Indem-12, (9). The amount for 2021/22 is from Exhibit WC-Gov-Indem-10.

(10) is based on a 0.19% 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, 2022 to November 30, 2023

Claim Period (1)	Months of Development 11/30/22 (2)	Percent Losses Paid (3)	Months of Development 11/30/23 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/22 to 11/30/23 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/22 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/23 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/23 (9)X(10) (11)
to 2000/01	264.0	99.3%	276.0	99.5%	30.0%	\$990,865	\$297,259	\$693,606	1.00	\$690,143
2001/02	252.0	99.0%	264.0	99.3%	30.0%	0	0	0	0.99	0
2002/03	240.0	98.5%	252.0	99.0%	30.0%	108,069	32,421	75,648	0.99	75,256
2003/04	228.0	98.1%	240.0	98.5%	21.0%	866,629	181,874	684,755	0.99	681,175
2004/05	216.0	97.7%	228.0	98.1%	17.3%	923,092	159,592	763,500	0.99	759,056
2005/06	204.0	97.3%	216.0	97.7%	14.7%	414,134	60,838	353,296	0.99	350,986
2006/07	192.0	96.9%	204.0	97.3%	15.4%	151,645	23,427	128,218	0.99	127,279
2007/08	180.0	96.1%	192.0	96.9%	19.7%	497,576	97,987	399,589	0.99	396,420
2008/09	168.0	95.3%	180.0	96.1%	16.3%	655,503	107,133	548,370	0.99	543,947
2009/10	156.0	94.4%	168.0	95.3%	16.8%	1,125,737	189,396	936,341	0.99	928,404
2010/11	144.0	93.5%	156.0	94.4%	14.3%	1,102,788	157,468	945,320	0.99	937,026
2011/12	132.0	92.3%	144.0	93.5%	14.5%	1,156,732	167,494	989,238	0.99	980,070
2012/13	120.0	91.0%	132.0	92.3%	15.1%	2,149,498	325,300	1,824,198	0.99	1,806,557
2013/14	108.0	88.8%	120.0	91.0%	19.7%	2,023,869	399,677	1,624,192	0.99	1,608,041
2014/15	96.0	85.3%	108.0	88.8%	23.3%	2,829,196	659,264	2,169,932	0.99	2,148,939
2015/16	84.0	81.3%	96.0	85.3%	21.7%	5,639,568	1,224,711	4,414,857	0.99	4,374,763
2016/17	72.0	74.2%	84.0	81.3%	27.4%	8,099,097	2,216,606	5,882,491	0.99	5,830,804
2017/18	60.0	66.9%	72.0	74.2%	22.2%	10,387,002	2,306,843	8,080,159	0.99	8,015,464
2018/19	48.0	59.2%	60.0	66.9%	18.8%	13,476,258	2,540,166	10,936,092	0.99	10,849,669
2019/20	36.0	48.5%	48.0	59.2%	20.7%	26,174,500	5,425,200	20,749,300	0.99	20,580,845
2020/21	24.0	34.7%	36.0	48.5%	21.2%	21,778,455	4,619,018	17,159,437	0.99	17,020,040
2021/22	12.0	15.1%	24.0	34.7%	23.1%	28,730,002	6,624,798	22,105,204	0.99	21,926,507
2022/23	0.0	0.0%	12.0	15.1%	15.1%	34,334,000	5,172,530	29,161,470	0.99	28,931,505
<b>Total</b>						<b>\$163,614,215</b>	<b>\$32,989,002</b>	<b>\$130,625,213</b>		<b>\$129,562,896</b>

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

(7) to 2021/22 is from Exhibit WC-Gov-Indem-13. (9). The amount for 2022/23 is from Exhibit WC-Gov-Indem-10.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit WC-Gov-Indem-2.



COOK COUNTY, ILLINOIS  
WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)

Exhibit WC-Gov-Indem-15

Loss Rate and Severity Trend

I. Benefit Level Changes

Effective Date (1)	Benefit Level Change (2)	Cumulative Benefit Level Change (3)
06/28/11	0.989	0.989
07/01/11	1.001	0.990
09/01/11	0.983	0.973
01/15/13	1.001	0.974
07/15/13	1.001	0.975
01/15/14	1.001	0.976
01/15/15	1.002	0.978
07/01/15	1.002	0.980
07/15/15	1.002	0.982
01/15/16	1.002	0.984
07/01/16	1.002	0.986
07/15/16	1.002	0.988
07/01/17	1.001	0.989
07/01/18	1.001	0.990
07/15/18	1.001	0.991

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2020/21 = 1.000) (2)	Residual Trend (2020/21 = 1.000) (3)	Retention Index (2020/21 = 1.000) (4)	Loss Rate Trend (2020/21 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2020/21 = 1.000) (6)	Severity Trend (2020/21 = 1.000) (5)X(6) (7)
2010/11	1.011	1.161	1.000	1.173	1.344	1.577
2011/12	1.018	1.143	1.000	1.164	1.305	1.519
2012/13	1.017	1.126	1.000	1.145	1.267	1.451
2013/14	1.015	1.110	1.000	1.127	1.230	1.386
2014/15	1.012	1.093	1.000	1.106	1.194	1.321
2015/16	1.006	1.077	1.000	1.083	1.159	1.256
2016/17	1.003	1.061	1.000	1.064	1.126	1.198
2017/18	1.001	1.046	1.000	1.047	1.093	1.144
2018/19	1.000	1.030	1.000	1.030	1.061	1.093
2019/20	1.000	1.015	1.000	1.015	1.030	1.045
2020/21	1.000	1.000	1.000	1.000	1.000	1.000
2021/22	1.000	0.985	1.000	0.985	0.971	0.957
2022/23	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 11/30/20 (5)	Unlimited Case Reserves 11/30/20 (6)	Unlimited Reported Incurred Losses 11/30/20 (7)
981246	08/07/98	to 2000/01	Unlimited	\$690,172	\$844,162	\$1,534,333
20040076	12/08/03	2003/04	Unlimited	575,237	842,533	1,417,770
20051189	07/13/05	2004/05	Unlimited	672,616	612,870	1,285,486
20060933	05/07/06	2005/06	Unlimited	626,152	519,590	1,145,742
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	1,437,594	0	1,437,594
20081090	08/01/08	2007/08	Unlimited	1,219,594	0	1,219,594
20090268	02/12/09	2008/09	Unlimited	674,993	461,076	1,136,070
20130939	11/20/13	2012/13	Unlimited	435,088	751,682	1,186,770

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)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	16,515	25	69	8	21	41	16,679		
0.01 - 5,000	8,932	706	823	713	696	646	12,516	12,516	63.6%
5,000 - 10,000	1,387	51	38	42	28	34	1,580	14,096	71.7%
10,000 - 25,000	1,690	77	73	65	57	98	2,060	16,156	82.2%
25,000 - 50,000	997	100	82	98	74	149	1,500	17,656	89.8%
50,000 - 100,000	659	75	72	73	84	161	1,124	18,780	95.5%
100,000 - 250,000	353	58	63	64	68	40	646	19,426	98.8%
250,000 - 500,000	119	13	18	21	9	2	182	19,608	99.7%
500,000 - 750,000	29	3	1	2	0	1	36	19,644	99.9%
750,000 - 1,000,000	12	0	0	0	0	0	12	19,656	99.9%
Over 1,000,000	10	0	0	0	0	0	10	19,666	100.0%
<b>Total</b>	<b>30,703</b>	<b>1,108</b>	<b>1,239</b>	<b>1,086</b>	<b>1,037</b>	<b>1,172</b>	<b>36,345</b>	<b>19,666</b>	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	-\$2,060	\$0	\$0	\$0	\$0	\$0	-\$2,060		
0.01 - 5,000	7,690,635	268,250	353,341	363,594	357,887	398,409	9,432,117	9,432,117	2.4%
5,000 - 10,000	10,209,036	375,548	266,564	315,872	199,347	250,114	11,616,482	21,048,600	5.4%
10,000 - 25,000	27,546,742	1,314,533	1,292,542	1,179,825	985,643	1,731,913	34,051,198	55,099,797	14.0%
25,000 - 50,000	35,121,665	3,521,828	3,121,561	3,576,277	2,778,886	5,605,174	53,725,391	108,825,188	27.7%
50,000 - 100,000	45,524,455	5,172,602	5,118,529	5,091,192	5,650,805	10,667,276	77,224,859	186,050,047	47.4%
100,000 - 250,000	54,786,755	8,924,252	9,356,802	10,170,489	10,529,322	5,467,552	99,235,173	285,285,220	72.7%
250,000 - 500,000	40,494,663	4,756,213	5,674,749	6,454,607	2,689,316	572,441	60,641,988	345,927,208	88.2%
500,000 - 750,000	17,454,728	1,761,198	564,894	1,180,089	0	557,962	21,518,871	367,446,079	93.7%
750,000 - 1,000,000	10,197,096	0	0	0	0	0	10,197,096	377,643,175	96.3%
Over 1,000,000	14,672,080	0	0	0	0	0	14,672,080	392,315,256	100.0%
<b>Total</b>	<b>\$263,695,797</b>	<b>\$26,094,425</b>	<b>\$25,748,983</b>	<b>\$28,331,944</b>	<b>\$23,191,207</b>	<b>\$25,250,841</b>	<b>\$392,313,195</b>	<b>\$392,315,256</b>	

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

Data was provided by the County.

CookCounty\_WC\_Govt\_Indem\_113020.xlsx



COOK COUNTY, ILLINOIS  
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Data Summary as of November 30, 2020  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Payroll (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Limited Paid Losses 11/30/20 (8)	Limited Case Reserves 11/30/20 (9)	Limited Reported Incurred Losses 11/30/20 (10)
to 2000/01	See Note	See Note	240.0	Not Provided	17,485	12	\$31,785,138	\$287,095	\$32,072,234
2001/02	9,500,000	40,000,000	228.0	752,457	1,161	0	4,038,027	0	4,038,027
2002/03	9,500,000	45,000,000	216.0	779,098	1,223	2	4,146,958	29,671	4,176,628
2003/04	Unlimited	None	204.0	810,182	1,218	4	3,802,021	65,338	3,867,358
2004/05	Unlimited	None	192.0	832,363	1,318	4	11,995,155	364,364	12,359,519
2005/06	Unlimited	None	180.0	826,479	1,159	1	4,203,525	0	4,203,525
2006/07	Unlimited	None	168.0	859,906	903	3	4,836,428	70,601	4,907,029
2007/08	Unlimited	None	156.0	914,260	777	5	6,135,006	78,538	6,213,544
2008/09	Unlimited	None	144.0	942,707	767	5	6,471,219	159,542	6,630,761
2009/10	Unlimited	None	132.0	998,250	862	13	6,498,334	178,204	6,676,538
2010/11	Unlimited	None	120.0	928,082	789	13	4,751,319	425,094	5,176,413
2011/12	Unlimited	None	108.0	899,082	783	16	4,398,719	161,342	4,560,061
2012/13	Unlimited	None	96.0	949,338	720	21	4,191,319	390,707	4,582,026
2013/14	Unlimited	None	84.0	988,081	760	41	4,747,172	1,735,905	6,483,077
2014/15	Unlimited	None	72.0	998,567	778	50	5,074,645	1,163,065	6,237,711
2015/16	Unlimited	None	60.0	1,053,931	1,108	95	8,223,706	1,676,028	9,899,735
2016/17	Unlimited	None	48.0	1,075,248	1,239	127	7,964,892	1,931,321	9,896,213
2017/18	Unlimited	None	36.0	1,006,546	1,086	217	6,690,144	5,134,588	11,824,732
2018/19	Unlimited	None	24.0	1,038,161	1,037	247	5,576,416	5,973,456	11,549,873
2019/20	Unlimited	None	12.0	1,053,919	1,172	611	2,239,612	12,740,866	14,980,479
<b>Total</b>					<b>36,345</b>	<b>1,487</b>	<b>\$137,769,755</b>	<b>\$32,565,727</b>	<b>\$170,335,482</b>

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

Effective Date	Retention	Aggregate
12/01/77	Unlimited	None
12/01/00	9,500,000	40,000,000
12/01/03	Unlimited	see column (3)

(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, 2020  
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Payroll (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Net Unlimited Paid Losses 11/30/20 (8)	Net Unlimited Case Reserves 11/30/20 (9)	Net Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	17,485	12	\$31,785,138	\$287,095	\$32,072,234
2001/02	Unlimited	40,000,000	228.0	752,457	1,161	0	4,038,027	0	4,038,027
2002/03	Unlimited	45,000,000	216.0	779,098	1,223	2	4,146,958	29,671	4,176,628
2003/04	Unlimited	None	204.0	810,182	1,218	4	3,802,021	65,338	3,867,358
2004/05	Unlimited	None	192.0	832,363	1,318	4	11,995,155	364,364	12,359,519
2005/06	Unlimited	None	180.0	826,479	1,159	1	4,203,525	0	4,203,525
2006/07	Unlimited	None	168.0	859,906	903	3	4,836,428	70,601	4,907,029
2007/08	Unlimited	None	156.0	914,260	777	5	6,135,006	78,538	6,213,544
2008/09	Unlimited	None	144.0	942,707	767	5	6,471,219	159,542	6,630,761
2009/10	Unlimited	None	132.0	998,250	862	13	6,498,334	178,204	6,676,538
2010/11	Unlimited	None	120.0	928,082	789	13	4,751,319	425,094	5,176,413
2011/12	Unlimited	None	108.0	899,082	783	16	4,398,719	161,342	4,560,061
2012/13	Unlimited	None	96.0	949,338	720	21	4,191,319	390,707	4,582,026
2013/14	Unlimited	None	84.0	988,081	760	41	4,747,172	1,735,905	6,483,077
2014/15	Unlimited	None	72.0	998,567	778	50	5,074,645	1,163,065	6,237,711
2015/16	Unlimited	None	60.0	1,053,931	1,108	95	8,223,706	1,676,028	9,899,735
2016/17	Unlimited	None	48.0	1,075,248	1,239	127	7,964,892	1,931,321	9,896,213
2017/18	Unlimited	None	36.0	1,006,546	1,086	217	6,690,144	5,134,588	11,824,732
2018/19	Unlimited	None	24.0	1,038,161	1,037	247	5,576,416	5,973,456	11,549,873
2019/20	Unlimited	None	12.0	1,053,919	1,172	611	2,239,612	12,740,866	14,980,479
<b>Total</b>					<b>36,345</b>	<b>1,487</b>	<b>\$137,769,755</b>	<b>\$32,565,727</b>	<b>\$170,335,482</b>

(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, 2020  
Gross Unlimited Losses

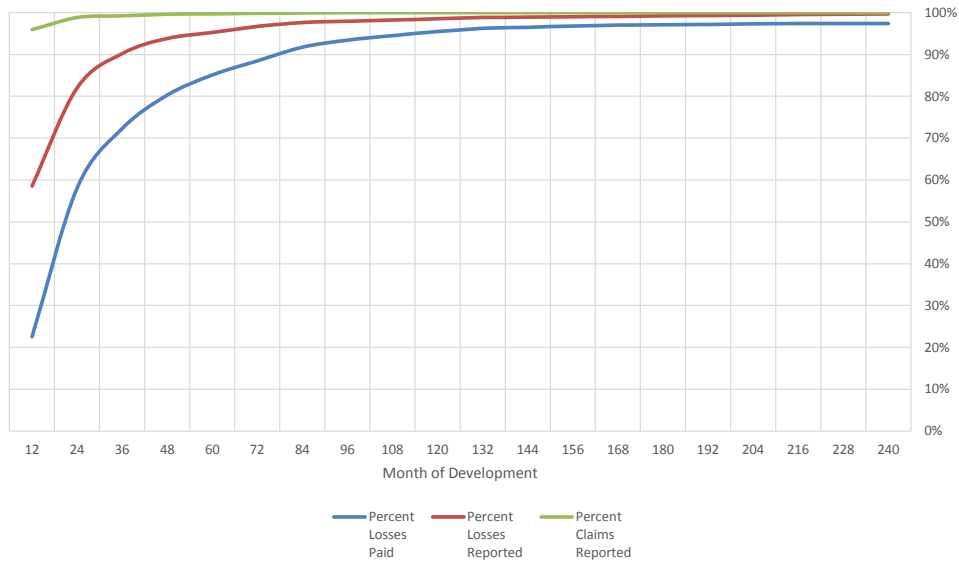
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Payroll (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Gross Unlimited Paid Losses 11/30/20 (8)	Gross Unlimited Case Reserves 11/30/20 (9)	Gross Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	17,485	12	\$32,189,067	\$287,095	\$32,476,163
2001/02	Unlimited	40,000,000	228.0	752,457	1,161	0	4,130,412	0	4,130,412
2002/03	Unlimited	45,000,000	216.0	779,098	1,223	2	4,166,398	29,671	4,196,069
2003/04	Unlimited	None	204.0	810,182	1,218	4	3,893,905	65,338	3,959,243
2004/05	Unlimited	None	192.0	832,363	1,318	4	12,033,703	364,364	12,398,067
2005/06	Unlimited	None	180.0	826,479	1,159	1	4,205,372	0	4,205,372
2006/07	Unlimited	None	168.0	859,906	903	3	4,882,426	70,601	4,953,027
2007/08	Unlimited	None	156.0	914,260	777	5	6,177,884	78,538	6,256,422
2008/09	Unlimited	None	144.0	942,707	767	5	6,488,387	159,542	6,647,929
2009/10	Unlimited	None	132.0	998,250	862	13	6,611,971	178,204	6,790,175
2010/11	Unlimited	None	120.0	928,082	789	13	4,785,469	425,094	5,210,563
2011/12	Unlimited	None	108.0	899,082	783	16	4,475,569	161,342	4,636,911
2012/13	Unlimited	None	96.0	949,338	720	21	4,201,223	390,707	4,591,930
2013/14	Unlimited	None	84.0	988,081	760	41	4,788,339	1,735,905	6,524,244
2014/15	Unlimited	None	72.0	998,567	778	50	5,114,424	1,163,065	6,277,489
2015/16	Unlimited	None	60.0	1,053,931	1,108	95	8,281,820	1,676,028	9,957,849
2016/17	Unlimited	None	48.0	1,075,248	1,239	127	8,001,403	1,931,321	9,932,724
2017/18	Unlimited	None	36.0	1,006,546	1,086	217	6,750,662	5,134,588	11,885,250
2018/19	Unlimited	None	24.0	1,038,161	1,037	247	5,592,226	5,973,456	11,565,682
2019/20	Unlimited	None	12.0	1,053,919	1,172	611	2,239,852	12,740,866	14,980,718
<b>Total</b>					<b>36,345</b>	<b>1,487</b>	<b>\$139,010,512</b>	<b>\$32,565,727</b>	<b>\$171,576,239</b>

(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%	99.7%	100.0%
228.0	97.4%	99.6%	100.0%
216.0	97.4%	99.5%	100.0%
204.0	97.3%	99.4%	100.0%
192.0	97.2%	99.3%	100.0%
180.0	97.1%	99.2%	100.0%
168.0	97.0%	99.1%	100.0%
156.0	96.8%	99.0%	100.0%
144.0	96.5%	98.9%	100.0%
132.0	96.2%	98.8%	100.0%
120.0	95.4%	98.5%	100.0%
108.0	94.5%	98.2%	100.0%
96.0	93.4%	97.9%	100.0%
84.0	91.7%	97.6%	99.9%
72.0	88.5%	96.7%	99.8%
60.0	85.1%	95.2%	99.7%
48.0	80.2%	93.8%	99.6%
36.0	72.3%	90.2%	99.2%
24.0	58.1%	82.0%	98.8%
12.0	22.5%	58.6%	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).



COOK COUNTY, ILLINOIS  
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

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 2000/01													\$35,708	\$35,735	\$35,874	\$36,088	\$35,665	\$35,406	\$35,291	\$35,184	\$32,189
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	4,130		
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	4,166			
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	3,894				
2004/05		5,701	7,315	8,522	9,779	10,801	12,081	12,098	12,107	12,140	12,167	11,670	11,670	11,677	11,679	12,034					
2005/06	1,556	3,288	3,886	3,990	4,074	4,060	4,158	4,166	4,298	4,314	3,984	3,984	3,985	3,985	3,986	4,205					
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	4,882							
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	6,178								
2008/09	1,517	3,587	4,561	5,257	5,476	5,859	6,385	6,069	6,266	6,399	6,469	6,488									
2009/10	1,420	3,831	5,014	5,631	6,071	6,522	6,143	6,204	6,239	6,294	6,612										
2010/11	1,383	3,204	4,162	4,507	4,771	4,476	4,569	4,651	4,683	4,785											
2011/12	985	3,192	4,280	4,798	4,181	4,298	4,454	4,461	4,476												
2012/13	1,044	3,263	4,045	3,589	3,869	3,945	4,154	4,201													
2013/14	1,530	4,276	4,077	4,381	4,442	4,497	4,788														
2014/15	1,801	3,400	4,207	4,622	4,755	5,114															
2015/16	2,195	6,335	7,366	7,922	8,282																
2016/17	2,613	5,872	7,191	8,001																	
2017/18	2,296	5,544	6,751																		
2018/19	2,084	5,592																			
2019/20	2,240																				

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 2000/01													1.001	1.004	1.006	0.988	0.993	0.997	0.997	0.915	
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	1.005			
2002/03				1.032	1.055	1.030	1.011	1.006	1.005	1.004	1.000	1.000	1.000	0.905	1.000	1.000	1.011				
2003/04			1.058	1.069	1.062	1.014	1.005	1.012	0.999	1.011	1.004	0.901	1.000	1.008	1.008	1.021					
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	1.030						
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	1.055							
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	1.037								
2007/08	2.945	1.245	1.235	1.248	1.126	1.047	1.023	0.570	1.010	1.011	1.007	1.011									
2008/09	2.364	1.272	1.153	1.042	1.070	1.090	0.950	1.032	1.021	1.011	1.003										
2009/10	2.698	1.309	1.123	1.078	1.074	0.942	1.010	1.006	1.009	1.050											
2010/11	2.317	1.299	1.083	1.059	0.938	1.021	1.018	1.007	1.022												
2011/12	3.242	1.341	1.121	0.871	1.028	1.036	1.002	1.003													
2012/13	3.126	1.240	0.887	1.078	1.019	1.053	1.011														
2013/14	2.795	0.954	1.075	1.014	1.012	1.065															
2014/15	1.887	1.237	1.099	1.029	1.076																
2015/16	2.886	1.163	1.076	1.045																	
2016/17	2.247	1.225	1.113																		
2017/18	2.415	1.218																			
2018/19	2.683																				
2019/20																					
Average																					
All	2.559	1.224	1.092	1.058	1.042	1.037	1.005	0.972	0.994	1.002	0.997	0.990	0.992	0.996	1.005	1.004	1.003	1.001	0.915		
Wtd 3	2.432	1.200	1.095	1.033	1.037	1.052	1.010	1.005	1.017	1.024	1.004	1.005	1.009	1.013	1.020	1.007	0.998				
Last 3	2.448	1.202	1.096	1.029	1.036	1.051	1.010	1.005	1.017	1.024	1.003	1.004	1.012	1.021	1.013	1.007	1.003				
Last 5	2.448	1.202	1.083	1.029	1.020	1.037	1.008	1.005	1.013	1.007	1.001	1.001	1.000	1.003	1.003						
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	2.575	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	
Selected	2.575	1.245	1.110	1.060	1.040	1.037	1.018	1.012	1.010	1.008	1.003	1.003	1.002	1.001	1.001	1.001	1.001	1.001	1.000	1.000	1.027
Cumulative	4.435	1.722	1.383	1.246	1.176	1.130	1.090	1.071	1.058	1.048	1.039	1.036	1.033	1.031	1.030	1.029	1.028	1.027	1.027	1.027	1.027
Percent	22.5%	58.1%	72.3%	80.2%	85.1%	88.5%	91.7%	93.4%	94.5%	95.4%	96.2%	96.5%	96.8%	97.0%	97.1%	97.2%	97.3%	97.4%	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.

COOK COUNTY, ILLINOIS  
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

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 2000/01													\$38,421	\$37,950	\$37,016	\$36,541	\$36,087	\$35,612	\$35,490	\$35,314	\$32,476
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	4,130	
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	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	3,959	3,959	3,959	3,959	
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	12,398					
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	4,205						
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	4,953							
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	6,256								
2008/09	3,195	4,643	4,930	5,619	5,666	6,115	6,990	6,621	6,773	6,575	6,602	6,648									
2009/10	3,198	4,218	5,291	5,924	6,344	7,192	6,775	6,762	6,520	6,487	6,790										
2010/11	2,330	3,673	4,360	4,739	5,288	4,820	4,872	5,194	5,170	5,118	5,211										
2011/12	2,234	3,794	4,744	5,846	4,792	4,872	4,836	4,744	4,637												
2012/13	2,791	4,957	5,613	4,510	4,726	4,567	4,605	4,592													
2013/14	4,820	7,672	5,891	5,891	5,896	5,550	6,464	6,524													
2014/15	8,228	6,243	6,556	6,338	6,374	6,277															
2015/16	8,185	11,180	10,552	10,394	9,958																
2016/17	10,950	10,649	10,353	9,933																	
2017/18	9,883	11,437	11,885																		
2018/19	11,988	11,566																			
2019/20	14,981																				

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 2000/01													0.988	0.975	0.987	0.988	0.987	0.995	0.920		
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	0.999			
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	1.011				
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	1.015					
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	1.059						
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	1.055							
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	1.034								
2007/08	1.437	1.160	1.032	1.243	1.113	1.043	1.036	0.583	1.008	1.003	0.992	1.003									
2008/09	1.453	1.062	1.140	1.008	1.079	1.143	0.947	1.023	0.971	1.004	1.007										
2009/10	1.319	1.255	1.120	1.071	1.134	0.942	0.998	0.964	0.995	1.047											
2010/11	1.577	1.187	1.087	1.116	0.911	1.077	0.995	0.990	1.018												
2011/12	1.698	1.250	1.232	0.820	1.017	0.993	0.981	0.978													
2012/13	1.776	1.132	0.803	1.048	0.966	1.008	0.997														
2013/14	1.592	0.768	1.001	0.941	1.165	1.009															
2014/15	0.759	1.050	0.967	1.006	0.985																
2015/16	1.366	0.944	0.985	0.958																	
2016/17	0.973	0.972	0.959																		
2017/18	1.157	1.039																			
2018/19	0.965																				
2019/20																					
Average																					
All	1.363	1.065	1.016	1.015	1.013	1.008	0.977	0.967	0.980	1.000	0.995	0.984	0.988	0.995	1.009	1.001	1.003	0.997	0.920		
Wtd 3	1.025	0.986	0.971	0.967	1.040	1.004	0.991	0.976	0.992	1.018	0.999	1.001	1.008	1.014	1.035	1.005	0.998				
Last 3	1.032	0.985	0.970	0.968	1.039	1.004	0.991	0.977	0.995	1.018	0.998	1.000	1.010	1.023	1.020	1.005	1.003				
Last 5	1.032	0.985	0.970	0.968	0.989	1.004	0.991	0.977	0.991	1.004	0.991	1.000	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	1.475	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	
Selected	1.400	1.100	1.040	1.015	1.015	1.010	1.003	1.003	1.003	1.003	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.003	
Cumulative	1.707	1.219	1.108	1.066	1.050	1.035	1.024	1.021	1.018	1.015	1.012	1.011	1.010	1.009	1.008	1.007	1.006	1.005	1.004	1.003	
Percent	58.6%	82.0%	90.2%	93.8%	95.2%	96.7%	97.6%	97.9%	98.2%	98.5%	98.8%	98.9%	99.0%	99.1%	99.2%	99.3%	99.4%	99.5%	99.6%	99.7%	

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 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 2000/01												17,478	17,479	17,480	17,481	17,480	17,482	17,485	17,485	17,485
2001/02					1,160	1,160	1,160	1,160	1,160	1,160	1,159	1,160	1,161	1,161	1,161	1,161	1,161	1,161	1,161	1,161
2002/03				1,220	1,221	1,222	1,222	1,222	1,222	1,222	1,222	1,222	1,223	1,223	1,223	1,223	1,223	1,223	1,223	1,223
2003/04			1,212	1,215	1,215	1,215	1,215	1,215	1,214	1,215	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218
2004/05		1,312	1,313	1,315	1,315	1,316	1,316	1,316	1,316	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318
2005/06	1,153	1,158	1,156	1,156	1,155	1,155	1,155	1,156	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159
2006/07	875	890	892	896	897	897	896	902	902	903	903	903	903	903	903	903	903	903	903	903
2007/08	756	767	767	767	768	768	776	777	777	777	777	777	777	777	777	777	777	777	777	777
2008/09	668	679	755	755	755	766	767	767	767	767	767	767	767	767	767	767	767	767	767	767
2009/10	751	842	843	844	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862
2010/11	768	773	776	788	788	788	789	789	789	789	789	789	789	789	789	789	789	789	789	789
2011/12	757	761	781	783	783	783	783	783	783	783	783	783	783	783	783	783	783	783	783	783
2012/13	703	715	716	719	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720
2013/14	730	752	756	759	760	760	760	760	760	760	760	760	760	760	760	760	760	760	760	760
2014/15	762	768	771	777	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778
2015/16	1,076	1,104	1,107	1,109	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108
2016/17	1,149	1,234	1,238	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239
2017/18	1,069	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086
2018/19	1,020	1,037	1,037	1,037	1,037	1,037	1,037	1,037	1,037	1,037	1,037	1,037	1,037	1,037	1,037	1,037	1,037	1,037	1,037	1,037
2019/20	1,172	1,172	1,172	1,172	1,172	1,172	1,172	1,172	1,172	1,172	1,172	1,172	1,172	1,172	1,172	1,172	1,172	1,172	1,172	1,172

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 2000/01												1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2001/02					1.000	1.000	1.000	1.000	1.000	0.999	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2002/03				1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2003/04			1.002	1.000	1.000	1.000	1.000	0.999	1.001	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2004/05		1.001	1.002	1.000	1.001	1.000	1.000	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005/06	1.004	0.998	1.000	0.999	1.000	1.000	1.001	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2006/07	1.017	1.002	1.004	1.001	1.000	0.999	1.007	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2007/08	1.015	1.000	1.000	1.001	1.000	1.010	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008/09	1.016	1.112	1.000	1.000	1.015	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009/10	1.121	1.001	1.001	1.021	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2010/11	1.007	1.004	1.015	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2011/12	1.005	1.026	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2012/13	1.017	1.001	1.004	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2013/14	1.030	1.005	1.004	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2014/15	1.008	1.004	1.008	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2015/16	1.026	1.003	1.002	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2016/17	1.074	1.003	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
2017/18	1.016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2018/19	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017
2019/20	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017
Average																				
All	1.027	1.012	1.003	1.002	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Wtd 3	1.037	1.002	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 3	1.036	1.002	1.003	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 5	1.020	1.003	1.003	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
x-hi,low																				
Similar	1.131	1.019	1.010	1.007	1.007	1.005	1.005	1.006	1.006	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Previous	1.030	1.004	1.004	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Selected	1.030	1.004	1.004	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Cumulative	1.042	1.012	1.008	1.004	1.003	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Percent	95.9%	98.8%	99.2%	99.6%	99.7%	99.8%	99.9%	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%

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 2000/01													92.9%	94.2%	96.9%	98.8%	98.8%	99.4%	99.4%	99.6%	99.1%
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%	99.4%	100.0%	
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%	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%	98.3%				
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%	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%	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%	98.6%							
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%	98.7%								
2008/09	47.5%	77.2%	92.5%	93.6%	96.6%	95.8%	91.3%	91.7%	92.5%	97.3%	98.0%	97.6%									
2009/10	44.4%	90.8%	94.8%	95.1%	95.7%	90.7%	90.7%	91.7%	95.7%	97.0%	97.4%										
2010/11	59.4%	87.2%	95.5%	95.1%	90.2%	92.9%	88.0%	90.0%	91.5%	91.8%											
2011/12	44.1%	84.1%	90.2%	82.1%	87.3%	88.2%	92.1%	94.0%	96.5%												
2012/13	37.4%	65.8%	72.1%	79.6%	81.9%	86.4%	90.2%	91.5%													
2013/14	31.7%	55.7%	69.2%	74.3%	80.0%	69.6%	73.4%														
2014/15	21.9%	54.5%	64.2%	72.9%	74.6%	81.5%															
2015/16	26.8%	56.7%	69.8%	76.2%	83.2%																
2016/17	23.9%	55.1%	69.5%	80.6%																	
2017/18	23.2%	48.5%	56.8%																		
2018/19	17.4%	48.4%																			
2019/20	15.0%																				
Average																					
All	34.3%	66.0%	76.3%	82.7%	85.3%	88.3%	91.3%	95.4%	96.1%	97.4%	98.2%	97.9%	98.5%	98.9%	99.0%	98.5%	99.1%	99.4%	99.8%	99.1%	
Last 3	18.5%	50.7%	65.4%	76.6%	79.3%	79.1%	85.2%	91.8%	94.6%	95.4%	97.3%	97.8%	98.9%	99.5%	98.9%	98.0%	99.0%	99.4%			
Last 5	21.5%	52.7%	67.6%	76.7%	81.7%	85.4%	89.6%	91.6%	94.6%	96.7%	97.6%	98.5%	98.9%	99.3%	99.5%	98.6%					
x-hi,low																					
Implicit	38.5%	70.8%	80.1%	85.5%	89.3%	91.5%	94.0%	95.4%	96.2%	96.9%	97.4%	97.6%	97.8%	97.9%	97.9%	97.9%	97.9%	97.9%	97.8%	97.7%	
Prior	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%	



COOK COUNTY, ILLINOIS  
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Exhibit WC-Gov-Med-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/20 (2)	Limited Paid Losses 11/30/20 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 2000/01	240.0	\$31,785,138	97.4%	\$32,643,337
2001/02	228.0	4,038,027	97.4%	4,147,053
2002/03	216.0	4,146,958	97.4%	4,258,925
2003/04	204.0	3,802,021	97.3%	3,908,580
2004/05	192.0	11,995,155	97.2%	12,343,674
2005/06	180.0	4,203,525	97.1%	4,329,985
2006/07	168.0	4,836,428	97.0%	4,986,909
2007/08	156.0	6,135,006	96.8%	6,338,543
2008/09	144.0	6,471,219	96.5%	6,705,968
2009/10	132.0	6,498,334	96.2%	6,754,269
2010/11	120.0	4,751,319	95.4%	4,977,956
2011/12	108.0	4,398,719	94.5%	4,654,622
2012/13	96.0	4,191,319	93.4%	4,488,378
2013/14	84.0	4,747,172	91.7%	5,175,133
2014/15	72.0	5,074,645	88.5%	5,736,817
2015/16	60.0	8,223,706	85.1%	9,668,659
2016/17	48.0	7,964,892	80.2%	9,926,231
2017/18	36.0	6,690,144	72.3%	9,254,713
2018/19	24.0	5,576,416	58.1%	9,603,997
2019/20	12.0	2,239,612	22.5%	9,932,233
<b>Total</b>		<b>\$137,769,755</b>		<b>\$159,835,984</b>

(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 11/30/20 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 2000/01	240.0	\$32,072,234	99.7%	\$32,168,450
2001/02	228.0	4,038,027	99.6%	4,054,191
2002/03	216.0	4,176,628	99.5%	4,197,541
2003/04	204.0	3,867,358	99.4%	3,890,609
2004/05	192.0	12,359,519	99.3%	12,446,258
2005/06	180.0	4,203,525	99.2%	4,237,259
2006/07	168.0	4,907,029	99.1%	4,951,354
2007/08	156.0	6,213,544	99.0%	6,275,941
2008/09	144.0	6,630,761	98.9%	6,704,045
2009/10	132.0	6,676,538	98.8%	6,757,079
2010/11	120.0	5,176,413	98.5%	5,254,574
2011/12	108.0	4,560,061	98.2%	4,642,801
2012/13	96.0	4,582,026	97.9%	4,679,161
2013/14	84.0	6,483,077	97.6%	6,640,374
2014/15	72.0	6,237,711	96.7%	6,452,945
2015/16	60.0	9,899,735	95.2%	10,394,948
2016/17	48.0	9,896,213	93.8%	10,547,119
2017/18	36.0	11,824,732	90.2%	13,106,582
2018/19	24.0	11,549,873	82.0%	14,082,120
2019/20	12.0	14,980,479	58.6%	25,570,815
<b>Total</b>		<b>\$170,335,482</b>		<b>\$187,054,168</b>

(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 11/30/20 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/20 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/20 (6)	Limited Case Reserves 11/30/20 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 2000/01	240.0	97.4%	99.7%	88.6%	\$31,785,138	\$287,095	\$32,109,090
2001/02	228.0	97.4%	99.6%	84.8%	4,038,027	0	4,038,027
2002/03	216.0	97.4%	99.5%	81.0%	4,146,958	29,671	4,183,566
2003/04	204.0	97.3%	99.4%	78.1%	3,802,021	65,338	3,885,701
2004/05	192.0	97.2%	99.3%	75.3%	11,995,155	364,364	12,478,928
2005/06	180.0	97.1%	99.2%	72.7%	4,203,525	0	4,203,525
2006/07	168.0	97.0%	99.1%	70.3%	4,836,428	70,601	4,936,809
2007/08	156.0	96.8%	99.0%	69.0%	6,135,006	78,538	6,248,767
2008/09	144.0	96.5%	98.9%	68.8%	6,471,219	159,542	6,703,202
2009/10	132.0	96.2%	98.8%	68.5%	6,498,334	178,204	6,758,319
2010/11	120.0	95.4%	98.5%	67.3%	4,751,319	425,094	5,382,693
2011/12	108.0	94.5%	98.2%	67.6%	4,398,719	161,342	4,637,444
2012/13	96.0	93.4%	97.9%	68.6%	4,191,319	390,707	4,760,577
2013/14	84.0	91.7%	97.6%	71.4%	4,747,172	1,735,905	7,179,938
2014/15	72.0	88.5%	96.7%	71.1%	5,074,645	1,163,065	6,710,395
2015/16	60.0	85.1%	95.2%	68.1%	8,223,706	1,676,028	10,684,018
2016/17	48.0	80.2%	93.8%	68.8%	7,964,892	1,931,321	10,773,399
2017/18	36.0	72.3%	90.2%	64.7%	6,690,144	5,134,588	14,625,358
2018/19	24.0	58.1%	82.0%	57.1%	5,576,416	5,973,456	16,033,987
2019/20	12.0	22.5%	58.6%	46.5%	2,239,612	12,740,866	29,623,658
Total					\$137,769,755	\$32,565,727	\$195,957,400

(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 2019/20

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 2000/01	\$32,643,337	\$32,168,450	\$32,109,090	\$32,168,000
2001/02	4,147,053	4,054,191	4,038,027	4,054,000
2002/03	4,258,925	4,197,541	4,183,566	4,198,000
2003/04	3,908,580	3,890,609	3,885,701	3,891,000
2004/05	12,343,674	12,446,258	12,478,928	12,446,000
2005/06	4,329,985	4,237,259	4,203,525	4,237,000
2006/07	4,986,909	4,951,354	4,936,809	4,951,000
2007/08	6,338,543	6,275,941	6,248,767	6,276,000
2008/09	6,705,968	6,704,045	6,703,202	6,704,000
2009/10	6,754,269	6,757,079	6,758,319	6,757,000
2010/11	4,977,956	5,254,574	5,382,693	5,255,000
2011/12	4,654,622	4,642,801	4,637,444	4,643,000
2012/13	4,488,378	4,679,161	4,760,577	4,679,000
2013/14	5,175,133	6,640,374	7,179,938	6,640,000
2014/15	5,736,817	6,452,945	6,710,395	6,453,000
2015/16	9,668,659	10,394,948	10,684,018	10,395,000
2016/17	9,926,231	10,547,119	10,773,399	10,547,000
2017/18	9,254,713	13,106,582	14,625,358	13,107,000
2018/19	9,603,997	14,082,120	16,033,987	14,082,000
2019/20	9,932,233	25,570,815	29,623,658	25,571,000
<b>Total</b>	<b>\$159,835,984</b>	<b>\$187,054,168</b>	<b>\$195,957,400</b>	<b>\$187,054,000</b>

(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 (2020/21 = 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)
2010/11	\$5,255,000	\$928,082	\$0.57	1.415	\$0.80	\$0.74
2011/12	4,643,000	899,082	0.52	1.510	0.78	0.69
2012/13	4,679,000	949,338	0.49	1.447	0.71	0.72
2013/14	6,640,000	988,081	0.67	1.378	0.93	0.76
2014/15	6,453,000	998,567	0.65	1.310	0.85	0.80
2015/16	10,395,000	1,053,931	0.99	1.255	1.24	0.84
2016/17	10,547,000	1,075,248	0.98	1.200	1.18	0.87
2017/18	13,107,000	1,006,546	1.30	1.142	1.49	0.92
2018/19	14,082,000	1,038,161	1.36	1.083	1.47	0.97
2019/20	25,571,000	1,053,919	2.43	1.040	2.52	1.01

(7) Projected 2020/21 a-priori loss rate per \$100 of Payroll \$1.05

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/20 (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)
2015/16	\$8,223,706	85.1%	\$0.84	\$1,053,931	\$1,315,893	\$9,539,599
2016/17	7,964,892	80.2%	0.87	1,075,248	1,856,605	9,821,497
2017/18	6,690,144	72.3%	0.92	1,006,546	2,561,718	9,251,862
2018/19	5,576,416	58.1%	0.97	1,038,161	4,215,672	9,792,088
2019/20	2,239,612	22.5%	1.01	1,053,919	8,229,733	10,469,345

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/20 (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)
2015/16	\$9,899,735	95.2%	\$0.84	\$1,053,931	\$419,472	\$10,319,207
2016/17	9,896,213	93.8%	0.87	1,075,248	579,877	10,476,089
2017/18	11,824,732	90.2%	0.92	1,006,546	904,124	12,728,856
2018/19	11,549,873	82.0%	0.97	1,038,161	1,807,643	13,357,516
2019/20	14,980,479	58.6%	1.01	1,053,919	4,400,718	19,381,196

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).



COOK COUNTY, ILLINOIS  
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Exhibit WC-Gov-Med-8

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/20 (2)	Reported Claims 11/30/20 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2010/11	120.0	789	100.0%	789	\$928,082	0.85
2011/12	108.0	783	100.0%	783	899,082	0.87
2012/13	96.0	720	100.0%	720	949,338	0.76
2013/14	84.0	760	99.9%	761	988,081	0.77
2014/15	72.0	778	99.8%	780	998,567	0.78
2015/16	60.0	1,108	99.7%	1,111	1,053,931	1.05
2016/17	48.0	1,239	99.6%	1,244	1,075,248	1.16
2017/18	36.0	1,086	99.2%	1,095	1,006,546	1.09
2018/19	24.0	1,037	98.8%	1,050	1,038,161	1.01
2019/20	12.0	1,172	95.9%	1,222	1,053,919	1.16

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2020/21 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2020/21 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2010/11	\$5,255,000	789	\$6,660	1.901	\$12,662	\$6,978	\$5,505,340
2011/12	4,643,000	783	5,930	1.970	11,683	6,733	5,271,938
2012/13	4,679,000	720	6,499	1.833	11,909	7,239	5,211,791
2013/14	6,640,000	761	8,725	1.695	14,791	7,826	5,955,261
2014/15	6,453,000	780	8,273	1.564	12,940	8,481	6,615,108
2015/16	10,395,000	1,111	9,356	1.455	13,613	9,117	10,129,372
2016/17	10,547,000	1,244	8,478	1.350	11,450	9,823	12,219,339
2017/18	13,107,000	1,095	11,970	1.248	14,933	10,633	11,643,464
2018/19	14,082,000	1,050	13,411	1.149	15,407	11,547	12,124,341
2019/20	25,571,000	1,222	20,926	1.071	22,415	12,384	15,132,782
					(7) Projected 2020/21 average claim severity	\$13,265	

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 2019/20

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 2000/01	\$32,643,337	\$32,168,450	\$32,109,090				\$32,106,122	\$32,139,000
2001/02	4,147,053	4,054,191	4,038,027				4,043,000	4,038,027
2002/03	4,258,925	4,197,541	4,183,566				4,133,032	4,190,000
2003/04	3,908,580	3,890,609	3,885,701				3,816,292	3,888,000
2004/05	12,343,674	12,446,258	12,478,928				11,668,000	12,463,000
2005/06	4,329,985	4,237,259	4,203,525				3,985,000	4,220,000
2006/07	4,986,909	4,951,354	4,936,809				4,756,000	4,944,000
2007/08	6,338,543	6,275,941	6,248,767				6,217,000	6,262,000
2008/09	6,705,968	6,704,045	6,703,202				6,609,000	6,704,000
2009/10	6,754,269	6,757,079	6,758,319				6,530,000	6,758,000
2010/11	4,977,956	5,254,574	5,382,693				5,192,000	5,250,000
2011/12	4,654,622	4,642,801	4,637,444				4,737,000	4,640,000
2012/13	4,488,378	4,679,161	4,760,577				4,695,000	4,695,000
2013/14	5,175,133	6,640,374	7,179,938				6,860,000	6,860,000
2014/15	5,736,817	6,452,945	6,710,395				6,679,000	6,582,000
2015/16	9,668,659	10,394,948	10,684,018	9,539,599	10,319,207	10,129,372	10,918,000	10,400,000
2016/17	9,926,231	10,547,119	10,773,399	9,821,497	10,476,089	12,219,339	11,351,000	10,500,000
2017/18	9,254,713	13,106,582	14,625,358	9,251,862	12,728,856	11,643,464	12,933,000	12,700,000
2018/19	9,603,997	14,082,120	16,033,987	9,792,088	13,357,516	12,124,341	14,635,000	13,200,000
2019/20	9,932,233	25,570,815	29,623,658	10,469,345	19,381,196	15,132,782	10,110,000	17,300,000
<b>Total</b>	<b>\$159,835,984</b>	<b>\$187,054,168</b>	<b>\$195,957,400</b>				<b>\$171,973,446</b>	<b>\$177,733,027</b>
2015/16 - 2019/20	48,385,833	73,701,585	81,740,419	48,874,392	66,262,864	61,249,297	59,947,000	64,100,000
to 2014/15	111,450,152	113,352,583	114,216,981				112,026,446	113,633,027
						<b>Change</b>		
						All years		\$5,759,581
						2015/16 - 2019/20		4,153,000
						to 2014/15		1,606,581

(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 2020/21 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 (2020/21 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2010/11	\$5,250,000	\$928,082	\$0.57	1.415	\$0.80
2011/12	4,640,000	899,082	0.52	1.510	0.78
2012/13	4,695,000	949,338	0.49	1.447	0.72
2013/14	6,860,000	988,081	0.69	1.378	0.96
2014/15	6,582,000	998,567	0.66	1.310	0.86
2015/16	10,400,000	1,053,931	0.99	1.255	1.24
2016/17	10,500,000	1,075,248	0.98	1.200	1.17
2017/18	12,700,000	1,006,546	1.26	1.142	1.44
2018/19	13,200,000	1,038,161	1.27	1.083	1.38
2019/20	17,300,000	1,053,919	1.64	1.040	1.71
Total	\$92,127,000	\$9,990,955	\$0.92		\$1.10

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)
2020/21	\$1.07	\$1,021,693	\$10,910,000	0.99	\$1.06	\$10,847,000
2021/22	1.11	1,021,693	11,346,000	0.99	1.10	11,281,000
2022/23	1.15	1,021,693	11,800,000	0.99	1.15	11,733,000

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

(3) was provided by the County.

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

(7) 2020/21 is based on (6) and actuarial judgment.  
Other period(s) based on 2020/21 plus the trend in Exhibit WC-Gov-Med-15.

(8) to 2020/21 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 0.19% 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, 2020

Claim Period (1)	Limited Paid Losses 11/30/20 (2)	Limited Case Reserves 11/30/20 (3)	Limited Reported Incurred Losses 11/30/20 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/20 (5)-(4) (6)	Estimated Outstanding Losses 11/30/20 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/20 (7)X(8) (9)
to 2000/01	\$31,785,138	\$287,095	\$32,072,234	\$32,139,000	\$66,766	\$353,861	0.99	\$352,011
2001/02	4,038,027	0	4,038,027	4,038,027	0	0	0.99	0
2002/03	4,146,958	29,671	4,176,628	4,190,000	13,372	43,043	0.99	42,656
2003/04	3,802,021	65,338	3,867,358	3,888,000	20,642	85,980	0.99	85,075
2004/05	11,995,155	364,364	12,359,519	12,463,000	103,481	467,845	0.99	462,229
2005/06	4,203,525	0	4,203,525	4,220,000	16,475	16,475	0.99	16,253
2006/07	4,836,428	70,601	4,907,029	4,944,000	36,971	107,572	0.99	105,974
2007/08	6,135,006	78,538	6,213,544	6,262,000	48,456	126,994	0.98	124,991
2008/09	6,471,219	159,542	6,630,761	6,704,000	73,239	232,781	0.98	228,996
2009/10	6,498,334	178,204	6,676,538	6,758,000	81,462	259,666	0.98	255,299
2010/11	4,751,319	425,094	5,176,413	5,250,000	73,587	498,681	0.98	490,848
2011/12	4,398,719	161,342	4,560,061	4,640,000	79,939	241,281	0.99	237,730
2012/13	4,191,319	390,707	4,582,026	4,695,000	112,974	503,681	0.99	496,661
2013/14	4,747,172	1,735,905	6,483,077	6,860,000	376,923	2,112,828	0.99	2,085,697
2014/15	5,074,645	1,163,065	6,237,711	6,582,000	344,289	1,507,354	0.99	1,491,059
2015/16	8,223,706	1,676,028	9,899,735	10,400,000	500,265	2,176,293	0.99	2,154,500
2016/17	7,964,892	1,931,321	9,896,213	10,500,000	603,787	2,535,108	0.99	2,511,721
2017/18	6,690,144	5,134,588	11,824,732	12,700,000	875,268	6,009,856	0.99	5,960,636
2018/19	5,576,416	5,973,456	11,549,873	13,200,000	1,650,127	7,623,583	0.99	7,570,398
2019/20	2,239,612	12,740,866	14,980,479	17,300,000	2,319,521	15,060,387	0.99	14,981,590
<b>Total</b>	<b>\$137,769,755</b>	<b>\$32,565,727</b>	<b>\$170,335,482</b>	<b>\$177,733,027</b>	<b>\$7,397,544</b>	<b>\$39,963,269</b>		<b>\$39,654,324</b>

(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 0.19% 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, 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 2000/01	240.0	97.4%	252.0	98.2%	30.0% *	\$353,861	\$106,158	\$247,703	0.99	\$246,421
2001/02	228.0	97.4%	240.0	97.4%	30.0% *	0	0	0	0.99	0
2002/03	216.0	97.4%	228.0	97.4%	30.0% *	43,043	12,913	30,130	0.99	29,916
2003/04	204.0	97.3%	216.0	97.4%	3.6% *	85,980	3,068	82,912	0.99	82,166
2004/05	192.0	97.2%	204.0	97.3%	3.4% *	467,845	16,102	451,743	0.99	446,990
2005/06	180.0	97.1%	192.0	97.2%	3.3% *	16,475	548	15,927	0.99	15,736
2006/07	168.0	97.0%	180.0	97.1%	3.2% *	107,572	3,457	104,115	0.99	102,715
2007/08	156.0	96.8%	168.0	97.0%	6.0% *	126,994	7,656	119,338	0.99	117,565
2008/09	144.0	96.5%	156.0	96.8%	8.3% *	232,781	19,251	213,530	0.98	210,162
2009/10	132.0	96.2%	144.0	96.5%	7.6% *	259,666	19,779	239,887	0.98	235,986
2010/11	120.0	95.4%	132.0	96.2%	16.8% *	498,681	83,637	415,044	0.98	408,064
2011/12	108.0	94.5%	120.0	95.4%	17.2% *	241,281	41,474	199,807	0.98	196,668
2012/13	96.0	93.4%	108.0	94.5%	16.9% *	503,681	85,279	418,402	0.99	412,244
2013/14	84.0	91.7%	96.0	93.4%	20.0% *	2,112,828	421,859	1,690,969	0.99	1,667,400
2014/15	72.0	88.5%	84.0	91.7%	28.4% *	1,507,354	427,417	1,079,937	0.99	1,066,070
2015/16	60.0	85.1%	72.0	88.5%	22.8% *	2,176,293	495,440	1,680,853	0.99	1,662,683
2016/17	48.0	80.2%	60.0	85.1%	24.4% *	2,535,108	617,696	1,917,412	0.99	1,898,211
2017/18	36.0	72.3%	48.0	80.2%	28.7% *	6,009,856	1,724,558	4,285,298	0.99	4,245,766
2018/19	24.0	58.1%	36.0	72.3%	30.0% *	7,623,583	2,287,075	5,336,508	0.99	5,292,803
2019/20	12.0	22.5%	24.0	58.1%	30.0% *	15,060,387	4,518,116	10,542,271	0.99	10,468,724
2020/21	0.0	0.0%	12.0	22.5%	22.5% *	10,910,000	2,460,088	8,449,912	0.99	8,405,702
Total						\$50,873,269	\$13,351,571	\$37,521,698		\$37,211,992

\* - 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-11. The amount for 2020/21 is from Exhibit WC-Gov-Med-10.

(10) is based on a 0.19% 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, 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 2000/01	252.0	98.2%	264.0	98.7%	30.0% *	\$247,703	\$74,311	\$173,392	0.99	\$172,508
2001/02	240.0	97.4%	252.0	98.2%	30.0% *	0	0	0	0.99	0
2002/03	228.0	97.4%	240.0	97.4%	30.0% *	30,130	9,039	21,091	0.99	20,981
2003/04	216.0	97.4%	228.0	97.4%	30.0% *	82,912	24,874	58,038	0.99	57,625
2004/05	204.0	97.3%	216.0	97.4%	3.6% *	451,743	16,118	435,625	0.99	431,706
2005/06	192.0	97.2%	204.0	97.3%	3.4% *	15,927	548	15,379	0.99	15,217
2006/07	180.0	97.1%	192.0	97.2%	3.3% *	104,115	3,461	100,654	0.99	99,446
2007/08	168.0	97.0%	180.0	97.1%	3.2% *	119,338	3,835	115,503	0.99	113,950
2008/09	156.0	96.8%	168.0	97.0%	6.0% *	213,530	12,872	200,658	0.99	197,677
2009/10	144.0	96.5%	156.0	96.8%	8.3% *	239,887	19,839	220,048	0.98	216,577
2010/11	132.0	96.2%	144.0	96.5%	7.6% *	415,044	31,615	383,429	0.98	377,194
2011/12	120.0	95.4%	132.0	96.2%	16.8% *	199,807	33,511	166,296	0.98	163,499
2012/13	108.0	94.5%	120.0	95.4%	17.2% *	418,402	71,919	346,483	0.98	341,040
2013/14	96.0	93.4%	108.0	94.5%	16.9% *	1,690,969	286,302	1,404,667	0.99	1,383,995
2014/15	84.0	91.7%	96.0	93.4%	20.0% *	1,079,937	215,626	864,311	0.99	852,264
2015/16	72.0	88.5%	84.0	91.7%	28.4% *	1,680,853	476,614	1,204,239	0.99	1,188,775
2016/17	60.0	85.1%	72.0	88.5%	22.8% *	1,917,412	436,505	1,480,907	0.99	1,464,898
2017/18	48.0	80.2%	60.0	85.1%	24.4% *	4,285,298	1,044,142	3,241,156	0.99	3,208,699
2018/19	36.0	72.3%	48.0	80.2%	28.7% *	5,336,508	1,531,338	3,805,170	0.99	3,770,067
2019/20	24.0	58.1%	36.0	72.3%	30.0% *	10,542,271	3,162,681	7,379,590	0.99	7,319,152
2020/21	12.0	22.5%	24.0	58.1%	30.0% *	8,449,912	2,534,974	5,914,938	0.99	5,873,673
2021/22	0.0	0.0%	12.0	22.5%	22.5% *	11,346,000	2,558,402	8,787,598	0.99	8,741,621
Total						\$48,867,698	\$12,548,526	\$36,319,172		\$36,010,564

\* - 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-12, (9). The amount for 2021/22 is from Exhibit WC-Gov-Med-10.

(10) is based on a 0.19% 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, 2022 to November 30, 2023

Claim Period (1)	Months of Development 11/30/22 (2)	Percent Losses Paid (3)	Months of Development 11/30/23 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/22 to 11/30/23 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/22 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/23 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/23 (9)X(10) (11)
to 2000/01	264.0	98.7%	276.0	99.1%	30.0% *	\$173,392	\$52,018	\$121,374	1.00	\$120,768
2001/02	252.0	98.2%	264.0	98.7%	30.0% *	0	0	0	0.99	0
2002/03	240.0	97.4%	252.0	98.2%	30.0% *	21,091	6,327	14,764	0.99	14,688
2003/04	228.0	97.4%	240.0	97.4%	30.0% *	58,038	17,411	40,627	0.99	40,415
2004/05	216.0	97.4%	228.0	97.4%	30.0% *	435,625	130,688	304,937	0.99	302,768
2005/06	204.0	97.3%	216.0	97.4%	3.6% *	15,379	549	14,830	0.99	14,697
2006/07	192.0	97.2%	204.0	97.3%	3.4% *	100,654	3,464	97,190	0.99	96,167
2007/08	180.0	97.1%	192.0	97.2%	3.3% *	115,503	3,839	111,664	0.99	110,324
2008/09	168.0	97.0%	180.0	97.1%	3.2% *	200,658	6,449	194,209	0.99	191,597
2009/10	156.0	96.8%	168.0	97.0%	6.0% *	220,048	13,265	206,783	0.99	203,711
2010/11	144.0	96.5%	156.0	96.8%	8.3% *	383,429	31,709	351,720	0.98	346,172
2011/12	132.0	96.2%	144.0	96.5%	7.6% *	166,296	12,667	153,629	0.98	151,131
2012/13	120.0	95.4%	132.0	96.2%	16.8% *	346,483	58,111	288,372	0.98	283,522
2013/14	108.0	94.5%	120.0	95.4%	17.2% *	1,404,667	241,448	1,163,219	0.98	1,144,947
2014/15	96.0	93.4%	108.0	94.5%	16.9% *	864,311	146,338	717,973	0.99	707,407
2015/16	84.0	91.7%	96.0	93.4%	20.0% *	1,204,239	240,445	963,794	0.99	950,361
2016/17	72.0	88.5%	84.0	91.7%	28.4% *	1,480,907	419,918	1,060,989	0.99	1,047,365
2017/18	60.0	85.1%	72.0	88.5%	22.8% *	3,241,156	737,860	2,503,296	0.99	2,476,235
2018/19	48.0	80.2%	60.0	85.1%	24.4% *	3,805,170	927,155	2,878,015	0.99	2,849,195
2019/20	36.0	72.3%	48.0	80.2%	28.7% *	7,379,590	2,117,610	5,261,980	0.99	5,213,438
2020/21	24.0	58.1%	36.0	72.3%	30.0% *	5,914,938	1,774,481	4,140,457	0.99	4,106,547
2021/22	12.0	22.5%	24.0	58.1%	30.0% *	8,787,598	2,636,279	6,151,319	0.99	6,108,405
2022/23	0.0	0.0%	12.0	22.5%	22.5% *	11,800,000	2,660,774	9,139,226	0.99	9,091,409
<b>Total</b>						<b>\$48,119,172</b>	<b>\$12,238,805</b>	<b>\$35,880,367</b>		<b>\$35,571,269</b>

\* - Limited to a maximum of 30% per actuarial judgment.

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

(7) to 2021/22 is from Exhibit WC-Gov-Med-13, (9). The amount for 2022/23 is from Exhibit WC-Gov-Med-10.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit WC-Gov-Med-2.



Loss Rate and Severity Trend

I. Benefit Level Changes

Effective Date (1)	Benefit Level Change (2)	Cumulative Benefit Level Change (3)
01/01/11	1.015	1.015
09/01/11	0.853	0.866
01/01/12	1.015	0.879
11/20/12	0.994	0.874
01/01/13	1.009	0.881
01/01/14	1.008	0.888
07/16/14	1.003	0.891
01/01/15	1.010	0.900
01/01/16	1.003	0.903
01/01/17	1.006	0.908
01/01/18	1.011	0.918
01/01/19	1.014	0.931

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2020/21 = 1.000) (2)	Residual Trend (2020/21 = 1.000) (3)	Retention Index (2020/21 = 1.000) (4)	Loss Rate Trend (2020/21 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2020/21 = 1.000) (6)	Severity Trend (2020/21 = 1.000) (5)X(6) (7)
2010/11	0.956	1.480	1.000	1.415	1.344	1.901
2011/12	1.061	1.423	1.000	1.510	1.305	1.970
2012/13	1.057	1.369	1.000	1.447	1.267	1.833
2013/14	1.047	1.316	1.000	1.378	1.230	1.695
2014/15	1.035	1.265	1.000	1.310	1.194	1.564
2015/16	1.032	1.217	1.000	1.255	1.159	1.455
2016/17	1.026	1.170	1.000	1.200	1.126	1.350
2017/18	1.015	1.125	1.000	1.142	1.093	1.248
2018/19	1.001	1.082	1.000	1.083	1.061	1.149
2019/20	1.000	1.040	1.000	1.040	1.030	1.071
2020/21	1.000	1.000	1.000	1.000	1.000	1.000
2021/22	1.000	0.962	1.000	0.962	0.971	0.934
2022/23	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 11/30/20 (5)	Unlimited Case Reserves 11/30/20 (6)	Unlimited Reported Incurred Losses 11/30/20 (7)
20050352	02/05/05	2004/05	Unlimited	\$6,171,677	\$0	\$6,171,677
20061775	02/05/05	2004/05	Unlimited	1,471,257	0	1,471,257
20140885	08/15/14	2013/14	Unlimited	9,758	1,090,325	1,100,083

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

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



COOK COUNTY, ILLINOIS  
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)

Exhibit WC-Gov-Med-17

Size of Loss Distribution

I. Reported Claim Count

Claim Size (1)	Prior (2)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	17,278	518	638	481	477	412	19,804		
0.01 - 5,000	10,522	320	354	314	302	327	12,139	12,139	73.4%
5,000 - 10,000	1,017	75	76	82	37	31	1,318	13,457	81.4%
10,000 - 25,000	931	93	60	74	75	196	1,429	14,886	90.0%
25,000 - 50,000	505	51	54	64	75	142	891	15,777	95.4%
50,000 - 100,000	267	37	35	50	51	53	493	16,270	98.4%
100,000 - 250,000	155	11	22	18	18	8	232	16,502	99.8%
250,000 - 500,000	19	3	0	3	2	3	30	16,532	99.9%
500,000 - 750,000	6	0	0	0	0	0	6	16,538	100.0%
750,000 - 1,000,000	0	0	0	0	0	0	0	16,538	100.0%
Over 1,000,000	3	0	0	0	0	0	3	16,541	100.0%
<b>Total</b>	<b>30,703</b>	<b>1,108</b>	<b>1,239</b>	<b>1,086</b>	<b>1,037</b>	<b>1,172</b>	<b>36,345</b>	<b>16,541</b>	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	-\$30,726	\$0	\$0	\$0	\$0	\$0	-\$30,726		
0.01 - 5,000	10,890,654	468,848	514,602	481,014	447,842	466,351	13,269,312	13,269,312	7.8%
5,000 - 10,000	7,145,607	553,144	548,854	611,564	276,280	250,535	9,385,985	22,655,296	13.3%
10,000 - 25,000	15,134,566	1,569,092	1,044,984	1,269,393	1,364,835	3,628,707	24,011,577	46,666,873	27.4%
25,000 - 50,000	17,642,856	1,841,996	2,009,246	2,420,455	2,803,210	4,971,802	31,689,565	78,356,439	46.0%
50,000 - 100,000	18,392,812	2,862,996	2,334,816	3,517,397	3,655,141	3,629,296	34,392,458	112,748,897	66.2%
100,000 - 250,000	24,235,020	1,719,739	3,443,710	2,665,618	2,381,911	981,288	35,427,286	148,176,182	87.0%
250,000 - 500,000	6,424,576	883,920	0	859,289	620,654	1,052,500	9,840,940	158,017,123	92.8%
500,000 - 750,000	3,606,068	0	0	0	0	0	3,606,068	161,623,191	94.9%
750,000 - 1,000,000	0	0	0	0	0	0	0	161,623,191	94.9%
Over 1,000,000	8,743,018	0	0	0	0	0	8,743,018	170,366,209	100.0%
<b>Total</b>	<b>\$112,184,452</b>	<b>\$9,899,735</b>	<b>\$9,896,213</b>	<b>\$11,824,732</b>	<b>\$11,549,873</b>	<b>\$14,980,479</b>	<b>\$170,335,482</b>	<b>\$170,366,209</b>	

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

Data was provided by the County.

CookCounty\_WC\_Govt\_Med\_113020.xlsx



COOK COUNTY, ILLINOIS  
GENERAL LIABILITY

Data Summary as of November 30, 2020  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Revenue (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Limited Paid Losses 11/30/20 (8)	Limited Case Reserves 11/30/20 (9)	Limited Reported Incurred Losses 11/30/20 (10)
to 2000/01	See Note	See Note	240.0	Not Provided	969	0	\$6,387,749	\$0	\$6,387,749
2001/02	9,500,000	40,000,000	228.0	1,057,079	107	0	264,864	0	264,864
2002/03	9,500,000	45,000,000	216.0	1,086,728	74	0	431,980	0	431,980
2003/04	10,000,000	None	204.0	1,199,434	76	0	40,287	0	40,287
2004/05	10,000,000	25,000,000	192.0	1,189,789	104	0	236,472	0	236,472
2005/06	10,000,000	25,000,000	180.0	1,357,723	85	0	151,662	0	151,662
2006/07	10,000,000	None	168.0	1,243,144	82	0	111,956	0	111,956
2007/08	10,000,000	None	156.0	1,207,801	246	0	538,122	0	538,122
2008/09	10,000,000	None	144.0	1,303,812	204	0	195,329	0	195,329
2009/10	10,000,000	None	132.0	1,287,986	101	0	325,332	0	325,332
2010/11	10,000,000	None	120.0	1,293,078	121	0	153,831	0	153,831
2011/12	10,000,000	None	108.0	1,331,769	74	0	146,905	0	146,905
2012/13	15,000,000	None	96.0	1,285,791	119	0	369,930	0	369,930
2013/14	15,000,000	None	84.0	1,362,902	291	0	259,375	0	259,375
2014/15	15,000,000	None	72.0	1,509,150	104	0	373,224	0	373,224
2015/16	15,000,000	None	60.0	1,699,156	85	2	158,465	150,000	308,465
2016/17	15,000,000	None	48.0	1,753,287	107	5	379,497	114,900	494,397
2017/18	20,000,000	None	36.0	1,675,248	124	92	146,521	819,094	965,616
2018/19	20,000,000	None	24.0	1,719,805	194	112	81,486	490,132	571,617
2019/20	30,000,000	None	12.0	Not Provided	53	1	39,687	500	40,187
<b>Total</b>					<b>3,320</b>	<b>212</b>	<b>\$10,792,672</b>	<b>\$1,574,626</b>	<b>\$12,367,298</b>

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

Effective Date	Retention	Aggregate
12/01/90	Unlimited	None
12/01/00	9,500,000	40,000,000
12/01/03	10,000,000	see column (3)
03/01/13	15,000,000	see column (3)
07/01/18	20,000,000	see column (3)
07/01/20	30,000,000	see column (3)

(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, 2020  
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Revenue (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Net Unlimited Paid Losses 11/30/20 (8)	Net Unlimited Case Reserves 11/30/20 (9)	Net Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	969	0	\$6,387,749	\$0	\$6,387,749
2001/02	Unlimited	40,000,000	228.0	1,057,079	107	0	264,864	0	264,864
2002/03	Unlimited	45,000,000	216.0	1,086,728	74	0	431,980	0	431,980
2003/04	Unlimited	None	204.0	1,199,434	76	0	40,287	0	40,287
2004/05	Unlimited	25,000,000	192.0	1,189,789	104	0	236,472	0	236,472
2005/06	Unlimited	25,000,000	180.0	1,357,723	85	0	151,662	0	151,662
2006/07	Unlimited	None	168.0	1,243,144	82	0	111,956	0	111,956
2007/08	Unlimited	None	156.0	1,207,801	246	0	538,122	0	538,122
2008/09	Unlimited	None	144.0	1,303,812	204	0	195,329	0	195,329
2009/10	Unlimited	None	132.0	1,287,986	101	0	325,332	0	325,332
2010/11	Unlimited	None	120.0	1,293,078	121	0	153,831	0	153,831
2011/12	Unlimited	None	108.0	1,331,769	74	0	146,905	0	146,905
2012/13	Unlimited	None	96.0	1,285,791	119	0	369,930	0	369,930
2013/14	Unlimited	None	84.0	1,362,902	291	0	259,375	0	259,375
2014/15	Unlimited	None	72.0	1,509,150	104	0	373,224	0	373,224
2015/16	Unlimited	None	60.0	1,699,156	85	2	158,465	150,000	308,465
2016/17	Unlimited	None	48.0	1,753,287	107	5	379,497	114,900	494,397
2017/18	Unlimited	None	36.0	1,675,248	124	92	146,521	819,094	965,616
2018/19	Unlimited	None	24.0	1,719,805	194	112	81,486	490,132	571,617
2019/20	Unlimited	None	12.0	Not Provided	53	1	39,687	500	40,187
<b>Total</b>					<b>3,320</b>	<b>212</b>	<b>\$10,792,672</b>	<b>\$1,574,626</b>	<b>\$12,367,298</b>

(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, 2020  
Gross Unlimited Losses

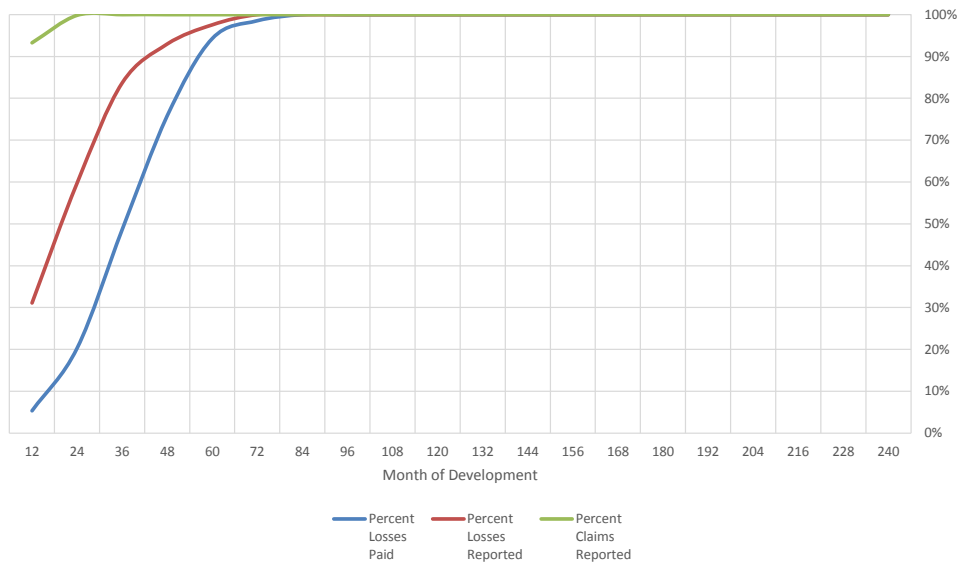
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Revenue (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Gross Unlimited Paid Losses 11/30/20 (8)	Gross Unlimited Case Reserves 11/30/20 (9)	Gross Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	969	0	\$6,387,749	\$0	\$6,387,749
2001/02	Unlimited	40,000,000	228.0	1,057,079	107	0	264,864	0	264,864
2002/03	Unlimited	45,000,000	216.0	1,086,728	74	0	431,980	0	431,980
2003/04	Unlimited	None	204.0	1,199,434	76	0	40,287	0	40,287
2004/05	Unlimited	25,000,000	192.0	1,189,789	104	0	236,472	0	236,472
2005/06	Unlimited	25,000,000	180.0	1,357,723	85	0	151,662	0	151,662
2006/07	Unlimited	None	168.0	1,243,144	82	0	111,956	0	111,956
2007/08	Unlimited	None	156.0	1,207,801	246	0	538,122	0	538,122
2008/09	Unlimited	None	144.0	1,303,812	204	0	195,329	0	195,329
2009/10	Unlimited	None	132.0	1,287,986	101	0	325,332	0	325,332
2010/11	Unlimited	None	120.0	1,293,078	121	0	153,831	0	153,831
2011/12	Unlimited	None	108.0	1,331,769	74	0	146,905	0	146,905
2012/13	Unlimited	None	96.0	1,285,791	119	0	369,930	0	369,930
2013/14	Unlimited	None	84.0	1,362,902	291	0	259,375	0	259,375
2014/15	Unlimited	None	72.0	1,509,150	104	0	373,224	0	373,224
2015/16	Unlimited	None	60.0	1,699,156	85	2	158,465	150,000	308,465
2016/17	Unlimited	None	48.0	1,753,287	107	5	379,497	114,900	494,397
2017/18	Unlimited	None	36.0	1,675,248	124	92	146,521	828,396	965,616
2018/19	Unlimited	None	24.0	1,719,805	194	112	80,850	498,172	571,617
2019/20	Unlimited	None	12.0	Not Provided	53	1	39,687	500	40,187
<b>Total</b>					<b>3,320</b>	<b>212</b>	<b>\$10,792,036</b>	<b>\$1,591,968</b>	<b>\$12,367,298</b>

(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	75.7%	92.9%	100.0%
36.0	48.7%	83.7%	100.0%
24.0	20.3%	59.8%	99.8%
12.0	5.3%	31.1%	93.3%



(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 2000/01																				\$6,387	\$6,388
2001/02	13	20	93	93	93	243	243	243	243	243	243	243	243	243	243	252	252	265	265		
2002/03	1	10	20	24	429	429	429	429	429	429	429	429	429	429	419	419	432	432			
2003/04	5	18	22	22	35	35	35	35	35	35	35	35	35	30	30	40	40				
2004/05	10	24	61	222	222	222	222	222	222	222	222	222	222	222	236	236					
2005/06	4	41	74	164	164	164	170	170	170	170	170	138	138	152	152						
2006/07	21	38	99	118	118	118	118	118	118	98	98	98	112								
2007/08	37	69	81	128	398	402	447	447	486	486	538	538									
2008/09	15	40	47	47	152	152	152	152	153	195	195										
2009/10	19	27	119	205	313	313	311	311	325	325											
2010/11	13	20	24	139	139	139	139	154	154												
2011/12	20	24	39	90	140	140	140	147	147												
2012/13	303	314	315	356	356	356	370	370													
2013/14	24	80	98	212	214	259															
2014/15	9	27	338	353	373	373															
2015/16	12	104	116	158	158																
2016/17	3	21	74	379																	
2017/18	15	145	147																		
2018/19	62	81																			
2019/20	40																				

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 2000/01																				1.000	
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	1.000			
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	1.000				
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	1.000					
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	1.000							
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	1.000							
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	1.000								
2007/08	1.851	1.173	1.590	3.101	1.009	1.112	1.000	1.000	1.088	1.000	1.107	1.000									
2008/09	2.643	1.180	1.000	3.229	1.000	1.000	1.000	1.008	1.000	1.274	1.000										
2009/10	1.443	4.407	1.720	1.000	1.527	1.000	0.994	1.000	1.046	1.000											
2010/11	1.534	1.200	5.761	1.000	1.000	1.000	1.000	1.110	1.000												
2011/12	1.204	1.622	2.301	1.555	1.000	1.000	1.049	1.000													
2012/13	1.038	1.003	1.131	1.000	1.000	1.038	1.000														
2013/14	3.276	1.225	1.225	1.011	1.213	1.000															
2014/15	2.893	12.701	1.044	1.057	1.000																
2015/16	8.979	1.119	1.363	1.000																	
2016/17	7.834	3.568	5.111																		
2017/18	9.341	1.014																			
2018/19	1.321																				
2019/20																					
Average																					
All	4.028	2.655	2.089	2.490	1.169	1.015	1.004	1.011	1.013	1.012	0.990	1.020	0.990	1.009	1.101	1.010	1.025	1.000	1.000		
Wtd 3	3.093	1.252	1.686	1.031	1.048	1.018	1.011	1.026	1.023	1.044	1.067	1.018	1.029	1.036	1.016	1.018					
Last 3	6.166	1.900	2.506	1.023	1.071	1.013	1.016	1.037	1.015	1.091	1.036	1.048	1.033	1.022	1.121	1.010					
Last 5	6.569	1.971	1.552	1.023	1.000	1.000	1.000	1.003	1.015	1.000	1.000	1.000	1.000	1.000							
x-hi,low																					
Similar	2.750	1.750	1.450	1.245	1.135	1.080	1.060	1.033	1.025	1.017	1.013	1.010	1.007	1.006	1.004	1.003	1.002	1.002	1.005		
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	
Selected	3.800	2.400	1.555	1.245	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	
Cumulative	18.727	4.928	2.053	1.321	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	
Percent	5.3%	20.3%	48.7%	75.7%	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%	

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 2000/01																				\$6,387	\$6,388
2001/02	320	270	1,108	1,613	761	443	303	303	303	243	243	243	243	243	243	252	252	265	265		
2002/03	125	1,626	12,779	12,979	439	429	429	429	429	429	429	429	429	429	419	419	432	432			
2003/04	641	327	337	982	55	35	35	35	35	35	35	35	35	30	30	40	40				
2004/05	488	751	411	267	222	222	222	222	222	222	222	222	222	236	236	236					
2005/06	200	527	421	214	184	176	170	170	170	170	170	170	138	138	152	152					
2006/07	412	421	317	133	133	118	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	152	153	195	195										
2009/10	117	211	332	310	305	313	313	311	311	325	325										
2010/11	68	219	59	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	370													
2013/14	135	223	258	242	214	259															
2014/15	84	411	364	353	373	373															
2015/16	113	236	196	308	308																
2016/17	71	186	244	494																	
2017/18	196	814	966																		
2018/19	195	572																			
2019/20	40																				

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 2000/01																					1.000
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	1.000			
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	1.000				
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	1.000					
2004/05	1.540	0.547	0.650	0.832	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.998	1.000	1.065	1.000						
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	1.000							
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	1.000								
2007/08	3.239	0.831	0.855	1.000	1.129	0.873	1.000	1.000	1.088	1.000	1.107	1.000									
2008/09	0.756	0.550	0.672	3.229	1.000	1.000	1.000	1.008	1.000	1.274	1.000										
2009/10	1.805	1.575	0.935	0.984	1.026	1.000	0.994	1.000	1.046	1.000											
2010/11	3.222	0.269	2.346	1.000	1.000	1.000	1.000	1.110	1.000												
2011/12	1.234	1.567	0.998	0.430	0.824	1.000	1.049	1.000													
2012/13	1.070	0.936	0.929	1.000	1.000	1.038	1.000														
2013/14	1.658	1.156	0.939	0.883	1.213	1.000															
2014/15	4.905	0.886	0.969	1.057	1.000																
2015/16	2.101	0.830	1.572	1.000																	
2016/17	2.627	1.314	2.025																		
2017/18	4.160	1.187																			
2018/19	2.938																				
2019/20																					
Average																					
All	2.738	1.541	1.200	0.922	0.945	0.966	1.004	1.011	0.994	1.012	0.990	1.020	0.990	1.009	1.101	1.010	1.025	1.000	1.000		
Wtd 3	3.409	1.138	1.437	0.991	1.048	1.018	1.011	1.026	1.023	1.044	1.067	1.018	1.029	1.036	1.016	1.018					
Last 3	3.241	1.110	1.522	0.980	1.071	1.013	1.016	1.037	1.015	1.091	1.036	1.048	1.033	1.022	1.121	1.010					
Last 5	3.241	1.076	1.160	0.961	1.000	1.000	1.000	1.003	1.015	1.000	1.000	1.000	1.000	1.000							
x-hi,low																					
Similar	1.950	1.400	1.240	1.125	1.070	1.045	1.030	1.015	1.007	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	1.000
Selected	1.925	1.400	1.110	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	1.000
Cumulative	3.220	1.672	1.195	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	1.000
Percent	31.1%	59.8%	83.7%	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%	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 2000/01																				969	969
2001/02	46	34	33	33	33	33	33	33	33	33	33	33	33	33	33	107	107	107	107		
2002/03	32	34	34	34	34	34	34	34	34	34	34	34	34	34	74	74	74	74			
2003/04	34	34	34	34	34	34	34	34	34	34	34	34	34	76	76	76	76				
2004/05	65	65	65	65	65	65	65	65	65	65	65	65	104	104	104	104					
2005/06	40	40	40	40	40	40	40	40	40	40	40	85	85	85	85						
2006/07	49	49	49	49	49	49	49	49	49	49	82	82	82	82							
2007/08	212	212	212	212	212	212	212	212	212	246	246	246	246								
2008/09	142	142	142	142	142	142	142	142	204	204	204	204									
2009/10	68	68	68	68	68	68	68	101	101	101	101										
2010/11	48	48	48	48	48	48	121	121	121	121											
2011/12	52	52	52	52	52	74	74	74	74												
2012/13	68	68	68	68	119	119	119	119													
2013/14	222	222	222	291	291	291	291														
2014/15	41	41	104	104	104	104															
2015/16	30	83	84	85	85																
2016/17	79	103	107	107																	
2017/18	105	125	124																		
2018/19	177	194																			
2019/20	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 2000/01																				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	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	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	2.235	1.000	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	1.600	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	2.125	1.000	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	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	1.000									
2008/09	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.437	1.000	1.000	1.000										
2009/10	1.000	1.000	1.000	1.000	1.000	1.000	1.485	1.000	1.000	1.000											
2010/11	1.000	1.000	1.000	1.000	1.000	2.521	1.000	1.000	1.000												
2011/12	1.000	1.000	1.000	1.000	1.423	1.000	1.000	1.000													
2012/13	1.000	1.000	1.000	1.750	1.000	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	1.000																
2015/16	2.767	1.012	1.012	1.000																	
2016/17	1.304	1.039	1.000																		
2017/18	1.190	0.992																			
2018/19	1.096																				
2019/20																					
Average																					
All	1.120	1.091	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	1.000	1.000	1.000	1.000	1.000	
Wtd 3	1.169	1.013	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
Last 3	1.197	1.014	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
Last 5	1.197	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	1.000	1.001
Previous	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	1.000
Selected	1.070	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	1.000
Cumulative	1.072	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	1.000
Percent	93.3%	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%	100.0%

Data was provided by the County.

COOK COUNTY, ILLINOIS  
GENERAL LIABILITY

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 2000/01																				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%	51.4%																
2016/17	3.8%	11.2%	30.4%	76.8%																	
2017/18	7.9%	17.8%	15.2%																		
2018/19	31.7%	14.3%																			
2019/20	98.8%																				
<b>Average</b>																					
All	18.3%	17.4%	33.2%	61.8%	82.7%	94.7%	98.5%	98.3%	98.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 3	46.1%	14.4%	34.9%	76.0%	83.8%	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%
Last 5	16.6%	14.4%	42.5%	88.1%	94.1%	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%
x-hi,low																					
Implicit	17.2%	33.9%	58.2%	81.5%	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 11/30/20 (2)	Limited Paid Losses 11/30/20 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 2000/01	240.0	\$6,387,749	100.0%	\$6,387,749
2001/02	228.0	264,864	100.0%	264,864
2002/03	216.0	431,980	100.0%	431,980
2003/04	204.0	40,287	100.0%	40,287
2004/05	192.0	236,472	100.0%	236,472
2005/06	180.0	151,662	100.0%	151,662
2006/07	168.0	111,956	100.0%	111,956
2007/08	156.0	538,122	100.0%	538,122
2008/09	144.0	195,329	100.0%	195,329
2009/10	132.0	325,332	100.0%	325,332
2010/11	120.0	153,831	100.0%	153,831
2011/12	108.0	146,905	100.0%	146,905
2012/13	96.0	369,930	100.0%	369,930
2013/14	84.0	259,375	100.0%	259,375
2014/15	72.0	373,224	98.5%	378,822
2015/16	60.0	158,465	94.3%	168,079
2016/17	48.0	379,497	75.7%	501,141
2017/18	36.0	146,521	48.7%	300,873
2018/19	24.0	81,486	20.3%	401,582
2019/20	12.0	39,687	5.3%	743,233
<b>Total</b>		<b>\$10,792,672</b>		<b>\$12,107,523</b>

(3) is from Exhibit GL-1.

(4) is from Exhibit GL-2.

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/20 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 2000/01	240.0	\$6,387,749	100.0%	\$6,387,749
2001/02	228.0	264,864	100.0%	264,864
2002/03	216.0	431,980	100.0%	431,980
2003/04	204.0	40,287	100.0%	40,287
2004/05	192.0	236,472	100.0%	236,472
2005/06	180.0	151,662	100.0%	151,662
2006/07	168.0	111,956	100.0%	111,956
2007/08	156.0	538,122	100.0%	538,122
2008/09	144.0	195,329	100.0%	195,329
2009/10	132.0	325,332	100.0%	325,332
2010/11	120.0	153,831	100.0%	153,831
2011/12	108.0	146,905	100.0%	146,905
2012/13	96.0	369,930	100.0%	369,930
2013/14	84.0	259,375	100.0%	259,375
2014/15	72.0	373,224	100.0%	373,224
2015/16	60.0	308,465	97.6%	316,176
2016/17	48.0	494,397	92.9%	532,095
2017/18	36.0	965,616	83.7%	1,153,561
2018/19	24.0	571,617	59.8%	956,025
2019/20	12.0	40,187	31.1%	129,384
<b>Total</b>		<b>\$12,367,298</b>		<b>\$13,074,258</b>

(3) is from Exhibit GL-1.

(4) is from Exhibit GL-2.

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/20 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/20 (6)	Limited Case Reserves 11/30/20 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 2000/01	240.0	100.0%	100.0%	100.0%	\$6,387,749	\$0	\$6,387,749
2001/02	228.0	100.0%	100.0%	100.0%	264,864	0	264,864
2002/03	216.0	100.0%	100.0%	100.0%	431,980	0	431,980
2003/04	204.0	100.0%	100.0%	100.0%	40,287	0	40,287
2004/05	192.0	100.0%	100.0%	100.0%	236,472	0	236,472
2005/06	180.0	100.0%	100.0%	100.0%	151,662	0	151,662
2006/07	168.0	100.0%	100.0%	100.0%	111,956	0	111,956
2007/08	156.0	100.0%	100.0%	100.0%	538,122	0	538,122
2008/09	144.0	100.0%	100.0%	100.0%	195,329	0	195,329
2009/10	132.0	100.0%	100.0%	100.0%	325,332	0	325,332
2010/11	120.0	100.0%	100.0%	100.0%	153,831	0	153,831
2011/12	108.0	100.0%	100.0%	100.0%	146,905	0	146,905
2012/13	96.0	100.0%	100.0%	100.0%	369,930	0	369,930
2013/14	84.0	100.0%	100.0%	100.0%	259,375	0	259,375
2014/15	72.0	98.5%	100.0%	100.0%	373,224	0	373,224
2015/16	60.0	94.3%	97.6%	57.4%	158,465	150,000	419,958
2016/17	48.0	75.7%	92.9%	70.8%	379,497	114,900	541,756
2017/18	36.0	48.7%	83.7%	68.2%	146,521	819,094	1,346,812
2018/19	24.0	20.3%	59.8%	49.6%	81,486	490,132	1,070,548
2019/20	12.0	5.3%	31.1%	27.2%	39,687	500	41,527
<b>Total</b>					<b>\$10,792,672</b>	<b>\$1,574,626</b>	<b>\$13,407,619</b>

(3) and (4) are from Exhibit GL-2.

(6) and (7) are from Exhibit GL-1.

Preliminary Projected Ultimate Limited Losses to 2019/20

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 2000/01	\$6,387,749	\$6,387,749	\$6,387,749	\$6,387,749
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	259,375	259,375	259,375	259,375
2014/15	378,822	373,224	373,224	373,224
2015/16	168,079	316,176	419,958	316,000
2016/17	501,141	532,095	541,756	537,000
2017/18	300,873	1,153,561	1,346,812	1,154,000
2018/19	401,582	956,025	1,070,548	956,000
2019/20	743,233	129,384	41,527	305,000
<b>Total</b>	<b>\$12,107,523</b>	<b>\$13,074,258</b>	<b>\$13,407,619</b>	<b>\$13,255,017</b>

(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 (2020/21 = 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)
2010/11	\$153,831	\$1,293,078	\$0.12	1.480	\$0.18	\$0.21
2011/12	146,905	1,331,769	0.11	1.423	0.16	0.22
2012/13	369,930	1,285,791	0.29	1.369	0.39	0.23
2013/14	259,375	1,362,902	0.19	1.316	0.25	0.24
2014/15	373,224	1,509,150	0.25	1.265	0.31	0.25
2015/16	316,000	1,699,156	0.19	1.217	0.23	0.26
2016/17	537,000	1,753,287	0.31	1.170	0.36	0.27
2017/18	1,154,000	1,675,248	0.69	1.125	0.77	0.28
2018/19	956,000	1,719,805	0.56	1.082	0.60	0.29
2019/20	305,000	1,719,805	0.18	1.040	0.18	0.30

(7) Projected 2020/21 a-priori loss rate per \$1,000 of Revenue \$0.31

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/20 (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)
2015/16	\$158,465	94.3%	\$0.26	\$1,699,156	\$25,000	\$183,465
2016/17	379,497	75.7%	0.27	1,753,287	113,841	493,338
2017/18	146,521	48.7%	0.28	1,675,248	239,087	385,608
2018/19	81,486	20.3%	0.29	1,719,805	396,614	478,100
2019/20	39,687	5.3%	0.30	1,719,805	489,849	529,536

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/20 (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)
2015/16	\$308,465	97.6%	\$0.26	\$1,699,156	\$10,659	\$319,124
2016/17	494,397	92.9%	0.27	1,753,287	33,227	527,624
2017/18	965,616	83.7%	0.28	1,675,248	75,931	1,041,547
2018/19	571,617	59.8%	0.29	1,719,805	200,071	771,689
2019/20	40,187	31.1%	0.30	1,719,805	356,751	396,937

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 11/30/20 (2)	Reported Claims 11/30/20 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Revenue (000) (6)	Frequency (per \$1M of Revenue) (5)/(6)X1,000 (7)
2010/11	120.0	121	100.0%	121	\$1,293,078	0.09
2011/12	108.0	74	100.0%	74	1,331,769	0.06
2012/13	96.0	119	100.0%	119	1,285,791	0.09
2013/14	84.0	291	100.0%	291	1,362,902	0.21
2014/15	72.0	104	100.0%	104	1,509,150	0.07
2015/16	60.0	85	100.0%	85	1,699,156	0.05
2016/17	48.0	107	100.0%	107	1,753,287	0.06
2017/18	36.0	124	100.0%	124	1,675,248	0.07
2018/19	24.0	194	99.8%	194	1,719,805	0.11
2019/20	12.0	53	93.3%	57	1,719,805	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 (2020/21 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2020/21 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2010/11	\$153,831	121	\$1,271	1.480	\$1,882	\$2,798	\$338,613
2011/12	146,905	74	1,985	1.423	2,826	2,910	215,369
2012/13	369,930	119	3,109	1.369	4,254	3,027	360,190
2013/14	259,375	291	891	1.316	1,173	3,148	916,033
2014/15	373,224	104	3,589	1.265	4,541	3,274	340,475
2015/16	316,000	85	3,718	1.217	4,523	3,405	289,403
2016/17	537,000	107	5,019	1.170	5,871	3,541	378,880
2017/18	1,154,000	124	9,306	1.125	10,468	3,683	456,639
2018/19	956,000	194	4,928	1.082	5,330	3,830	742,996
2019/20	305,000	57	5,351	1.040	5,565	3,983	227,035

(7) Projected 2020/21 average claim severity \$4,142

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 2019/20

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 2000/01	\$6,387,749	\$6,387,749	\$6,387,749				\$6,387,749	\$6,387,749
2001/02	264,864	264,864	264,864				264,864	264,864
2002/03	431,980	431,980	431,980				431,980	431,980
2003/04	40,287	40,287	40,287				40,287	40,287
2004/05	236,472	236,472	236,472				236,472	236,472
2005/06	151,662	151,662	151,662				151,662	151,662
2006/07	111,956	111,956	111,956				111,956	111,956
2007/08	538,122	538,122	538,122				538,122	538,122
2008/09	195,329	195,329	195,329				195,329	195,329
2009/10	325,332	325,332	325,332				325,332	325,332
2010/11	153,831	153,831	153,831				153,831	153,831
2011/12	146,905	146,905	146,905				146,905	146,905
2012/13	369,930	369,930	369,930				369,930	369,930
2013/14	259,375	259,375	259,375				259,375	259,375
2014/15	378,822	373,224	373,224				373,224	373,224
2015/16	168,079	316,176	419,958	183,465	319,124	289,403	338,000	318,000
2016/17	501,141	532,095	541,756	493,338	527,624	378,880	300,000	530,000
2017/18	300,873	1,153,561	1,346,812	385,608	1,041,547	456,639	1,050,000	1,042,000
2018/19	401,582	956,025	1,070,548	478,100	771,689	742,996	500,000	770,000
2019/20	743,233	129,384	41,527	529,536	396,937	227,035	452,000	400,000
<b>Total</b>	<b>\$12,107,523</b>	<b>\$13,074,258</b>	<b>\$13,407,619</b>				<b>\$12,627,017</b>	<b>\$13,047,017</b>
2015/16 - 2019/20	2,114,908	3,087,241	3,420,602	2,070,047	3,056,921	2,094,954	2,640,000	3,060,000
to 2014/15	9,992,615	9,987,017	9,987,017				9,987,017	9,987,017
						<b>Change</b>		
						All years 2015/16 - 2019/20 to 2014/15		\$420,000 420,000 0

(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 2020/21 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 (2020/21 = 1.000) (5)	Trended Limited Loss Rate per \$1,000 of Revenue (4)X(5) (6)
2010/11	\$153,831	\$1,293,078	\$0.12	1.480	\$0.18
2011/12	146,905	1,331,769	0.11	1.423	0.16
2012/13	369,930	1,285,791	0.29	1.369	0.39
2013/14	259,375	1,362,902	0.19	1.316	0.25
2014/15	373,224	1,509,150	0.25	1.265	0.31
2015/16	318,000	1,699,156	0.19	1.217	0.23
2016/17	530,000	1,753,287	0.30	1.170	0.35
2017/18	1,042,000	1,675,248	0.62	1.125	0.70
2018/19	770,000	1,719,805	0.45	1.082	0.48
2019/20	400,000	1,719,805	0.23	1.040	0.24
Total	\$4,363,265	\$15,349,991	\$0.28		\$0.33

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)
2020/21	\$0.31	\$1,719,805	\$525,000	0.99	\$0.30	\$522,000
2021/22	0.32	1,719,805	546,000	0.99	0.32	543,000
2022/23	0.33	1,719,805	568,000	0.99	0.33	564,000

(2) is from Exhibit GL-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 4% trend.

(7) 2020/21 is based on (6) and actuarial judgment.  
Other period(s) based on 2020/21 plus a 4% trend.

(8) is based on (3) for 2019/20 and a 0% trend.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit GL-2.

Estimated Outstanding Losses as of November 30, 2020

Claim Period (1)	Limited Paid Losses 11/30/20 (2)	Limited Case Reserves 11/30/20 (3)	Limited Reported Incurred Losses 11/30/20 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/20 (5)-(4) (6)	Estimated Outstanding Losses 11/30/20 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/20 (7)X(8) (9)
to 2000/01	\$6,387,749	\$0	\$6,387,749	\$6,387,749	\$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	1.00	0
2014/15	373,224	0	373,224	373,224	0	0	1.00	0
2015/16	158,465	150,000	308,465	318,000	9,535	159,535	1.00	159,306
2016/17	379,497	114,900	494,397	530,000	35,603	150,503	1.00	150,276
2017/18	146,521	819,094	965,616	1,042,000	76,384	895,478	1.00	893,588
2018/19	81,486	490,132	571,617	770,000	198,383	688,515	1.00	686,508
2019/20	39,687	500	40,187	400,000	359,813	360,313	1.00	358,801
<b>Total</b>	<b>\$10,792,672</b>	<b>\$1,574,626</b>	<b>\$12,367,298</b>	<b>\$13,047,017</b>	<b>\$679,718</b>	<b>\$2,254,344</b>		<b>\$2,248,479</b>

(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 0.19% 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 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%	159,535	118,320	41,215	1.00	41,176
2016/17	48.0	75.7%	60.0	94.3%	76.4%	150,503	115,035	35,468	1.00	35,417
2017/18	36.0	48.7%	48.0	75.7%	52.7%	895,478	471,778	423,700	1.00	423,060
2018/19	24.0	20.3%	36.0	48.7%	35.6%	688,515	245,381	443,134	1.00	442,199
2019/20	12.0	5.3%	24.0	20.3%	15.8%	360,313	56,911	303,402	1.00	302,518
2020/21	0.0	0.0%	12.0	5.3%	5.3%	525,000	28,034	496,966	1.00	494,881
Total						\$2,779,344	\$1,035,459	\$1,743,885		\$1,739,251

(3) and (5) are from Exhibit GL-2.

(7) to 2019/20 is from Exhibit GL-11. The amount for 2020/21 is from Exhibit GL-10.

(10) is based on a 0.19% 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 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%	41,215	41,215	0	1.00	0
2016/17	60.0	94.3%	72.0	98.5%	74.2%	35,468	26,305	9,163	1.00	9,154
2017/18	48.0	75.7%	60.0	94.3%	76.4%	423,700	323,848	99,852	1.00	99,708
2018/19	36.0	48.7%	48.0	75.7%	52.7%	443,134	233,463	209,671	1.00	209,354
2019/20	24.0	20.3%	36.0	48.7%	35.6%	303,402	108,130	195,272	1.00	194,860
2020/21	12.0	5.3%	24.0	20.3%	15.8%	496,966	78,495	418,471	1.00	417,251
2021/22	0.0	0.0%	12.0	5.3%	5.3%	546,000	29,155	516,845	1.00	514,676
<b>Total</b>						<b>\$2,289,885</b>	<b>\$840,611</b>	<b>\$1,449,274</b>		<b>\$1,445,003</b>

(3) and (5) are from Exhibit GL-2.

(7) to 2020/21 is from Exhibit GL-12, (9). The amount for 2021/22 is from Exhibit GL-10.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit GL-2.

Projected Losses Paid December 1, 2022 to November 30, 2023

Claim Period (1)	Months of Development 11/30/22 (2)	Percent Losses Paid (3)	Months of Development 11/30/23 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/22 to 11/30/23 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/22 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/23 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/23 (9)X(10) (11)
to 2000/01	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2001/02	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2012/13	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2013/14	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2014/15	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2015/16	84.0	100.0%	96.0	100.0%	100.0%	0	0	0	1.00	0
2016/17	72.0	98.5%	84.0	100.0%	100.0%	9,163	9,163	0	1.00	0
2017/18	60.0	94.3%	72.0	98.5%	74.2%	99,852	74,056	25,796	1.00	25,772
2018/19	48.0	75.7%	60.0	94.3%	76.4%	209,671	160,259	49,412	1.00	49,341
2019/20	36.0	48.7%	48.0	75.7%	52.7%	195,272	102,878	92,394	1.00	92,254
2020/21	24.0	20.3%	36.0	48.7%	35.6%	418,471	149,140	269,331	1.00	268,763
2021/22	12.0	5.3%	24.0	20.3%	15.8%	516,845	81,635	435,210	1.00	433,942
2022/23	0.0	0.0%	12.0	5.3%	5.3%	568,000	30,330	537,670	1.00	535,414
<b>Total</b>						<b>\$2,017,274</b>	<b>\$607,461</b>	<b>\$1,409,813</b>		<b>\$1,405,486</b>

(3) and (5) are from Exhibit GL-2.

(7) to 2021/22 is from Exhibit GL-13, (9). The amount for 2022/23 is from Exhibit GL-10.

(10) is based on a 0.19% 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 11/30/20 (5)	Unlimited Case Reserves 11/30/20 (6)	Unlimited Reported Incurred Losses 11/30/20 (7)
97000023	01/31/91	to 2000/01	Unlimited	\$749,721	\$0	\$749,721
97002477	09/30/98	to 2000/01	Unlimited	925,000	0	925,000
97003121	12/30/99	to 2000/01	Unlimited	650,000	0	650,000
97003515	06/09/00	to 2000/01	Unlimited	925,000	0	925,000
97003686	03/10/01	to 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
201602266	12/12/16	2016/17	15,000,000	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.

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



Size of Loss Distribution

I. Reported Claim Count

Claim Size (1)	Prior (2)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	1,037	7	13	5	11	2	1,075		
0.01 - 5,000	1,564	71	87	112	174	50	2,058	2,058	91.7%
5,000 - 10,000	58	1	3	2	2	1	67	2,125	94.7%
10,000 - 25,000	41	2	1	2	3	0	49	2,174	96.8%
25,000 - 50,000	22	3	2	0	2	0	29	2,203	98.1%
50,000 - 100,000	22	1	0	1	1	0	25	2,228	99.2%
100,000 - 250,000	6	0	0	1	1	0	8	2,236	99.6%
250,000 - 500,000	3	0	1	1	0	0	5	2,241	99.8%
500,000 - 750,000	2	0	0	0	0	0	2	2,243	99.9%
750,000 - 1,000,000	2	0	0	0	0	0	2	2,245	100.0%
Over 1,000,000	0	0	0	0	0	0	0	2,245	100.0%
<b>Total</b>	<b>2,757</b>	<b>85</b>	<b>107</b>	<b>124</b>	<b>194</b>	<b>53</b>	<b>3,320</b>	<b>2,245</b>	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (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	881,770	49,465	53,255	105,364	125,144	32,642	1,247,639	1,247,639	10.1%
5,000 - 10,000	467,439	10,000	25,142	12,751	17,473	7,545	540,352	1,787,991	14.5%
10,000 - 25,000	715,975	32,000	16,000	35,000	50,000	0	848,975	2,636,966	21.3%
25,000 - 50,000	935,074	117,000	100,000	0	80,000	0	1,232,074	3,869,040	31.3%
50,000 - 100,000	1,791,582	100,000	0	62,500	99,000	0	2,053,082	5,922,122	47.9%
100,000 - 250,000	845,000	0	0	250,000	200,000	0	1,295,000	7,217,122	58.4%
250,000 - 500,000	1,100,455	0	300,000	500,000	0	0	1,900,455	9,117,577	73.7%
500,000 - 750,000	1,399,721	0	0	0	0	0	1,399,721	10,517,298	85.0%
750,000 - 1,000,000	1,850,000	0	0	0	0	0	1,850,000	12,367,298	100.0%
Over 1,000,000	0	0	0	0	0	0	0	12,367,298	100.0%
<b>Total</b>	<b>\$9,987,017</b>	<b>\$308,465</b>	<b>\$494,397</b>	<b>\$965,616</b>	<b>\$571,617</b>	<b>\$40,187</b>	<b>\$12,367,298</b>	<b>\$12,367,298</b>	

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

Data was provided by the County.

CookCounty\_GL\_113020.xlsx

Data Summary as of November 30, 2020  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Vehicles (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Limited Paid Losses 11/30/20 (8)	Limited Case Reserves 11/30/20 (9)	Limited Reported Incurred Losses 11/30/20 (10)
to 2000/01	See Note	See Note	240.0	Not Provided	1,054	0	\$13,250,354	\$0	\$13,250,354
2001/02	9,500,000	40,000,000	228.0	2,283	112	0	2,523,962	0	2,523,962
2002/03	9,500,000	45,000,000	216.0	2,283	74	0	234,297	0	234,297
2003/04	10,000,000	None	204.0	1,997	111	0	430,586	0	430,586
2004/05	10,000,000	25,000,000	192.0	1,997	91	0	2,857,039	0	2,857,039
2005/06	10,000,000	25,000,000	180.0	1,780	82	0	201,210	0	201,210
2006/07	10,000,000	None	168.0	Not Provided	92	0	653,237	0	653,237
2007/08	10,000,000	None	156.0	Not Provided	71	0	149,661	0	149,661
2008/09	10,000,000	None	144.0	Not Provided	60	0	191,753	0	191,753
2009/10	10,000,000	None	132.0	Not Provided	62	0	6,849,297	0	6,849,297
2010/11	10,000,000	None	120.0	2,071	88	0	834,347	0	834,347
2011/12	10,000,000	None	108.0	1,837	75	0	445,189	0	445,189
2012/13	15,000,000	None	96.0	1,892	58	0	302,494	0	302,494
2013/14	15,000,000	None	84.0	1,921	86	0	2,935,696	0	2,935,696
2014/15	15,000,000	None	72.0	2,022	62	0	239,188	0	239,188
2015/16	15,000,000	None	60.0	1,915	70	1	1,509,883	10,000	1,519,883
2016/17	15,000,000	None	48.0	1,773	53	2	444,308	150,000	594,308
2017/18	20,000,000	None	36.0	1,847	61	19	239,129	10,250,674	10,489,803
2018/19	20,000,000	None	24.0	1,903	59	14	161,761	395,935	557,696
2019/20	30,000,000	None	12.0	1,800	29	2	27,847	30,000	57,847
<b>Total</b>					<b>2,450</b>	<b>38</b>	<b>\$34,481,239</b>	<b>\$10,836,609</b>	<b>\$45,317,849</b>

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

Effective Date	Retention	Aggregate
12/01/90	Unlimited	None
12/01/00	9,500,000	40,000,000
12/01/03	10,000,000	see column (3)
03/01/13	15,000,000	see column (3)
07/01/18	20,000,000	see column (3)
07/01/20	30,000,000	see column (3)

(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, 2020  
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Vehicles (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Net Unlimited Paid Losses 11/30/20 (8)	Net Unlimited Case Reserves 11/30/20 (9)	Net Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	1,054	0	\$13,250,354	\$0	\$13,250,354
2001/02	Unlimited	40,000,000	228.0	2,283	112	0	2,523,962	0	2,523,962
2002/03	Unlimited	45,000,000	216.0	2,283	74	0	234,297	0	234,297
2003/04	Unlimited	None	204.0	1,997	111	0	430,586	0	430,586
2004/05	Unlimited	25,000,000	192.0	1,997	91	0	2,857,039	0	2,857,039
2005/06	Unlimited	25,000,000	180.0	1,780	82	0	201,210	0	201,210
2006/07	Unlimited	None	168.0	Not Provided	92	0	653,237	0	653,237
2007/08	Unlimited	None	156.0	Not Provided	71	0	149,661	0	149,661
2008/09	Unlimited	None	144.0	Not Provided	60	0	191,753	0	191,753
2009/10	Unlimited	None	132.0	Not Provided	62	0	6,849,297	0	6,849,297
2010/11	Unlimited	None	120.0	2,071	88	0	834,347	0	834,347
2011/12	Unlimited	None	108.0	1,837	75	0	445,189	0	445,189
2012/13	Unlimited	None	96.0	1,892	58	0	302,494	0	302,494
2013/14	Unlimited	None	84.0	1,921	86	0	2,935,696	0	2,935,696
2014/15	Unlimited	None	72.0	2,022	62	0	239,188	0	239,188
2015/16	Unlimited	None	60.0	1,915	70	1	1,509,883	10,000	1,519,883
2016/17	Unlimited	None	48.0	1,773	53	2	444,308	150,000	594,308
2017/18	Unlimited	None	36.0	1,847	61	19	239,129	10,250,674	10,489,803
2018/19	Unlimited	None	24.0	1,903	59	14	161,761	395,935	557,696
2019/20	Unlimited	None	12.0	1,800	29	2	27,847	30,000	57,847
<b>Total</b>					<b>2,450</b>	<b>38</b>	<b>\$34,481,239</b>	<b>\$10,836,609</b>	<b>\$45,317,849</b>

(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, 2020  
Gross Unlimited Losses

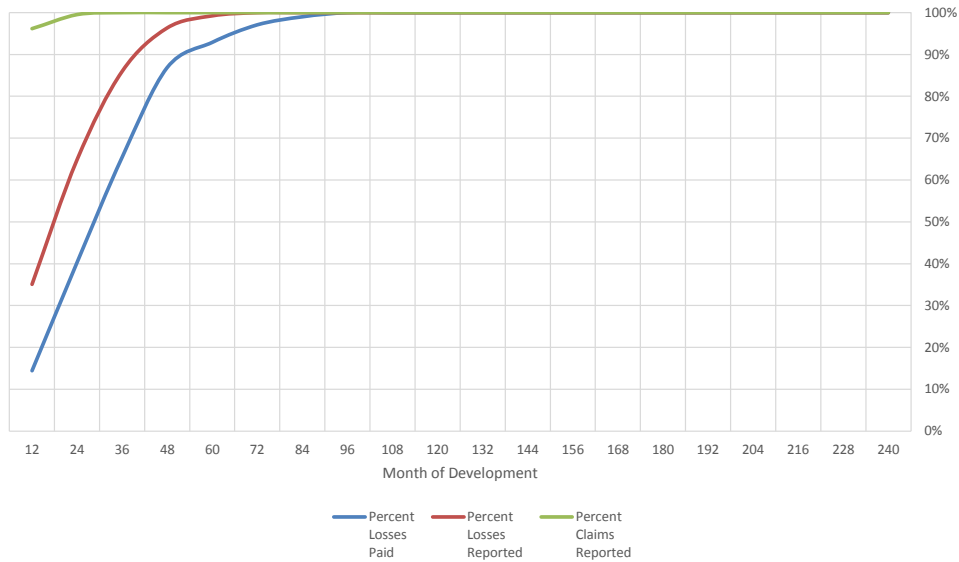
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Vehicles (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Gross Unlimited Paid Losses 11/30/20 (8)	Gross Unlimited Case Reserves 11/30/20 (9)	Gross Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	1,054	0	\$13,250,354	\$0	\$13,250,354
2001/02	Unlimited	40,000,000	228.0	2,283	112	0	2,523,962	0	2,523,962
2002/03	Unlimited	45,000,000	216.0	2,283	74	0	234,297	0	234,297
2003/04	Unlimited	None	204.0	1,997	111	0	430,586	0	430,586
2004/05	Unlimited	25,000,000	192.0	1,997	91	0	2,857,039	0	2,857,039
2005/06	Unlimited	25,000,000	180.0	1,780	82	0	201,210	0	201,210
2006/07	Unlimited	None	168.0	Not Provided	92	0	653,237	0	653,237
2007/08	Unlimited	None	156.0	Not Provided	71	0	149,661	0	149,661
2008/09	Unlimited	None	144.0	Not Provided	60	0	191,753	0	191,753
2009/10	Unlimited	None	132.0	Not Provided	62	0	6,849,297	0	6,849,297
2010/11	Unlimited	None	120.0	2,071	88	0	834,347	0	834,347
2011/12	Unlimited	None	108.0	1,837	75	0	445,189	0	445,189
2012/13	Unlimited	None	96.0	1,892	58	0	302,494	0	302,494
2013/14	Unlimited	None	84.0	1,921	86	0	2,935,696	0	2,935,696
2014/15	Unlimited	None	72.0	2,022	62	0	239,188	0	239,188
2015/16	Unlimited	None	60.0	1,915	70	1	1,509,883	10,000	1,519,883
2016/17	Unlimited	None	48.0	1,773	53	2	444,308	150,500	594,308
2017/18	Unlimited	None	36.0	1,847	61	19	239,129	10,327,725	10,489,803
2018/19	Unlimited	None	24.0	1,903	59	14	161,761	409,715	557,696
2019/20	Unlimited	None	12.0	1,800	29	2	27,847	30,000	57,847
<b>Total</b>					<b>2,450</b>	<b>38</b>	<b>\$34,481,239</b>	<b>\$10,927,940</b>	<b>\$45,317,849</b>

(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	92.9%	99.2%	100.0%
48.0	86.8%	96.3%	100.0%
36.0	65.5%	86.0%	100.0%
24.0	40.3%	64.9%	99.5%
12.0	14.5%	35.1%	96.1%



(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)

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 2000/01					\$4,682	\$11,069	\$11,154	\$11,179	\$11,181	\$11,182	\$11,182	\$14,932	\$14,932	\$14,932	\$14,934	\$14,934	\$14,934	\$14,840	\$14,938	\$13,250
2001/02	32	143	181	217	857	857	2,497	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,524	2,524	
2002/03	23	76	125	178	213	213	213	213	213	213	213	213	213	213	213	213	234	234		
2003/04	50	141	246	256	355	355	355	385	385	385	385	385	385	397	397	431	431			
2004/05	61	159	353	2,333	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,828	2,828	2,857	2,857				
2005/06	61	136	164	171	171	171	171	171	171	171	171	176	176	201	201					
2006/07	33	96	200	234	234	234	634	634	634	624	624	624	653	653						
2007/08	30	78	101	122	122	128	128	128	128	132	132	150	150							
2008/09	43	73	163	173	173	173	175	175	174	174	192	192								
2009/10	19	67	95	103	103	828	6,828	6,830	6,830	6,849	6,849									
2010/11	42	132	234	809	809	809	809	809	834	834										
2011/12	40	125	157	202	432	432	432	445	445											
2012/13	35	103	172	282	282	282	302	302												
2013/14	78	218	406	2,907	2,907	2,936	2,936													
2014/15	35	72	215	215	239	239														
2015/16	54	1,220	1,256	1,510	1,510															
2016/17	95	295	411	444																
2017/18	65	156	239																	
2018/19	60	162																		
2019/20	28																			

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 2000/01					2.364	1.008	1.002	1.000	1.000	1.000	1.335	1.000	1.000	1.000	1.000	1.000	0.994	1.007	0.887	
2001/02	4.491	1.271	1.199	3.944	1.000	2.914	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.011	1.000		
2002/03	3.262	1.645	1.423	1.196	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.098	1.000			
2003/04	2.809	1.749	1.039	1.387	1.000	1.000	1.084	1.000	1.000	1.000	1.000	1.000	1.029	1.000	1.086	1.000				
2004/05	2.605	2.220	6.611	1.214	1.000	1.000	1.000	1.000	1.000	1.000	0.998	1.000	1.010	1.000						
2005/06	2.228	1.210	1.042	1.000	1.000	1.000	1.000	1.000	1.000	1.030	1.000	1.141	1.000							
2006/07	2.932	2.087	1.170	1.000	1.000	1.000	2.709	1.000	1.000	0.984	1.000	1.047	1.000							
2007/08	2.650	1.294	1.209	1.000	1.047	1.000	1.000	1.000	1.028	1.000	1.136	1.000								
2008/09	1.698	2.250	1.061	1.000	1.000	1.010	1.000	0.994	1.000	1.102	1.000									
2009/10	3.603	1.407	1.090	1.000	8.015	8.243	1.000	1.000	1.003	1.000										
2010/11	3.124	1.765	3.461	1.000	1.000	1.000	1.000	1.032	1.000											
2011/12	3.121	1.259	1.287	2.139	1.000	1.000	1.031	1.000												
2012/13	2.905	1.673	1.640	1.000	1.000	1.073	1.000													
2013/14	2.814	1.860	7.158	1.000	1.010	1.000														
2014/15	2.059	2.982	1.000	1.114	1.000															
2015/16	22.491	1.029	1.202	1.000																
2016/17	3.114	1.392	1.080																	
2017/18	2.415	1.533																		
2018/19	2.682																			
2019/20																				
Average																				
All	3.945	1.684	2.042	1.333	1.562	1.661	1.141	1.002	1.003	1.009	1.056	1.006	1.024	1.002	1.017	1.024	1.001	1.003	0.887	
Wtd 3	2.790	1.140	1.153	1.005	1.008	1.006	1.009	1.003	1.002	1.002	1.019	1.031	1.007	1.008	1.010	1.007	0.996			
Last 3	2.737	1.318	1.094	1.038	1.003	1.024	1.010	1.011	1.001	1.034	1.045	1.016	1.047	1.003	1.029	1.033	1.001			
Last 5	2.737	1.595	1.307	1.038	1.000	1.024	1.000	1.000	1.001	1.000	1.010	1.000	1.010	1.000	1.000					
x-hi,low																				
Similar	2.270	1.495	1.270	1.135	1.055	1.026	1.012	1.006	1.004	1.002	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.001	
Previous	2.950	1.650	1.350	1.075	1.050	1.020	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
Selected	2.790	1.625	1.325	1.070	1.045	1.020	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
Cumulative	6.920	2.480	1.526	1.152	1.077	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
Percent	14.5%	40.3%	65.5%	86.8%	92.9%	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%

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 2000/01					\$15,023	\$31,472	\$31,179	\$19,181	\$15,733	\$14,932	\$14,932	\$14,932	\$14,932	\$14,935	\$14,934	\$14,934	\$14,934	\$14,840	\$14,938	\$13,250
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	2,524	
2002/03	246	488	320	238	213	221	213	213	213	213	213	213	213	213	213	213	234	234		
2003/04	163	361	339	571	505	405	455	385	385	385	385	385	385	397	397	431	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	2,857				
2005/06	204	250	207	171	171	171	171	171	171	171	171	176	176	201	201					
2006/07	160	263	633	834	834	834	984	634	634	634	624	624	653	653						
2007/08	91	155	131	122	130	128	128	128	128	132	132	150	150							
2008/09	132	164	184	173	173	173	175	175	174	174	192	192								
2009/10	618	381	2,725	6,473	6,973	6,848	6,828	6,830	6,830	6,849	6,849									
2010/11	229	380	514	809	809	809	809	819	834	834										
2011/12	166	363	762	462	432	432	432	445	445											
2012/13	213	334	272	282	282	282	302	302												
2013/14	740	1,306	3,408	2,907	2,907	2,936	2,936													
2014/15	137	242	215	215	239	239														
2015/16	980	1,331	1,566	1,520	1,520															
2016/17	296	514	621	594																
2017/18	620	4,542	10,490																	
2018/19	118	558																		
2019/20	58																			

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 2000/01					2.095	0.991	0.615	0.820	0.949	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.994	1.007	0.887	
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	1.000		
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	1.000	1.000	1.000		
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	1.000				
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	1.000					
2005/06	1.229	0.828	0.825	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.030	1.000	1.141	1.000						
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	1.000							
2007/08	1.704	0.847	0.933	1.061	0.986	1.000	1.000	1.000	1.028	1.000	1.136	1.000								
2008/09	1.246	1.123	0.940	1.000	1.000	1.010	1.000	0.994	1.000	1.102	1.000									
2009/10	0.617	7.154	2.376	1.077	0.982	0.997	1.000	1.000	1.003	1.000										
2010/11	1.659	1.353	1.574	1.000	1.000	1.000	1.012	1.019	1.000											
2011/12	2.187	2.098	0.606	0.935	1.000	1.000	1.031	1.000												
2012/13	1.572	0.814	1.037	1.000	1.000	1.073	1.000													
2013/14	1.764	2.610	0.853	1.000	1.010	1.000														
2014/15	1.763	0.887	1.000	1.114	1.000															
2015/16	1.358	1.177	0.971	1.000																
2016/17	1.738	1.208	0.957																	
2017/18	7.328	2.309																		
2018/19	4.744																			
2019/20																				
Average																				
All	2.154	2.009	1.154	1.032	1.101	0.986	0.935	0.986	0.998	1.009	1.018	1.006	1.024	1.002	1.017	1.024	1.001	1.003	0.887	
Wtd 3	5.433	1.985	0.970	1.005	1.008	1.006	1.015	1.002	1.002	1.002	1.019	1.031	1.007	1.008	1.010	1.007	0.996			
Last 3	4.603	1.565	0.976	1.038	1.003	1.024	1.014	1.006	1.001	1.034	1.045	1.016	1.047	1.003	1.029	1.033	1.001			
Last 5	2.748	1.565	0.976	1.000	1.000	1.000	1.004	1.000	1.001	1.000	1.010	1.000	1.010	1.000						
x-hi,low																				
Similar	1.435	1.185	1.095	1.045	1.016	1.007	1.004	1.002	1.001	1.001	1.001	1.001	1.001	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	1.850	1.325	1.120	1.030	1.008	1.000	1.000	1.000	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	2.850	1.541	1.163	1.038	1.008	1.000	1.000	1.000	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	35.1%	64.9%	86.0%	96.3%	99.2%	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%

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 2000/01																				1,054	1,054
2001/02	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	112	112	112	112	112	
2002/03	53	58	58	58	58	58	58	58	58	58	58	58	58	58	74	74	74	74	74	74	
2003/04	81	81	81	81	81	81	81	81	81	81	81	81	81	111	111	111	111	111	111	111	
2004/05	72	72	72	72	72	72	72	72	72	72	72	72	91	91	91	91					
2005/06	65	65	65	65	65	65	65	65	65	65	65	82	82	82	82						
2006/07	59	72	72	72	72	72	72	72	72	72	92	92	92	92							
2007/08	57	57	57	57	57	57	57	57	57	71	71	71	71								
2008/09	44	44	44	44	44	44	44	44	60	60	60	60	60								
2009/10	55	55	55	55	55	55	55	62	62	62	62	62									
2010/11	61	61	61	61	61	61	88	88	88	88											
2011/12	67	67	67	67	67	75	75	75	75												
2012/13	49	49	49	49	58	58	58	58													
2013/14	69	69	69	85	86	86	86														
2014/15	51	51	62	62	62	62															
2015/16	58	69	70	70	70																
2016/17	46	53	53	53																	
2017/18	53	61	61																		
2018/19	53	59																			
2019/20	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 2000/01																					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	1.000	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	1.000	1.000	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	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	1.000						
2005/06	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.262	1.000	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	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	1.000									
2008/09	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.364	1.000	1.000	1.000										
2009/10	1.000	1.000	1.000	1.000	1.000	1.000	1.127	1.000	1.000	1.000											
2010/11	1.000	1.000	1.000	1.000	1.000	1.443	1.000	1.000	1.000												
2011/12	1.000	1.000	1.000	1.000	1.119	1.000	1.000	1.000													
2012/13	1.000	1.000	1.000	1.184	1.000	1.000	1.000														
2013/14	1.000	1.000	1.232	1.012	1.000	1.000															
2014/15	1.000	1.216	1.000	1.000	1.000																
2015/16	1.190	1.014	1.000	1.000																	
2016/17	1.152	1.000	1.000																		
2017/18	1.151	1.000																			
2018/19	1.113																				
2019/20																					
Average																					
All	1.051	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	1.000	1.000	1.000	1.000	1.000	
Wtd 3	1.138	1.005	1.000	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	
Last 3	1.139	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	1.000	1.000					
Last 5	1.139	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	1.030	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
Selected	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
Cumulative	1.040	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	96.1%	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.



COOK COUNTY, ILLINOIS  
AUTOMOBILE LIABILITY

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 2000/01					31.2%	35.2%	35.8%	58.3%	71.1%	74.9%	74.9%	100.0%	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%	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%	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%	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%	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%	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%	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%	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%	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%	100.0%
2010/11	18.5%	34.9%	45.5%	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%	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%	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%	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%	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%	100.0%
2015/16	5.5%	91.7%	80.2%	99.3%	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%	74.8%	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%
2017/18	10.4%	3.4%	2.3%	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%
2018/19	51.3%	29.0%	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%
2019/20	48.1%	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%	100.0%	100.0%
<b>Average</b>																					
All	23.0%	35.8%	47.5%	72.5%	78.2%	78.4%	88.4%	96.7%	97.6%	97.7%	97.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Last 3	36.6%	30.0%	49.6%	91.4%	99.8%	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%	100.0%
Last 5	30.2%	38.7%	52.8%	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%
x-hi,low																					
Implicit	41.2%	62.1%	76.2%	90.1%	93.6%	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%	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%	100.0%

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/20 (2)	Limited Paid Losses 11/30/20 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 2000/01	240.0	\$13,250,354	100.0%	\$13,250,354
2001/02	228.0	2,523,962	100.0%	2,523,962
2002/03	216.0	234,297	100.0%	234,297
2003/04	204.0	430,586	100.0%	430,586
2004/05	192.0	2,857,039	100.0%	2,857,039
2005/06	180.0	201,210	100.0%	201,210
2006/07	168.0	653,237	100.0%	653,237
2007/08	156.0	149,661	100.0%	149,661
2008/09	144.0	191,753	100.0%	191,753
2009/10	132.0	6,849,297	100.0%	6,849,297
2010/11	120.0	834,347	100.0%	834,347
2011/12	108.0	445,189	100.0%	445,189
2012/13	96.0	302,494	100.0%	302,494
2013/14	84.0	2,935,696	99.0%	2,965,053
2014/15	72.0	239,188	97.1%	246,411
2015/16	60.0	1,509,883	92.9%	1,625,478
2016/17	48.0	444,308	86.8%	511,806
2017/18	36.0	239,129	65.5%	364,981
2018/19	24.0	161,761	40.3%	401,202
2019/20	12.0	27,847	14.5%	192,696
<b>Total</b>		<b>\$34,481,239</b>		<b>\$35,231,056</b>

(3) is from Exhibit AL-1.

(4) is from Exhibit AL-2.

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/20 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 2000/01	240.0	\$13,250,354	100.0%	\$13,250,354
2001/02	228.0	2,523,962	100.0%	2,523,962
2002/03	216.0	234,297	100.0%	234,297
2003/04	204.0	430,586	100.0%	430,586
2004/05	192.0	2,857,039	100.0%	2,857,039
2005/06	180.0	201,210	100.0%	201,210
2006/07	168.0	653,237	100.0%	653,237
2007/08	156.0	149,661	100.0%	149,661
2008/09	144.0	191,753	100.0%	191,753
2009/10	132.0	6,849,297	100.0%	6,849,297
2010/11	120.0	834,347	100.0%	834,347
2011/12	108.0	445,189	100.0%	445,189
2012/13	96.0	302,494	100.0%	302,494
2013/14	84.0	2,935,696	100.0%	2,935,696
2014/15	72.0	239,188	100.0%	239,188
2015/16	60.0	1,519,883	99.2%	1,532,042
2016/17	48.0	594,308	96.3%	617,034
2017/18	36.0	10,489,803	86.0%	12,197,845
2018/19	24.0	557,696	64.9%	859,269
2019/20	12.0	57,847	35.1%	164,886
<b>Total</b>		<b>\$45,317,849</b>		<b>\$47,469,388</b>

(3) is from Exhibit AL-1.

(4) is from Exhibit AL-2.

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/20 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/20 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/20 (6)	Limited Case Reserves 11/30/20 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 2000/01	240.0	100.0%	100.0%	100.0%	\$13,250,354	\$0	\$13,250,354
2001/02	228.0	100.0%	100.0%	100.0%	2,523,962	0	2,523,962
2002/03	216.0	100.0%	100.0%	100.0%	234,297	0	234,297
2003/04	204.0	100.0%	100.0%	100.0%	430,586	0	430,586
2004/05	192.0	100.0%	100.0%	100.0%	2,857,039	0	2,857,039
2005/06	180.0	100.0%	100.0%	100.0%	201,210	0	201,210
2006/07	168.0	100.0%	100.0%	100.0%	653,237	0	653,237
2007/08	156.0	100.0%	100.0%	100.0%	149,661	0	149,661
2008/09	144.0	100.0%	100.0%	100.0%	191,753	0	191,753
2009/10	132.0	100.0%	100.0%	100.0%	6,849,297	0	6,849,297
2010/11	120.0	100.0%	100.0%	100.0%	834,347	0	834,347
2011/12	108.0	100.0%	100.0%	100.0%	445,189	0	445,189
2012/13	96.0	100.0%	100.0%	100.0%	302,494	0	302,494
2013/14	84.0	99.0%	100.0%	100.0%	2,935,696	0	2,935,696
2014/15	72.0	97.1%	100.0%	100.0%	239,188	0	239,188
2015/16	60.0	92.9%	99.2%	88.8%	1,509,883	10,000	1,521,139
2016/17	48.0	86.8%	96.3%	72.1%	444,308	150,000	652,431
2017/18	36.0	65.5%	86.0%	59.4%	239,129	10,250,674	17,498,887
2018/19	24.0	40.3%	64.9%	41.2%	161,761	395,935	1,122,925
2019/20	12.0	14.5%	35.1%	24.1%	27,847	30,000	152,241
Total					\$34,481,239	\$10,836,609	\$53,045,936

(3) and (4) are from Exhibit AL-2.

(6) and (7) are from Exhibit AL-1.

Preliminary Projected Ultimate Limited Losses to 2019/20

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 2000/01	\$13,250,354	\$13,250,354	\$13,250,354	\$13,250,354
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	302,494	302,494	302,494	302,494
2013/14	2,965,053	2,935,696	2,935,696	2,935,696
2014/15	246,411	239,188	239,188	239,188
2015/16	1,625,478	1,532,042	1,521,139	1,525,500
2016/17	511,806	617,034	652,431	624,210
2017/18	364,981	12,197,845	17,498,887	14,848,000
2018/19	401,202	859,269	1,122,925	859,000
2019/20	192,696	164,886	152,241	165,000
<b>Total</b>	<b>\$35,231,056</b>	<b>\$47,469,388</b>	<b>\$53,045,936</b>	<b>\$50,120,022</b>

(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 (2020/21 = 1.000) (5)	Trended Limited Loss Rate per Vehicle (4)X(5) (6)	Projected A-priori Loss Rate per Vehicle (7)/(5) (8)
2010/11	\$834,347	2,071	\$402.87	1.411	\$568.29	\$791.40
2011/12	445,189	1,837	242.35	1.363	330.29	819.10
2012/13	302,494	1,892	159.88	1.317	210.53	847.77
2013/14	2,935,696	1,921	1,528.21	1.272	1,944.31	877.44
2014/15	239,188	2,022	118.29	1.229	145.41	908.15
2015/16	1,525,500	1,915	796.61	1.188	946.12	939.94
2016/17	624,210	1,773	352.06	1.148	404.00	972.84
2017/18	14,848,000	1,847	8,038.98	1.109	8,912.96	1,006.88
2018/19	859,000	1,903	451.39	1.071	483.54	1,042.13
2019/20	165,000	1,800	91.66	1.035	94.87	1,078.60
(7) Projected 2020/21 a-priori loss rate per Vehicle					\$1,116.35	

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/20 (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)
2015/16	\$1,509,883	92.9%	\$939.94	1,915	\$128,005	\$1,637,888
2016/17	444,308	86.8%	972.84	1,773	227,476	671,784
2017/18	239,129	65.5%	1,006.88	1,847	641,262	880,391
2018/19	161,761	40.3%	1,042.13	1,903	1,183,574	1,345,334
2019/20	27,847	14.5%	1,078.60	1,800	1,661,066	1,688,913

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/20 (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)
2015/16	\$1,519,883	99.2%	\$939.94	1,915	\$14,286	\$1,534,168
2016/17	594,308	96.3%	972.84	1,773	63,528	657,836
2017/18	10,489,803	86.0%	1,006.88	1,847	260,413	10,750,216
2018/19	557,696	64.9%	1,042.13	1,903	696,021	1,253,717
2019/20	57,847	35.1%	1,078.60	1,800	1,260,468	1,318,314

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 11/30/20 (2)	Reported Claims 11/30/20 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Vehicles (6)	Frequency (per Vehicle) (5)/(6) (7)
2010/11	120.0	88	100.0%	88	2,071	0.04
2011/12	108.0	75	100.0%	75	1,837	0.04
2012/13	96.0	58	100.0%	58	1,892	0.03
2013/14	84.0	86	100.0%	86	1,921	0.04
2014/15	72.0	62	100.0%	62	2,022	0.03
2015/16	60.0	70	100.0%	70	1,915	0.04
2016/17	48.0	53	100.0%	53	1,773	0.03
2017/18	36.0	61	100.0%	61	1,847	0.03
2018/19	24.0	59	99.5%	59	1,903	0.03
2019/20	12.0	29	96.1%	30	1,800	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 (2020/21 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2020/21 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2010/11	\$834,347	88	\$9,481	1.411	\$13,374	\$22,221	\$1,955,475
2011/12	445,189	75	5,936	1.363	8,090	22,999	1,724,929
2012/13	302,494	58	5,215	1.317	6,868	23,804	1,380,633
2013/14	2,935,696	86	34,136	1.272	43,431	24,637	2,118,796
2014/15	239,188	62	3,858	1.229	4,742	25,499	1,580,967
2015/16	1,525,500	70	21,793	1.188	25,883	26,392	1,847,436
2016/17	624,210	53	11,778	1.148	13,515	27,316	1,447,730
2017/18	14,848,000	61	243,410	1.109	269,873	28,272	1,724,575
2018/19	859,000	59	14,559	1.071	15,596	29,261	1,726,412
2019/20	165,000	30	5,500	1.035	5,693	30,285	908,561
						(7) Projected 2020/21 average claim severity \$31,345	

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 2019/20

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 2000/01	\$13,250,354	\$13,250,354	\$13,250,354				\$13,250,354	\$13,250,354
2001/02	2,523,962	2,523,962	2,523,962				2,523,962	2,523,962
2002/03	234,297	234,297	234,297				234,297	234,297
2003/04	430,586	430,586	430,586				430,586	430,586
2004/05	2,857,039	2,857,039	2,857,039				2,857,039	2,857,039
2005/06	201,210	201,210	201,210				201,210	201,210
2006/07	653,237	653,237	653,237				653,237	653,237
2007/08	149,661	149,661	149,661				149,661	149,661
2008/09	191,753	191,753	191,753				191,753	191,753
2009/10	6,849,297	6,849,297	6,849,297				6,849,297	6,849,297
2010/11	834,347	834,347	834,347				834,347	834,347
2011/12	445,189	445,189	445,189				445,189	445,189
2012/13	302,494	302,494	302,494				302,494	302,494
2013/14	2,935,696	2,935,696	2,935,696				2,935,696	2,935,696
2014/15	246,411	239,188	239,188				239,188	239,188
2015/16	1,625,478	1,532,042	1,521,139	1,637,888	1,534,168	1,847,436	1,552,000	1,527,000
2016/17	511,806	617,034	652,431	671,784	657,836	1,447,730	745,000	635,000
2017/18	364,981	12,197,845	17,498,887	880,391	10,750,216	1,724,575	5,200,000	10,750,000
2018/19	401,202	859,269	1,122,925	1,345,334	1,253,717	1,726,412	1,100,000	1,100,000
2019/20	192,696	164,886	152,241	1,688,913	1,318,314	908,561	2,109,000	1,000,000
<b>Total</b>	<b>\$35,231,056</b>	<b>\$47,469,388</b>	<b>\$53,045,936</b>				<b>\$42,804,312</b>	<b>\$47,110,312</b>
2015/16 - 2019/20	3,096,163	15,371,076	20,947,624	6,224,310	15,514,252	7,654,714	10,706,000	15,012,000
to 2014/15	32,134,893	32,098,312	32,098,312				32,098,312	32,098,312
						<b>Change</b>		
						All years		\$4,306,000
						2015/16 - 2019/20		4,306,000
						to 2014/15		0

(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 2020/21 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Vehicles (3)	Limited Loss Rate per Vehicle (2)/(3) (4)	Loss Rate Trend (2020/21 = 1.000) (5)	Trended Limited Loss Rate per Vehicle (4)X(5) (6)
2010/11	\$834,347	2,071	\$402.87	1.411	\$568.29
2011/12	445,189	1,837	242.35	1.363	330.29
2012/13	302,494	1,892	159.88	1.317	210.53
2013/14	2,935,696	1,921	1,528.21	1.272	1,944.31
2014/15	239,188	2,022	118.29	1.229	145.41
2015/16	1,527,000	1,915	797.39	1.188	947.05
2016/17	635,000	1,773	358.15	1.148	410.99
2017/18	10,750,000	1,847	5,820.25	1.109	6,453.01
2018/19	1,100,000	1,903	578.03	1.071	619.21
2019/20	1,000,000	1,800	555.50	1.035	574.95
Total	\$19,768,914	18,981	\$1,041.50		\$1,220.40

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)
2020/21	\$1,144.67	1,800	\$2,061,000	1.00	\$1,139.17	\$2,051,000
2021/22	1,184.73	1,800	2,133,000	1.00	1,179.04	2,122,000
2022/23	1,226.20	1,800	2,207,000	1.00	1,220.30	2,197,000

(2) is from Exhibit AL-9.

(3) was provided by the County.

(5) is based on a 3.5% trend.

(7) 2020/21 is based on (6) and actuarial judgment.  
Other period(s) based on 2020/21 plus a 3% trend.

(8) is based on (3) for 2019/20 and a 0% trend.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit AL-2.

Estimated Outstanding Losses as of November 30, 2020

Claim Period (1)	Limited Paid Losses 11/30/20 (2)	Limited Case Reserves 11/30/20 (3)	Limited Reported Incurred Losses 11/30/20 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/20 (5)-(4) (6)	Estimated Outstanding Losses 11/30/20 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/20 (7)X(8) (9)
to 2000/01	\$13,250,354	\$0	\$13,250,354	\$13,250,354	\$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	1.00	0
2013/14	2,935,696	0	2,935,696	2,935,696	0	0	1.00	0
2014/15	239,188	0	239,188	239,188	0	0	1.00	0
2015/16	1,509,883	10,000	1,519,883	1,527,000	7,117	17,117	1.00	17,083
2016/17	444,308	150,000	594,308	635,000	40,692	190,692	1.00	190,209
2017/18	239,129	10,250,674	10,489,803	10,750,000	260,197	10,510,871	1.00	10,486,929
2018/19	161,761	395,935	557,696	1,100,000	542,304	938,239	1.00	935,603
2019/20	27,847	30,000	57,847	1,000,000	942,153	972,153	1.00	968,686
<b>Total</b>	<b>\$34,481,239</b>	<b>\$10,836,609</b>	<b>\$45,317,849</b>	<b>\$47,110,312</b>	<b>\$1,792,463</b>	<b>\$12,629,072</b>		<b>\$12,598,510</b>

(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 0.19% interest rate and the payout pattern in Exhibit AL-2.



COOK COUNTY, ILLINOIS  
AUTOMOBILE LIABILITY

Exhibit AL-12

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 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	1.00	0
2015/16	60.0	92.9%	72.0	97.1%	58.8%	17,117	10,061	7,056	1.00	7,045
2016/17	48.0	86.8%	60.0	92.9%	46.1%	190,692	87,866	102,826	1.00	102,621
2017/18	36.0	65.5%	48.0	86.8%	61.8%	10,510,871	6,490,762	4,020,109	1.00	4,009,929
2018/19	24.0	40.3%	36.0	65.5%	42.2%	938,239	396,156	542,083	1.00	540,848
2019/20	12.0	14.5%	24.0	40.3%	30.2%	972,153	293,954	678,199	1.00	676,293
2020/21	0.0	0.0%	12.0	14.5%	14.5%	2,061,000	297,840	1,763,160	1.00	1,756,872
Total						\$14,690,072	\$7,576,639	\$7,113,433		\$7,093,608

(3) and (5) are from Exhibit AL-2.

(7) to 2019/20 is from Exhibit AL-11. The amount for 2020/21 is from Exhibit AL-10.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit AL-2.



COOK COUNTY, ILLINOIS  
AUTOMOBILE LIABILITY

Exhibit AL-13

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 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%	7,056	4,673	2,383	1.00	2,381
2016/17	60.0	92.9%	72.0	97.1%	58.8%	102,826	60,439	42,387	1.00	42,320
2017/18	48.0	86.8%	60.0	92.9%	46.1%	4,020,109	1,852,364	2,167,745	1.00	2,163,425
2018/19	36.0	65.5%	48.0	86.8%	61.8%	542,083	334,752	207,331	1.00	206,806
2019/20	24.0	40.3%	36.0	65.5%	42.2%	678,199	286,358	391,841	1.00	390,948
2020/21	12.0	14.5%	24.0	40.3%	30.2%	1,763,160	533,133	1,230,027	1.00	1,226,571
2021/22	0.0	0.0%	12.0	14.5%	14.5%	2,133,000	308,245	1,824,755	1.00	1,818,247
<b>Total</b>						<b>\$9,246,433</b>	<b>\$3,379,964</b>	<b>\$5,866,469</b>		<b>\$5,850,698</b>

(3) and (5) are from Exhibit AL-2.

(7) to 2020/21 is from Exhibit AL-12, (9). The amount for 2021/22 is from Exhibit AL-10.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit AL-2.

Projected Losses Paid December 1, 2022 to November 30, 2023

Claim Period (1)	Months of Development 11/30/22 (2)	Percent Losses Paid (3)	Months of Development 11/30/23 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/22 to 11/30/23 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/22 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/23 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/23 (9)X(10) (11)
to 2000/01	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
2001/02	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2012/13	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2013/14	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2014/15	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2015/16	84.0	99.0%	96.0	100.0%	100.0%	2,383	2,383	0	1.00	0
2016/17	72.0	97.1%	84.0	99.0%	66.2%	42,387	28,071	14,316	1.00	14,302
2017/18	60.0	92.9%	72.0	97.1%	58.8%	2,167,745	1,274,161	893,584	1.00	892,165
2018/19	48.0	86.8%	60.0	92.9%	46.1%	207,331	95,533	111,798	1.00	111,575
2019/20	36.0	65.5%	48.0	86.8%	61.8%	391,841	241,973	149,868	1.00	149,488
2020/21	24.0	40.3%	36.0	65.5%	42.2%	1,230,027	519,359	710,668	1.00	709,049
2021/22	12.0	14.5%	24.0	40.3%	30.2%	1,824,755	551,758	1,272,997	1.00	1,269,420
2022/23	0.0	0.0%	12.0	14.5%	14.5%	2,207,000	318,939	1,888,061	1.00	1,881,328
<b>Total</b>						<b>\$8,073,469</b>	<b>\$3,032,177</b>	<b>\$5,041,292</b>		<b>\$5,027,327</b>

(3) and (5) are from Exhibit AL-2.

(7) to 2021/22 is from Exhibit AL-13, (9). The amount for 2022/23 is from Exhibit AL-10.

(10) is based on a 0.19% 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 11/30/20 (5)	Unlimited Case Reserves 11/30/20 (6)	Unlimited Reported Incurred Losses 11/30/20 (7)
97000014	12/17/93	to 2000/01	Unlimited	\$400,000	\$0	\$400,000
97000616	04/14/94	to 2000/01	Unlimited	306,007	0	306,007
97003499	05/28/01	to 2000/01	9,500,000	3,750,000	0	3,750,000
97003422	05/28/01	to 2000/01	9,500,000	5,750,000	0	5,750,000
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	10,000,000	10,000,000

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)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	559	5	10	7	7	9	597		
0.01 - 5,000	1,338	45	26	38	36	17	1,500	1,500	80.9%
5,000 - 10,000	150	6	4	10	6	2	178	1,678	90.6%
10,000 - 25,000	67	8	4	3	3	1	86	1,764	95.2%
25,000 - 50,000	26	3	6	0	3	0	38	1,802	97.2%
50,000 - 100,000	19	1	2	0	2	0	24	1,826	98.5%
100,000 - 250,000	6	1	1	2	2	0	12	1,838	99.2%
250,000 - 500,000	4	0	0	0	0	0	4	1,842	99.4%
500,000 - 750,000	3	0	0	0	0	0	3	1,845	99.6%
750,000 - 1,000,000	0	1	0	0	0	0	1	1,846	99.6%
Over 1,000,000	6	0	0	1	0	0	7	1,853	100.0%
<b>Total</b>	<b>2,178</b>	<b>70</b>	<b>53</b>	<b>61</b>	<b>59</b>	<b>29</b>	<b>2,450</b>	<b>1,853</b>	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (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	1,867,355	72,390	58,786	78,340	70,960	21,507	2,169,336	2,169,336	4.8%
5,000 - 10,000	1,137,417	40,977	28,775	70,463	48,105	11,340	1,337,078	3,506,414	7.7%
10,000 - 25,000	1,112,898	130,878	70,353	39,002	35,009	25,000	1,413,139	4,919,553	10.9%
25,000 - 50,000	911,844	102,459	225,322	0	88,854	0	1,328,478	6,248,031	13.8%
50,000 - 100,000	1,401,556	100,000	103,418	0	111,245	0	1,716,219	7,964,250	17.6%
100,000 - 250,000	862,927	166,210	107,654	301,999	203,524	0	1,642,314	9,606,563	21.2%
250,000 - 500,000	1,606,007	0	0	0	0	0	1,606,007	11,212,571	24.7%
500,000 - 750,000	1,888,542	0	0	0	0	0	1,888,542	13,101,112	28.9%
750,000 - 1,000,000	0	906,969	0	0	0	0	906,969	14,008,082	30.9%
Over 1,000,000	21,309,767	0	0	10,000,000	0	0	31,309,767	45,317,849	100.0%
<b>Total</b>	<b>\$32,098,312</b>	<b>\$1,519,883</b>	<b>\$594,308</b>	<b>\$10,489,803</b>	<b>\$557,696</b>	<b>\$57,847</b>	<b>\$45,317,849</b>	<b>\$45,317,849</b>	

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

Data was provided by the County.

CookCounty\_AL\_113020.xlsx

Data Summary as of November 30, 2020  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Sworn Officers (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Limited Paid Losses 11/30/20 (8)	Limited Case Reserves 11/30/20 (9)	Limited Reported Incurred Losses 11/30/20 (10)
to 2000/01	See Note	See Note	240.0	Not Provided	105	14	\$1,696,734	\$37,000,000	\$38,696,734
2001/02	9,500,000	40,000,000	228.0	Not Provided	1	0	0	0	0
2002/03	9,500,000	45,000,000	216.0	Not Provided	98	1	1,024,401	4,000,000	5,024,401
2003/04	10,000,000	None	204.0	Not Provided	105	0	51,374,033	0	51,374,033
2004/05	10,000,000	25,000,000	192.0	Not Provided	104	1	1,371,302	50,000	1,421,302
2005/06	10,000,000	25,000,000	180.0	Not Provided	140	2	2,658,785	1,500,000	4,158,785
2006/07	10,000,000	None	168.0	Not Provided	183	0	2,403,373	0	2,403,373
2007/08	10,000,000	None	156.0	Not Provided	192	1	12,296,710	1,000,000	13,296,710
2008/09	10,000,000	None	144.0	Not Provided	242	0	4,392,748	0	4,392,748
2009/10	10,000,000	None	132.0	Not Provided	228	1	6,601,655	1,000	6,602,655
2010/11	10,000,000	None	120.0	Not Provided	210	1	31,143,025	100,000	31,243,025
2011/12	10,000,000	None	108.0	Not Provided	370	2	3,329,458	846,500	4,175,958
2012/13	15,000,000	None	96.0	Not Provided	445	5	9,557,834	2,001,000	11,558,834
2013/14	15,000,000	None	84.0	Not Provided	625	7	9,971,600	17,262,000	27,233,600
2014/15	15,000,000	None	72.0	6,022	390	16	2,893,537	3,150,000	6,043,537
2015/16	15,000,000	None	60.0	5,881	346	31	4,299,392	7,896,200	12,195,592
2016/17	15,000,000	None	48.0	5,451	303	61	4,799,970	13,858,384	18,658,354
2017/18	20,000,000	None	36.0	5,319	244	105	1,078,459	7,242,450	8,320,909
2018/19	20,000,000	None	24.0	5,054	131	86	67,790	6,005,850	6,073,640
2019/20	30,000,000	None	12.0	4,883	59	50	3,500	3,048,300	3,051,800
<b>Total</b>					<b>4,521</b>	<b>384</b>	<b>\$150,964,306</b>	<b>\$104,961,684</b>	<b>\$255,925,990</b>

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

Effective Date	Retention	Aggregate
12/01/77	Unlimited	None
12/01/00	9,500,000	40,000,000
12/01/03	10,000,000	see column (3)
03/01/13	15,000,000	see column (3)
07/01/18	20,000,000	see column (3)
07/01/20	30,000,000	see column (3)

(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

Exhibit LEL-1 (page 2)

Data Summary as of November 30, 2020  
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Sworn Officers (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Net Unlimited Paid Losses 11/30/20 (8)	Net Unlimited Case Reserves 11/30/20 (9)	Net Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	105	14	\$1,696,734	\$37,000,000	\$38,696,734
2001/02	Unlimited	40,000,000	228.0	Not Provided	1	0	0	0	0
2002/03	Unlimited	45,000,000	216.0	Not Provided	98	1	1,024,401	4,000,000	5,024,401
2003/04	Unlimited	None	204.0	Not Provided	105	0	51,374,033	0	51,374,033
2004/05	Unlimited	25,000,000	192.0	Not Provided	104	1	1,371,302	50,000	1,421,302
2005/06	Unlimited	25,000,000	180.0	Not Provided	140	2	2,658,785	1,500,000	4,158,785
2006/07	Unlimited	None	168.0	Not Provided	183	0	2,403,373	0	2,403,373
2007/08	Unlimited	None	156.0	Not Provided	192	1	12,296,710	1,000,000	13,296,710
2008/09	Unlimited	None	144.0	Not Provided	242	0	4,392,748	0	4,392,748
2009/10	Unlimited	None	132.0	Not Provided	228	1	6,601,655	1,000	6,602,655
2010/11	Unlimited	None	120.0	Not Provided	210	1	31,143,025	100,000	31,243,025
2011/12	Unlimited	None	108.0	Not Provided	370	2	3,329,458	846,500	4,175,958
2012/13	Unlimited	None	96.0	Not Provided	445	5	9,557,834	2,001,000	11,558,834
2013/14	Unlimited	None	84.0	Not Provided	625	7	9,971,600	17,262,000	27,233,600
2014/15	Unlimited	None	72.0	6,022	390	16	2,893,537	3,150,000	6,043,537
2015/16	Unlimited	None	60.0	5,881	346	31	4,299,392	7,896,200	12,195,592
2016/17	Unlimited	None	48.0	5,451	303	61	4,799,970	13,858,384	18,658,354
2017/18	Unlimited	None	36.0	5,319	244	105	1,078,459	7,242,450	8,320,909
2018/19	Unlimited	None	24.0	5,054	131	86	67,790	6,005,850	6,073,640
2019/20	Unlimited	None	12.0	4,883	59	50	3,500	3,048,300	3,051,800
<b>Total</b>					<b>4,521</b>	<b>384</b>	<b>\$150,964,306</b>	<b>\$104,961,684</b>	<b>\$255,925,990</b>

(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, 2020  
Gross Unlimited Losses

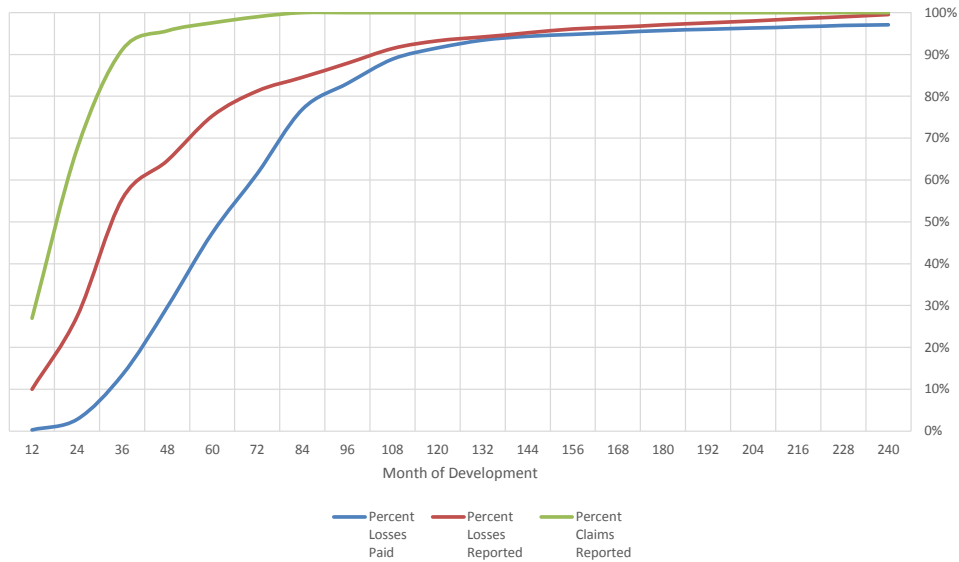
Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Sworn Officers (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Gross Unlimited Paid Losses 11/30/20 (8)	Gross Unlimited Case Reserves 11/30/20 (9)	Gross Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	105	14	\$1,696,734	\$37,000,000	\$38,696,734
2001/02	Unlimited	40,000,000	228.0	Not Provided	1	0	0	0	0
2002/03	Unlimited	45,000,000	216.0	Not Provided	98	1	1,024,401	4,000,000	5,024,401
2003/04	Unlimited	None	204.0	Not Provided	105	0	51,374,033	0	51,374,033
2004/05	Unlimited	25,000,000	192.0	Not Provided	104	1	1,371,302	50,000	1,421,302
2005/06	Unlimited	25,000,000	180.0	Not Provided	140	2	2,658,785	1,500,000	4,158,785
2006/07	Unlimited	None	168.0	Not Provided	183	0	2,403,373	0	2,403,373
2007/08	Unlimited	None	156.0	Not Provided	192	1	12,296,710	1,000,000	13,296,710
2008/09	Unlimited	None	144.0	Not Provided	242	0	4,392,748	0	4,392,748
2009/10	Unlimited	None	132.0	Not Provided	228	1	6,601,655	1,000	6,602,655
2010/11	Unlimited	None	120.0	Not Provided	210	1	31,143,025	100,000	31,243,025
2011/12	Unlimited	None	108.0	Not Provided	370	2	3,329,458	846,500	4,175,958
2012/13	Unlimited	None	96.0	Not Provided	445	5	9,557,834	2,020,000	11,558,834
2013/14	Unlimited	None	84.0	Not Provided	625	7	9,971,600	17,262,000	27,233,600
2014/15	Unlimited	None	72.0	6,022	390	16	2,893,537	3,150,000	6,043,537
2015/16	Unlimited	None	60.0	5,881	346	31	4,299,392	7,896,200	12,195,592
2016/17	Unlimited	None	48.0	5,451	303	61	4,799,970	13,858,384	18,658,354
2017/18	Unlimited	None	36.0	5,319	244	105	1,078,459	7,242,450	8,320,909
2018/19	Unlimited	None	24.0	5,054	131	86	67,790	6,005,850	6,073,640
2019/20	Unlimited	None	12.0	4,883	59	50	3,500	3,048,300	3,051,800
<b>Total</b>					<b>4,521</b>	<b>384</b>	<b>\$150,964,306</b>	<b>\$104,980,684</b>	<b>\$255,925,990</b>

(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	99.5%	100.0%	100.0%
288.0	99.3%	100.0%	100.0%
276.0	99.0%	100.0%	100.0%
264.0	98.6%	100.0%	100.0%
252.0	98.0%	99.9%	100.0%
240.0	97.1%	99.5%	100.0%
228.0	96.9%	99.0%	100.0%
216.0	96.6%	98.5%	100.0%
204.0	96.3%	98.0%	100.0%
192.0	96.0%	97.5%	100.0%
180.0	95.7%	97.1%	100.0%
168.0	95.3%	96.6%	100.0%
156.0	94.8%	96.1%	100.0%
144.0	94.3%	95.1%	100.0%
132.0	93.4%	94.2%	100.0%
120.0	91.6%	93.3%	100.0%
108.0	88.9%	91.4%	100.0%
96.0	83.1%	87.9%	100.0%
84.0	76.9%	84.5%	100.0%
72.0	61.5%	81.3%	99.0%
60.0	47.3%	75.3%	97.5%
48.0	29.6%	64.6%	95.6%
36.0	13.4%	55.5%	91.1%
24.0	2.8%	27.5%	67.5%
12.0	0.3%	10.0%	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).

COOK COUNTY, ILLINOIS  
LAW ENFORCEMENT LIABILITY

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 2000/01																				\$1,697	\$1,697
2001/02																				0	0
2002/03																				0	0
2003/04																				0	0
2004/05																				0	0
2005/06																				0	0
2006/07																				0	0
2007/08																				0	0
2008/09																				0	0
2009/10																				0	0
2010/11																				0	0
2011/12																				0	0
2012/13																				0	0
2013/14																				0	0
2014/15																				0	0
2015/16																				0	0
2016/17																				0	0
2017/18																				0	0
2018/19																				0	0
2019/20																				0	0

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 2000/01																				1.000
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																				
2019/20																				
Average																				
All																				
Wtd 3																				
Last 3																				
Last 5																				
x-hi,low																				
Previous																				
Selected																				
Cumulative																				
Percent																				

1.03

Amounts are limited (net of excess insurance).

Data was provided by the County.

COOK COUNTY, ILLINOIS  
LAW ENFORCEMENT LIABILITY

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 2000/01																				\$16,697	\$38,697
2001/02															0	0	0	0	0	0	0
2002/03														1,024	1,024	1,024	1,024	5,024			
2003/04													51,374	51,374	51,374	51,374	51,374				
2004/05												2,371	1,871	1,373	1,371	1,421					
2005/06											2,599	2,699	3,599	4,099	4,159						
2006/07										2,360	2,378	2,403	2,403	2,403							
2007/08									11,734	12,234	12,297	13,297	13,297								
2008/09								4,397	4,387	4,387	4,393										
2009/10							5,446	5,606	5,726	6,603	6,603										
2010/11						41,667	14,926	27,523	31,243	31,243											
2011/12					3,127	3,377	3,339	3,332	4,176												
2012/13				10,078	10,232	10,097	10,509	11,559													
2013/14			11,995	10,353	15,377	22,768	27,234														
2014/15		3,011	3,614	6,837	9,740	6,044															
2015/16	842	2,642	10,408	13,413	12,196																
2016/17	3,946	10,334	17,927	18,658																	
2017/18	1,222	8,240	8,321																		
2018/19	2,214	6,074																			
2019/20	3,052																				

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 2000/01																				2,318
2001/02														1,000	1,000	1,000	4,905			
2002/03													1,000	1,000	1,000	1,000				
2003/04												0.789	0.734	0.999	1.036					
2004/05											1.038	1.333	1.139	1.015						
2005/06										1.008	1.011	1.000	1.000							
2006/07									1.043	1.005	1.081	1.000								
2007/08								0.998	1.000	1.001	1.000									
2008/09								1.030	1.021	1.153	1.000									
2009/10							0.358	1.844	1.135	1.000										
2010/11					1.080	0.989	0.998	1.253												
2011/12				1.015	0.987	1.041	1.100													
2012/13			0.863	1.485	1.481	1.196														
2013/14		1.200	1.892	1.425	0.620															
2014/15	3.138	3.939	1.289	0.909																
2015/16	2.619	1.735	1.041																	
2016/17	6.745	1.010																		
2017/18	2.743																			
2018/19																				
2019/20																				
Average																				
All	3.811	1.971	1.271	1.209	1.042	0.896	1.243	1.102	1.049	1.003	1.033	1.031	0.968	1.003	1.012	1.000	4.905		2.318	
Wtd 3	3.339	1.728	1.218	1.219	1.101	1.134	1.474	1.128	1.021	1.003	1.054	1.049	1.000	1.001	1.001	1.000				
Last 3	4.035	2.228	1.407	1.273	1.029	1.075	1.314	1.137	1.051	1.002	1.031	1.111	0.958	1.004	1.012					
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	1.000
Selected	2.750	2.020	1.165	1.165	1.080	1.040	1.040	1.040	1.020	1.010	1.010	1.010	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005
Cumulative	10.017	3.643	1.803	1.548	1.329	1.230	1.183	1.137	1.094	1.072	1.062	1.051	1.041	1.036	1.030	1.025	1.020	1.015	1.010	1.005
Percent	10.0%	27.5%	55.5%	64.6%	75.3%	81.3%	84.5%	87.9%	91.4%	93.3%	94.2%	95.1%	96.1%	96.6%	97.1%	97.5%	98.0%	98.5%	99.0%	99.5%

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 2000/01																				103	105
2001/02																1	1	1	1	1	1
2002/03															97	97	97	97	98		
2003/04													104	104	105	105	105	105			
2004/05												102	102	103	103	103	104				
2005/06											136	137	137	138	140						
2006/07										183	183	183	183	183							
2007/08									191	191	191	191	192	192							
2008/09									241	241	241	242	242								
2009/10							226	228	228	228	228	228									
2010/11						207	208	210	210	210											
2011/12					365	369	369	369	370												
2012/13				428	438	441	443	445													
2013/14			582	616	622	624	625														
2014/15		285	372	382	386	390															
2015/16	98	251	330	343	346																
2016/17	100	227	288	303																	
2017/18	78	205	244																		
2018/19	58	131																			
2019/20	59																				

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 2000/01																				1.019	
2001/02															1.000	1.000	1.000	1.000	1.000		
2002/03														1.000	1.000	1.000	1.010				
2003/04													1.010	1.000	1.000	1.000					
2004/05												1.000	1.010	1.000	1.010						
2005/06											1.007	1.000	1.007	1.014							
2006/07										1.000	1.000	1.000	1.000								
2007/08									1.000	1.000	1.005	1.000									
2008/09								1.000	1.000	1.004	1.000										
2009/10							1.009	1.000	1.000	1.000											
2010/11						1.005	1.010	1.000	1.000												
2011/12					1.011	1.000	1.000	1.003													
2012/13				1.023	1.007	1.005	1.005														
2013/14			1.058	1.010	1.003	1.002															
2014/15		1.305	1.027	1.010	1.010																
2015/16	2.561	1.315	1.039	1.009																	
2016/17	2.270	1.269	1.052																		
2017/18	2.628	1.190																			
2018/19	2.259																				
2019/20																					
Average																					
All	2.430	1.270	1.044	1.013	1.008	1.003	1.006	1.001	1.000	1.001	1.003	1.000	1.007	1.004	1.002	1.000	1.005	1.000	1.019		
Wtd 3	2.386	1.262	1.038	1.010	1.006	1.002	1.004	1.001	1.000	1.002	1.002	1.000	1.005	1.006	1.003	1.000					
Last 3	2.386	1.258	1.039	1.010	1.007	1.002	1.005	1.001	1.000	1.001	1.002	1.000	1.006	1.005	1.003	1.000					
Last 5																					
x-hi,low																					
Previous	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	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	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	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%	100.0%

Data was provided by the County.

COOK COUNTY, ILLINOIS  
LAW ENFORCEMENT LIABILITY

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 2000/01																				10.2%	4.4%
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																					
2019/20																					
<b>Average</b>																					
All	16.9%	14.4%	18.9%	34.3%	43.0%	51.6%	74.4%	80.3%	87.0%	90.7%	99.7%	89.3%	87.6%	92.7%	91.0%	98.8%	100.0%	20.4%	10.2%	4.4%	
Last 3	0.5%	15.5%	16.8%	25.4%	40.5%	53.6%	75.0%	69.6%	92.5%	99.9%	100.0%	97.5%	88.2%	87.8%	88.0%	98.8%					
Last 5	0.5%	11.8%	17.1%	25.4%	41.4%	53.6%	78.8%	91.9%	92.5%	99.5%	100.0%	96.3%	88.6%	100.0%							
x-hi,low																					
Implicit	2.7%	10.3%	24.2%	45.8%	62.9%	75.7%	91.0%	94.5%	97.2%	98.2%	99.1%	99.1%	98.6%	98.6%	98.6%	98.5%	98.3%	98.1%	97.9%	97.6%	
Prior	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%	

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/20 (2)	Limited Paid Losses 11/30/20 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 2000/01	240.0	\$1,696,734	97.1%	\$1,747,636
2001/02	228.0	0	96.9%	0
2002/03	216.0	1,024,401	96.6%	1,060,415
2003/04	204.0	51,374,033	96.3%	53,339,688
2004/05	192.0	1,371,302	96.0%	1,428,042
2005/06	180.0	2,658,785	95.7%	2,777,102
2006/07	168.0	2,403,373	95.3%	2,522,876
2007/08	156.0	12,296,710	94.8%	12,972,681
2008/09	144.0	4,392,748	94.3%	4,657,396
2009/10	132.0	6,601,655	93.4%	7,069,376
2010/11	120.0	31,143,025	91.6%	34,016,467
2011/12	108.0	3,329,458	88.9%	3,745,753
2012/13	96.0	9,557,834	83.1%	11,505,590
2013/14	84.0	9,971,600	76.9%	12,963,970
2014/15	72.0	2,893,537	61.5%	4,702,320
2015/16	60.0	4,299,392	47.3%	9,083,089
2016/17	48.0	4,799,970	29.6%	16,225,012
2017/18	36.0	1,078,459	13.4%	8,019,972
2018/19	24.0	67,790	2.8%	2,394,561
2019/20	12.0	3,500	0.3%	1,298,136
<b>Total</b>		<b>\$150,964,306</b>		<b>\$191,530,082</b>

\* - 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 11/30/20 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 2000/01	240.0	\$38,696,734	99.5%	\$38,890,218
2001/02	228.0	0	99.0%	0
2002/03	216.0	5,024,401	98.5%	5,100,144
2003/04	204.0	51,374,033	98.0%	52,409,245
2004/05	192.0	1,421,302	97.5%	1,457,192
2005/06	180.0	4,158,785	97.1%	4,285,119
2006/07	168.0	2,403,373	96.6%	2,488,763
2007/08	156.0	13,296,710	96.1%	13,837,980
2008/09	144.0	4,392,748	95.1%	4,617,279
2009/10	132.0	6,602,655	94.2%	7,009,546
2010/11	120.0	31,243,025	93.3%	33,500,068
2011/12	108.0	4,175,958	91.4%	4,567,188
2012/13	96.0	11,558,834	87.9%	13,147,409
2013/14	84.0	27,233,600	84.5%	32,215,473
2014/15	72.0	6,043,537	81.3%	7,435,052
2015/16	60.0	12,195,592	75.3%	16,203,896
2016/17	48.0	18,658,354	64.6%	28,881,238
2017/18	36.0	8,320,909	55.5%	15,005,110
2018/19	24.0	6,073,640	27.5%	22,124,262
2019/20	12.0	3,051,800	10.0%	30,570,922
<b>Total</b>		<b>\$255,925,990</b>		<b>\$333,746,105</b>

\* - 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 11/30/20 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/20 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/20 (6)	Limited Case Reserves 11/30/20 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 2000/01	240.0	97.1%	99.5%	82.9%	\$1,696,734	\$37,000,000	\$46,318,734
2001/02	228.0	96.9%	99.0%	68.0%	0	0	0
2002/03	216.0	96.6%	98.5%	56.3%	1,024,401	4,000,000	8,132,825
2003/04	204.0	96.3%	98.0%	46.4%	51,374,033	0	51,374,033
2004/05	192.0	96.0%	97.5%	38.0%	1,371,302	50,000	1,502,839
2005/06	180.0	95.7%	97.1%	30.8%	2,658,785	1,500,000	7,528,735
2006/07	168.0	95.3%	96.6%	27.6%	2,403,373	0	2,403,373
2007/08	156.0	94.8%	96.1%	24.9%	12,296,710	1,000,000	16,307,286
2008/09	144.0	94.3%	95.1%	14.4%	4,392,748	0	4,392,748
2009/10	132.0	93.4%	94.2%	12.3%	6,601,655	1,000	6,609,810
2010/11	120.0	91.6%	93.3%	20.2%	31,143,025	100,000	31,637,077
2011/12	108.0	88.9%	91.4%	22.9%	3,329,458	846,500	7,022,150
2012/13	96.0	83.1%	87.9%	28.6%	9,557,834	2,001,000	16,548,052
2013/14	84.0	76.9%	84.5%	33.0%	9,971,600	17,262,000	62,274,849
2014/15	72.0	61.5%	81.3%	51.3%	2,893,537	3,150,000	9,028,533
2015/16	60.0	47.3%	75.3%	53.0%	4,299,392	7,896,200	19,189,167
2016/17	48.0	29.6%	64.6%	49.7%	4,799,970	13,858,384	32,665,663
2017/18	36.0	13.4%	55.5%	48.5%	1,078,459	7,242,450	16,001,198
2018/19	24.0	2.8%	27.5%	25.3%	67,790	6,005,850	23,770,027
2019/20	12.0	0.3%	10.0%	9.7%	3,500	3,048,300	31,302,367
Total					\$150,964,306	\$104,961,684	\$394,009,468

\* - 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 2019/20

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 2000/01	\$1,747,636	\$38,890,218	\$46,318,734	\$38,890,218
2001/02	0	0	0	0
2002/03	1,060,415	5,100,144	8,132,825	5,100,144
2003/04	53,339,688	52,409,245	51,374,033	52,409,245
2004/05	1,428,042	1,457,192	1,502,839	1,457,192
2005/06	2,777,102	4,285,119	7,528,735	4,285,119
2006/07	2,522,876	2,488,763	2,403,373	2,488,763
2007/08	12,972,681	13,837,980	16,307,286	13,837,980
2008/09	4,657,396	4,617,279	4,392,748	4,617,279
2009/10	7,069,376	7,009,546	6,609,810	7,009,546
2010/11	34,016,467	33,500,068	31,637,077	33,500,068
2011/12	3,745,753	4,567,188	7,022,150	4,567,188
2012/13	11,505,590	13,147,409	16,548,052	13,147,409
2013/14	12,963,970	32,215,473	62,274,849	32,215,473
2014/15	4,702,320	7,435,052	9,028,533	7,435,052
2015/16	9,083,089	16,203,896	19,189,167	16,203,896
2016/17	16,225,012	28,881,238	32,665,663	28,881,238
2017/18	8,019,972	15,005,110	16,001,198	15,005,110
2018/19	2,394,561	22,124,262	23,770,027	22,124,262
2019/20	1,298,136	30,570,922	31,302,367	30,570,922
<b>Total</b>	<b>\$191,530,082</b>	<b>\$333,746,105</b>	<b>\$394,009,468</b>	<b>\$333,746,105</b>

(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.

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 (2020/21 = 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)
2010/11	\$33,500,068	6,022	\$5,562.95	1.480	\$8,234.52	\$2,544.17
2011/12	4,567,188	6,022	758.42	1.423	1,079.46	2,645.94
2012/13	13,147,409	6,022	2,183.23	1.369	2,987.90	2,751.77
2013/14	32,215,473	6,022	5,349.63	1.316	7,039.75	2,861.85
2014/15	7,435,052	6,022	1,234.65	1.265	1,562.22	2,976.32
2015/16	16,203,896	5,881	2,755.30	1.217	3,352.24	3,095.37
2016/17	28,881,238	5,451	5,298.34	1.170	6,198.31	3,219.19
2017/18	15,005,110	5,319	2,821.04	1.125	3,173.29	3,347.95
2018/19	22,124,262	5,054	4,377.57	1.082	4,734.78	3,481.87
2019/20	30,570,922	4,883	6,260.68	1.040	6,511.11	3,621.15
(7) Projected 2020/21 a-priori loss rate per Sworn Officer			\$3,591.85		\$3,765.99	

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/20 (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)
2015/16	\$4,299,392	47.3%	\$3,095.37	5,881	\$9,587,253	\$13,886,645
2016/17	4,799,970	29.6%	3,219.19	5,451	12,356,493	17,156,463
2017/18	1,078,459	13.4%	3,347.95	5,319	15,413,132	16,491,591
2018/19	67,790	2.8%	3,481.87	5,054	17,099,208	17,166,998
2019/20	3,500	0.3%	3,621.15	4,883	17,634,392	17,637,892

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/20 (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)
2015/16	\$12,195,592	75.3%	\$3,095.37	5,881	\$4,503,035	\$16,698,627
2016/17	18,658,354	64.6%	3,219.19	5,451	6,211,266	24,869,619
2017/18	8,320,909	55.5%	3,347.95	5,319	7,932,680	16,253,589
2018/19	6,073,640	27.5%	3,481.87	5,054	12,766,483	18,840,123
2019/20	3,051,800	10.0%	3,621.15	4,883	15,916,921	18,968,721

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 11/30/20 (2)	Reported Claims 11/30/20 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Sworn Officers (6)	Frequency (per 100 Sworn Officers) (5)/(6)X100 (7)
2010/11	120.0	210	100.0%	210	6,022	3.49
2011/12	108.0	370	100.0%	370	6,022	6.14
2012/13	96.0	445	100.0%	445	6,022	7.39
2013/14	84.0	625	100.0%	625	6,022	10.38
2014/15	72.0	390	99.0%	394	6,022	6.54
2015/16	60.0	346	97.5%	355	5,881	6.04
2016/17	48.0	303	95.6%	317	5,451	5.82
2017/18	36.0	244	91.1%	268	5,319	5.04
2018/19	24.0	131	67.5%	194	5,054	3.84
2019/20	12.0	59	27.0%	219	4,883	4.48

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2020/21 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2020/21 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2010/11	\$33,500,068	210	\$159,524	1.480	\$236,135	\$42,067	\$8,834,077
2011/12	4,567,188	370	12,344	1.423	17,569	43,750	16,187,395
2012/13	13,147,409	445	29,545	1.369	40,434	45,500	20,247,369
2013/14	32,215,473	625	51,545	1.316	67,829	47,320	29,574,808
2014/15	7,435,052	394	18,871	1.265	23,877	49,212	19,389,717
2015/16	16,203,896	355	45,645	1.217	55,534	51,181	18,169,248
2016/17	28,881,238	317	91,108	1.170	106,583	53,228	16,873,345
2017/18	15,005,110	268	55,989	1.125	62,980	55,357	14,835,769
2018/19	22,124,262	194	114,043	1.082	123,348	57,572	11,168,898
2019/20	30,570,922	219	139,593	1.040	145,177	59,875	13,112,517
						(7) Projected 2020/21 average claim severity \$62,269	

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 2019/20

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 2000/01	\$1,747,636	\$38,890,218	\$46,318,734				\$16,699,000	\$45,000,000
2001/02	0	0	0					0
2002/03	1,060,415	5,100,144	8,132,825				1,024,401	5,100,000
2003/04	53,339,688	52,409,245	51,374,033				51,374,033	51,374,033
2004/05	1,428,042	1,457,192	1,502,839				1,371,302	1,430,000
2005/06	2,777,102	4,285,119	7,528,735				4,439,000	4,439,000
2006/07	2,522,876	2,488,763	2,403,373				2,435,000	2,403,373
2007/08	12,972,681	13,837,980	16,307,286				13,565,000	13,565,000
2008/09	4,657,396	4,617,279	4,392,748				4,392,748	4,392,748
2009/10	7,069,376	7,009,546	6,609,810				6,604,000	6,610,000
2010/11	34,016,467	33,500,068	31,637,077				31,400,000	31,400,000
2011/12	3,745,753	4,567,188	7,022,150				3,469,000	4,600,000
2012/13	11,505,590	13,147,409	16,548,052				11,593,000	13,000,000
2013/14	12,963,970	32,215,473	62,274,849				24,700,000	30,000,000
2014/15	4,702,320	7,435,052	9,028,533				10,931,000	8,000,000
2015/16	9,083,089	16,203,896	19,189,167	13,886,645	16,698,627	18,169,248	15,000,000	15,000,000
2016/17	16,225,012	28,881,238	32,665,663	17,156,463	24,869,619	16,873,345	20,000,000	21,000,000
2017/18	8,019,972	15,005,110	16,001,198	16,491,591	16,253,589	14,835,769	15,000,000	15,000,000
2018/19	2,394,561	22,124,262	23,770,027	17,166,998	18,840,123	11,168,898	16,000,000	18,000,000
2019/20	1,298,136	30,570,922	31,302,367	17,637,892	18,968,721	13,112,517	16,313,000	18,000,000
<b>Total</b>	<b>\$191,530,082</b>	<b>\$333,746,105</b>	<b>\$394,009,468</b>				<b>\$266,310,484</b>	<b>\$308,314,153</b>
2015/16 - 2019/20	37,020,769	112,785,429	122,928,423	82,339,589	95,630,678	74,159,778	82,313,000	87,000,000
to 2014/15	154,509,312	220,960,676	271,081,045				183,997,484	221,314,153
						<b>Change</b>		
						All years		\$42,003,670
						2015/16 - 2019/20		4,687,000
						to 2014/15		37,316,670

(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 2020/21 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 (2020/21 = 1.000) (5)	Trended Limited Loss Rate per Sworn Officer (4)X(5) (6)
2010/11	\$31,400,000	6,022	\$5,214.21	1.480	\$7,718.31
2011/12	4,600,000	6,022	763.87	1.423	1,087.22
2012/13	13,000,000	6,022	2,158.75	1.369	2,954.40
2013/14	30,000,000	6,022	4,981.73	1.316	6,555.62
2014/15	8,000,000	6,022	1,328.46	1.265	1,680.93
2015/16	15,000,000	5,881	2,550.59	1.217	3,103.18
2016/17	21,000,000	5,451	3,852.50	1.170	4,506.88
2017/18	15,000,000	5,319	2,820.08	1.125	3,172.21
2018/19	18,000,000	5,054	3,561.54	1.082	3,852.16
2019/20	18,000,000	4,883	3,686.26	1.040	3,833.71
Total	\$174,000,000	56,698	\$3,068.89		\$3,846.46

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)
2020/21	\$3,707.39	4,759	\$17,643,000	0.99	\$3,665.17	\$17,443,000
2021/22	3,855.68	4,759	18,349,000	0.99	3,811.78	18,140,000
2022/23	4,009.91	4,759	19,083,000	0.99	3,964.25	18,866,000

(2) is from Exhibit LEL-9.

(3) 2014/15, 2015/16, 2016/17, 2017/18, 2018/19 and 2019/20 were provided by the County. Other periods assume a 0% trend.

(5) is based on a 4% trend.

(7) 2020/21 is based on (6) and actuarial judgment.  
Other period(s) based on 2020/21 plus a 4% trend.

(8) to 2020/21 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit LEL-2.

Estimated Outstanding Losses as of November 30, 2020

Claim Period (1)	Limited Paid Losses 11/30/20 (2)	Limited Case Reserves 11/30/20 (3)	Limited Reported Incurred Losses 11/30/20 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/20 (5)-(4) (6)	Estimated Outstanding Losses 11/30/20 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/20 (7)X(8) (9)
to 2000/01	\$1,696,734	\$37,000,000	\$38,696,734	\$45,000,000	\$6,303,266	\$43,303,266	0.99	\$43,076,880
2001/02	0	0	0	0	0	0	0.99	0
2002/03	1,024,401	4,000,000	5,024,401	5,100,000	75,599	4,075,599	0.99	4,043,160
2003/04	51,374,033	0	51,374,033	51,374,033	0	0	0.99	0
2004/05	1,371,302	50,000	1,421,302	1,430,000	8,698	58,698	0.99	58,094
2005/06	2,658,785	1,500,000	4,158,785	4,439,000	280,215	1,780,215	0.99	1,759,898
2006/07	2,403,373	0	2,403,373	2,403,373	0	0	0.99	0
2007/08	12,296,710	1,000,000	13,296,710	13,565,000	268,290	1,268,290	0.99	1,252,132
2008/09	4,392,748	0	4,392,748	4,392,748	0	0	0.99	0
2009/10	6,601,655	1,000	6,602,655	6,610,000	7,345	8,345	0.99	8,234
2010/11	31,143,025	100,000	31,243,025	31,400,000	156,975	256,975	0.99	253,865
2011/12	3,329,458	846,500	4,175,958	4,600,000	424,042	1,270,542	0.99	1,256,757
2012/13	9,557,834	2,001,000	11,558,834	13,000,000	1,441,166	3,442,166	0.99	3,412,288
2013/14	9,971,600	17,262,000	27,233,600	30,000,000	2,766,400	20,028,400	0.99	19,868,219
2014/15	2,893,537	3,150,000	6,043,537	8,000,000	1,956,463	5,106,463	0.99	5,074,254
2015/16	4,299,392	7,896,200	12,195,592	15,000,000	2,804,408	10,700,608	0.99	10,633,848
2016/17	4,799,970	13,858,384	18,658,354	21,000,000	2,341,646	16,200,030	0.99	16,097,729
2017/18	1,078,459	7,242,450	8,320,909	15,000,000	6,679,091	13,921,541	0.99	13,826,213
2018/19	67,790	6,005,850	6,073,640	18,000,000	11,926,360	17,932,210	0.99	17,790,892
2019/20	3,500	3,048,300	3,051,800	18,000,000	14,948,200	17,996,500	0.99	17,824,890
<b>Total</b>	<b>\$150,964,306</b>	<b>\$104,961,684</b>	<b>\$255,925,990</b>	<b>\$308,314,153</b>	<b>\$52,388,164</b>	<b>\$157,349,848</b>		<b>\$156,237,353</b>

(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 0.19% interest rate and the payout pattern in Exhibit LEL-2.





COOK COUNTY, ILLINOIS  
LAW ENFORCEMENT LIABILITY

Exhibit LEL-12

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 2000/01	240.0	97.1%	252.0	98.0%	15.0% *	\$43,303,266	\$6,495,490	\$36,807,776	0.99	\$36,617,285
2001/02	228.0	96.9%	240.0	97.1%	6.2% *	0	0	0	0.99	0
2002/03	216.0	96.6%	228.0	96.9%	8.5% *	4,075,599	347,785	3,727,814	0.99	3,702,727
2003/04	204.0	96.3%	216.0	96.6%	7.8% *	0	0	0	0.99	0
2004/05	192.0	96.0%	204.0	96.3%	7.3% *	58,698	4,256	54,442	0.99	53,944
2005/06	180.0	95.7%	192.0	96.0%	6.7% *	1,780,215	120,013	1,660,202	0.99	1,643,115
2006/07	168.0	95.3%	180.0	95.7%	10.1% *	0	0	0	0.99	0
2007/08	156.0	94.8%	168.0	95.3%	9.1% *	1,268,290	115,358	1,152,932	0.99	1,139,043
2008/09	144.0	94.3%	156.0	94.8%	8.3% *	0	0	0	0.99	0
2009/10	132.0	93.4%	144.0	94.3%	14.1% *	8,345	1,178	7,167	0.99	7,070
2010/11	120.0	91.6%	132.0	93.4%	15.0% *	256,975	38,546	218,429	0.99	215,520
2011/12	108.0	88.9%	120.0	91.6%	15.0% *	1,270,542	190,581	1,079,961	0.99	1,066,892
2012/13	96.0	83.1%	108.0	88.9%	15.0% *	3,442,166	516,325	2,925,841	0.99	2,894,097
2013/14	84.0	76.9%	96.0	83.1%	15.0% *	20,028,400	3,004,260	17,024,140	0.99	16,876,371
2014/15	72.0	61.5%	84.0	76.9%	15.0% *	5,106,463	765,969	4,340,494	0.99	4,305,780
2015/16	60.0	47.3%	72.0	61.5%	15.0% *	10,700,608	1,605,091	9,095,517	0.99	9,038,148
2016/17	48.0	29.6%	60.0	47.3%	15.0% *	16,200,030	2,430,005	13,770,025	0.99	13,684,115
2017/18	36.0	13.4%	48.0	29.6%	15.0% *	13,921,541	2,088,231	11,833,310	0.99	11,758,584
2018/19	24.0	2.8%	36.0	13.4%	10.9% *	17,932,210	1,959,181	15,973,029	0.99	15,863,654
2019/20	12.0	0.3%	24.0	2.8%	2.6% *	17,996,500	462,202	17,534,298	0.99	17,396,116
2020/21	0.0	0.0%	12.0	0.3%	0.3% *	17,643,000	47,569	17,595,431	0.99	17,427,645
Total						\$174,992,848	\$20,192,040	\$154,800,808		\$153,690,106

\* - 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-11. The amount for 2020/21 is from Exhibit LEL-10.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit LEL-2.



COOK COUNTY, ILLINOIS  
LAW ENFORCEMENT LIABILITY

Exhibit LEL-13

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 2000/01	252.0	98.0%	264.0	98.6%	15.0% *	\$36,807,776	\$5,521,166	\$31,286,610	0.99	\$31,127,048
2001/02	240.0	97.1%	252.0	98.0%	15.0% *	0	0	0	0.99	0
2002/03	228.0	96.9%	240.0	97.1%	6.2% *	3,727,814	232,552	3,495,262	0.99	3,476,989
2003/04	216.0	96.6%	228.0	96.9%	8.5% *	0	0	0	0.99	0
2004/05	204.0	96.3%	216.0	96.6%	7.8% *	54,442	4,269	50,173	0.99	49,774
2005/06	192.0	96.0%	204.0	96.3%	7.3% *	1,660,202	120,373	1,539,829	0.99	1,525,750
2006/07	180.0	95.7%	192.0	96.0%	6.7% *	0	0	0	0.99	0
2007/08	168.0	95.3%	180.0	95.7%	10.1% *	1,152,932	115,935	1,036,997	0.99	1,025,162
2008/09	156.0	94.8%	168.0	95.3%	9.1% *	0	0	0	0.99	0
2009/10	144.0	94.3%	156.0	94.8%	8.3% *	7,167	595	6,572	0.99	6,488
2010/11	132.0	93.4%	144.0	94.3%	14.1% *	218,429	30,830	187,599	0.99	185,070
2011/12	120.0	91.6%	132.0	93.4%	15.0% *	1,079,961	161,994	917,967	0.99	905,743
2012/13	108.0	88.9%	120.0	91.6%	15.0% *	2,925,841	438,876	2,486,965	0.99	2,456,869
2013/14	96.0	83.1%	108.0	88.9%	15.0% *	17,024,140	2,553,621	14,470,519	0.99	14,313,523
2014/15	84.0	76.9%	96.0	83.1%	15.0% *	4,340,494	651,074	3,689,420	0.99	3,657,396
2015/16	72.0	61.5%	84.0	76.9%	15.0% *	9,095,517	1,364,328	7,731,189	0.99	7,669,357
2016/17	60.0	47.3%	72.0	61.5%	15.0% *	13,770,025	2,065,504	11,704,521	0.99	11,630,695
2017/18	48.0	29.6%	60.0	47.3%	15.0% *	11,833,310	1,774,997	10,058,313	0.99	9,995,560
2018/19	36.0	13.4%	48.0	29.6%	15.0% *	15,973,029	2,395,954	13,577,075	0.99	13,491,338
2019/20	24.0	2.8%	36.0	13.4%	10.9% *	17,534,298	1,915,707	15,618,591	0.99	15,511,643
2020/21	12.0	0.3%	24.0	2.8%	2.6% *	17,595,431	451,902	17,143,529	0.99	17,008,427
2021/22	0.0	0.0%	12.0	0.3%	0.3% *	18,349,000	49,472	18,299,528	0.99	18,125,028
Total						\$173,149,808	\$19,849,149	\$153,300,659		\$152,161,860

\* - 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-12, (9). The amount for 2021/22 is from Exhibit LEL-10.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit LEL-2.



COOK COUNTY, ILLINOIS  
LAW ENFORCEMENT LIABILITY

Exhibit LEL-14

Projected Losses Paid December 1, 2022 to November 30, 2023

Claim Period (1)	Months of Development 11/30/22 (2)	Percent Losses Paid (3)	Months of Development 11/30/23 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/22 to 11/30/23 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/22 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/23 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/23 (9)X(10) (11)
to 2000/01	264.0	98.6%	276.0	99.0%	15.0% *	\$31,286,610	\$4,692,992	\$26,593,618	1.00	\$26,460,857
2001/02	252.0	98.0%	264.0	98.6%	15.0% *	0	0	0	0.99	0
2002/03	240.0	97.1%	252.0	98.0%	15.0% *	3,495,262	524,289	2,970,973	0.99	2,955,597
2003/04	228.0	96.9%	240.0	97.1%	6.2% *	0	0	0	0.99	0
2004/05	216.0	96.6%	228.0	96.9%	8.5% *	50,173	4,281	45,892	0.99	45,583
2005/06	204.0	96.3%	216.0	96.6%	7.8% *	1,539,829	120,734	1,419,095	0.99	1,407,800
2006/07	192.0	96.0%	204.0	96.3%	7.3% *	0	0	0	0.99	0
2007/08	180.0	95.7%	192.0	96.0%	6.7% *	1,036,997	69,909	967,088	0.99	957,135
2008/09	168.0	95.3%	180.0	95.7%	10.1% *	0	0	0	0.99	0
2009/10	156.0	94.8%	168.0	95.3%	9.1% *	6,572	598	5,974	0.99	5,902
2010/11	144.0	94.3%	156.0	94.8%	8.3% *	187,599	15,569	172,030	0.99	169,838
2011/12	132.0	93.4%	144.0	94.3%	14.1% *	917,967	129,567	788,400	0.99	777,774
2012/13	120.0	91.6%	132.0	93.4%	15.0% *	2,486,965	373,045	2,113,920	0.99	2,085,769
2013/14	108.0	88.9%	120.0	91.6%	15.0% *	14,470,519	2,170,578	12,299,941	0.99	12,151,095
2014/15	96.0	83.1%	108.0	88.9%	15.0% *	3,689,420	553,413	3,136,007	0.99	3,101,983
2015/16	84.0	76.9%	96.0	83.1%	15.0% *	7,731,189	1,159,678	6,571,511	0.99	6,514,470
2016/17	72.0	61.5%	84.0	76.9%	15.0% *	11,704,521	1,755,678	9,948,843	0.99	9,869,275
2017/18	60.0	47.3%	72.0	61.5%	15.0% *	10,058,313	1,508,747	8,549,566	0.99	8,495,640
2018/19	48.0	29.6%	60.0	47.3%	15.0% *	13,577,075	2,036,561	11,540,514	0.99	11,468,514
2019/20	36.0	13.4%	48.0	29.6%	15.0% *	15,618,591	2,342,789	13,275,802	0.99	13,191,967
2020/21	24.0	2.8%	36.0	13.4%	10.9% *	17,143,529	1,873,013	15,270,516	0.99	15,165,951
2021/22	12.0	0.3%	24.0	2.8%	2.6% *	18,299,528	469,985	17,829,543	0.99	17,689,034
2022/23	0.0	0.0%	12.0	0.3%	0.3% *	19,083,000	51,451	19,031,549	0.99	18,850,069
<b>Total</b>						<b>\$172,383,659</b>	<b>\$19,852,877</b>	<b>\$152,530,782</b>		<b>\$151,364,253</b>

\* - Limited to a maximum of 15% per actuarial judgment.

(3) and (5) are from Exhibit LEL-2.

(7) to 2021/22 is from Exhibit LEL-13, (9). The amount for 2022/23 is from Exhibit LEL-10.

(10) is based on a 0.19% 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 11/30/20 (5)	Unlimited Case Reserves 11/30/20 (6)	Unlimited Reported Incurred Losses 11/30/20 (7)
202009960	08/02/92	to 2000/01	Unlimited	\$0	\$2,000,000	\$2,000,000
199304086	06/28/93	to 2000/01	Unlimited	0	10,000,000	10,000,000
199404022	04/01/94	to 2000/01	Unlimited	0	3,000,000	3,000,000
199508268	12/14/95	to 2000/01	Unlimited	0	10,000,000	10,000,000
199804152	01/01/98	to 2000/01	Unlimited	0	3,000,000	3,000,000
199804197	04/05/98	to 2000/01	Unlimited	0	2,000,000	2,000,000
202009959	03/18/03	2002/03	9,500,000	0	4,000,000	4,000,000
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
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
97009513	04/27/10	2009/10	10,000,000	3,214,250	0	3,214,250
97011202	11/16/11	2010/11	10,000,000	7,990,000	0	7,990,000
97009812	11/16/11	2010/11	10,000,000	7,990,000	0	7,990,000
97009834	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
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	12/23/13	2013/14	15,000,000	0	15,000,000 *	15,000,000 *
97012505	10/12/14	2013/14	15,000,000	4,750,000	0	4,750,000
201604331	03/22/16	2015/16	15,000,000	1,700,000	0	1,700,000
201805246	08/06/16	2015/16	15,000,000	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	15,000,000	0	10,000,000 *	10,000,000 *
201703028	05/02/17	2016/17	15,000,000	3,250,000	0	3,250,000
201808057	09/05/18	2017/18	20,000,000	0	5,000,000	5,000,000

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)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	1,643	95	73	48	21	7	1,887		
0.01 - 5,000	941	146	127	99	52	15	1,380	1,380	52.4%
5,000 - 10,000	343	47	34	26	16	10	476	1,856	70.5%
10,000 - 25,000	220	30	30	31	19	17	347	2,203	83.6%
25,000 - 50,000	112	15	20	27	10	4	188	2,391	90.8%
50,000 - 100,000	70	4	12	11	3	3	103	2,494	94.7%
100,000 - 250,000	37	5	3	0	4	1	50	2,544	96.6%
250,000 - 500,000	27	1	0	1	4	0	33	2,577	97.8%
500,000 - 750,000	12	0	0	0	0	0	12	2,589	98.3%
750,000 - 1,000,000	13	0	2	0	2	2	19	2,608	99.0%
Over 1,000,000	20	3	2	1	0	0	26	2,634	100.0%
<b>Total</b>	<b>3,438</b>	<b>346</b>	<b>303</b>	<b>244</b>	<b>131</b>	<b>59</b>	<b>4,521</b>	<b>2,634</b>	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (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	1,934,262	279,520	260,194	192,909	131,940	35,800	2,834,625	2,834,625	1.1%
5,000 - 10,000	2,829,424	385,375	285,549	231,000	136,700	96,000	3,964,048	6,798,673	2.7%
10,000 - 25,000	3,749,988	497,623	565,501	562,000	400,000	300,000	6,075,112	12,873,785	5.0%
25,000 - 50,000	4,243,014	613,074	732,000	1,105,000	450,000	180,000	7,323,088	20,196,872	7.9%
50,000 - 100,000	5,394,294	280,000	985,426	955,000	255,000	240,000	8,109,720	28,306,593	11.1%
100,000 - 250,000	6,832,334	990,000	579,684	0	900,000	200,000	9,502,018	37,808,611	14.8%
250,000 - 500,000	10,520,788	450,000	0	275,000	1,800,000	0	13,045,788	50,854,399	19.9%
500,000 - 750,000	8,079,501	0	0	0	0	0	8,079,501	58,933,900	23.0%
750,000 - 1,000,000	12,619,963	0	2,000,000	0	2,000,000	2,000,000	18,619,963	77,553,863	30.3%
Over 1,000,000	151,422,126	8,700,000	13,250,000	5,000,000	0	0	178,372,126	255,925,990	100.0%
<b>Total</b>	<b>\$207,625,695</b>	<b>\$12,195,592</b>	<b>\$18,658,354</b>	<b>\$8,320,909</b>	<b>\$6,073,640</b>	<b>\$3,051,800</b>	<b>\$255,925,990</b>	<b>\$255,925,990</b>	

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

Data was provided by the County.

CookCounty\_LEL\_113020.xlsx

Data Summary as of November 30, 2020  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Revenue (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Limited Paid Losses 11/30/20 (8)	Limited Case Reserves 11/30/20 (9)	Limited Reported Incurred Losses 11/30/20 (10)
to 2000/01	See Note	See Note	240.0	Not Provided	1,593	0	\$96,113,455	\$0	\$96,113,455
2001/02	9,500,000	40,000,000	228.0	1,057,079	162	0	12,153,693	0	12,153,693
2002/03	9,500,000	45,000,000	216.0	1,086,728	87	0	5,220,383	0	5,220,383
2003/04	10,000,000	None	204.0	1,199,434	74	0	16,951,620	0	16,951,620
2004/05	10,000,000	25,000,000	192.0	1,189,789	61	2	10,843,636	200,000	11,043,636
2005/06	10,000,000	25,000,000	180.0	1,357,723	94	0	4,023,510	0	4,023,510
2006/07	10,000,000	None	168.0	1,243,144	140	3	6,971,160	3,622,000	10,593,160
2007/08	10,000,000	None	156.0	1,207,801	78	0	1,287,951	0	1,287,951
2008/09	10,000,000	None	144.0	1,303,812	87	1	1,983,037	5,218,155	7,201,192
2009/10	10,000,000	None	132.0	1,287,986	98	1	1,711,869	100,000	1,811,869
2010/11	10,000,000	None	120.0	1,293,078	84	5	1,958,703	3,454,601	5,413,304
2011/12	10,000,000	None	108.0	1,331,769	53	4	2,729,791	2,026,000	4,755,791
2012/13	15,000,000	None	96.0	1,285,791	69	9	1,219,378	4,980,000	6,199,378
2013/14	15,000,000	None	84.0	1,362,902	54	8	951,531	5,247,000	6,198,531
2014/15	15,000,000	None	72.0	1,509,150	64	12	15,526,498	1,845,001	17,371,499
2015/16	15,000,000	None	60.0	1,699,156	66	31	1,888,129	11,441,500	13,329,629
2016/17	15,000,000	None	48.0	1,753,287	64	35	246,242	6,696,000	6,942,242
2017/18	20,000,000	None	36.0	1,675,248	39	27	4,295,600	5,039,000	9,334,600
2018/19	20,000,000	None	24.0	1,719,805	40	28	647,152	2,382,600	3,029,752
2019/20	30,000,000	None	12.0	Not Provided	23	14	525	360,000	360,525
<b>Total</b>					<b>3,030</b>	<b>180</b>	<b>\$186,723,861</b>	<b>\$52,611,857</b>	<b>\$239,335,718</b>

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

Effective Date	Retention	Aggregate
12/01/77	Unlimited	None
12/01/00	9,500,000	40,000,000
12/01/03	10,000,000	see column (3)
03/01/13	15,000,000	see column (3)
07/01/18	20,000,000	see column (3)
07/01/20	30,000,000	see column (3)

(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, 2020  
Net Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Revenue (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Net Unlimited Paid Losses 11/30/20 (8)	Net Unlimited Case Reserves 11/30/20 (9)	Net Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	1,593	0	\$96,113,455	\$0	\$96,113,455
2001/02	Unlimited	40,000,000	228.0	1,057,079	162	0	12,153,693	0	12,153,693
2002/03	Unlimited	45,000,000	216.0	1,086,728	87	0	5,220,383	0	5,220,383
2003/04	Unlimited	None	204.0	1,199,434	74	0	16,951,620	0	16,951,620
2004/05	Unlimited	25,000,000	192.0	1,189,789	61	2	10,843,636	200,000	11,043,636
2005/06	Unlimited	25,000,000	180.0	1,357,723	94	0	4,023,510	0	4,023,510
2006/07	Unlimited	None	168.0	1,243,144	140	3	6,971,160	3,622,000	10,593,160
2007/08	Unlimited	None	156.0	1,207,801	78	0	1,287,951	0	1,287,951
2008/09	Unlimited	None	144.0	1,303,812	87	1	1,983,037	5,218,155	7,201,192
2009/10	Unlimited	None	132.0	1,287,986	98	1	1,711,869	100,000	1,811,869
2010/11	Unlimited	None	120.0	1,293,078	84	5	1,958,703	3,454,601	5,413,304
2011/12	Unlimited	None	108.0	1,331,769	53	4	2,729,791	2,026,000	4,755,791
2012/13	Unlimited	None	96.0	1,285,791	69	9	1,219,378	4,980,000	6,199,378
2013/14	Unlimited	None	84.0	1,362,902	54	8	951,531	5,247,000	6,198,531
2014/15	Unlimited	None	72.0	1,509,150	64	12	15,526,498	11,845,001	27,371,499
2015/16	Unlimited	None	60.0	1,699,156	66	31	1,888,129	11,441,500	13,329,629
2016/17	Unlimited	None	48.0	1,753,287	64	35	246,242	6,696,000	6,942,242
2017/18	Unlimited	None	36.0	1,675,248	39	27	4,295,600	5,039,000	9,334,600
2018/19	Unlimited	None	24.0	1,719,805	40	28	647,152	2,382,600	3,029,752
2019/20	Unlimited	None	12.0	Not Provided	23	14	525	360,000	360,525
<b>Total</b>					<b>3,030</b>	<b>180</b>	<b>\$186,723,861</b>	<b>\$62,611,857</b>	<b>\$249,335,718</b>

(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, 2020  
Gross Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/20 (4)	Revenue (000) (5)	Reported Claims 11/30/20 (6)	Open Claims 11/30/20 (7)	Gross Unlimited Paid Losses 11/30/20 (8)	Gross Unlimited Case Reserves 11/30/20 (9)	Gross Unlimited Reported Incurred Losses 11/30/20 (10)
to 2000/01	Unlimited	See Note	240.0	Not Provided	1,593	0	\$96,113,455	\$0	\$96,113,455
2001/02	Unlimited	40,000,000	228.0	1,057,079	162	0	12,153,693	0	12,153,693
2002/03	Unlimited	45,000,000	216.0	1,086,728	87	0	5,220,383	0	5,220,383
2003/04	Unlimited	None	204.0	1,199,434	74	0	16,951,620	0	16,951,620
2004/05	Unlimited	25,000,000	192.0	1,189,789	61	2	10,843,636	200,000	11,043,636
2005/06	Unlimited	25,000,000	180.0	1,357,723	94	0	4,023,510	0	4,023,510
2006/07	Unlimited	None	168.0	1,243,144	140	3	6,971,160	3,622,000	10,593,160
2007/08	Unlimited	None	156.0	1,207,801	78	0	1,287,951	0	1,287,951
2008/09	Unlimited	None	144.0	1,303,812	87	1	1,983,037	5,218,155	7,201,192
2009/10	Unlimited	None	132.0	1,287,986	98	1	1,711,869	100,000	1,811,869
2010/11	Unlimited	None	120.0	1,293,078	84	5	1,958,703	3,454,601	5,413,304
2011/12	Unlimited	None	108.0	1,331,769	53	4	2,729,791	2,026,000	4,755,791
2012/13	Unlimited	None	96.0	1,285,791	69	9	1,219,378	4,980,000	6,199,378
2013/14	Unlimited	None	84.0	1,362,902	54	8	951,531	5,247,000	6,198,531
2014/15	Unlimited	None	72.0	1,509,150	64	12	15,526,498	26,065,000	27,371,499
2015/16	Unlimited	None	60.0	1,699,156	66	31	1,888,129	11,446,500	13,329,629
2016/17	Unlimited	None	48.0	1,753,287	64	35	246,242	6,696,000	6,942,242
2017/18	Unlimited	None	36.0	1,675,248	39	27	4,295,600	5,039,000	9,334,600
2018/19	Unlimited	None	24.0	1,719,805	40	28	647,152	2,382,600	3,029,752
2019/20	Unlimited	None	12.0	Not Provided	23	14	525	360,000	360,525
<b>Total</b>					<b>3,030</b>	<b>180</b>	<b>\$186,723,861</b>	<b>\$76,836,856</b>	<b>\$249,335,718</b>

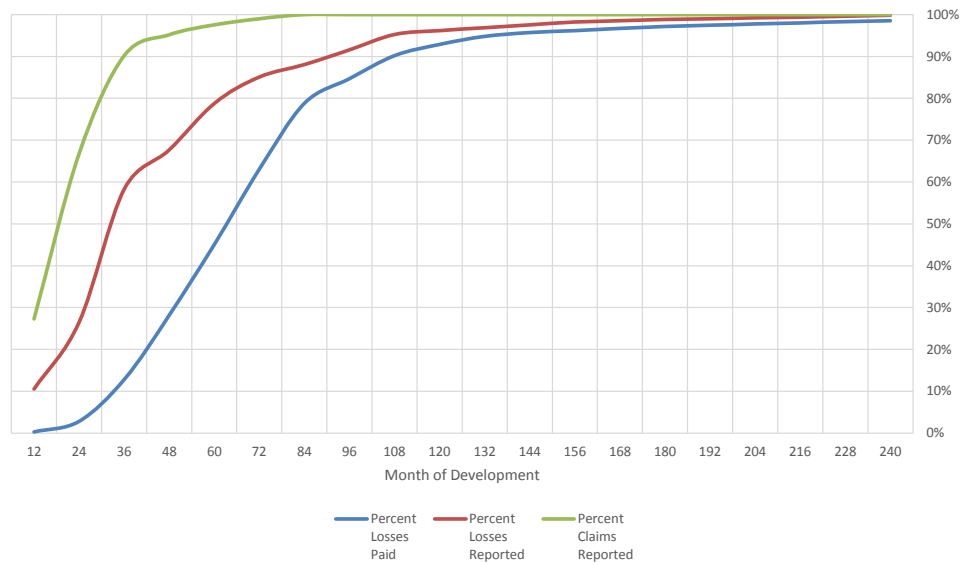
(8), (9) and (10) are gross of the specific self-insured retention and other recoveries.

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	98.3%	99.6%	100.0%
216.0	98.0%	99.4%	100.0%
204.0	97.7%	99.2%	100.0%
192.0	97.4%	99.0%	100.0%
180.0	97.2%	98.8%	100.0%
168.0	96.7%	98.5%	100.0%
156.0	96.2%	98.2%	100.0%
144.0	95.7%	97.5%	100.0%
132.0	94.8%	96.9%	100.0%
120.0	92.9%	96.2%	100.0%
108.0	90.2%	95.2%	100.0%
96.0	84.7%	91.6%	100.0%
84.0	78.8%	88.0%	100.0%
72.0	63.0%	85.1%	99.0%
60.0	45.0%	78.8%	97.5%
48.0	28.1%	67.6%	95.2%
36.0	12.8%	58.3%	90.2%
24.0	2.8%	26.5%	66.8%
12.0	0.3%	10.5%	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).

COOK COUNTY, ILLINOIS  
OTHER LIABILITY

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 2000/01																				\$97,810	\$97,810
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	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	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	68,326	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	12,215					
2005/06	14	168	1,304	2,657	2,692	2,733	3,193	3,193	5,633	5,633	5,798	6,622	6,622	6,622	6,682						
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	9,375							
2007/08	17	192	637	976	5,549	5,664	6,099	6,791	7,940	8,022	13,585	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	6,376									
2009/10	4	237	991	1,904	2,818	3,438	6,958	7,187	7,337	8,314	8,314										
2010/11	53	250	1,333	1,712	2,379	2,929	8,888	9,132	33,102	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	10,777													
2013/14	22	241	1,705	8,283	9,514	10,214	10,923														
2014/15	165	516	1,554	2,517	3,880	18,420															
2015/16	204	659	1,576	3,977	6,188																
2016/17	3,302	3,702	4,683	5,046																	
2017/18	4,288	5,094	5,374																		
2018/19	16	715																			
2019/20	4																				

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 2000/01																				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	1.000	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	1.000	1.000	1.000	1.000	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	1.000	1.000	1.000	1.000	1.000
2004/05		5.823	3.485	1.039	1.550	1.525	1.094	1.000	1.000	1.000	1.000	1.007	1.000	1.000	2.591					
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	1.009						
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	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	1.000								
2008/09	3.035	4.397	1.365	2.045	1.305	1.395	1.097	1.037	1.000	1.089	1.000									
2009/10	67.791	4.175	1.922	1.480	1.220	2.024	1.033	1.021	1.133	1.000										
2010/11	4.730	5.324	1.285	1.389	1.232	3.034	1.027	3.625	1.000											
2011/12	12.286	1.620	1.304	1.389	1.579	1.034	1.029	1.000												
2012/13	8.075	4.712	2.144	1.702	2.005	1.265	1.004													
2013/14	10.827	7.068	4.858	1.149	1.074	1.069														
2014/15	3.132	3.010	1.619	1.542	4.747															
2015/16	3.230	2.390	2.524	1.556																
2016/17	1.121	1.265	1.078																	
2017/18	1.188	1.055																		
2018/19	44.337																			
2019/20																				
Average																				
All	13.043	4.506	2.337	1.989	2.025	1.506	1.279	1.339	1.048	1.099	1.021	1.004	1.007	1.004	1.389	1.000	1.000	1.000	1.000	1.000
Wtd 3	1.250	1.230	1.477	1.325	2.106	1.129	1.018	2.078	1.021	1.274	1.002	1.000	1.000	1.001	1.095	1.000				
Last 3	15.549	1.570	1.740	1.415	2.609	1.123	1.020	1.882	1.044	1.261	1.002	1.000	1.000	1.003	1.530	1.000				
Last 5	2.517	2.222	2.096	1.495	1.605	1.453	1.030	1.076	1.007	1.041	1.002	1.000	1.000	1.003						
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	4.500	2.200	1.600	1.400	1.250	1.075	1.065	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	369.432	35.184	7.819	3.554	2.221	1.587	1.269	1.181	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%	2.8%	12.8%	28.1%	45.0%	63.0%	78.8%	84.7%	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 2000/01																				\$112,810	\$134,810
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	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	6,245	10,245		
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	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	12,465					
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	8,182						
2006/07	1,767	4,668	4,439	6,087	7,935	9,400	8,815	11,745	9,407	9,447	10,024	9,827	12,997	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	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	11,594									
2009/10	972	3,567	6,505	4,332	8,101	19,458	7,589	7,903	7,538	8,440	8,415										
2010/11	471	2,406	4,757	5,093	19,422	14,285	20,727	30,106	33,851	36,656											
2011/12	4,276	6,052	15,539	7,564	6,747	8,478	9,065	8,088	8,932												
2012/13	1,364	3,956	17,420	11,910	13,338	12,892	13,068	17,758													
2013/14	4,235	13,094	13,326	12,117	20,649	36,286	33,432														
2014/15	753	3,635	24,266	23,922	27,016	23,415															
2015/16	1,148	4,038	19,075	25,224	25,525																
2016/17	9,908	16,275	26,500	25,601																	
2017/18	7,359	17,154	17,656																		
2018/19	4,253	9,103																			
2019/20	3,412																				

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 2000/01																				1.195
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	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	1.641	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	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	0.998					
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	1.007						
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	1.000							
2007/08	2.012	2.299	1.206	1.348	0.950	0.906	0.851	1.224	1.049	0.999	1.071	1.000								
2008/09	1.096	1.693	1.211	1.013	1.238	0.993	1.113	1.216	0.925	1.776	0.967									
2009/10	3.671	1.824	0.666	1.870	2.402	0.390	1.041	0.954	1.120	0.997										
2010/11	5.103	1.977	1.071	3.813	0.736	1.451	1.453	1.124	1.083											
2011/12	1.415	2.568	0.487	0.892	1.257	1.069	0.892	1.104												
2012/13	2.901	4.404	0.684	1.120	0.967	1.014	1.359													
2013/14	3.092	1.018	0.909	1.704	1.757	0.921														
2014/15	4.830	6.676	0.986	1.129	0.867															
2015/16	3.517	4.724	1.322	1.012																
2016/17	1.643	1.628	0.966																	
2017/18	2.331	1.029																		
2018/19	2.140																			
2019/20																				
Average																				
All	2.639	2.373	1.077	1.461	1.245	1.053	1.089	1.087	1.007	1.074	1.015	1.110	0.961	0.971	0.990	1.000	1.320	1.000	1.195	
Wtd 3	1.976	1.688	1.070	1.195	1.190	0.964	1.305	1.092	1.065	1.181	1.010	1.129	0.948	0.975	1.000	1.000				
Last 3	2.038	2.461	1.091	1.282	1.197	1.001	1.235	1.061	1.042	1.257	1.006	1.150	0.973	0.949	0.999	1.000				
Last 5	2.663	2.461	0.954	1.087	1.030	1.001	1.171	1.148	1.045	1.026	1.017	1.075	1.014	1.002						
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	1.000
Selected	2.525	2.200	1.160	1.165	1.080	1.035	1.040	1.040	1.010	1.007	1.007	1.007	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002
Cumulative	9.531	3.774	1.716	1.479	1.270	1.176	1.136	1.092	1.050	1.040	1.032	1.025	1.018	1.015	1.012	1.010	1.008	1.006	1.004	1.002
Percent	10.5%	26.5%	58.3%	67.6%	78.8%	85.1%	88.0%	91.6%	95.2%	96.2%	96.9%	97.5%	98.2%	98.5%	98.8%	99.0%	99.2%	99.4%	99.6%	99.8%

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	12	24	Months of Development:																		
			36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 2000/01																				1,696	1,698
2001/02															163	163	163	163	163	163	
2002/03														184	184	184	184	184	185		
2003/04													178	179	179	179	179				
2004/05												159	161	163	164	165					
2005/06												229	230	231	232	234					
2006/07										323	323	323	323	323							
2007/08									268	269	269	270	270								
2008/09								323	323	326	327	329	329								
2009/10							323	325	325	325	325	326									
2010/11						285	289	292	294	294											
2011/12					413	420	421	422	423												
2012/13				484	500	507	511	514													
2013/14			623	659	672	679	679														
2014/15		304	415	436	448	454															
2015/16	107	280	384	405	412																
2016/17	114	266	345	367																	
2017/18	94	237	283																		
2018/19	89	171																			
2019/20	82																				

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 2000/01																				1.001
2001/02															1.000	1.000	1.000	1.000	1.000	
2002/03														1.000	1.000	1.000	1.005	1.000		
2003/04													1.006	1.000	1.000	1.000				
2004/05												1.013	1.012	1.006	1.006					
2005/06											1.004	1.004	1.004	1.009						
2006/07									1.004	1.000	1.004	1.000	1.000							
2007/08								1.009	1.003	1.006	1.000									
2008/09								1.006	1.000	1.000	1.003									
2009/10							1.014	1.007	1.000											
2010/11					1.017	1.014	1.010	1.007	1.000											
2011/12				1.033	1.014	1.008	1.006	1.002	1.002											
2012/13				1.020	1.010	1.000														
2013/14			1.058	1.028	1.013															
2014/15		1.365	1.051	1.017																
2015/16	2.617	1.371	1.055	1.017																
2016/17	2.333	1.297	1.064																	
2017/18	2.521	1.194																		
2018/19	1.921																			
2019/20																				
Average																				
All	2.348	1.307	1.057	1.024	1.014	1.006	1.006	1.005	1.002	1.002	1.002	1.004	1.006	1.004	1.002	1.000	1.003	1.000	1.001	
Wtd 3	2.269	1.292	1.056	1.021	1.012	1.003	1.006	1.003	1.001	1.003	1.001	1.001	1.004	1.005	1.002	1.000	1.000	1.000		
Last 3	2.259	1.288	1.056	1.022	1.013	1.003	1.006	1.003	1.001	1.003	1.001	1.001	1.006	1.005	1.002	1.000				
Last 5																				
x-hi,low																				
Previous	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
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.

COOK COUNTY, ILLINOIS  
OTHER LIABILITY

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 2000/01																				86.7%	72.6%
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%	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%	100.0%	100.0%	61.0%
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%	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%	98.0%					
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%	81.7%						
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%	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%	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%	55.0%									
2009/10	0.4%	6.7%	15.2%	44.0%	34.8%	17.7%	91.7%	90.9%	97.3%	98.5%	98.8%										
2010/11	11.2%	10.4%	28.0%	33.6%	12.2%	20.5%	42.9%	30.3%	97.8%	90.3%											
2011/12	2.3%	20.3%	12.8%	34.3%	53.4%	67.2%	65.0%	74.9%	67.8%												
2012/13	2.2%	6.2%	6.7%	20.9%	31.7%	65.9%	82.2%	60.7%													
2013/14	0.5%	1.8%	12.8%	68.4%	46.1%	28.1%	32.7%														
2014/15	21.9%	14.2%	6.4%	10.5%	14.4%	78.7%															
2015/16	17.8%	16.3%	8.3%	15.8%	24.2%																
2016/17	33.3%	22.7%	17.7%	19.7%																	
2017/18	58.3%	29.7%	30.4%																		
2018/19	0.4%	7.9%																			
2019/20	0.1%																				
<b>Average</b>																					
All	8.3%	9.5%	15.0%	29.4%	34.9%	47.1%	60.8%	68.9%	79.5%	84.1%	84.8%	83.4%	79.9%	80.9%	83.9%	99.5%	100.0%	80.5%	93.4%	72.6%	
Last 3	19.6%	20.1%	18.8%	15.3%	28.2%	57.6%	59.9%	55.3%	87.7%	91.8%	83.9%	81.2%	83.9%	61.8%	73.1%	99.3%	100.0%				
Last 5	17.2%	17.8%	12.9%	18.8%	34.0%	53.7%	63.3%	75.5%	81.8%	91.7%	94.4%	81.2%	83.9%	84.6%	93.9%						
x-hi,low																					
Implicit	2.6%	10.7%	21.9%	41.6%	57.2%	74.1%	89.5%	92.5%	94.7%	96.6%	97.8%	98.1%	97.9%	98.1%	98.3%	98.4%	98.5%	98.6%	98.7%	98.7%	98.7%
Prior	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%	98.4%	98.5%

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/20 (2)	Limited Paid Losses 11/30/20 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 2000/01	240.0	\$96,113,455	98.5%	\$97,555,157
2001/02	228.0	12,153,693	98.3%	12,360,670
2002/03	216.0	5,220,383	98.0%	5,325,214
2003/04	204.0	16,951,620	97.7%	17,343,903
2004/05	192.0	10,843,636	97.4%	11,127,855
2005/06	180.0	4,023,510	97.2%	4,141,356
2006/07	168.0	6,971,160	96.7%	7,211,218
2007/08	156.0	1,287,951	96.2%	1,338,964
2008/09	144.0	1,983,037	95.7%	2,071,889
2009/10	132.0	1,711,869	94.8%	1,806,457
2010/11	120.0	1,958,703	92.9%	2,108,268
2011/12	108.0	2,729,791	90.2%	3,026,383
2012/13	96.0	1,219,378	84.7%	1,439,735
2013/14	84.0	951,531	78.8%	1,207,745
2014/15	72.0	15,526,498	63.0%	24,634,063
2015/16	60.0	1,888,129	45.0%	4,193,939
2016/17	48.0	246,242	28.1%	875,129
2017/18	36.0	4,295,600	12.8%	33,585,906
2018/19	24.0	647,152	2.8%	22,769,416
2019/20	12.0	525	0.3%	193,952
<b>Total</b>		<b>\$186,723,861</b>		<b>\$254,317,220</b>

\* - 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 11/30/20 (2)	Limited Reported Incurred Losses 11/30/20 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 2000/01	240.0	\$96,113,455	99.8%	\$96,305,682
2001/02	228.0	12,153,693	99.6%	12,202,356
2002/03	216.0	5,220,383	99.4%	5,251,768
2003/04	204.0	16,951,620	99.2%	17,087,640
2004/05	192.0	11,043,636	99.0%	11,154,515
2005/06	180.0	4,023,510	98.8%	4,072,034
2006/07	168.0	10,593,160	98.5%	10,753,078
2007/08	156.0	1,287,951	98.2%	1,311,316
2008/09	144.0	7,201,192	97.5%	7,383,156
2009/10	132.0	1,811,869	96.9%	1,870,656
2010/11	120.0	5,413,304	96.2%	5,628,064
2011/12	108.0	4,755,791	95.2%	4,993,910
2012/13	96.0	6,199,378	91.6%	6,770,168
2013/14	84.0	6,198,531	88.0%	7,040,012
2014/15	72.0	17,371,499	85.1%	20,420,308
2015/16	60.0	13,329,629	78.8%	16,922,589
2016/17	48.0	6,942,242	67.6%	10,267,730
2017/18	36.0	9,334,600	58.3%	16,015,053
2018/19	24.0	3,029,752	26.5%	11,435,691
2019/20	12.0	360,525	10.5%	3,435,992
<b>Total</b>		<b>\$239,335,718</b>		<b>\$270,321,720</b>

\* - 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 11/30/20 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/20 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/20 (6)	Limited Case Reserves 11/30/20 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 2000/01	240.0	98.5%	99.8%	86.5%	\$96,113,455	\$0	\$96,113,455
2001/02	228.0	98.3%	99.6%	76.2%	12,153,693	0	12,153,693
2002/03	216.0	98.0%	99.4%	69.6%	5,220,383	0	5,220,383
2003/04	204.0	97.7%	99.2%	64.8%	16,951,620	0	16,951,620
2004/05	192.0	97.4%	99.0%	61.1%	10,843,636	200,000	11,171,067
2005/06	180.0	97.2%	98.8%	58.1%	4,023,510	0	4,023,510
2006/07	168.0	96.7%	98.5%	55.3%	6,971,160	3,622,000	13,517,842
2007/08	156.0	96.2%	98.2%	53.2%	1,287,951	0	1,287,951
2008/09	144.0	95.7%	97.5%	42.5%	1,983,037	5,218,155	14,252,451
2009/10	132.0	94.8%	96.9%	40.0%	1,711,869	100,000	1,961,980
2010/11	120.0	92.9%	96.2%	46.2%	1,958,703	3,454,601	9,434,348
2011/12	108.0	90.2%	95.2%	51.3%	2,729,791	2,026,000	6,675,572
2012/13	96.0	84.7%	91.6%	44.9%	1,219,378	4,980,000	12,306,988
2013/14	84.0	78.8%	88.0%	43.7%	951,531	5,247,000	12,970,322
2014/15	72.0	63.0%	85.1%	59.6%	15,526,498	1,845,001	18,621,270
2015/16	60.0	45.0%	78.8%	61.4%	1,888,129	11,441,500	20,527,806
2016/17	48.0	28.1%	67.6%	54.9%	246,242	6,696,000	12,436,132
2017/18	36.0	12.8%	58.3%	52.2%	4,295,600	5,039,000	13,954,618
2018/19	24.0	2.8%	26.5%	24.3%	647,152	2,382,600	10,434,563
2019/20	12.0	0.3%	10.5%	10.2%	525	360,000	3,512,836
Total					\$186,723,861	\$52,611,857	\$297,528,405

\* - 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 2019/20

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 2000/01	\$97,555,157	\$96,305,682	\$96,113,455	\$96,113,455
2001/02	12,360,670	12,202,356	12,153,693	12,153,693
2002/03	5,325,214	5,251,768	5,220,383	5,220,383
2003/04	17,343,903	17,087,640	16,951,620	16,951,620
2004/05	11,127,855	11,154,515	11,171,067	11,163,000
2005/06	4,141,356	4,072,034	4,023,510	4,023,510
2006/07	7,211,218	10,753,078	13,517,842	12,135,000
2007/08	1,338,964	1,311,316	1,287,951	1,287,951
2008/09	2,071,889	7,383,156	14,252,451	10,818,000
2009/10	1,806,457	1,870,656	1,961,980	1,916,000
2010/11	2,108,268	5,628,064	9,434,348	7,531,000
2011/12	3,026,383	4,993,910	6,675,572	5,835,000
2012/13	1,439,735	6,770,168	12,306,988	9,539,000
2013/14	1,207,745	7,040,012	12,970,322	10,005,000
2014/15	24,634,063	20,420,308	18,621,270	19,521,000
2015/16	4,193,939	16,922,589	20,527,806	16,923,000
2016/17	875,129	10,267,730	12,436,132	10,268,000
2017/18	33,585,906	16,015,053	13,954,618	16,015,000
2018/19	22,769,416	11,435,691	10,434,563	11,436,000
2019/20	193,952	3,435,992	3,512,836	3,500,000
<b>Total</b>	<b>\$254,317,220</b>	<b>\$270,321,720</b>	<b>\$297,528,405</b>	<b>\$282,355,612</b>

(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 (2020/21 = 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)
2010/11	\$7,531,000	\$1,293,078	\$5.82	1.480	\$8.62	\$6.60
2011/12	5,835,000	1,331,769	4.38	1.423	6.24	6.87
2012/13	9,539,000	1,285,791	7.42	1.369	10.15	7.14
2013/14	10,005,000	1,362,902	7.34	1.316	9.66	7.43
2014/15	19,521,000	1,509,150	12.94	1.265	16.37	7.72
2015/16	16,923,000	1,699,156	9.96	1.217	12.12	8.03
2016/17	10,268,000	1,753,287	5.86	1.170	6.85	8.35
2017/18	16,015,000	1,675,248	9.56	1.125	10.75	8.69
2018/19	11,436,000	1,719,805	6.65	1.082	7.19	9.04
2019/20	3,500,000	1,719,805	2.04	1.040	2.12	9.40
(7) Projected 2020/21 a-priori loss rate per \$1,000 of Revenue					\$9.77	

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/20 (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)
2015/16	\$1,888,129	45.0%	\$8.03	\$1,699,156	\$7,503,608	\$9,391,736
2016/17	246,242	28.1%	8.35	1,753,287	10,525,008	10,771,250
2017/18	4,295,600	12.8%	8.69	1,675,248	12,692,522	16,988,122
2018/19	647,152	2.8%	9.04	1,719,805	15,097,058	15,744,210
2019/20	525	0.3%	9.40	1,719,805	16,116,503	16,117,028

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/20 (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)
2015/16	\$13,329,629	78.8%	\$8.03	\$1,699,156	\$2,897,706	\$16,227,334
2016/17	6,942,242	67.6%	8.35	1,753,287	4,743,540	11,685,782
2017/18	9,334,600	58.3%	8.69	1,675,248	6,070,977	15,405,577
2018/19	3,029,752	26.5%	9.04	1,719,805	11,421,903	14,451,655
2019/20	360,525	10.5%	9.40	1,719,805	14,464,616	14,825,141

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 11/30/20 (2)	Reported Claims 11/30/20 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Revenue (000) (6)	Frequency (per \$1M of Revenue) (5)/(6)X1,000 (7)
2010/11	120.0	84	100.0%	84	\$1,293,078	0.06
2011/12	108.0	53	100.0%	53	1,331,769	0.04
2012/13	96.0	69	100.0%	69	1,285,791	0.05
2013/14	84.0	54	100.0%	54	1,362,902	0.04
2014/15	72.0	64	99.0%	65	1,509,150	0.04
2015/16	60.0	66	97.5%	68	1,699,156	0.04
2016/17	48.0	64	95.2%	67	1,753,287	0.04
2017/18	36.0	39	90.2%	43	1,675,248	0.03
2018/19	24.0	40	66.8%	60	1,719,805	0.03
2019/20	12.0	23	27.3%	84	1,719,805	0.05

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2020/21 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2020/21 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2010/11	\$7,531,000	84	\$89,655	1.480	\$132,711	\$165,858	\$13,932,095
2011/12	5,835,000	53	110,094	1.423	156,699	172,493	9,142,108
2012/13	9,539,000	69	138,246	1.369	189,200	179,392	12,378,069
2013/14	10,005,000	54	185,278	1.316	243,813	186,568	10,074,672
2014/15	19,521,000	65	300,323	1.265	380,005	194,031	12,611,996
2015/16	16,923,000	68	248,868	1.217	302,786	201,792	13,721,852
2016/17	10,268,000	67	153,254	1.170	179,285	209,864	14,060,863
2017/18	16,015,000	43	372,442	1.125	418,946	218,258	9,385,101
2018/19	11,436,000	60	190,600	1.082	206,153	226,988	13,619,310
2019/20	3,500,000	84	41,667	1.040	43,333	236,068	19,829,715
						(7) Projected 2020/21 average claim severity \$245,511	

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 2019/20

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 2000/01	\$97,555,157	\$96,305,682	\$96,113,455				\$96,160,376	\$96,113,455
2001/02	12,360,670	12,202,356	12,153,693				12,153,693	12,153,693
2002/03	5,325,214	5,251,768	5,220,383				5,220,383	5,220,383
2003/04	17,343,903	17,087,640	16,951,620				16,951,620	16,951,620
2004/05	11,127,855	11,154,515	11,171,067				11,208,000	11,140,000
2005/06	4,141,356	4,072,034	4,023,510				4,023,510	4,023,510
2006/07	7,211,218	10,753,078	13,517,842				10,732,000	10,732,000
2007/08	1,338,964	1,311,316	1,287,951				1,287,951	1,287,951
2008/09	2,071,889	7,383,156	14,252,451				8,000,000	7,300,000
2009/10	1,806,457	1,870,656	1,961,980				1,948,000	1,900,000
2010/11	2,108,268	5,628,064	9,434,348				3,200,000	5,600,000
2011/12	3,026,383	4,993,910	6,675,572				5,882,000	5,000,000
2012/13	1,439,735	6,770,168	12,306,988				3,353,000	6,800,000
2013/14	1,207,745	7,040,012	12,970,322				15,000,000	7,000,000
2014/15	24,634,063	20,420,308	18,621,270				19,500,000	19,500,000
2015/16	4,193,939	16,922,589	20,527,806	9,391,736	16,227,334	13,721,852	14,400,000	14,400,000
2016/17	875,129	10,267,730	12,436,132	10,771,250	11,685,782	14,060,863	14,600,000	11,000,000
2017/18	33,585,906	16,015,053	13,954,618	16,988,122	15,405,577	9,385,101	20,000,000	16,000,000
2018/19	22,769,416	11,435,691	10,434,563	15,744,210	14,451,655	13,619,310	17,500,000	15,000,000
2019/20	193,952	3,435,992	3,512,836	16,117,028	14,825,141	19,829,715	16,869,000	15,500,000
<b>Total</b>	<b>\$254,317,220</b>	<b>\$270,321,720</b>	<b>\$297,528,405</b>				<b>\$297,989,533</b>	<b>\$282,622,612</b>
2015/16 - 2019/20	61,618,343	58,077,055	60,865,954	69,012,346	72,595,490	70,616,840	83,369,000	71,900,000
to 2014/15	192,698,877	212,244,665	236,662,451				214,620,533	210,722,612
						<b>Change</b>		
						All years		-\$15,366,921
						2015/16 - 2019/20		-11,469,000
						to 2014/15		-3,897,921

(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 2020/21 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 (2020/21 = 1.000) (5)	Trended Limited Loss Rate per \$1,000 of Revenue (4)X(5) (6)
2010/11	\$5,600,000	\$1,293,078	\$4.33	1.480	\$6.41
2011/12	5,000,000	1,331,769	3.75	1.423	5.34
2012/13	6,800,000	1,285,791	5.29	1.369	7.24
2013/14	7,000,000	1,362,902	5.14	1.316	6.76
2014/15	19,500,000	1,509,150	12.92	1.265	16.35
2015/16	14,400,000	1,699,156	8.47	1.217	10.31
2016/17	11,000,000	1,753,287	6.27	1.170	7.34
2017/18	16,000,000	1,675,248	9.55	1.125	10.74
2018/19	15,000,000	1,719,805	8.72	1.082	9.43
2019/20	15,500,000	1,719,805	9.01	1.040	9.37
Total	\$115,800,000	\$15,349,991	\$7.54		\$8.93

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)
2020/21	\$9.15	\$1,719,805	\$15,739,000	0.99	\$9.05	\$15,566,000
2021/22	9.52	1,719,805	16,369,000	0.99	9.41	16,189,000
2022/23	9.90	1,719,805	17,024,000	0.99	9.79	16,836,000

(2) is from Exhibit OL-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 4% trend.

(7) 2020/21 is based on (6) and actuarial judgment.  
Other period(s) based on 2020/21 plus a 4% trend.

(8) is based on (3) for 2019/20 and a 0% trend.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit OL-2.

Estimated Outstanding Losses as of November 30, 2020

Claim Period (1)	Limited Paid Losses 11/30/20 (2)	Limited Case Reserves 11/30/20 (3)	Limited Reported Incurred Losses 11/30/20 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/20 (5)-(4) (6)	Estimated Outstanding Losses 11/30/20 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/20 (7)X(8) (9)
to 2000/01	\$96,113,455	\$0	\$96,113,455	\$96,113,455	\$0	\$0	0.99	\$0
2001/02	12,153,693	0	12,153,693	12,153,693	0	0	0.99	0
2002/03	5,220,383	0	5,220,383	5,220,383	0	0	0.99	0
2003/04	16,951,620	0	16,951,620	16,951,620	0	0	0.99	0
2004/05	10,843,636	200,000	11,043,636	11,140,000	96,364	296,364	0.99	293,736
2005/06	4,023,510	0	4,023,510	4,023,510	0	0	0.99	0
2006/07	6,971,160	3,622,000	10,593,160	10,732,000	138,840	3,760,840	0.99	3,722,959
2007/08	1,287,951	0	1,287,951	1,287,951	0	0	0.99	0
2008/09	1,983,037	5,218,155	7,201,192	7,300,000	98,808	5,316,963	0.99	5,257,650
2009/10	1,711,869	100,000	1,811,869	1,900,000	88,131	188,131	0.99	186,091
2010/11	1,958,703	3,454,601	5,413,304	5,600,000	186,696	3,641,297	0.99	3,606,207
2011/12	2,729,791	2,026,000	4,755,791	5,000,000	244,209	2,270,209	0.99	2,250,691
2012/13	1,219,378	4,980,000	6,199,378	6,800,000	600,622	5,580,622	0.99	5,541,278
2013/14	951,531	5,247,000	6,198,531	7,000,000	801,469	6,048,469	0.99	6,007,889
2014/15	15,526,498	1,845,001	17,371,499	19,500,000	2,128,501	3,973,502	0.99	3,952,304
2015/16	1,888,129	11,441,500	13,329,629	14,400,000	1,070,371	12,511,871	0.99	12,447,227
2016/17	246,242	6,696,000	6,942,242	11,000,000	4,057,758	10,753,758	0.99	10,693,332
2017/18	4,295,600	5,039,000	9,334,600	16,000,000	6,665,400	11,704,400	0.99	11,630,065
2018/19	647,152	2,382,600	3,029,752	15,000,000	11,970,248	14,352,848	0.99	14,245,355
2019/20	525	360,000	360,525	15,500,000	15,139,475	15,499,475	0.99	15,357,588
<b>Total</b>	<b>\$186,723,861</b>	<b>\$52,611,857</b>	<b>\$239,335,718</b>	<b>\$282,622,612</b>	<b>\$43,286,892</b>	<b>\$95,898,749</b>		<b>\$95,192,372</b>

(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 0.19% interest rate and the payout pattern in Exhibit OL-2.



COOK COUNTY, ILLINOIS  
OTHER LIABILITY

Exhibit OL-12

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 2000/01	240.0	98.5%	252.0	99.0%	10.0% *	\$0	\$0	\$0	0.99	\$0
2001/02	228.0	98.3%	240.0	98.5%	10.0% *	0	0	0	0.99	0
2002/03	216.0	98.0%	228.0	98.3%	10.0% *	0	0	0	0.99	0
2003/04	204.0	97.7%	216.0	98.0%	10.0% *	0	0	0	0.99	0
2004/05	192.0	97.4%	204.0	97.7%	10.0% *	296,364	29,636	266,728	0.99	264,591
2005/06	180.0	97.2%	192.0	97.4%	10.0% *	0	0	0	0.99	0
2006/07	168.0	96.7%	180.0	97.2%	10.0% *	3,760,840	376,084	3,384,756	0.99	3,351,774
2007/08	156.0	96.2%	168.0	96.7%	10.0% *	0	0	0	0.99	0
2008/09	144.0	95.7%	156.0	96.2%	10.0% *	5,316,963	531,696	4,785,267	0.99	4,734,729
2009/10	132.0	94.8%	144.0	95.7%	10.0% *	188,131	18,813	169,318	0.99	167,429
2010/11	120.0	92.9%	132.0	94.8%	10.0% *	3,641,297	364,130	3,277,167	0.99	3,241,629
2011/12	108.0	90.2%	120.0	92.9%	10.0% *	2,270,209	227,021	2,043,188	0.99	2,023,498
2012/13	96.0	84.7%	108.0	90.2%	10.0% *	5,580,622	558,062	5,022,560	0.99	4,979,379
2013/14	84.0	78.8%	96.0	84.7%	10.0% *	6,048,469	604,847	5,443,622	0.99	5,405,244
2014/15	72.0	63.0%	84.0	78.8%	10.0% *	3,973,502	397,350	3,576,152	0.99	3,552,159
2015/16	60.0	45.0%	72.0	63.0%	10.0% *	12,511,871	1,251,187	11,260,684	0.99	11,200,610
2016/17	48.0	28.1%	60.0	45.0%	10.0% *	10,753,758	1,075,376	9,678,382	0.99	9,628,377
2017/18	36.0	12.8%	48.0	28.1%	10.0% *	11,704,400	1,170,440	10,533,960	0.99	10,474,769
2018/19	24.0	2.8%	36.0	12.8%	10.0% *	14,352,848	1,435,285	12,917,563	0.99	12,835,523
2019/20	12.0	0.3%	24.0	2.8%	2.6% *	15,499,475	399,653	15,099,822	0.99	14,986,735
2020/21	0.0	0.0%	12.0	0.3%	0.3% *	15,739,000	42,603	15,696,397	0.99	15,552,707
Total						\$111,637,749	\$8,482,183	\$103,155,566		\$102,399,153

\* - 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-11. The amount for 2020/21 is from Exhibit OL-10.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit OL-2.



COOK COUNTY, ILLINOIS  
OTHER LIABILITY

Exhibit OL-13

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 2000/01	252.0	99.0%	264.0	99.3%	10.0% *	\$0	\$0	\$0	0.99	\$0
2001/02	240.0	98.5%	252.0	99.0%	10.0% *	0	0	0	0.99	0
2002/03	228.0	98.3%	240.0	98.5%	10.0% *	0	0	0	0.99	0
2003/04	216.0	98.0%	228.0	98.3%	10.0% *	0	0	0	0.99	0
2004/05	204.0	97.7%	216.0	98.0%	10.0% *	266,728	26,673	240,055	0.99	238,331
2005/06	192.0	97.4%	204.0	97.7%	10.0% *	0	0	0	0.99	0
2006/07	180.0	97.2%	192.0	97.4%	10.0% *	3,384,756	338,476	3,046,280	0.99	3,019,264
2007/08	168.0	96.7%	180.0	97.2%	10.0% *	0	0	0	0.99	0
2008/09	156.0	96.2%	168.0	96.7%	10.0% *	4,785,267	478,527	4,306,740	0.99	4,263,360
2009/10	144.0	95.7%	156.0	96.2%	10.0% *	169,318	16,932	152,386	0.99	150,777
2010/11	132.0	94.8%	144.0	95.7%	10.0% *	3,277,167	327,717	2,949,450	0.99	2,916,548
2011/12	120.0	92.9%	132.0	94.8%	10.0% *	2,043,188	204,319	1,838,869	0.99	1,818,928
2012/13	108.0	90.2%	120.0	92.9%	10.0% *	5,022,560	502,256	4,520,304	0.99	4,476,743
2013/14	96.0	84.7%	108.0	90.2%	10.0% *	5,443,622	544,362	4,899,260	0.99	4,857,139
2014/15	84.0	78.8%	96.0	84.7%	10.0% *	3,576,152	357,615	3,218,537	0.99	3,195,846
2015/16	72.0	63.0%	84.0	78.8%	10.0% *	11,260,684	1,126,068	10,134,616	0.99	10,066,622
2016/17	60.0	45.0%	72.0	63.0%	10.0% *	9,678,382	967,838	8,710,544	0.99	8,664,074
2017/18	48.0	28.1%	60.0	45.0%	10.0% *	10,533,960	1,053,396	9,480,564	0.99	9,431,581
2018/19	36.0	12.8%	48.0	28.1%	10.0% *	12,917,563	1,291,756	11,625,807	0.99	11,560,481
2019/20	24.0	2.8%	36.0	12.8%	10.0% *	15,099,822	1,509,982	13,589,840	0.99	13,503,531
2020/21	12.0	0.3%	24.0	2.8%	2.6% *	15,696,397	404,730	15,291,667	0.99	15,177,143
2021/22	0.0	0.0%	12.0	0.3%	0.3% *	16,369,000	44,309	16,324,691	0.99	16,175,250
Total						\$119,524,566	\$9,194,956	\$110,329,610		\$109,515,618

\* - 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-12, (9). The amount for 2021/22 is from Exhibit OL-10.

(10) is based on a 0.19% interest rate and the payout pattern in Exhibit OL-2.



Projected Losses Paid December 1, 2022 to November 30, 2023

Claim Period (1)	Months of Development 11/30/22 (2)	Percent Losses Paid (3)	Months of Development 11/30/23 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/22 to 11/30/23 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/22 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/23 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/23 (9)X(10) (11)
to 2000/01	264.0	99.3%	276.0	99.5%	10.0% *	\$0	\$0	\$0	1.00	\$0
2001/02	252.0	99.0%	264.0	99.3%	10.0% *	0	0	0	0.99	0
2002/03	240.0	98.5%	252.0	99.0%	10.0% *	0	0	0	0.99	0
2003/04	228.0	98.3%	240.0	98.5%	10.0% *	0	0	0	0.99	0
2004/05	216.0	98.0%	228.0	98.3%	10.0% *	240,055	24,006	216,049	0.99	214,668
2005/06	204.0	97.7%	216.0	98.0%	10.0% *	0	0	0	0.99	0
2006/07	192.0	97.4%	204.0	97.7%	10.0% *	3,046,280	304,628	2,741,652	0.99	2,719,689
2007/08	180.0	97.2%	192.0	97.4%	10.0% *	0	0	0	0.99	0
2008/09	168.0	96.7%	180.0	97.2%	10.0% *	4,306,740	430,674	3,876,066	0.99	3,838,296
2009/10	156.0	96.2%	168.0	96.7%	10.0% *	152,386	15,239	137,147	0.99	135,766
2010/11	144.0	95.7%	156.0	96.2%	10.0% *	2,949,450	294,945	2,654,505	0.99	2,626,471
2011/12	132.0	94.8%	144.0	95.7%	10.0% *	1,838,869	183,887	1,654,982	0.99	1,636,520
2012/13	120.0	92.9%	132.0	94.8%	10.0% *	4,520,304	452,030	4,068,274	0.99	4,024,158
2013/14	108.0	90.2%	120.0	92.9%	10.0% *	4,899,260	489,926	4,409,334	0.99	4,366,842
2014/15	96.0	84.7%	108.0	90.2%	10.0% *	3,218,537	321,854	2,896,683	0.99	2,871,779
2015/16	84.0	78.8%	96.0	84.7%	10.0% *	10,134,616	1,013,462	9,121,154	0.99	9,056,849
2016/17	72.0	63.0%	84.0	78.8%	10.0% *	8,710,544	871,054	7,839,490	0.99	7,786,894
2017/18	60.0	45.0%	72.0	63.0%	10.0% *	9,480,564	948,056	8,532,508	0.99	8,486,988
2018/19	48.0	28.1%	60.0	45.0%	10.0% *	11,625,807	1,162,581	10,463,226	0.99	10,409,166
2019/20	36.0	12.8%	48.0	28.1%	10.0% *	13,589,840	1,358,984	12,230,856	0.99	12,162,130
2020/21	24.0	2.8%	36.0	12.8%	10.0% *	15,291,667	1,529,167	13,762,500	0.99	13,675,094
2021/22	12.0	0.3%	24.0	2.8%	2.6% *	16,324,691	420,931	15,903,760	0.99	15,784,652
2022/23	0.0	0.0%	12.0	0.3%	0.3% *	17,024,000	46,081	16,977,919	0.99	16,822,498
<b>Total</b>						<b>\$127,353,610</b>	<b>\$9,867,505</b>	<b>\$117,486,105</b>		<b>\$116,618,460</b>

\* - Limited to a maximum of 10% per actuarial judgment.

(3) and (5) are from Exhibit OL-2.

(7) to 2021/22 is from Exhibit OL-13, (9). The amount for 2022/23 is from Exhibit OL-10.

(10) is based on a 0.19% 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 11/30/20 (5)	Unlimited Case Reserves 11/30/20 (6)	Unlimited Reported Incurred Losses 11/30/20 (7)
97001740	05/12/78	to 2000/01	Unlimited	\$37,869,997	\$0	\$37,869,997
97001561	05/13/78	to 2000/01	Unlimited	4,000,000	0	4,000,000
97002759	01/01/89	to 2000/01	Unlimited	1,898,909	0	1,898,909
97002994	02/01/92	to 2000/01	Unlimited	1,250,000	0	1,250,000
97003314	01/01/94	to 2000/01	Unlimited	6,760,000	0	6,760,000
97001793	04/17/95	to 2000/01	Unlimited	6,882,500	0	6,882,500
97002254	09/19/95	to 2000/01	Unlimited	2,000,000	0	2,000,000
97003820	01/01/01	to 2000/01	9,500,000	4,006,000	0	4,006,000
97006027	03/11/01	to 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	10,000,000	7,500,000	0	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
97010214	03/08/11	2010/11	10,000,000	0	3,000,000	3,000,000
201203771	01/01/12	2011/12	10,000,000	0	2,000,000	2,000,000
201404988	01/01/13	2012/13	10,000,000	0	4,000,000	4,000,000
201404102	01/18/14	2013/14	15,000,000	0	4,000,000	4,000,000
201503551	11/14/15	2014/15	15,000,000	14,219,999 *	10,780,001 *	25,000,000 *
201606065	01/01/16	2015/16	15,000,000	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
201607843	11/30/16	2015/16	15,000,000	1,500,000	0	1,500,000
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

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)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	1,635	24	22	10	8	8	1,707		
0.01 - 5,000	424	1	8	4	6	2	445	445	33.6%
5,000 - 10,000	198	5	3	5	5	2	218	663	50.1%
10,000 - 25,000	153	9	7	5	7	8	189	852	64.4%
25,000 - 50,000	121	12	8	6	3	2	152	1,004	75.9%
50,000 - 100,000	121	6	10	0	5	1	143	1,147	86.7%
100,000 - 250,000	57	3	4	4	2	0	70	1,217	92.0%
250,000 - 500,000	44	2	1	3	2	0	52	1,269	95.9%
500,000 - 750,000	12	0	0	0	2	0	14	1,283	97.0%
750,000 - 1,000,000	5	0	0	0	0	0	5	1,288	97.4%
Over 1,000,000	28	4	1	2	0	0	35	1,323	100.0%
<b>Total</b>	<b>2,798</b>	<b>66</b>	<b>64</b>	<b>39</b>	<b>40</b>	<b>23</b>	<b>3,030</b>	<b>1,323</b>	

II. Total Reported Incurred Losses

Claim Size (1)	Prior (2)	2015/16 (3)	2016/17 (4)	2017/18 (5)	2018/19 (6)	2019/20 (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	935,883	5,000	23,492	13,000	10,000	5,525	992,900	992,900	0.4%
5,000 - 10,000	1,710,088	50,000	30,000	46,000	50,000	20,000	1,906,088	2,898,988	1.2%
10,000 - 25,000	2,807,505	160,001	125,750	100,000	132,600	155,000	3,480,856	6,379,844	2.6%
25,000 - 50,000	4,707,969	540,852	340,000	260,000	150,000	80,000	6,078,821	12,458,665	5.0%
50,000 - 100,000	9,690,227	473,776	945,000	0	475,000	100,000	11,684,003	24,142,668	9.7%
100,000 - 250,000	10,322,350	600,000	715,000	1,000,000	350,000	0	12,987,350	37,130,018	14.9%
250,000 - 500,000	16,357,279	600,000	300,000	1,100,000	650,000	0	19,007,279	56,137,297	22.5%
500,000 - 750,000	7,098,311	0	0	0	1,212,152	0	8,310,463	64,447,760	25.8%
750,000 - 1,000,000	4,601,529	0	0	0	0	0	4,601,529	69,049,289	27.7%
Over 1,000,000	158,107,829	10,900,000	4,463,000	6,815,600	0	0	180,286,429	249,335,718	100.0%
<b>Total</b>	<b>\$216,338,971</b>	<b>\$13,329,629</b>	<b>\$6,942,242</b>	<b>\$9,334,600</b>	<b>\$3,029,752</b>	<b>\$360,525</b>	<b>\$249,335,718</b>	<b>\$249,335,718</b>	

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

Data was provided by the County.

CookCounty\_OL\_113020.xlsx