

Cook County, Illinois

Actuarial Study of the Workers Compensation and Liability Self-Insured Programs as of November 30, 2017

May 14, 2018

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

Attn: Ms. Deanna Zalas
Director of Risk Management

**Actuarial Study of the
Workers Compensation and Liability
Self-Insured Programs
as of November 30, 2017**

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.

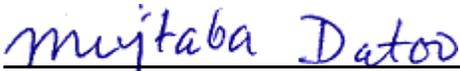
We, Tom Duffy and Mujtaba Dato, are members of the American Academy of Actuaries and meet the Academy's qualification standards to render this opinion. We performed this analysis using generally accepted actuarial principles and all relevant Actuarial Standards of Practice.

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

Respectfully submitted,

Aon Global Risk Consulting

By 
Tom Duffy, FCAS, MAAA
Director and Actuary

By 
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TD/MD:bc

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Table of Contents

I.	Background	1
II.	Objectives	4
III.	Conclusions	5

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, and other liability. Other liability includes public officials liability, employment practices, civil rights violations and police professional liability.

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

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

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

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

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

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

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

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

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

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

Data

Cumulative loss data valued as of November 30, 2017 was provided to us by the County for all coverages. For the medical malpractice and liability coverages, this was the first time that cumulative loss data was provided. For prior reports, the County had provided fiscal year payments and a list of open claims and the associated case reserve amounts. This data improvement caused some small changes in amount by year. These changes did not have a material impact on the results of this analysis.

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

The County also provided vehicles for 2017/18 and medical malpractice exposures for years through 2017/18. 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.

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.

II. Objectives

The specific objectives of this study are the following:

1. **Estimate Outstanding Losses.** Estimate outstanding losses as of November 30, 2017, November 30, 2018, and November 30, 2019.

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 2017/18, 2018/19, and 2019/20.

The projected ultimate limited losses are the accrual value of losses with accident dates during 2017/18, 2018/19, and 2019/20, 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 2017/18, 2018/19, and 2019/20 claim periods.

The projected losses paid are the claim disbursements during 2017/18, 2018/19, and 2019/20, 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, 2017 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, 2017**

Coverage (1)	Full Value			Present Value		
	Expected (2)	70% Level (3)	90% Level (4)	Expected (5)	70% Level (6)	90% Level (7)
I. Health Care Facilities						
(Ai) WC - Indemnity	\$15,842,122	\$18,060,019	\$22,971,077	\$14,808,683	\$16,881,899	\$21,472,590
(Aii) WC - Medical	<u>4,010,157</u>	<u>4,571,579</u>	<u>5,814,728</u>	<u>3,719,421</u>	<u>4,240,140</u>	<u>5,393,160</u>
(A) Workers compensation	\$19,852,279	\$22,631,598	\$28,785,805	\$18,528,104	\$21,122,039	\$26,865,750
(Bi) Cermak	7,345,000	8,593,650	11,605,100	6,839,496	8,002,210	10,806,404
(Bii) John H. Stroger	123,996,151	145,075,497	195,913,919	118,241,601	138,342,673	186,821,730
(Biii) Oak Forest	760,000	889,200	1,200,800	731,582	855,951	1,155,900
(Biv) Provident	7,070,000	8,271,900	11,170,600	6,673,460	7,807,948	10,544,067
(Bv) Unspecified	<u>200,000</u>	<u>234,000</u>	<u>316,000</u>	<u>185,609</u>	<u>217,163</u>	<u>293,262</u>
(B) Medical malpractice	\$139,371,151	\$163,064,247	\$220,206,419	\$132,671,748	\$155,225,945	\$209,621,363
(C) Claim expense	2,672,166	3,046,269	3,874,641	2,543,718	2,899,839	3,688,391
(D) Subtotal	\$161,895,596	\$188,742,114	\$252,866,865	\$153,743,570	\$179,247,823	\$240,175,504
II. General Government						
(Ei) WC - Indemnity	\$74,079,943	\$84,451,135	\$107,415,917	\$69,163,629	\$78,846,537	\$100,287,262
(Eii) WC - Medical	<u>30,254,165</u>	<u>34,489,748</u>	<u>43,868,539</u>	<u>28,280,303</u>	<u>32,239,545</u>	<u>41,006,439</u>
(E) Workers compensation	\$104,334,108	\$118,940,883	\$151,284,456	\$97,443,932	\$111,086,082	\$141,293,701
(F) General liability	848,709	967,528	1,230,628	822,080	937,171	1,192,016
(G) Automobile liability	2,035,104	2,320,019	2,950,901	1,969,380	2,245,093	2,855,601
(H) Other liability	132,514,186	155,041,598	209,372,414	123,271,618	144,227,793	194,769,156
(I) Claim expense	40,123,612	45,740,918	58,179,237	37,357,318	42,587,343	54,168,111
(J) Subtotal	\$279,855,719	\$323,010,946	\$423,017,636	\$260,864,328	\$301,083,482	\$394,278,585
(K) Total (D) + (J)	\$441,751,315	\$511,753,060	\$675,884,501	\$414,607,898	\$480,331,305	\$634,454,089

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

The present value of the estimated outstanding losses is the estimated outstanding losses discounted to reflect future investment earnings. It is based on a 1.9% interest rate, as provided by the County.

Undiscounted outstanding losses increased from \$375.9 million as of November 30, 2016, to \$441.8 million as of November 30, 2017. 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, 2016 to November 30, 2017
All Coverages Combined
(Excluding Claim Expense Reserves)

Year (1)	As of 11/30/16			As of 11/30/17			Change		
	Case Reserves (2)	IBNR (3)	Total (4)	Case Reserves (5)	IBNR (6)	Total (7)	Case Reserves (5) – (2) (8)	IBNR (6) – (3) (9)	Total (7) – (4) (10)
to 1996/97	\$3,314	\$344	\$3,658	\$6,316	\$633	\$6,949	\$3,002	\$ 289	\$3,291
1997/98	295	61	356	295	41	336	0	- 20	- 20
1998/99	27	11	38	11	3	14	- 16	- 8	- 24
1999/00	811	77	888	642	157	799	- 169	80	- 89
2000/01	965	201	1,166	776	241	1,017	- 189	40	- 149
2001/02	464	130	594	423	141	564	- 41	11	- 30
2002/03	1,370	337	1,707	1,214	458	1,672	- 156	121	- 35
2003/04	12,439	2,573	15,012	23,648	2,588	26,236	11,209	15	11,224
2004/05	913	510	1,423	621	287	908	- 292	- 223	- 515
2005/06	957	450	1,407	1,698	1,018	2,716	741	568	1,309
2006/07	6,253	817	7,070	6,605	1,410	8,015	352	593	945
2007/08	2,665	2,028	4,693	2,961	1,372	4,333	296	- 656	- 360
2008/09	3,792	2,642	6,434	3,351	1,949	5,300	- 441	- 693	-1,134
2009/10	19,258	3,482	22,740	19,003	4,623	23,626	- 255	1,141	886
2010/11	19,961	9,396	29,357	9,270	4,578	13,848	-10,691	-4,818	-15,509
2011/12	50,326	17,182	67,508	68,385	9,763	78,148	18,059	-7,419	10,640
2012/13	27,647	21,128	48,775	13,454	12,602	26,056	-14,193	-8,526	-22,719
2013/14	19,490	33,483	52,973	38,253	20,998	59,251	18,763	-12,485	6,278
2014/15	20,178	51,041	71,219	24,638	32,810	57,448	4,460	-18,231	-13,771
2015/16				28,167	53,554	81,721	28,167	53,554	81,721
Total	\$191,125	\$145,893	\$337,018	\$249,731	\$149,226	\$398,957	\$58,606	\$3,333	\$61,939

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, 2016 and November 30, 2017 is shown in Summary Exhibit 2. Detail by year and coverage is provided in Summary Exhibits 10 through 23.

Case reserves are up \$59 million from our prior analysis. Most of this increase was driven by a few large Medical Malpractice and Other Liability claims along with a more general increase for Workers Compensation.

For Workers Compensation, total case reserves increased by almost \$18 million compared to the prior study. Unlike Med Malpractice and Other Liability, this increase was not driven by a few large claims but by increases in the average case reserves on many claims. County officials indicate that this increase is driven by an increase in new average monthly losses and related medical expenses.

Estimated outstanding losses as of November 30, 2018, and November 30, 2019 are shown in Summary Exhibit 1.

Summary Exhibit 4 splits the estimated outstanding losses and projected ultimate losses for the liability coverages among Healthcare and Government. Cumulative paid data as of November 30, 2017 was not available separately for Healthcare and Government, so independent analyses could not be completed. We therefore based the estimates on the percentage of case reserve and fiscal year 2015/16 payment data.

In summary, the expected (or central estimate) discounted reserves are up from \$361 million in last year's study to \$415 million in this year's study. The increase is driven by a substantial increase in case reserves for the Medical Malpractice, Other Liability and Workers Compensation segments.

2. Project Ultimate Limited Losses

We project ultimate limited losses for 2017/18 to be as shown in Table III-2. The projected ultimate limited losses are the accrual value of losses with accident dates during 2017/18 regardless of report or payment date.

**Table III-2
Projected Ultimate Losses
2017/18**

Coverage (1)	Full Value			Present Value		
	Expected (2)	70% Level (3)	90% Level (4)	Expected (5)	70% Level (6)	90% Level (7)
I. Health Care Facilities						
(Ai) WC - Indemnity	\$3,123,000	\$3,653,910	\$4,934,340	\$2,900,000	\$3,393,000	\$4,582,000
(Aii) WC - Medical	<u>1,218,000</u>	<u>1,425,060</u>	<u>1,924,440</u>	<u>1,152,000</u>	<u>1,347,840</u>	<u>1,820,160</u>
(A) Workers compensation	\$4,341,000	\$5,078,970	\$6,858,780	\$4,052,000	\$4,740,840	\$6,402,160
(Bi) Cermak	1,260,000	1,512,000	2,217,600	1,120,000	1,344,000	1,971,200
(Bii) John H. Stroger	15,440,000	18,528,000	27,174,400	13,740,000	16,488,000	24,182,400
(Biii) Oak Forest	40,000	48,000	70,400	30,000	36,000	52,800
(Biv) Provident	1,350,000	1,620,000	2,376,000	1,200,000	1,440,000	2,112,000
(Bv) Unspecified	<u>20,000</u>	<u>24,000</u>	<u>35,200</u>	<u>20,000</u>	<u>24,000</u>	<u>35,200</u>
(B) Medical malpractice	\$18,110,000	\$21,732,000	\$31,873,600	\$16,110,000	\$19,332,000	\$28,353,600
(C) Subtotal	\$22,451,000	\$26,810,970	\$38,732,380	\$20,162,000	\$24,072,840	\$34,755,760
II. General Government						
(Di) WC - Indemnity	\$24,739,000	\$28,944,630	\$39,087,620	\$22,975,000	\$26,880,750	\$36,300,500
(Dii) WC - Medical	<u>8,726,000</u>	<u>10,209,420</u>	<u>13,787,080</u>	<u>8,256,000</u>	<u>9,659,520</u>	<u>13,044,480</u>
(D) Workers compensation	\$33,465,000	\$39,154,050	\$52,874,700	\$31,231,000	\$36,540,270	\$49,344,980
(E) General liability	470,000	549,900	742,600	444,000	519,480	701,520
(F) Automobile liability	1,776,000	2,077,920	2,806,080	1,692,000	1,979,640	2,673,360
(G) Other liability	24,871,000	29,845,200	43,772,960	22,355,000	26,826,000	39,344,800
(H) Subtotal	\$60,582,000	\$71,627,070	\$100,196,340	\$55,722,000	\$65,865,390	\$92,064,660
(I) Total (C) + (H)	\$83,033,000	\$98,438,040	\$138,928,720	\$75,884,000	\$89,938,230	\$126,820,420

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

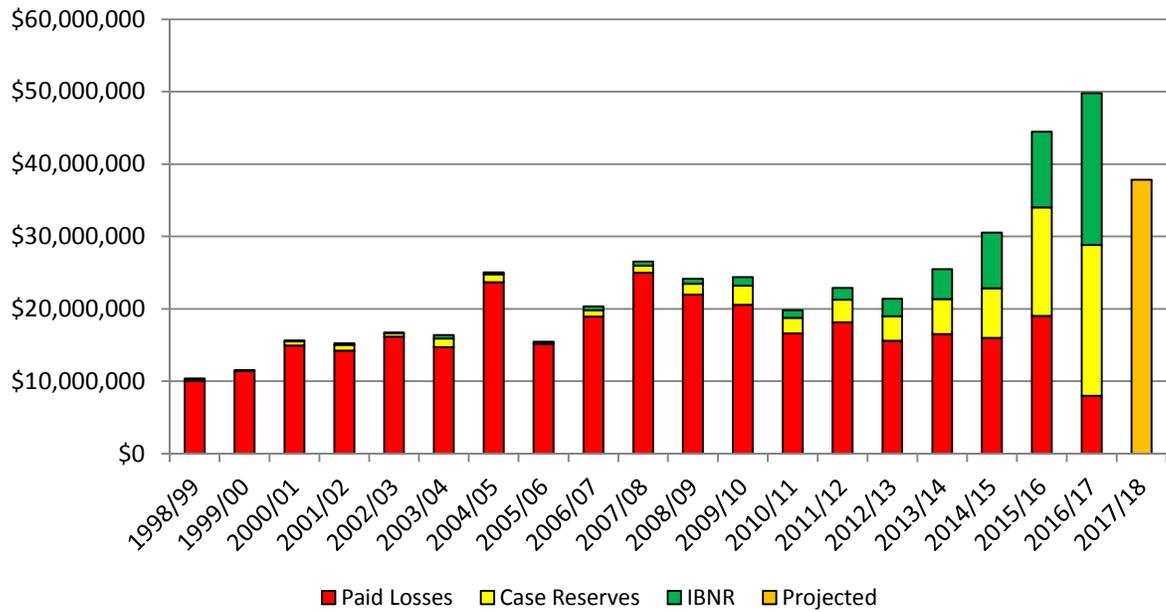
The present value of the estimated outstanding losses is the estimated outstanding losses discounted to reflect future investment earnings. It is based on a 1.9% interest rate, as provided by the County.

Projected ultimate losses for 2018/19 and 2019/20 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 2016/17 claim period). On this basis, our ultimate loss and ALAE estimates for all years through the 2016/17 claim period are up by approximately \$105 million, or 6.6%.

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

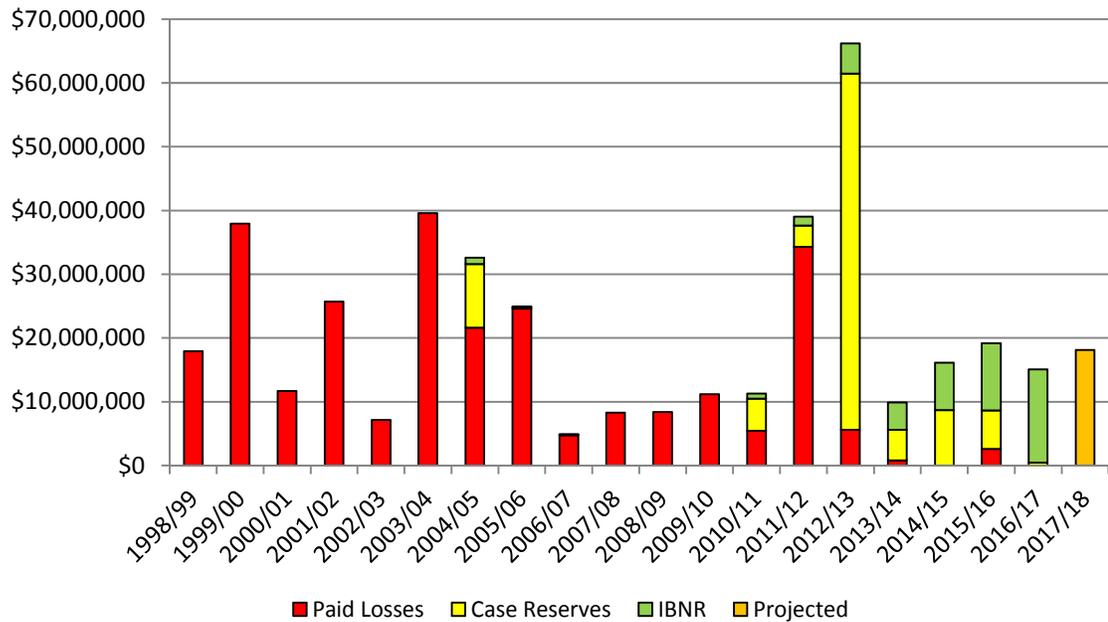
Graph III-1
Composition of Projected Ultimate Limited Losses
(Workers Compensation)



For years through 2015/16, the estimate of the ultimate workers compensation losses has increased by 1.7% from the prior report.

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

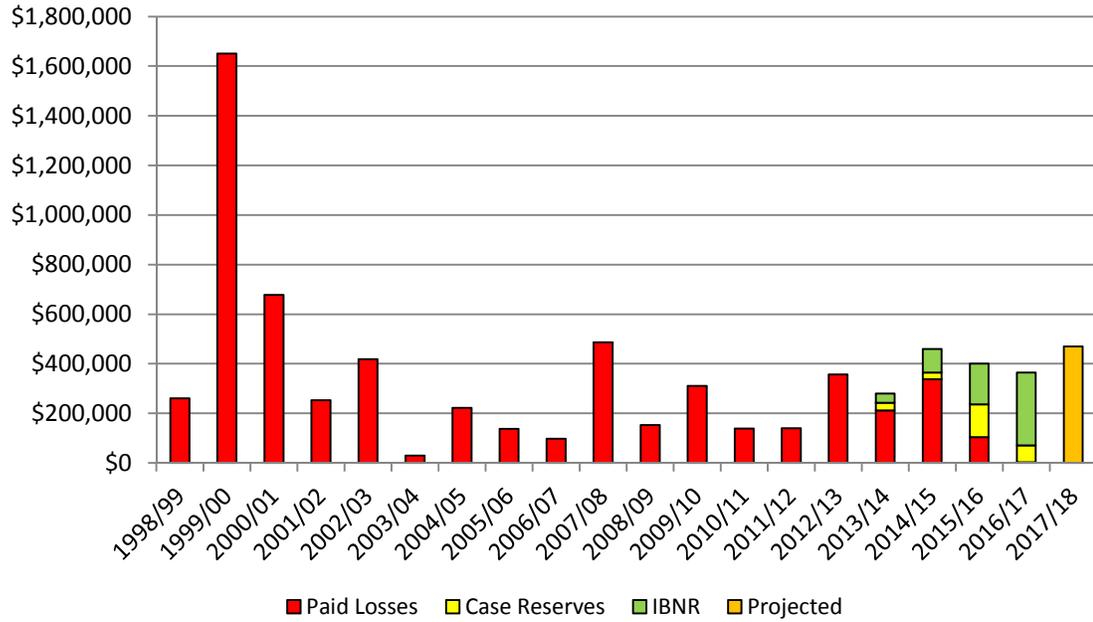
Graph III-2
Composition of Projected Ultimate Limited Losses
(Medical Malpractice)



For years through 2015/16, the estimate of the ultimate medical malpractice losses has increased by 3.2% from the prior report. We note that there is one very large claim in 2012/13.

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

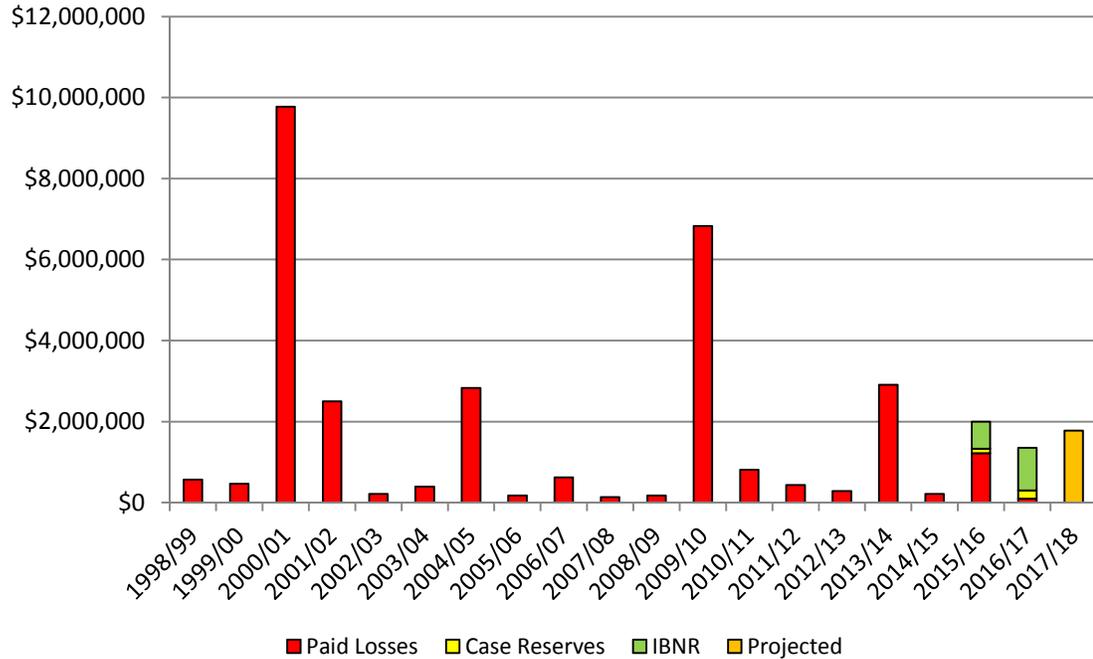
Graph III-3
Composition of Projected Ultimate Limited Losses
(General Liability)



For years through 2015/16, the estimate of the ultimate general liability losses has decreased by -9.0% from the prior report. This decrease was driven by several very large claims being revalued.

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

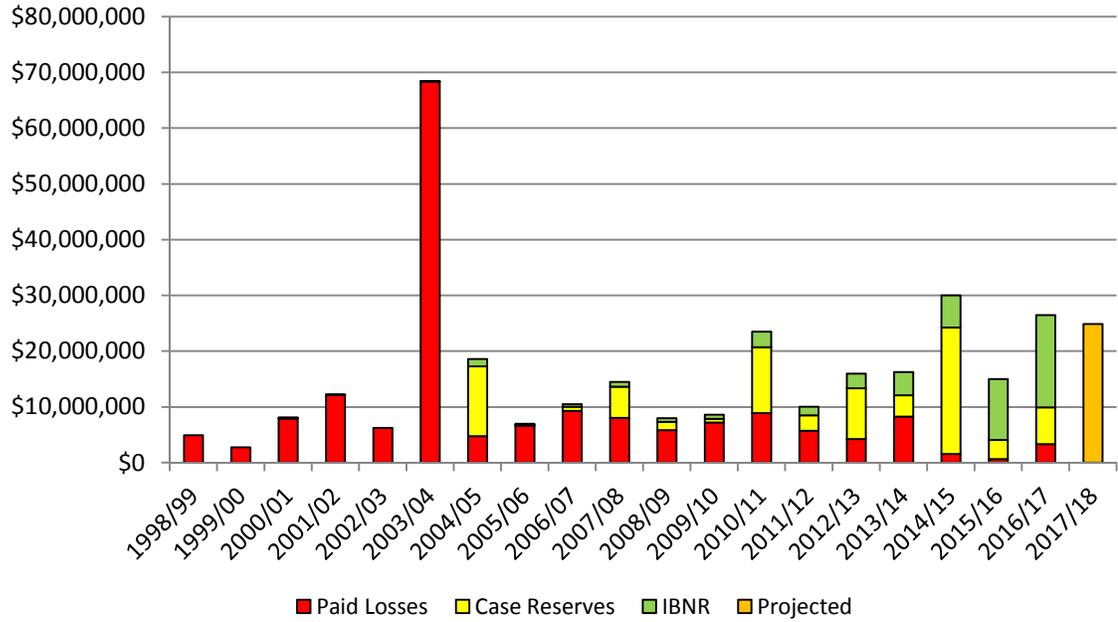
Graph III-4
Composition of Projected Ultimate Limited Losses
(Automobile Liability)



For years through 2015/16, the estimate of the ultimate automobile liability losses has decreased by -8.7% from the prior report. This decrease was driven by several very large claims being revalued.

Graph III-5 shows the projected ultimate other liability losses.

Graph III-5
Composition of Projected Ultimate Limited Losses
(Other Liability)



For 1998/99 through 2015/16, the estimate of the ultimate other liability losses has increased by 8.1% from the prior report. This increase was driven by two newly reported large claims for 2014/15.

3. Project Losses Paid

We project losses paid during 2017/18 through 2019/20 to be as shown in Table III-3. The projected losses paid are the claim disbursements during 2017/18, 2018/19, and 2019/20, regardless of accident or report date.

**Table III-3
Projected Losses Paid
2017/18, 2018/19, and 2019/20**

Coverage (1)	2017/18 (2)	2018/19 (3)	2019/20 (4)
I. Health Care Facilities			
(Ai) WC - Indemnity	\$3,494,867	\$3,421,820	\$3,386,589
(Aii) WC - Medical	<u>1,722,841</u>	<u>1,431,891</u>	<u>1,339,575</u>
(A) Workers compensation	\$5,217,708	\$4,853,711	\$4,726,164
(Bi) Cermak	463,672	949,142	1,612,371
(Bii) John H. Stroger	28,219,067	21,116,131	22,948,084
(Biii) Oak Forest	250,025	205,314	114,162
(Biv) Provident	1,543,562	967,020	1,229,491
(Bv) Unspecified	<u>9,990</u>	<u>23,245</u>	<u>42,437</u>
(B) Medical malpractice	\$30,486,316	\$23,260,852	\$25,946,545
(C) Subtotal (A) + (B)	\$35,704,024	\$28,114,563	\$30,672,709
II. General Government			
(Di) WC - Indemnity	\$18,021,804	\$19,381,205	\$20,553,890
(Dii) WC - Medical	<u>12,644,454</u>	<u>10,554,176</u>	<u>9,984,495</u>
(D) Workers compensation	\$30,666,258	\$29,935,381	\$30,538,385
(E) General liability	306,343	362,536	421,547
(F) Automobile liability	919,775	1,339,417	1,567,556
(G) Other liability	11,570,113	12,781,574	14,018,006
(H) Subtotal (D)+(E)+(F)+(G)	\$43,462,489	\$44,418,908	\$46,545,494
(I) Total (C) + (H)	\$79,166,513	\$72,533,471	\$77,218,203

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

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 segment 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, 2017. 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 11/30/17

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$15,842,122	\$18,060,019	\$22,971,077	\$14,808,683	\$16,881,899	\$21,472,590
(Aii) WC - Medical	4,010,157	4,571,579	5,814,728	3,719,421	4,240,140	5,393,160
(A) Workers compensation	\$19,852,279	\$22,631,598	\$28,785,805	\$18,528,104	\$21,122,039	\$26,865,751
(Bi) Cermak	7,345,000	8,593,650	11,605,100	6,839,496	8,002,210	10,806,404
(Bii) John H. Stroger	123,996,151	145,075,497	195,913,919	118,241,601	138,342,673	186,821,730
(Biii) Oak Forest	760,000	889,200	1,200,800	731,582	855,951	1,155,900
(Biv) Provident	7,070,000	8,271,900	11,170,600	6,673,460	7,807,948	10,544,067
(Bv) Unspecified	200,000	234,000	316,000	185,609	217,163	293,262
(B) Medical malpractice	\$139,371,151	\$163,064,247	\$220,206,419	\$132,671,748	\$155,225,945	\$209,621,362
(C) Claim Expense Reserves	2,672,166	3,046,269	3,874,641	2,543,718	2,899,839	3,688,391
(D) Subtotal	\$161,895,596	\$188,742,114	\$252,866,864	\$153,743,570	\$179,247,822	\$240,175,504
II. General Government						
(Ei) WC - Indemnity	74,079,943	84,451,135	107,415,917	69,163,629	78,846,537	100,287,262
(Eii) WC - Medical	30,254,165	34,489,748	43,868,539	28,280,303	32,239,545	41,006,439
(E) Workers compensation	\$104,334,108	\$118,940,883	\$151,284,457	\$97,443,932	\$111,086,082	\$141,293,701
(F) General liability	848,709	967,528	1,230,628	822,080	937,171	1,192,016
(G) Automobile liability	2,035,104	2,320,019	2,950,901	1,969,380	2,245,093	2,855,601
(H) Other liability	132,514,186	155,041,598	209,372,414	123,271,618	144,227,793	194,769,156
(I) Claim Expense Reserves	40,123,612	45,740,918	58,179,238	37,357,318	42,587,342	54,168,110
(J) Subtotal	\$279,855,719	\$323,010,945	\$423,017,637	\$260,864,328	\$301,083,482	\$394,278,585
Total	\$441,751,315	\$511,753,059	\$675,884,501	\$414,607,898	\$480,331,304	\$634,454,089

B. Estimated Outstanding Losses as of 11/30/18

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$15,470,255	\$17,636,091	\$22,431,870	\$14,455,074	\$16,478,784	\$20,959,857
(Aii) WC - Medical	3,505,316	3,996,060	5,082,708	3,225,001	3,676,501	4,676,251
(A) Workers compensation	\$18,975,571	\$21,632,151	\$27,514,578	\$17,680,075	\$20,155,286	\$25,636,109
(Bi) Cermak	8,141,328	9,525,354	12,863,298	7,644,335	8,943,872	12,078,049
(Bii) John H. Stroger	111,217,084	130,123,988	175,722,993	105,331,392	123,237,729	166,423,599
(Biii) Oak Forest	549,975	643,471	868,961	529,377	619,371	836,416
(Biv) Provident	6,876,438	8,045,432	10,864,772	6,466,683	7,566,019	10,217,359
(Bv) Unspecified	210,010	245,712	331,816	197,193	230,716	311,565
(B) Medical malpractice	\$126,994,835	\$148,583,957	\$200,651,839	\$120,168,980	\$140,597,707	\$189,866,988
(C) Claim Expense Reserves	2,434,875	2,775,757	3,530,568	2,317,833	2,642,330	3,360,858
(D) Subtotal	\$148,405,281	\$172,991,865	\$231,696,985	\$140,166,888	\$163,395,322	\$218,863,955
II. General Government						
(Ei) WC - Indemnity	80,797,139	92,108,738	117,155,852	75,473,762	86,040,089	109,436,955
(Eii) WC - Medical	26,335,711	30,022,711	38,186,781	24,466,864	27,892,225	35,476,953
(E) Workers compensation	\$107,132,850	\$122,131,449	\$155,342,633	\$99,940,626	\$113,932,314	\$144,913,908
(F) General liability	1,012,366	1,154,097	1,467,931	980,696	1,117,993	1,422,009
(G) Automobile liability	2,891,329	3,296,115	4,192,427	2,802,287	3,194,607	4,063,316
(H) Other liability	145,815,073	170,603,635	230,387,815	135,808,488	158,895,931	214,577,411
(I) Claim Expense Reserves	44,367,404	50,578,841	64,332,736	41,308,524	47,091,718	59,897,360
(J) Subtotal	\$301,219,022	\$347,764,137	\$455,723,541	\$280,840,621	\$324,232,563	\$424,874,004
Total	\$449,624,303	\$520,756,002	\$687,420,527	\$421,007,509	\$487,627,885	\$643,737,959

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

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$15,218,435	\$17,349,016	\$22,066,731	\$14,218,184	\$16,208,730	\$20,616,367
(Aii) WC - Medical	3,340,425	3,808,085	4,843,616	3,062,123	3,490,820	4,440,078
(A) Workers compensation	\$18,558,860	\$21,157,100	\$26,910,347	\$17,280,307	\$19,699,550	\$25,056,445
(Bi) Cermak	8,502,186	9,947,558	13,433,454	8,019,757	9,383,116	12,671,216
(Bii) John H. Stroger	106,160,953	124,208,315	167,734,306	100,584,899	117,684,332	158,924,140
(Biii) Oak Forest	384,661	450,053	607,764	368,464	431,103	582,173
(Biv) Provident	7,309,418	8,552,019	11,548,880	6,883,323	8,053,488	10,875,650
(Bv) Unspecified	206,765	241,915	326,689	195,618	228,873	309,076
(B) Medical malpractice	\$122,563,983	\$143,399,860	\$193,651,093	\$116,052,061	\$135,780,911	\$183,362,256
(C) Claim Expense Reserves	2,349,922	2,678,911	3,407,386	2,236,964	2,550,139	3,243,598
(D) Subtotal	\$143,472,765	\$167,235,871	\$223,968,827	\$135,569,332	\$158,030,600	\$211,662,299
II. General Government						
(Ei) WC - Indemnity	86,526,934	98,640,705	125,464,054	80,868,277	92,189,836	117,259,002
(Eii) WC - Medical	24,856,535	28,336,450	36,041,976	23,029,496	26,253,625	33,392,769
(E) Workers compensation	\$111,383,469	\$126,977,155	\$161,506,030	\$103,897,773	\$118,443,461	\$150,651,771
(F) General liability	1,138,830	1,298,266	1,651,304	1,103,883	1,258,427	1,600,630
(G) Automobile liability	3,389,912	3,864,500	4,915,372	3,287,593	3,747,856	4,767,010
(H) Other liability	158,899,499	185,912,414	251,061,208	147,924,849	173,072,073	233,721,261
(I) Claim Expense Reserves	48,430,046	55,210,252	70,223,566	45,091,070	51,403,820	65,382,051
(J) Subtotal	\$323,241,756	\$373,262,587	\$489,357,481	\$301,305,168	\$347,925,637	\$456,122,724
Total	\$466,714,521	\$540,498,458	\$713,326,307	\$436,874,500	\$505,956,237	\$667,785,023

Estimated Outstanding Losses

Footnotes:

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

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

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

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

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

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

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

Section I, C is from Summary Exhibit 7.

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

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

Section II, F is from Exhibit GL-11.

Section II, G is from Exhibit AL-11.

Section II, H is from Exhibit OL-11.

Section II, I is from Summary Exhibit 7.



COOK COUNTY, ILLINOIS
SUMMARY EXHIBITS

Summary Exhibit 2

Comparison of Estimated Outstanding Losses

	As of November 30, 2016			As of November 30, 2017			Change		
	Case Reserves	IBNR	Total	Case Reserves	IBNR	Total	Case Reserves	IBNR	Total
I. Health Care Facilities									
(Ai) WC - Indemnity	\$7,019,391	\$5,768,120	\$12,787,511	\$9,266,639	\$6,575,481	\$15,842,120	\$2,247,248	\$807,361	\$3,054,609
(Aii) WC - Medical	3,224,827	1,259,188	4,484,016	3,172,767	837,388	4,010,155	-52,061	-421,800	-473,860
(A) Workers compensation	\$10,244,218	\$7,027,308	\$17,271,526	\$12,439,406	\$7,412,869	\$19,852,275	\$2,195,187	\$385,561	\$2,580,749
(Bi) Cermak	250,000	2,587,000	2,837,000	4,550,000	2,795,000	7,345,000	4,300,000	208,000	4,508,000
(Bii) John H. Stroger	67,880,000	39,702,501	107,582,501	85,530,000	38,466,151	123,996,151	17,650,000	-1,236,350	16,413,650
(Biii) Oak Forest	300,000	380,000	680,000	500,000	260,000	760,000	200,000	-120,000	80,000
(Biv) Provident	7,100,000	3,525,000	10,625,000	3,825,000	3,245,000	7,070,000	-3,275,000	-280,000	-3,555,000
(Bv) Unspecified	50,000	195,000	245,000	50,000	150,000	200,000	0	-45,000	-45,000
(B) Medical malpractice	\$75,580,000	\$46,389,501	\$121,969,501	\$94,455,000	\$44,916,151	\$139,371,151	\$18,875,000	-\$1,473,350	\$17,401,650
(C) Claim Expense Reserves		2,357,026	2,357,026		2,672,166	2,672,166	0	315,140	315,140
(D) Subtotal	\$85,824,218	\$55,773,835	\$141,598,053	\$106,894,406	\$55,001,186	\$161,895,592	\$21,070,187	-\$772,649	\$20,297,539
II. General Government									
(Ei) WC - Indemnity	28,370,918	30,165,654	58,536,572	37,704,248	36,375,695	74,079,943	9,333,331	6,210,041	15,543,371
(Eii) WC - Medical	14,628,248	8,491,222	23,119,470	20,957,911	9,296,252	30,254,163	6,329,663	805,030	7,134,693
(E) Workers compensation	\$42,999,166	\$38,656,876	\$81,656,041	\$58,662,159	\$45,671,947	\$104,334,106	\$15,662,993	\$7,015,071	\$22,678,064
(F) General liability	675,700	821,790	1,497,490	257,373	591,337	848,710	-418,327	-230,453	-648,780
(G) Automobile liability	4,097,850	2,019,694	6,117,544	311,855	1,723,249	2,035,103	-3,785,995	-296,446	-4,082,441
(H) Other liability	57,528,850	50,977,212	108,506,062	83,605,321	48,908,866	132,514,187	26,076,471	-2,068,345	24,008,126
(I) Claim Expense Reserves		36,537,055	36,537,055		40,123,612	40,123,612	0	3,586,557	3,586,557
(J) Subtotal	\$105,301,566	\$129,012,626	\$234,314,192	\$142,836,708	\$137,019,010	\$279,855,718	\$37,535,142	\$8,006,384	\$45,541,526
Total	\$191,125,784	\$184,786,461	\$375,912,245	\$249,731,113	\$192,020,197	\$441,751,310	\$58,605,329	\$7,233,735	\$65,839,065

Projected Ultimate Losses

A. 2017/18 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$3,123,000	\$3,653,910	\$4,934,340	\$2,900,000	\$3,393,000	\$4,582,000
(Aii) WC - Medical	1,218,000	1,425,060	1,924,440	1,152,000	1,347,840	1,820,160
(A) Workers compensation	\$4,341,000	\$5,078,970	\$6,858,780	\$4,052,000	\$4,740,840	\$6,402,160
(Bi) Cermak	1,260,000	1,512,000	2,217,600	1,120,000	1,344,000	1,971,200
(Bii) John H. Stroger	15,440,000	18,528,000	27,174,400	13,740,000	16,488,000	24,182,400
(Biii) Oak Forest	40,000	48,000	70,400	30,000	36,000	52,800
(Biv) Provident	1,350,000	1,620,000	2,376,000	1,200,000	1,440,000	2,112,000
(Bv) Unspecified	20,000	24,000	35,200	20,000	24,000	35,200
(B) Medical malpractice	\$18,110,000	\$21,732,000	\$31,873,600	\$16,110,000	\$19,332,000	\$28,353,600
(C) Subtotal	\$22,451,000	\$26,810,970	\$38,732,380	\$20,162,000	\$24,072,840	\$34,755,760
II. General Government						
(Di) WC - Indemnity	24,739,000	28,944,630	39,087,620	22,975,000	26,880,750	36,300,500
(Dii) WC - Medical	8,726,000	10,209,420	13,787,080	8,256,000	9,659,520	13,044,480
(D) Workers compensation	\$33,465,000	\$39,154,050	\$52,874,700	\$31,231,000	\$36,540,270	\$49,344,980
(E) General liability	470,000	549,900	742,600	444,000	519,480	701,520
(F) Automobile liability	1,776,000	2,077,920	2,806,080	1,692,000	1,979,640	2,673,360
(G) Other liability	24,871,000	29,845,200	43,772,960	22,355,000	26,826,000	39,344,800
(H) Subtotal	\$60,582,000	\$71,627,070	\$100,196,340	\$55,722,000	\$65,865,390	\$92,064,660
Total	\$83,033,000	\$98,438,040	\$138,928,720	\$75,884,000	\$89,938,230	\$126,820,420

B. 2018/19 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$3,170,000	\$3,708,900	\$5,008,600	\$2,943,000	\$3,443,310	\$4,649,940
(Aii) WC - Medical	1,267,000	1,482,390	2,001,860	1,198,000	1,401,660	1,892,840
(A) Workers compensation	\$4,437,000	\$5,191,290	\$7,010,460	\$4,141,000	\$4,844,970	\$6,542,780
(Bi) Cermak	1,310,000	1,572,000	2,305,600	1,170,000	1,404,000	2,059,200
(Bii) John H. Stroger	16,060,000	19,272,000	28,265,600	14,290,000	17,148,000	25,150,400
(Biii) Oak Forest	40,000	48,000	70,400	40,000	48,000	70,400
(Biv) Provident	1,400,000	1,680,000	2,464,000	1,250,000	1,500,000	2,200,000
(Bv) Unspecified	20,000	24,000	35,200	20,000	24,000	35,200
(B) Medical malpractice	\$18,830,000	\$22,596,000	\$33,140,800	\$16,770,000	\$20,124,000	\$29,515,200
(C) Subtotal	\$23,267,000	\$27,787,290	\$40,151,260	\$20,911,000	\$24,968,970	\$36,057,980
II. General Government						
(Di) WC - Indemnity	25,111,000	29,379,870	39,675,380	23,320,000	27,284,400	36,845,600
(Dii) WC - Medical	9,075,000	10,617,750	14,338,500	8,586,000	10,045,620	13,565,880
(D) Workers compensation	\$34,186,000	\$39,997,620	\$54,013,880	\$31,906,000	\$37,330,020	\$50,411,480
(E) General liability	489,000	572,130	772,620	462,000	540,540	729,960
(F) Automobile liability	1,838,000	2,150,460	2,904,040	1,751,000	2,048,670	2,766,580
(G) Other liability	25,866,000	31,039,200	45,524,160	23,249,000	27,898,800	40,918,240
(H) Subtotal	\$62,379,000	\$73,759,410	\$103,214,700	\$57,368,000	\$67,818,030	\$94,826,260
Total	\$85,646,000	\$101,546,700	\$143,365,960	\$78,279,000	\$92,787,000	\$130,884,240

C. 2019/20 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$3,218,000	\$3,765,060	\$5,084,440	\$2,988,000	\$3,495,960	\$4,721,040
(Aii) WC - Medical	1,317,000	1,540,890	2,080,860	1,246,000	1,457,820	1,968,680
(A) Workers compensation	\$4,535,000	\$5,305,950	\$7,165,300	\$4,234,000	\$4,953,780	\$6,689,720
(Bi) Cermak	1,360,000	1,632,000	2,393,600	1,210,000	1,452,000	2,129,600
(Bii) John H. Stroger	16,700,000	20,040,000	29,392,000	14,870,000	17,844,000	26,171,200
(Biii) Oak Forest	40,000	48,000	70,400	40,000	48,000	70,400
(Biv) Provident	1,460,000	1,752,000	2,569,600	1,300,000	1,560,000	2,288,000
(Bv) Unspecified	20,000	24,000	35,200	20,000	24,000	35,200
(B) Medical malpractice	\$19,580,000	\$23,496,000	\$34,460,800	\$17,440,000	\$20,928,000	\$30,694,400
(C) Subtotal	\$24,115,000	\$28,801,950	\$41,626,100	\$21,674,000	\$25,881,780	\$37,384,120
II. General Government						
(Di) WC - Indemnity	25,487,000	29,819,790	40,269,460	480,000	561,600	758,400
(Dii) WC - Medical	9,438,000	11,042,460	14,912,040	8,930,000	10,448,100	14,109,400
(D) Workers compensation	\$34,925,000	\$40,862,250	\$55,181,500	\$9,410,000	\$11,009,700	\$14,867,800
(E) General liability	508,000	594,360	802,640	480,000	561,600	758,400
(F) Automobile liability	1,902,000	2,225,340	3,005,160	1,812,000	2,120,040	2,862,960
(G) Other liability	26,900,000	32,280,000	47,344,000	24,179,000	29,014,800	42,555,040
(H) Subtotal	\$64,235,000	\$75,961,950	\$106,333,300	\$35,881,000	\$42,706,140	\$61,044,200
Total	\$88,350,000	\$104,763,900	\$147,959,400	\$57,555,000	\$68,587,920	\$98,428,320

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, Ei is from Exhibit WC-Gov-Ind-10.

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

Section II, F is from Exhibit GL-10.

Section II, G is from Exhibit AL-10.

Section II, H is from Exhibit OL-10.

Split of Liability Losses Among Healthcare and Government

	Coverage (1)	Total (2)	Healthcare (3)	Government (4)
1. 2016/17 Payments				
General liability		\$520,165	\$113,867	\$406,297
Automobile liability		3,904,563	2,500,000	1,404,563
Other liability		21,034,874	6,873,667	14,161,207
Average		\$8,486,534	\$3,162,512	\$5,324,023
2. 11/30/17 Case Reserves				
General liability		\$257,373	\$59,000	\$198,373
Automobile liability		311,855	0	311,855
Other liability		83,605,321	11,828,220	71,777,101
Average		\$28,058,183	\$3,962,407	\$24,095,776
3. Ratio to Total				
		Payments	37.3%	62.7%
		Case Reserves	14.1%	85.9%
		Prior	12.5%	87.5%
		Selected	12.5%	87.5%
4. Estimated Outstanding Losses				
Estimated Outstanding Losses as of 11/30/17				
a. General Liability		\$848,709	\$106,089	\$742,620
b. Automobile Liability		2,035,104	254,388	1,780,716
c. Other Liability		132,514,186	16,564,273	115,949,913
Estimated Outstanding Losses as of 11/30/18				
a. General Liability		\$1,012,366	\$126,546	\$885,820
b. Automobile Liability		2,891,329	361,416	2,529,913
c. Other Liability		145,815,073	18,226,884	127,588,189
Estimated Outstanding Losses as of 11/30/19				
a. General Liability		\$1,138,830	\$142,354	\$996,476
b. Automobile Liability		3,389,912	423,739	2,966,173
c. Other Liability		158,899,499	19,862,437	139,037,062
5. Projected Ultimate Losses				
2017/18				
a. General Liability		\$470,000	\$58,750	\$411,250
b. Automobile Liability		1,776,000	222,000	1,554,000
c. Other Liability		24,871,000	3,108,875	21,762,125
2018/19				
a. General Liability		\$489,000	\$61,125	\$427,875
b. Automobile Liability		1,838,000	229,750	1,608,250
c. Other Liability		25,866,000	3,233,250	22,632,750
2019/20				
a. General Liability		\$508,000	\$63,500	\$444,500
b. Automobile Liability		1,902,000	237,750	1,664,250
c. Other Liability		26,900,000	3,362,500	23,537,500

Actual and Projected Paid Losses (\$Millions)

	Actual Limited Paid Losses 2013/14	Actual Limited Paid Losses 2014/15	Actual Limited Paid Losses 2015/16	Actual Limited Paid Losses 2016/17	Average Paid Losses 2013/14 to 2016/17	Projected Paid Losses 2017/18	Projected Paid Losses 2018/19	Projected Paid Losses 2019/20
I. Health Care Facilities								
(Ai) WC - Indemnity	\$2.41	\$2.41		\$2.77		\$3.49	\$3.42	\$3.39
(Aii) WC - Medical	1.06	1.37		0.75		1.72	1.43	1.34
(A) Workers compensation	\$3.48	\$3.78	\$4.09	\$3.52	\$3.72	\$5.22	\$4.85	\$4.73
(Bi) Cermak	0.05	1.00	0.28	0.01	0.33	0.46	0.95	1.61
(Bii) John H. Stroger	12.04	24.76	11.22	11.93	14.99	28.22	21.12	22.95
(Biii) Oak Forest	0.00	0.18	0.00	0.00	0.04	0.25	0.21	0.11
(Biv) Provident	0.00	0.37	1.89	3.11	1.34	1.54	0.97	1.23
(Bv) Unspecified	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04
(B) Medical malpractice	\$12.08	\$26.30	\$13.38	\$15.04	\$16.70	\$30.49	\$23.26	\$25.95
(C) Subtotal	\$15.56	\$30.09	\$17.47	\$18.56	\$20.42	\$35.70	\$28.11	\$30.67
II. General Government								
(Di) WC - Indemnity	12.87	12.30		21.30		18.02	19.38	20.55
(Dii) WC - Medical	6.80	7.60		8.70		12.64	10.55	9.98
(D) Workers compensation	\$19.68	\$19.90	\$26.98	\$30.01	\$24.14	\$30.67	\$29.94	\$30.54
(E) General liability	0.21	0.22	0.14	0.52	0.27	0.31	0.36	0.42
(F) Automobile liability	1.15	1.02	6.62	3.90	3.17	0.92	1.34	1.57
(G) Other liability	7.96	5.51	10.48	21.03	11.25	11.57	12.78	14.02
(H) Subtotal	\$29.00	\$26.65	\$44.22	\$55.47	\$38.83	\$43.46	\$44.42	\$46.55
Total	\$44.56	\$56.73	\$61.69	\$74.03	\$59.25	\$79.17	\$72.53	\$77.22

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, Ei is from Exhibits WC-Gov-Indem-12, WC-Gov-Indem-13, and WC-Gov-Indem-14.

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

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

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

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

Projected Ultimate Limited Losses (\$Millions)

	Projected Ultimate Limited Losses 2013/14	Projected Ultimate Limited Losses 2014/15	Projected Ultimate Limited Losses 2015/16	Projected Ultimate Limited Losses 2016/17	Average Ultimate Limited Losses 2013/14 to 2016/17	Projected Ultimate Limited Losses 2017/18	Projected Ultimate Limited Losses 2018/19	Projected Ultimate Limited Losses 2019/20
I. Health Care Facilities								
(Ai) WC - Indemnity	\$3.10	\$2.25	\$3.53	\$4.00	\$3.22	\$3.12	\$3.17	\$3.22
(Aii) WC - Medical	0.77	0.60	1.25	1.80	1.10	1.22	1.27	1.32
(A) Workers compensation	\$3.87	\$2.85	\$4.78	\$5.80	\$4.32	\$4.34	\$4.44	\$4.54
(Bi) Cermak	0.20	3.50	2.50	1.00	1.80	1.26	1.31	1.36
(Bii) John H. Stroger	9.00	12.00	12.50	13.00	11.63	15.44	16.06	16.70
(Biii) Oak Forest	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04
(Biv) Provident	0.65	0.50	4.10	1.00	1.56	1.35	1.40	1.46
(Bv) Unspecified	0.00	0.10	0.05	0.05	0.05	0.02	0.02	0.02
(B) Medical malpractice	\$9.88	\$16.13	\$19.18	\$15.08	\$15.07	\$18.11	\$18.83	\$19.58
(C) Subtotal	\$13.75	\$18.98	\$23.96	\$20.88	\$19.39	\$22.45	\$23.27	\$24.12
II. General Government								
(Di) WC - Indemnity	15.35	20.25	26.44	28.00	22.51	24.74	25.11	25.49
(Dii) WC - Medical	6.27	7.45	13.25	16.00	10.74	8.73	9.08	9.44
(D) Workers compensation	\$21.62	\$27.70	\$39.69	\$44.00	\$33.25	\$33.47	\$34.19	\$34.93
(E) General liability	0.28	0.46	0.40	0.37	0.38	0.47	0.49	0.51
(F) Automobile liability	2.91	0.21	2.00	1.35	1.62	1.78	1.84	1.90
(G) Other liability	16.25	30.00	15.00	26.50	21.94	24.87	25.87	26.90
(H) Subtotal	\$41.06	\$58.37	\$57.09	\$72.22	\$57.19	\$60.58	\$62.38	\$64.24
Total	\$54.81	\$77.35	\$81.05	\$93.10	\$76.58	\$83.03	\$85.65	\$88.35

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
	Average	\$6,792,043	\$648,841	\$6,143,202
2. Average FY 2001-2017 Loss Payments		\$36,658,492	\$22,360,532	\$14,297,959
3. Ratio of Expense Payments to Loss Payments (Section 1 / Section 2)		Actual	2.90%	42.97%
		Prior	2.80%	43.00%
		Selected	2.90%	43.00%
4. Case Reserves as of 11/30/17		\$178,629,548	\$94,455,000	\$84,174,548
5. IBNR Reserves as of 11/30/17		96,139,603	44,916,151	51,223,452
6. Estimated Undiscounted Expense Reserves as of 11/30/17		42,795,778	2,672,166	40,123,612
7. Discount Factor		0.932	0.952	0.931
8. Estimated Discounted Expense Reserves as of 11/30/17		39,901,036	2,543,718	37,357,318
9. Estimated Outstanding Losses as of 11/30/18		276,713,603	126,994,835	149,718,768
9a. Estimated Case Reserves as of 11/30/18		179,144,806	86,067,289	93,077,517
9b. Estimated IBNR Reserves as of 11/30/18		97,568,797	40,927,546	56,641,251
10. Estimated Undiscounted Expense Reserves as of 11/30/18		46,802,279	2,434,875	44,367,404
11. Estimated Discounted Expense Reserves as of 11/30/18		43,626,357	2,317,833	41,308,524
12. Estimated Outstanding Losses as of 11/30/19		285,992,224	122,563,983	163,428,241
12a. Estimated Case Reserves as of 11/30/19		184,664,855	83,064,400	101,600,455
12b. Estimated IBNR Reserves as of 11/30/19		101,327,369	39,499,583	61,827,786
13. Estimated Undiscounted Expense Reserves as of 11/30/19		50,779,968	2,349,922	48,430,046
14. Estimated Discounted Expense Reserves as of 11/30/19		47,328,034	2,236,964	45,091,070

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, 2017

Claim Period (1)	Limited Paid Losses 11/30/17 (2)	Limited Case Reserves 11/30/17 (3)	Limited Reported Incurred Losses 11/30/17 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/17 (5)-(4) (6)	Estimated Outstanding Losses 11/30/17 (3) + (6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/17 (7) x (8) (9)
to 1997/98	\$266,066,424	\$0	\$266,066,424	\$266,066,424	\$0	\$0	1.00	\$0
1998/99	17,925,000	0	17,925,000	17,925,000	0	0	1.00	0
1999/00	37,925,000	0	37,925,000	37,925,000	0	0	1.00	0
2000/01	11,706,000	0	11,706,000	11,706,000	0	0	1.00	0
2001/02	25,697,540	0	25,697,540	25,697,540	0	0	1.00	0
2002/03	7,162,500	0	7,162,500	7,162,500	0	0	1.00	0
2003/04	39,571,000	0	39,571,000	39,571,000	0	0	1.00	0
2004/05	21,597,600	10,000,000	31,597,600	32,597,750	1,000,150	11,000,150	1.00	11,000,150
2005/06	24,620,000	250,000	24,870,000	24,895,000	25,000	275,000	1.00	275,000
2006/07	4,752,500	100,000	4,852,500	4,862,500	10,000	110,000	0.99	108,970
2007/08	8,302,000	0	8,302,000	8,302,000	0	0	0.98	0
2008/09	8,380,000	0	8,380,000	8,380,000	0	0	0.98	0
2009/10	11,202,500	0	11,202,500	11,202,500	0	0	0.97	0
2010/11	5,468,000	5,000,000	10,468,000	11,293,000	825,000	5,825,000	0.97	5,645,481
2011/12	34,293,999	3,350,000	37,643,999	39,040,000	1,396,001	4,746,001	0.96	4,562,916
2012/13	5,590,000	55,875,000	61,465,000	66,180,000	4,715,000	60,590,000	0.96	58,294,026
2013/14	825,000	4,750,000	5,575,000	9,880,000	4,305,000	9,055,000	0.95	8,631,676
2014/15	30,000	8,650,000	8,680,000	16,130,000	7,450,000	16,100,000	0.94	15,140,223
2015/16	2,590,000	6,030,000	8,620,000	19,180,000	10,560,000	16,590,000	0.92	15,334,403
2016/17	0	450,000	450,000	15,080,000	14,630,000	15,080,000	0.91	13,678,903
Total	\$533,705,063	\$94,455,000	\$628,160,063	\$673,076,214	\$44,916,151	\$139,371,151		\$132,671,748

Summary of Loss Payments

Claim Period (1)	Workers Compensation (2)	Liability Common Claims (3)	Medical Malpractice (Excluding Large Claims) (4)	Liability Catastrophe Claims and Med Mal Claims (5)	Total (6)
I. Actual Payments					
1995/96	\$10,993,178	\$2,423,315	\$17,479,600	\$750,000	\$31,646,093
1996/97	8,868,321	3,072,412	6,189,500	0	18,130,233
1997/98	9,055,271	2,956,966	23,423,000	0	35,435,237
1998/99	9,294,766	3,339,344	19,898,900	15,772,220	48,305,230
1999/00	9,777,906	3,779,701	36,918,877	11,635,555	62,112,039
2000/01	10,377,014	3,842,381	30,313,000	17,894,722	62,427,117
2001/02	11,711,329	1,231,819	21,071,700	2,975,000	36,989,848
2002/03	11,743,398	2,184,184	28,420,541	5,200,000	47,548,123
2003/04	14,846,640	3,467,845	17,786,500	625,000	36,725,985
2004/05	16,136,301	2,754,958	13,779,500	17,750,000	50,420,759
2005/06	16,824,867	2,573,671	16,605,040	29,567,543	65,571,121
2006/07	16,278,694	7,784,841	24,334,820	16,760,000	65,158,355
2007/08	19,695,589	9,983,268	22,141,450	29,450,250	81,270,557
2008/09	24,349,162	8,530,865	16,469,000	0	49,349,027
2009/10	19,238,537	12,743,402	16,758,000	0	48,739,939
2010/11	21,648,616	6,855,702	18,765,000	44,634,001	91,903,319
2011/12	20,142,760	18,175,329	3,740,000	0	42,058,088
2012/13	18,890,070	9,919,330	9,292,499	20,000,000	58,101,899
2013/14	23,156,358	9,323,194	12,080,000	0	44,559,552
2014/15	23,678,804	6,752,584	14,303,000	12,000,000	56,734,388
2015/16	31,071,950	11,235,817	13,380,000	6,000,000	61,687,767
2016/17	33,526,713	9,334,603	1,539,000	29,625,000	74,025,316
II. Estimated Future Payments					
2017/18	35,883,966	12,796,231	30,486,316		79,166,513
2018/19	34,789,092	14,483,527	23,260,852		72,533,471
2019/20	35,264,549	16,007,109	25,946,545		77,218,203

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

Section I, (3) excludes liability claims with actual or expected value greater than \$500,000.

Section I, (5) for 2004/05 through 2006/07 is the actual payments on large medical malpractice claims with a total ultimate value of \$51 million, plus payments over \$500,000 on liability claims.

Section II, (3) and (4) exclude claims included in Section II, (5).

Section III, (5) assumes open large claims will all be paid in 2010/11. Large claims are defined as at least \$1 million for liability and \$5 million for medical malpractice. **40**

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 11/30/16 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Estimated Outstanding Losses 11/30/16 (6) - (9)	Estimated Outstanding Losses 11/30/17 (7) - (10)	Projected Ultimate Limited Losses 11/30/16 (6)	Projected Ultimate Limited Losses 11/30/17 (7)	Change in Ultimate (7) - (6) (8)	Percentage Change in Ultimate (7) / (6) - 1 (9)	Limited Paid Losses 11/30/16 (10)	Limited Paid Losses 11/30/17 (11)	Limited Case Reserves 11/30/16 (2) - (10) (12)	Limited Case Reserves 11/30/17 (3) - (11) (13)	Estimated IBNR 11/30/16 (4)-(12) (14)	Estimated IBNR 11/30/17 (5)-(13) (15)
A. Health Care Facilities														
(Ai) WC - Indemnity	\$83,470	\$88,483	\$12,788	\$15,842	\$92,198	\$95,059	\$2,861	3.1%	\$76,450	\$79,217	\$7,019	\$9,267	\$5,768	\$6,575
(Aii) WC - Medical	27,092	27,793	4,484	4,010	29,641	28,631	(1,011)	-3.4%	23,867	24,620	3,225	3,173	1,259	837
(Bi) Cermak	20,416	23,871	2,837	7,345	23,863	26,666	2,803	11.7%	20,166	19,321	250	4,550	2,587	2,795
(Bii) John H. Stroger	463,683	496,486	107,583	123,996	523,096	534,952	11,857	2.3%	395,803	410,956	67,880	85,530	39,703	38,466
(Biii) Oak Forest	27,300	28,700	680	760	27,690	28,960	1,270	4.6%	27,000	28,200	300	500	380	260
(Biv) Provident	34,490	33,120	10,625	7,070	39,205	36,365	(2,840)	-7.2%	27,390	29,295	7,100	3,825	3,525	3,245
(Bv) Unspecified	45,324	45,983	245	200	45,539	46,133	594	1.3%	45,274	45,933	50	50	195	150
B. General Government														
(Ei) WC - Indemnity	251,618	282,256	58,537	74,080	300,084	318,632	18,548	6.2%	223,247	244,552	28,371	37,704	30,166	36,376
(Eii) WC - Medical	119,169	134,201	23,119	30,254	136,591	143,498	6,907	5.1%	104,541	113,243	14,628	20,958	8,491	9,296
(F) General liability	10,465	10,042	1,497	849	11,736	10,633	(1,103)	-9.4%	9,789	9,784	676	257	822	591
(G) Automobile liability	34,953	33,386	6,118	2,035	38,713	35,109	(3,603)	-9.3%	30,855	33,074	4,098	312	2,020	1,723
(H) Other liability	252,676	342,463	108,506	132,514	322,283	391,372	69,089	21.4%	195,147	258,858	57,529	83,605	50,977	48,909
Total	\$1,370,655	\$1,546,785	\$337,018	\$398,956	\$1,590,638	\$1,696,010	\$105,372	6.6%	\$1,179,529	\$1,297,054	\$191,126	\$249,731	\$145,892	\$149,224

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 11/30/16 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Estimated Outstanding Losses 11/30/16 (6) - (9)	Estimated Outstanding Losses 11/30/17 (7) - (10)	Projected Ultimate Limited Losses 11/30/16 (6)	Projected Ultimate Limited Losses 11/30/17 (7)	Change in Ultimate (7) - (6) (8)	Percentage Change in Ultimate (7) / (6) - 1 (9)	Limited Paid Losses 11/30/16 (10)	Limited Paid Losses 11/30/17 (11)	Limited Case Reserves 11/30/16 (2) - (10) (12)	Limited Case Reserves 11/30/17 (3) - (11) (13)	Estimated IBNR 11/30/16 (4)-(12) (14)	Estimated IBNR 11/30/17 (5)-(13) (15)
to 1997/98	\$464,090	\$505,935	\$3,659	\$6,949	\$464,435	\$506,567	\$42,133	9.1%	\$460,776	\$499,618	\$3,314	\$6,316	\$344	\$633
1998/99	32,419	33,985	355	335	32,480	34,026	1,546	4.8%	32,124	33,690	295	295	61	41
1999/00	54,286	54,198	38	14	54,297	54,201	(96)	-0.2%	54,259	54,187	27	11	11	3
2000/01	44,906	45,681	887	799	44,983	45,838	856	1.9%	44,095	45,039	811	642	77	157
2001/02	56,320	55,621	1,166	1,017	56,521	55,862	(659)	-1.2%	55,355	54,845	965	776	201	241
2002/03	30,564	30,640	594	564	30,694	30,781	87	0.3%	30,100	30,217	464	423	130	141
2003/04	121,957	124,234	1,707	1,671	122,294	124,692	2,398	2.0%	120,587	123,021	1,370	1,214	337	458
2004/05	65,112	76,672	15,012	26,236	67,685	79,260	11,576	17.1%	52,673	53,024	12,439	23,648	2,573	2,588
2005/06	46,685	47,342	1,422	908	47,194	47,629	435	0.9%	45,772	46,721	913	621	510	287
2006/07	34,533	35,419	1,408	2,716	34,983	36,436	1,453	4.2%	33,575	33,721	957	1,698	450	1,018
2007/08	47,516	48,525	7,069	8,015	48,332	49,935	1,603	3.3%	41,263	41,920	6,253	6,605	817	1,410
2008/09	38,024	39,486	4,693	4,333	40,052	40,858	806	2.0%	35,359	36,525	2,665	2,961	2,028	1,372
2009/10	48,899	49,417	6,434	5,300	51,541	51,366	(176)	-0.3%	45,107	46,066	3,792	3,351	2,642	1,949
2010/11	44,256	50,907	22,740	23,626	47,737	55,529	7,792	16.3%	24,997	31,903	19,258	19,003	3,482	4,623
2011/12	67,076	67,963	29,357	13,848	76,472	72,541	(3,931)	-5.1%	47,115	58,693	19,961	9,270	9,396	4,578
2012/13	69,600	94,423	67,508	78,147	86,782	104,185	17,403	20.1%	19,274	26,038	50,326	68,385	17,182	9,763
2013/14	44,042	42,204	48,775	26,056	65,170	54,806	(10,364)	-15.9%	16,395	28,751	27,647	13,454	21,128	12,602
2014/15	32,237	56,353	52,973	59,251	65,720	77,352	11,632	17.7%	12,747	18,100	19,490	38,253	33,483	20,998
2015/16	28,134	48,239	71,219	57,448	79,175	81,049	1,874	2.4%	7,956	23,601	20,178	24,638	51,041	32,810
2016/17		39,541		81,720	74,090	93,095	19,005	25.7%		11,375		28,167		53,554
Total	\$1,370,655	\$1,546,785	\$337,018	\$398,956	\$1,590,638	\$1,696,010	\$105,372	6.6%	\$1,179,529	\$1,297,054	\$191,126	\$249,731	\$145,892	\$149,224
Total (ex FY17)	\$1,370,655	\$1,507,244	\$337,018	\$317,235	\$1,516,548	\$1,602,915	\$86,367	5.7%	\$1,179,529	\$1,285,679	\$191,126	\$221,565	\$145,892	\$95,671

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Estimated Outstanding Losses 11/30/16 (6) - (9) (4)	Estimated Outstanding Losses 11/30/17 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/16 (6)	Projected Ultimate Limited Losses 11/30/17 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/16 (9)	Limited Paid Losses 11/30/17 (10)	Limited Case Reserves 11/30/16 (2) - (9) (11)	Limited Case Reserves 11/30/17 (3) - (10) (12)	Estimated IBNR 11/30/16 (4)-(11) (13)	Estimated IBNR 11/30/17 (5)-(12) (14)
to 1997/98	\$46,364	\$47,866	\$1,655	\$3,074	\$46,514	\$48,145	\$1,631	\$44,860	\$45,071	\$1,504	\$2,795	\$150	\$279
1998/99	2,783	2,824	311	291	2,840	2,861	21	2,529	2,570	254	254	57	37
1999/00	1,773	1,773	0	0	1,773	1,773	0	1,773	1,773	0	0	0	0
2000/01	1,536	1,536	0	0	1,536	1,536	0	1,536	1,536	0	0	0	0
2001/02	1,191	1,193	24	22	1,200	1,198	(2)	1,176	1,176	15	17	9	5
2002/03	3,020	3,017	130	97	3,060	3,043	(17)	2,930	2,946	89	71	40	26
2003/04	1,890	1,951	177	200	1,950	2,015	65	1,773	1,815	116	135	60	64
2004/05	3,134	3,134	966	869	3,300	3,250	(50)	2,334	2,381	800	753	166	116
2005/06	1,743	1,743	17	16	1,750	1,749	(1)	1,733	1,733	10	10	7	6
2006/07	2,107	2,107	33	33	2,120	2,120	0	2,087	2,087	20	20	13	13
2007/08	1,924	1,937	228	284	1,970	2,051	81	1,742	1,767	182	170	46	114
2008/09	2,045	2,075	200	189	2,120	2,144	24	1,920	1,955	125	120	75	69
2009/10	2,201	2,401	771	897	2,480	2,712	232	1,709	1,815	493	586	279	311
2010/11	1,957	1,847	556	347	2,150	1,978	(172)	1,594	1,631	363	217	193	131
2011/12	2,116	2,335	670	642	2,425	2,555	130	1,755	1,913	362	422	309	220
2012/13	2,336	2,675	1,189	799	2,900	3,054	154	1,711	2,255	625	419	564	379
2013/14	2,308	2,511	1,464	1,058	3,150	3,100	(50)	1,686	2,042	622	468	842	589
2014/15	1,419	1,555	1,619	1,187	2,500	2,250	(250)	881	1,063	538	492	1,081	695
2015/16	1,623	2,123	2,778	2,196	3,500	3,525	25	722	1,329	900	793	1,877	1,402
2016/17		1,882		3,642	2,960	4,000	1,040		358		1,524		2,118
Total	\$83,470	\$88,483	\$12,788	\$15,842	\$92,198	\$95,059	\$2,861	\$76,450	\$79,217	\$7,019	\$9,267	\$5,768	\$6,575
Total (ex FY17)	\$83,470	\$86,601	\$12,788	\$12,200	\$89,238	\$91,059	\$1,821	\$76,450	\$78,859	\$7,019	\$7,743	\$5,768	\$4,458

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Estimated Outstanding Losses 11/30/16 (6) - (9) (4)	Estimated Outstanding Losses 11/30/17 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/16 (6)	Projected Ultimate Limited Losses 11/30/17 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/16 (9)	Limited Paid Losses 11/30/17 (10)	Limited Case Reserves 11/30/16 (2) - (9) (11)	Limited Case Reserves 11/30/17 (3) - (10) (12)	Estimated IBNR 11/30/16 (4)-(11) (13)	Estimated IBNR 11/30/17 (5)-(12) (14)
to 1997/98	\$11,161	\$11,110	\$480	\$390	\$11,205	\$11,146	(\$59)	\$10,725	\$10,756	\$436	\$355	\$44	\$36
1998/99	678	678	45	45	682	682	0	637	637	41	41	4	4
1999/00	831	831	0	0	831	831	0	831	831	0	0	0	0
2000/01	711	711	0	0	711	711	0	711	711	0	0	0	0
2001/02	620	621	0	2	620	622	2	620	620	0	1	0	1
2002/03	919	920	22	23	921	922	1	899	899	20	21	2	2
2003/04	1,330	1,330	356	258	1,362	1,354	(8)	1,006	1,096	324	234	32	24
2004/05	1,272	1,272	25	23	1,274	1,274	(0)	1,250	1,251	23	21	2	2
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	777	780	34	37	780	783	3	746	746	31	34	3	3
2008/09	711	721	36	40	720	725	5	684	685	27	36	9	4
2009/10	775	744	92	40	790	749	(41)	698	709	78	35	15	5
2010/11	763	706	118	52	780	714	(66)	662	662	101	43	17	8
2011/12	1,004	991	136	92	1,030	1,008	(22)	894	916	111	75	26	17
2012/13	969	979	236	148	1,010	1,004	(6)	774	856	195	123	41	25
2013/14	886	736	354	135	945	766	(179)	591	631	295	105	59	30
2014/15	615	536	539	217	850	600	(250)	311	383	304	154	235	64
2015/16	1,379	1,037	2,012	806	2,150	1,250	(900)	138	444	1,241	593	771	213
2016/17		1,400		1,702	1,290	1,800	510		98		1,302		400
Total	\$27,092	\$27,793	\$4,484	\$4,010	\$29,641	\$28,631	(\$1,011)	\$23,867	\$24,620	\$3,225	\$3,173	\$1,259	\$837
Total (ex FY17)	\$27,092	\$26,393	\$4,484	\$2,308	\$28,351	\$26,831	(\$1,521)	\$23,867	\$24,523	\$3,225	\$1,871	\$1,259	\$437

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Estimated Outstanding Losses 11/30/16 (6) - (9) (4)	Estimated Outstanding Losses 11/30/17 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/16 (6)	Projected Ultimate Limited Losses 11/30/17 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/16 (9)	Limited Paid Losses 11/30/17 (10)	Limited Case Reserves 11/30/16 (2) - (9) (11)	Limited Case Reserves 11/30/17 (3) - (10) (12)	Estimated IBNR 11/30/16 (4)-(11) (13)	Estimated IBNR 11/30/17 (5)-(12) (14)
to 1997/98	\$8,762	\$8,762	\$0	\$0	\$8,762	\$8,762	\$0	\$8,762	\$8,762	\$0	\$0	\$0	\$0
1998/99	50	50	0	0	50	50	0	50	50	0	0	0	0
1999/00	2,250	2,250	0	0	2,250	2,250	0	2,250	2,250	0	0	0	0
2000/01	950	950	0	0	950	950	0	950	950	0	0	0	0
2001/02	1,213	1,000	0	0	1,213	1,000	(213)	1,213	1,000	0	0	0	0
2002/03	22	19	0	0	22	19	(3)	22	19	0	0	0	0
2003/04	3,409	2,959	0	0	3,409	2,959	(450)	3,409	2,959	0	0	0	0
2004/05	18	1	0	0	18	1	(17)	18	1	0	0	0	0
2005/06	1,028	1,000	0	0	1,028	1,000	(28)	1,028	1,000	0	0	0	0
2006/07	16	3	0	0	16	3	(14)	16	3	0	0	0	0
2007/08	1,125	1,000	0	0	1,125	1,000	(125)	1,125	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	97	0	100	3	(97)	3	3	0	0	97	0
2011/12	10	10	240	0	250	10	(240)	10	10	0	0	240	0
2012/13	0	0	250	150	250	150	(100)	0	0	0	0	250	150
2013/14	0	0	250	200	250	200	(50)	0	0	0	0	250	200
2014/15	200	3,055	1,000	3,495	1,000	3,500	2,500	0	5	200	3,050	800	445
2015/16	50	1,500	1,000	2,500	1,000	2,500	1,500	0	0	50	1,500	950	1,000
2016/17	0	0	0	1,000	860	1,000	140	0	0	0	0	0	1,000
Total	\$20,416	\$23,871	\$2,837	\$7,345	\$23,863	\$26,666	\$2,803	\$20,166	\$19,321	\$250	\$4,550	\$2,587	\$2,795
Total (ex FY17)	\$20,416	\$23,871	\$2,837	\$6,345	\$23,003	\$25,666	\$2,663	\$20,166	\$19,321	\$250	\$4,550	\$2,587	\$1,795

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Estimated Outstanding Losses 11/30/16 (6) - (9) (4)	Estimated Outstanding Losses 11/30/17 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/16 (6)	Projected Ultimate Limited Losses 11/30/17 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/16 (9)	Limited Paid Losses 11/30/17 (10)	Limited Case Reserves 11/30/16 (2) - (9) (11)	Limited Case Reserves 11/30/17 (3) - (10) (12)	Estimated IBNR 11/30/16 (4)-(11) (13)	Estimated IBNR 11/30/17 (5)-(12) (14)
to 1997/98	\$197,677	\$200,901	\$0	\$0	\$197,677	\$200,901	\$3,224	\$197,677	\$200,901	\$0	\$0	\$0	\$0
1998/99	15,380	15,380	0	0	15,380	15,380	0	15,380	15,380	0	0	0	0
1999/00	33,190	33,190	0	0	33,190	33,190	0	33,190	33,190	0	0	0	0
2000/01	10,411	10,411	0	0	10,411	10,411	0	10,411	10,411	0	0	0	0
2001/02	23,648	23,648	0	0	23,648	23,648	0	23,648	23,648	0	0	0	0
2002/03	4,269	4,269	0	0	4,269	4,269	0	4,269	4,269	0	0	0	0
2003/04	8,378	8,378	0	0	8,378	8,378	0	8,378	8,378	0	0	0	0
2004/05	19,607	29,607	0	11,000	19,607	30,607	11,000	19,607	19,607	0	10,000	0	1,000
2005/06	22,575	22,825	0	275	22,575	22,850	275	22,575	22,575	0	250	0	25
2006/07	4,750	4,850	0	110	4,750	4,860	110	4,750	4,750	0	100	0	10
2007/08	7,002	7,002	0	0	7,002	7,002	0	7,002	7,002	0	0	0	0
2008/09	8,105	7,905	1,145	0	9,000	7,905	(1,095)	7,855	7,905	250	0	895	0
2009/10	9,093	9,093	908	0	10,000	9,093	(908)	9,093	9,093	0	0	908	0
2010/11	10,670	9,965	6,835	5,245	12,000	10,710	(1,290)	5,165	5,465	5,505	4,500	1,330	745
2011/12	36,970	35,569	15,630	4,281	40,000	36,750	(3,250)	24,370	32,469	12,600	3,100	3,030	1,181
2012/13	35,745	58,775	39,680	57,100	42,000	62,500	20,500	2,320	5,400	33,425	53,375	6,255	3,725
2013/14	5,800	5,150	12,500	8,600	12,500	9,000	(3,500)	0	400	5,800	4,750	6,700	3,850
2014/15	7,775	5,575	15,975	11,975	16,000	12,000	(4,000)	25	25	7,750	5,550	8,225	6,425
2015/16	2,640	3,620	14,910	12,410	15,000	12,500	(2,500)	90	90	2,550	3,530	12,360	8,880
2016/17		375		13,000	19,710	13,000	(6,710)		0		375		12,625
Total	\$463,683	\$496,486	\$107,583	\$123,996	\$523,096	\$534,952	\$11,857	\$395,803	\$410,956	\$67,880	\$85,530	\$39,703	\$38,466
Total (ex FY17)	\$463,683	\$496,111	\$107,583	\$110,996	\$503,386	\$521,952	\$18,567	\$395,803	\$410,956	\$67,880	\$85,155	\$39,703	\$25,841

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Estimated Outstanding Losses 11/30/16 (6) - (9) (4)	Estimated Outstanding Losses 11/30/17 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/16 (6)	Projected Ultimate Limited Losses 11/30/17 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/16 (9)	Limited Paid Losses 11/30/17 (10)	Limited Case Reserves 11/30/16 (2) - (9) (11)	Limited Case Reserves 11/30/17 (3) - (10) (12)	Estimated IBNR 11/30/16 (4)-(11) (13)	Estimated IBNR 11/30/17 (5)-(12) (14)
to 1997/98	\$2,780	\$3,980	\$0	\$0	\$2,780	\$3,980	\$1,200	\$2,780	\$3,980	\$0	\$0	\$0	\$0
1998/99	0	0	0	0	0	0	0	0	0	0	0	0	0
1999/00	0	0	0	0	0	0	0	0	0	0	0	0	0
2000/01	0	0	0	0	0	0	0	0	0	0	0	0	0
2001/02	100	100	0	0	100	100	0	100	100	0	0	0	0
2002/03	1,050	1,050	0	0	1,050	1,050	0	1,050	1,050	0	0	0	0
2003/04	20,375	20,375	0	0	20,375	20,375	0	20,375	20,375	0	0	0	0
2004/05	1,900	1,900	0	0	1,900	1,900	0	1,900	1,900	0	0	0	0
2005/06	620	620	0	0	620	620	0	620	620	0	0	0	0
2006/07	0	0	0	0	0	0	0	0	0	0	0	0	0
2007/08	0	0	0	0	0	0	0	0	0	0	0	0	0
2008/09	175	175	0	0	175	175	0	175	175	0	0	0	0
2009/10	0	0	0	0	0	0	0	0	0	0	0	0	0
2010/11	300	500	300	580	300	580	280	0	0	300	500	0	80
2011/12	0	0	100	30	100	30	(70)	0	0	0	0	100	30
2012/13	0	0	65	30	65	30	(35)	0	0	0	0	65	30
2013/14	0	0	70	30	70	30	(40)	0	0	0	0	70	30
2014/15	0	0	70	30	70	30	(40)	0	0	0	0	70	30
2015/16	0	0	75	30	75	30	(45)	0	0	0	0	75	30
2016/17	0	0	0	30	10	30	20	0	0	0	0	0	30
Total	\$27,300	\$28,700	\$680	\$760	\$27,690	\$28,960	\$1,270	\$27,000	\$28,200	\$300	\$500	\$380	\$260
Total (ex FY17)	\$27,300	\$28,700	\$680	\$730	\$27,680	\$28,930	\$1,250	\$27,000	\$28,200	\$300	\$500	\$380	\$230

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Estimated Outstanding Losses 11/30/16 (6) - (9) (4)	Estimated Outstanding Losses 11/30/17 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/16 (6)	Projected Ultimate Limited Losses 11/30/17 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/16 (9)	Limited Paid Losses 11/30/17 (10)	Limited Case Reserves 11/30/16 (2) - (9) (11)	Limited Case Reserves 11/30/17 (3) - (10) (12)	Estimated IBNR 11/30/16 (4)-(11) (13)	Estimated IBNR 11/30/17 (5)-(12) (14)
to 1997/98	\$10,490	\$8,040	\$0	\$0	\$10,490	\$8,040	(\$2,450)	\$10,490	\$8,040	\$0	\$0	\$0	\$0
1998/99	1,245	2,495	0	0	1,245	2,495	1,250	1,245	2,495	0	0	0	0
1999/00	2,485	2,485	0	0	2,485	2,485	0	2,485	2,485	0	0	0	0
2000/01	345	345	0	0	345	345	0	345	345	0	0	0	0
2001/02	200	200	0	0	200	200	0	200	200	0	0	0	0
2002/03	1,025	1,025	0	0	1,025	1,025	0	1,025	1,025	0	0	0	0
2003/04	7,860	7,860	0	0	7,860	7,860	0	7,860	7,860	0	0	0	0
2004/05	90	90	0	0	90	90	0	90	90	0	0	0	0
2005/06	425	425	0	0	425	425	0	425	425	0	0	0	0
2006/07	0	0	0	0	0	0	0	0	0	0	0	0	0
2007/08	300	300	0	0	300	300	0	300	300	0	0	0	0
2008/09	300	300	0	0	300	300	0	300	300	0	0	0	0
2009/10	800	800	0	0	800	800	0	800	800	0	0	0	0
2010/11	0	0	100	0	100	0	(100)	0	0	0	0	100	0
2011/12	2,065	2,065	435	435	2,250	2,250	0	1,815	1,815	250	250	185	185
2012/13	3,510	2,690	4,240	3,310	4,250	3,500	(750)	10	190	3,500	2,500	740	810
2013/14	600	425	1,000	225	1,000	650	(350)	0	425	600	0	400	225
2014/15	250	0	850	500	850	500	(350)	0	0	250	0	600	500
2015/16	2,500	3,500	4,000	1,600	4,000	4,100	100	0	2,500	2,500	1,000	1,500	600
2016/17		75		1,000	1,190	1,000	(190)		0		75		925
Total	\$34,490	\$33,120	\$10,625	\$7,070	\$39,205	\$36,365	(\$2,840)	\$27,390	\$29,295	\$7,100	\$3,825	\$3,525	\$3,245
Total (ex FY17)	\$34,490	\$33,045	\$10,625	\$6,070	\$38,015	\$35,365	(\$2,650)	\$27,390	\$29,295	\$7,100	\$3,750	\$3,525	\$2,320

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Estimated Outstanding Losses 11/30/16 (6) - (9) (4)	Estimated Outstanding Losses 11/30/17 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/16 (6)	Projected Ultimate Limited Losses 11/30/17 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/16 (9)	Limited Paid Losses 11/30/17 (10)	Limited Case Reserves 11/30/16 (2) - (9) (11)	Limited Case Reserves 11/30/17 (3) - (10) (12)	Estimated IBNR 11/30/16 (4)-(11) (13)	Estimated IBNR 11/30/17 (5)-(12) (14)
to 1997/98	\$43,723	\$44,383	\$0	\$0	\$43,723	\$44,383	\$660	\$43,723	\$44,383	\$0	\$0	\$0	\$0
1998/99	0	0	0	0	0	0	0	0	0	0	0	0	0
1999/00	0	0	0	0	0	0	0	0	0	0	0	0	0
2000/01	0	0	0	0	0	0	0	0	0	0	0	0	0
2001/02	750	750	0	0	750	750	0	750	750	0	0	0	0
2002/03	800	800	0	0	800	800	0	800	800	0	0	0	0
2003/04	0	0	0	0	0	0	0	0	0	0	0	0	0
2004/05	0	0	0	0	0	0	0	0	0	0	0	0	0
2005/06	1	0	0	0	1	0	(1)	1	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	20	0	20	0	(20)	0	0	0	0	20	0
2011/12	0	0	25	0	25	0	(25)	0	0	0	0	25	0
2012/13	0	0	25	0	25	0	(25)	0	0	0	0	25	0
2013/14	0	0	25	0	25	0	(25)	0	0	0	0	25	0
2014/15	50	50	100	100	100	100	0	0	0	50	50	50	50
2015/16	0	0	50	50	50	50	0	0	0	0	0	50	50
2016/17	0	0	0	50	20	50	30	0	0	0	0	0	50
Total	\$45,324	\$45,983	\$245	\$200	\$45,539	\$46,133	\$594	\$45,274	\$45,933	\$50	\$50	\$195	\$150
Total (ex FY17)	\$45,324	\$45,983	\$245	\$150	\$45,519	\$46,083	\$564	\$45,274	\$45,933	\$50	\$50	\$195	\$100

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Estimated Outstanding Losses 11/30/16 (6) - (9) (4)	Estimated Outstanding Losses 11/30/17 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/16 (6)	Projected Ultimate Limited Losses 11/30/17 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/16 (9)	Limited Paid Losses 11/30/17 (10)	Limited Case Reserves 11/30/16 (2) - (9) (11)	Limited Case Reserves 11/30/17 (3) - (10) (12)	Estimated IBNR 11/30/16 (4)-(11) (13)	Estimated IBNR 11/30/17 (5)-(12) (14)
to 1997/98	\$67,510	\$67,514	\$1,283	\$1,070	\$67,635	\$67,611	(\$24)	\$66,351	\$66,541	\$1,159	\$973	\$125	\$97
1998/99	4,429	4,429	0	0	4,429	4,429	0	4,429	4,429	0	0	0	0
1999/00	6,241	6,226	34	13	6,250	6,229	(21)	6,216	6,216	25	10	9	3
2000/01	8,574	8,762	665	655	8,630	8,902	272	7,965	8,247	609	516	56	140
2001/02	9,098	9,063	1,097	955	9,280	9,293	13	8,183	8,338	915	724	182	230
2002/03	8,504	8,514	424	411	8,590	8,623	33	8,166	8,212	338	302	86	109
2003/04	8,831	8,777	1,060	1,099	9,060	9,133	73	8,000	8,034	831	743	229	356
2004/05	8,609	8,649	675	457	8,740	8,809	69	8,065	8,352	544	298	131	160
2005/06	8,795	8,837	417	244	8,920	8,927	7	8,503	8,683	292	154	125	90
2006/07	11,739	11,968	975	1,239	12,050	12,464	414	11,075	11,225	665	743	311	496
2007/08	16,602	16,997	910	890	16,800	17,356	556	15,890	16,466	711	531	198	359
2008/09	13,735	13,907	2,016	1,329	14,400	14,389	(11)	12,384	13,060	1,351	847	665	482
2009/10	13,215	13,262	2,744	2,218	14,000	14,025	25	11,256	11,807	1,959	1,455	785	763
2010/11	10,509	11,018	2,180	2,036	11,400	11,773	373	9,220	9,737	1,289	1,281	891	755
2011/12	12,770	13,071	4,837	3,273	14,750	14,279	(471)	9,913	11,006	2,856	2,066	1,980	1,208
2012/13	9,982	10,602	4,856	3,749	12,600	12,344	(256)	7,744	8,595	2,237	2,007	2,618	1,742
2013/14	11,564	12,220	8,419	5,884	16,250	15,354	(896)	7,831	9,470	3,732	2,750	4,686	3,134
2014/15	11,396	14,181	9,985	9,938	17,500	20,248	2,748	7,515	10,310	3,881	3,870	6,104	6,067
2015/16	9,516	19,675	15,960	15,525	20,500	26,444	5,944	4,540	10,919	4,976	8,755	10,984	6,769
2016/17		14,585		23,094	18,300	28,000	9,700		4,906		9,679		13,415
Total	\$251,618	\$282,256	\$58,537	\$74,080	\$300,084	\$318,632	\$18,548	\$223,247	\$244,552	\$28,371	\$37,704	\$30,166	\$36,376
Total (ex FY17)	\$251,618	\$267,671	\$58,537	\$50,986	\$281,784	\$290,632	\$8,848	\$223,247	\$239,646	\$28,371	\$28,025	\$30,166	\$22,961

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Estimated Outstanding Losses 11/30/16 (6) - (9) (4)	Estimated Outstanding Losses 11/30/17 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/16 (6)	Projected Ultimate Limited Losses 11/30/17 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/16 (9)	Limited Paid Losses 11/30/17 (10)	Limited Case Reserves 11/30/16 (2) - (9) (11)	Limited Case Reserves 11/30/17 (3) - (10) (12)	Estimated IBNR 11/30/16 (4)-(11) (13)	Estimated IBNR 11/30/17 (5)-(12) (14)
to 1997/98	\$22,935	\$22,927	\$241	\$214	\$22,960	\$22,947	(\$13)	\$22,719	\$22,733	\$215	\$194	\$25	\$20
1998/99	2,366	2,366	0	0	2,366	2,366	0	2,366	2,366	0	0	0	0
1999/00	2,607	2,607	5	2	2,610	2,607	(3)	2,605	2,605	2	1	3	0
2000/01	4,553	4,479	112	29	4,563	4,482	(81)	4,451	4,453	102	26	10	3
2001/02	4,134	4,133	31	27	4,140	4,135	(5)	4,109	4,109	26	24	6	2
2002/03	4,130	4,150	18	34	4,131	4,153	22	4,113	4,119	17	30	2	3
2003/04	3,846	3,847	108	104	3,860	3,857	(3)	3,752	3,753	94	94	14	10
2004/05	11,693	11,698	30	24	11,700	11,701	1	11,670	11,677	22	21	7	3
2005/06	4,055	4,002	86	20	4,070	4,005	(65)	3,984	3,985	71	17	15	3
2006/07	4,796	4,821	121	142	4,820	4,843	23	4,699	4,701	98	120	24	22
2007/08	6,216	6,265	338	326	6,280	6,325	45	5,942	5,999	274	265	64	60
2008/09	6,621	6,773	681	627	6,750	6,893	143	6,069	6,266	552	508	129	120
2009/10	6,775	6,762	767	690	6,910	6,894	(16)	6,143	6,204	633	558	135	132
2010/11	4,820	5,194	464	755	4,940	5,324	384	4,476	4,569	344	624	120	130
2011/12	4,792	4,872	829	734	5,010	5,032	22	4,181	4,298	611	573	218	160
2012/13	4,510	4,726	1,311	1,096	4,900	4,965	65	3,589	3,869	921	856	390	239
2013/14	5,891	5,896	2,723	1,888	6,800	6,269	(531)	4,077	4,381	1,814	1,515	909	373
2014/15	6,243	6,556	4,950	3,242	8,350	7,449	(901)	3,400	4,207	2,843	2,349	2,107	893
2015/16	8,185	11,180	10,305	6,915	12,500	13,250	750	2,195	6,335	5,990	4,844	4,315	2,070
2016/17		10,950		13,387	8,930	16,000	7,070		2,613		8,337		5,050
Total	\$119,169	\$134,201	\$23,119	\$30,254	\$136,591	\$143,498	\$6,907	\$104,541	\$113,243	\$14,628	\$20,958	\$8,491	\$9,296
Total (ex FY17)	\$119,169	\$123,251	\$23,119	\$16,867	\$127,661	\$127,498	(\$163)	\$104,541	\$110,630	\$14,628	\$12,621	\$8,491	\$4,246

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Estimated Outstanding Losses 11/30/16 (6) - (9) (4)	Estimated Outstanding Losses 11/30/17 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/16 (6)	Projected Ultimate Limited Losses 11/30/17 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/16 (9)	Limited Paid Losses 11/30/17 (10)	Limited Case Reserves 11/30/16 (2) - (9) (11)	Limited Case Reserves 11/30/17 (3) - (10) (12)	Estimated IBNR 11/30/16 (4)-(11) (13)	Estimated IBNR 11/30/17 (5)-(12) (14)
to 1997/98	\$4,303	\$3,794	\$0	\$0	\$4,303	\$3,794	(\$509)	\$4,303	\$3,794	\$0	\$0	\$0	\$0
1998/99	256	261	0	0	256	261	4	256	261	0	0	0	0
1999/00	1,636	1,651	0	0	1,636	1,651	15	1,636	1,651	0	0	0	0
2000/01	693	678	0	0	693	678	(15)	693	678	0	0	0	0
2001/02	243	252	0	0	243	252	10	243	252	0	0	0	0
2002/03	429	419	0	0	429	419	(9)	429	419	0	0	0	0
2003/04	35	30	0	0	35	30	(6)	35	30	0	0	0	0
2004/05	222	222	0	0	222	222	(0)	222	222	0	0	0	0
2005/06	170	138	0	0	170	138	(32)	170	138	0	0	0	0
2006/07	118	98	0	0	118	98	(20)	118	98	0	0	0	0
2007/08	447	486	0	0	447	486	39	447	486	0	0	0	0
2008/09	152	153	0	0	152	153	1	152	153	0	0	0	0
2009/10	313	311	0	0	313	311	(2)	313	311	0	0	0	0
2010/11	139	139	0	0	139	139	0	139	139	0	0	0	0
2011/12	170	140	60	0	200	140	(60)	140	140	30	0	30	0
2012/13	356	356	144	0	500	356	(144)	356	356	0	0	144	0
2013/14	258	242	332	68	430	280	(150)	98	212	160	31	172	38
2014/15	411	364	573	122	600	460	(140)	27	338	385	26	189	96
2015/16	113	236	388	296	400	400	0	12	104	101	133	287	164
2016/17		71		362	450	365	(85)		3		68		294
Total	\$ 10,465	\$ 10,042	\$ 1,497	\$ 849	\$ 11,736	\$ 10,633	\$ (1,103)	\$ 9,789	\$ 9,784	\$ 676	\$ 257	\$ 822	\$ 591
Total (ex FY17)	\$ 10,465	\$ 9,971	\$ 1,497	\$ 486	\$ 11,286	\$ 10,268	\$ (1,018)	\$ 9,789	\$ 9,782	\$ 676	\$ 189	\$ 822	\$ 297

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Estimated Outstanding Losses 11/30/16 (6) - (9) (4)	Estimated Outstanding Losses 11/30/17 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/16 (6)	Projected Ultimate Limited Losses 11/30/17 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/16 (9)	Limited Paid Losses 11/30/17 (10)	Limited Case Reserves 11/30/16 (2) - (9) (11)	Limited Case Reserves 11/30/17 (3) - (10) (12)	Estimated IBNR 11/30/16 (4)-(11) (13)	Estimated IBNR 11/30/17 (5)-(12) (14)
to 1997/98	\$4,125	\$2,437	\$0	\$0	\$4,125	\$2,437	(\$1,688)	\$4,125	\$2,437	\$0	\$0	\$0	\$0
1998/99	479	570	0	0	479	570	91	479	570	0	0	0	0
1999/00	559	465	0	0	559	465	(94)	559	465	0	0	0	0
2000/01	9,771	9,771	0	0	9,771	9,771	(0)	9,771	9,771	0	0	0	0
2001/02	2,498	2,498	0	0	2,498	2,498	0	2,498	2,498	0	0	0	0
2002/03	213	213	0	0	213	213	(0)	213	213	0	0	0	0
2003/04	385	397	0	0	385	397	11	385	397	0	0	0	0
2004/05	2,833	2,828	0	0	2,833	2,828	(5)	2,833	2,828	0	0	0	0
2005/06	171	176	0	0	171	176	5	171	176	0	0	0	0
2006/07	634	624	0	0	634	624	(10)	634	624	0	0	0	0
2007/08	128	132	0	0	128	132	4	128	132	0	0	0	0
2008/09	175	174	0	0	175	174	(1)	175	174	0	0	0	0
2009/10	6,828	6,830	0	0	6,828	6,830	2	6,828	6,830	0	0	0	0
2010/11	809	809	0	0	809	809	0	809	809	0	0	0	0
2011/12	432	432	0	0	432	432	0	432	432	0	0	0	0
2012/13	282	282	0	0	282	282	0	282	282	0	0	0	0
2013/14	3,408	2,907	3,344	0	3,750	2,907	(843)	406	2,907	3,002	0	342	0
2014/15	242	215	828	0	900	215	(685)	72	215	170	0	658	0
2015/16	980	1,331	1,946	780	2,000	2,000	0	54	1,220	926	111	1,020	669
2016/17		296		1,255	1,740	1,350	(390)		95		201		1,054
Total	\$ 34,953	\$ 33,386	\$ 6,118	\$ 2,035	\$ 38,713	\$ 35,109	\$ (3,603)	\$ 30,855	\$ 33,074	\$ 4,098	\$ 312	\$ 2,020	\$ 1,723
Total (ex FY17)	\$ 34,953	\$ 33,090	\$ 6,118	\$ 780	\$ 36,973	\$ 33,759	\$ (3,213)	\$ 30,855	\$ 32,979	\$ 4,098	\$ 111	\$ 2,020	\$ 669

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Estimated Outstanding Losses 11/30/16 (6) - (9) (4)	Estimated Outstanding Losses 11/30/17 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/16 (6)	Projected Ultimate Limited Losses 11/30/17 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/16 (9)	Limited Paid Losses 11/30/17 (10)	Limited Case Reserves 11/30/16 (2) - (9) (11)	Limited Case Reserves 11/30/17 (3) - (10) (12)	Estimated IBNR (4)-(11) (13)	Estimated IBNR (5)-(12) (14)
to 1997/98	\$ 44,261	\$ 84,220	\$ 0	\$ 2,200	\$ 44,261	\$ 84,420	\$ 40,159	\$ 44,261	\$ 82,220	\$ 0	\$ 2,000	\$ 0	\$ 200
1998/99	4,752	4,932	0	0	4,752	4,932	180	4,752	4,932	0	0	0	0
1999/00	2,713	2,721	0	0	2,713	2,721	8	2,713	2,721	0	0	0	0
2000/01	7,363	8,038	110	115	7,373	8,053	680	7,263	7,938	100	100	10	15
2001/02	12,626	12,164	14	12	12,630	12,166	(464)	12,616	12,154	10	10	4	2
2002/03	6,184	6,245	0	0	6,184	6,245	60	6,184	6,245	0	0	0	0
2003/04	65,618	68,333	7	10	65,620	68,336	2,716	65,613	68,326	5	8	2	3
2004/05	15,733	17,270	13,317	13,863	18,000	18,578	578	4,683	4,715	11,050	12,555	2,267	1,308
2005/06	6,338	6,812	902	353	6,700	6,975	275	5,798	6,622	540	190	362	163
2006/07	9,447	10,024	278	1,191	9,550	10,500	950	9,272	9,309	175	715	103	476
2007/08	12,995	13,627	5,561	6,478	13,500	14,500	1,000	7,940	8,022	5,055	5,605	506	873
2008/09	6,006	7,303	614	2,147	6,260	8,000	1,740	5,646	5,853	360	1,450	254	697
2009/10	7,589	7,903	1,152	1,455	8,110	8,642	532	6,958	7,187	630	716	521	739
2010/11	14,285	20,727	12,071	14,612	15,000	23,500	8,500	2,929	8,888	11,356	11,839	715	2,773
2011/12	6,747	8,478	6,395	4,361	10,000	10,055	55	3,605	5,694	3,142	2,785	3,253	1,577
2012/13	11,910	13,338	15,512	11,765	18,000	16,000	(2,000)	2,488	4,235	9,422	9,104	6,090	2,662
2013/14	13,326	12,117	18,295	7,967	20,000	16,250	(3,750)	1,705	8,283	11,621	3,834	6,674	4,133
2014/15	3,635	24,266	16,484	28,446	17,000	30,000	13,000	516	1,554	3,119	22,712	13,365	5,734
2015/16	1,148	4,038	17,796	14,341	18,000	15,000	(3,000)	204	659	944	3,379	16,852	10,962
2016/17		9,908		23,198	18,630	26,500	7,870		3,302	0	6,606		16,592
Total	\$ 252,676	\$ 342,463	\$ 108,506	\$ 132,514	\$ 322,283	\$ 391,372	\$ 69,089	\$ 195,147	\$ 258,858	\$ 57,529	\$ 83,605	\$ 50,977	\$ 48,909
Total (ex FY17)	\$ 252,676	\$ 332,556	\$ 108,506	\$ 109,317	\$ 303,653	\$ 364,872	\$ 61,219	\$ 195,147	\$ 255,556	\$ 57,529	\$ 77,000	\$ 50,977	\$ 32,317



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

Data Summary as of November 30, 2017
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Payroll (000) (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Limited Paid Losses 11/30/17 (8)	Limited Case Reserves 11/30/17 (9)	Limited Reported Incurred Losses 11/30/17 (10)
to 1997/98	See Note	None	240.0	Not Provided	5,406	13	\$45,071,186	\$2,794,771	\$47,865,956
1998/99	Unlimited	None	228.0	Not Provided	747	2	2,570,192	254,219	2,824,411
1999/00	Unlimited	None	216.0	Not Provided	635	0	1,772,683	0	1,772,683
2000/01	9,500,000	None	204.0	425,788	625	0	1,535,829	0	1,535,829
2001/02	9,500,000	None	192.0	434,846	490	1	1,176,100	16,700	1,192,800
2002/03	9,500,000	None	180.0	441,142	514	3	2,946,468	70,848	3,017,316
2003/04	Unlimited	None	168.0	453,644	593	4	1,815,390	135,199	1,950,589
2004/05	Unlimited	None	156.0	458,776	518	2	2,380,997	753,315	3,134,312
2005/06	Unlimited	None	144.0	464,619	510	1	1,732,797	10,000	1,742,797
2006/07	Unlimited	None	132.0	448,051	318	4	2,086,766	20,000	2,106,766
2007/08	Unlimited	None	120.0	445,664	274	8	1,766,944	169,808	1,936,752
2008/09	Unlimited	None	108.0	501,624	280	9	1,954,732	120,408	2,075,140
2009/10	Unlimited	None	96.0	526,535	214	13	1,814,996	586,283	2,401,279
2010/11	Unlimited	None	84.0	489,053	202	16	1,630,895	216,501	1,847,396
2011/12	Unlimited	None	72.0	515,084	169	14	1,912,999	421,651	2,334,650
2012/13	Unlimited	None	60.0	482,783	143	23	2,255,148	419,396	2,674,545
2013/14	Unlimited	None	48.0	482,783	158	23	2,042,092	468,488	2,510,580
2014/15	Unlimited	None	36.0	468,483	157	35	1,062,926	491,996	1,554,922
2015/16	Unlimited	None	24.0	497,031	176	48	1,329,378	793,340	2,122,718
2016/17	Unlimited	None	12.0	529,113	149	95	358,305	1,523,717	1,882,022
Total					12,278	314	\$79,216,825	\$9,266,639	\$88,483,464

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

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

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

Data was provided by the County.



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

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

Data Summary as of November 30, 2017
Gross Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Payroll (000) (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Gross Unlimited Paid Losses 11/30/17 (8)	Gross Unlimited Case Reserves 11/30/17 (9)	Gross Unlimited Reported Incurred Losses 11/30/17 (10)
to 1997/98	Unlimited	None	240.0	Not Provided	5,406	13	\$45,071,186	\$2,794,771	\$47,865,956
1998/99	Unlimited	None	228.0	Not Provided	747	2	2,570,192	254,219	2,824,411
1999/00	Unlimited	None	216.0	Not Provided	635	0	1,772,683	0	1,772,683
2000/01	Unlimited	None	204.0	425,788	625	0	1,535,829	0	1,535,829
2001/02	Unlimited	None	192.0	434,846	490	1	1,176,100	16,700	1,192,800
2002/03	Unlimited	None	180.0	441,142	514	3	2,946,468	70,848	3,017,316
2003/04	Unlimited	None	168.0	453,644	593	4	1,815,390	135,199	1,950,589
2004/05	Unlimited	None	156.0	458,776	518	2	2,380,997	753,315	3,134,312
2005/06	Unlimited	None	144.0	464,619	510	1	1,732,797	10,000	1,742,797
2006/07	Unlimited	None	132.0	448,051	318	4	2,086,766	20,000	2,106,766
2007/08	Unlimited	None	120.0	445,664	274	8	1,766,944	169,808	1,936,752
2008/09	Unlimited	None	108.0	501,624	280	9	1,954,732	120,408	2,075,140
2009/10	Unlimited	None	96.0	526,535	214	13	1,814,996	586,283	2,401,279
2010/11	Unlimited	None	84.0	489,053	202	16	1,630,895	216,501	1,847,396
2011/12	Unlimited	None	72.0	515,084	169	14	1,912,999	421,651	2,334,650
2012/13	Unlimited	None	60.0	482,783	143	23	2,255,148	419,396	2,674,545
2013/14	Unlimited	None	48.0	482,783	158	23	2,042,092	468,488	2,510,580
2014/15	Unlimited	None	36.0	468,483	157	35	1,062,926	491,996	1,554,922
2015/16	Unlimited	None	24.0	497,031	176	48	1,329,378	793,340	2,122,718
2016/17	Unlimited	None	12.0	529,113	149	95	358,305	1,523,717	1,882,022
Total					12,278	314	\$79,216,825	\$9,266,639	\$88,483,464

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

Data was provided by the County.



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

Exhibit WC-HC-Indem-2

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	98.4%	99.8%	100.0%
216.0	98.3%	99.7%	100.0%
204.0	98.1%	99.6%	100.0%
192.0	97.9%	99.5%	100.0%
180.0	97.7%	99.4%	100.0%
168.0	97.5%	99.2%	100.0%
156.0	97.2%	99.0%	100.0%
144.0	96.8%	98.8%	100.0%
132.0	96.3%	98.5%	100.0%
120.0	95.3%	98.1%	100.0%
108.0	93.7%	97.7%	100.0%
96.0	90.3%	96.5%	100.0%
84.0	86.0%	94.6%	99.9%
72.0	78.2%	92.3%	99.8%
60.0	70.4%	86.5%	99.7%
48.0	60.2%	79.7%	99.6%
36.0	48.6%	70.4%	99.3%
24.0	32.6%	57.7%	98.9%
12.0	14.8%	34.9%	96.5%

(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).

(6), (7) and (8) are interpolated, based on (2), (3) and (4), respectively.

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

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

Claim Period	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 1997/98																				
1998/99																				
1999/00																				
2000/01																				
2001/02																				
2002/03																				
2003/04																				
2004/05																				
2005/06																				
2006/07																				
2007/08																				
2008/09																				
2009/10																				
2010/11																				
2011/12																				
2012/13																				
2013/14																				
2014/15																				
2015/16																				
2016/17																				

II. Limited Paid Loss Development

Claim Period	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 1997/98																				
1998/99																				
1999/00																				
2000/01																				
2001/02																				
2002/03																				
2003/04																				
2004/05																				
2005/06																				
2006/07																				
2007/08																				
2008/09																				
2009/10																				
2010/11																				
2011/12																				
2012/13																				
2013/14																				
2014/15																				
2015/16																				
2016/17																				
Average All	2,112	1,379	1,207	1,161	1,131	1,094	1,040	1,037	1,026	1,028	1,033	1,020	1,018	1,023	1,025	1,024	1,019	1,012	1,086	
Wtd 3	2,181	1,382	1,269	1,261	1,188	1,066	1,112	1,040	1,040	1,038	1,051	1,026	1,040	1,018	1,033	1,028	1,007	1,019		
Last 3	2,366	1,370	1,278	1,280	1,201	1,068	1,117	1,042	1,038	1,041	1,045	1,032	1,030	1,027	1,033	1,029	1,019			
Last 5	2,236	1,271	1,166	1,195	1,173	1,065	1,024	1,045	1,022	1,020	1,004	1,011	1,008	1,019	1,009	1,009	1,002	1,002	1,001	1,015
x-Hi,Low																				
Similar	2,323	1,319	1,165	1,097	1,057	1,036	1,022	1,014	1,010	1,008	1,005	1,005	1,003	1,003	1,002	1,002	1,002	1,002	1,001	1,015
Previous	2,200	1,490	1,240	1,170	1,110	1,100	1,050	1,038	1,017	1,010	1,005	1,004	1,004	1,002	1,002	1,002	1,002	1,001	1,001	1,015
Selected	2,200	1,490	1,240	1,170	1,110	1,100	1,050	1,038	1,017	1,010	1,005	1,004	1,004	1,002	1,002	1,002	1,002	1,001	1,001	1,015
Cumulative	6,751	3,069	2,060	1,661	1,420	1,279	1,163	1,107	1,067	1,049	1,039	1,033	1,029	1,025	1,023	1,021	1,019	1,017	1,016	1,015
Percent	14.8%	32.6%	48.6%	60.2%	70.4%	78.2%	86.0%	90.3%	93.7%	95.3%	96.3%	96.8%	97.2%	97.5%	97.7%	97.9%	98.1%	98.3%	98.4%	98.5%

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

Amounts are limited (net of excess insurance).

Data was provided by the County.

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

Historical Reported Claims and Reported Claim Development

I. Historical Reported Claims	Historical Reported Claims and Reported Claim Development																					
	Claim Period	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1997/98																						
1998/99																						
1999/00																						
2000/01																						
2001/02																						
2002/03																						
2003/04																						
2004/05																						
2005/06																						
2006/07																						
2007/08																						
2008/09																						
2009/10																						
2010/11																						
2011/12																						
2012/13																						
2013/14																						
2014/15																						
2015/16																						
2016/17																						

II. Reported Claim Development

II. Reported Claim Development	Reported Claim Development																					
	Claim Period	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 1997/98																						
1998/99																						
1999/00																						
2000/01																						
2001/02																						
2002/03																						
2003/04																						
2004/05																						
2005/06																						
2006/07																						
2007/08																						
2008/09																						
2009/10																						
2010/11																						
2011/12																						
2012/13																						
2013/14																						
2014/15																						
2015/16																						
2016/17																						
Average All		1,038	1,020	1,006	1,003	1,004	1,003	1,001	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
Wtd 3		1,050	1,016	1,002	1,000	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
Last 3		1,050	1,016	1,002	1,000	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
Last 5		1,037	1,016	1,004	1,001	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
x-Follow																						
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		1,025	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	1,000
Selected		1,025	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	1,000
Cumulative		1,036	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	1,000
Percent		96.5%	98.9%	98.3%	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%	100.0%

Data was provided by the County.

COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (INDEMNITY)
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 1/09/08																					
1999/09																					
2000/01																					
2001/02																					
2002/03																					
2003/04																					
2004/05																					
2005/06																					
2006/07																					
2007/08																					
2008/09																					
2009/10																					
2010/11																					
2011/12																					
2012/13																					
2013/14																					
2014/15																					
2015/16																					
2016/17																					
Average																					
All	43.0%	63.4%	71.4%	78.6%	81.1%	84.4%	84.3%	84.8%	89.3%	90.5%	92.0%	92.4%	91.9%	94.8%	96.3%	97.1%	97.3%	96.3%	94.6%	94.2%	
Last 3	33.6%	61.1%	67.0%	76.3%	79.6%	78.7%	83.0%	85.8%	92.2%	96.6%	90.1%	88.7%	88.6%	96.3%	97.9%	99.5%	97.1%	96.3%	96.3%	94.2%	
Last 5	40.8%	61.1%	69.1%	76.3%	79.6%	79.8%	84.4%	91.1%	94.4%	96.6%	96.6%	96.6%	96.2%	97.7%	97.9%	98.5%	97.1%	96.3%	96.3%	94.2%	
x-high																					
Implicit	42.4%	56.5%	69.0%	75.5%	81.4%	84.7%	80.9%	93.6%	95.9%	97.2%	97.7%	97.9%	98.1%	98.3%	98.3%	98.4%	98.5%	98.6%	98.6%	98.6%	



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

Exhibit WC-HC-Indem-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/17 (2)	Limited Paid Losses 11/30/17 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1997/98	240.0	\$45,071,186	98.5%	\$45,747,253
1998/99	228.0	2,570,192	98.4%	2,611,354
1999/00	216.0	1,772,683	98.3%	1,802,874
2000/01	204.0	1,535,829	98.1%	1,565,110
2001/02	192.0	1,176,100	97.9%	1,200,920
2002/03	180.0	2,946,468	97.7%	3,014,665
2003/04	168.0	1,815,390	97.5%	1,861,123
2004/05	156.0	2,380,997	97.2%	2,450,742
2005/06	144.0	1,732,797	96.8%	1,790,689
2006/07	132.0	2,086,766	96.3%	2,167,266
2007/08	120.0	1,766,944	95.3%	1,853,458
2008/09	108.0	1,954,732	93.7%	2,085,298
2009/10	96.0	1,814,996	90.3%	2,009,805
2010/11	84.0	1,630,895	86.0%	1,896,241
2011/12	72.0	1,912,999	78.2%	2,446,668
2012/13	60.0	2,255,148	70.4%	3,201,536
2013/14	48.0	2,042,092	60.2%	3,391,911
2014/15	36.0	1,062,926	48.6%	2,189,243
2015/16	24.0	1,329,378	32.6%	4,079,676
2016/17	12.0	358,305	14.8%	2,419,093
Total		\$79,216,825		\$89,784,925

(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 11/30/17 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1997/98	240.0	\$47,865,956	99.9%	\$47,913,822
1998/99	228.0	2,824,411	99.8%	2,830,063
1999/00	216.0	1,772,683	99.7%	1,778,006
2000/01	204.0	1,535,829	99.6%	1,541,981
2001/02	192.0	1,192,800	99.5%	1,198,776
2002/03	180.0	3,017,316	99.4%	3,035,465
2003/04	168.0	1,950,589	99.2%	1,966,247
2004/05	156.0	3,134,312	99.0%	3,165,790
2005/06	144.0	1,742,797	98.8%	1,763,821
2006/07	132.0	2,106,766	98.5%	2,138,576
2007/08	120.0	1,936,752	98.1%	1,973,859
2008/09	108.0	2,075,140	97.7%	2,123,359
2009/10	96.0	2,401,279	96.5%	2,489,018
2010/11	84.0	1,847,396	94.6%	1,953,196
2011/12	72.0	2,334,650	92.3%	2,530,063
2012/13	60.0	2,674,545	86.5%	3,092,600
2013/14	48.0	2,510,580	79.7%	3,149,762
2014/15	36.0	1,554,922	70.4%	2,210,254
2015/16	24.0	2,122,718	57.7%	3,681,168
2016/17	12.0	1,882,022	34.9%	5,385,202
Total		\$88,483,464		\$95,921,030

(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 11/30/17 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/17 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/17 (6)	Limited Case Reserves 11/30/17 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1997/98	240.0	98.5%	99.9%	93.2%	\$45,071,186	\$2,794,771	\$48,068,577
1998/99	228.0	98.4%	99.8%	87.3%	2,570,192	254,219	2,861,292
1999/00	216.0	98.3%	99.7%	82.1%	1,772,683	0	1,772,683
2000/01	204.0	98.1%	99.6%	78.7%	1,535,829	0	1,535,829
2001/02	192.0	97.9%	99.5%	75.9%	1,176,100	16,700	1,198,109
2002/03	180.0	97.7%	99.4%	73.6%	2,946,468	70,848	3,042,769
2003/04	168.0	97.5%	99.2%	67.6%	1,815,390	135,199	2,015,408
2004/05	156.0	97.2%	99.0%	65.1%	2,380,997	753,315	3,538,857
2005/06	144.0	96.8%	98.8%	63.1%	1,732,797	10,000	1,748,637
2006/07	132.0	96.3%	98.5%	60.0%	2,086,766	20,000	2,120,125
2007/08	120.0	95.3%	98.1%	59.7%	1,766,944	169,808	2,051,264
2008/09	108.0	93.7%	97.7%	63.7%	1,954,732	120,408	2,143,663
2009/10	96.0	90.3%	96.5%	63.6%	1,814,996	586,283	2,736,350
2010/11	84.0	86.0%	94.6%	61.3%	1,630,895	216,501	1,984,133
2011/12	72.0	78.2%	92.3%	64.6%	1,912,999	421,651	2,565,810
2012/13	60.0	70.4%	86.5%	54.3%	2,255,148	419,396	3,027,942
2013/14	48.0	60.2%	79.7%	49.0%	2,042,092	468,488	2,998,065
2014/15	36.0	48.6%	70.4%	42.4%	1,062,926	491,996	2,224,129
2015/16	24.0	32.6%	57.7%	37.2%	1,329,378	793,340	3,461,959
2016/17	12.0	14.8%	34.9%	23.6%	358,305	1,523,717	6,804,469
Total					\$79,216,825	\$9,266,639	\$97,900,068

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

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

Preliminary Projected Ultimate Limited Losses to 2016/17

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 1997/98	\$45,747,253	\$47,913,822	\$48,068,577	\$48,145,433
1998/99	2,611,354	2,830,063	2,861,292	2,861,292
1999/00	1,802,874	1,778,006	1,772,683	1,772,683
2000/01	1,565,110	1,541,981	1,535,829	1,535,829
2001/02	1,200,920	1,198,776	1,198,109	1,198,109
2002/03	3,014,665	3,035,465	3,042,769	3,042,769
2003/04	1,861,123	1,966,247	2,015,408	2,015,408
2004/05	2,450,742	3,165,790	3,538,857	3,538,857
2005/06	1,790,689	1,763,821	1,748,637	1,748,637
2006/07	2,167,266	2,138,576	2,120,125	2,120,125
2007/08	1,853,458	1,973,859	2,051,264	2,051,264
2008/09	2,085,298	2,123,359	2,143,663	2,143,663
2009/10	2,009,805	2,489,018	2,736,350	2,711,617
2010/11	1,896,241	1,953,196	1,984,133	1,977,945
2011/12	2,446,668	2,530,063	2,565,810	2,555,086
2012/13	3,201,536	3,092,600	3,027,942	3,053,805
2013/14	3,391,911	3,149,762	2,998,065	3,098,128
2014/15	2,189,243	2,210,254	2,224,129	2,211,602
2015/16	4,079,676	3,681,168	3,461,959	3,673,186
2016/17	2,419,093	5,385,202	6,804,469	5,359,687
Total	\$89,784,925	\$95,921,030	\$97,900,068	\$96,815,124

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

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

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

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

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Payroll (000) (3)	Limited Loss Rate per \$100 of Payroll (2)/(3)/10 (4)	Loss Rate Trend (2017/18 = 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)
2007/08	\$2,051,264	\$445,664	\$0.46	1.163	\$0.54	\$0.50
2008/09	2,143,663	501,624	0.43	1.140	0.49	0.51
2009/10	2,711,617	526,535	0.51	1.115	0.57	0.52
2010/11	1,977,945	489,053	0.40	1.106	0.45	0.53
2011/12	2,555,086	515,084	0.50	1.110	0.55	0.52
2012/13	3,053,805	482,783	0.63	1.092	0.69	0.53
2013/14	3,098,128	482,783	0.64	1.074	0.69	0.54
2014/15	2,211,602	468,483	0.47	1.055	0.50	0.55
2015/16	3,673,186	497,031	0.74	1.033	0.76	0.56
2016/17	5,359,687	529,113	1.01	1.015	1.03	0.57

(7) Projected 2017/18 a-priori loss rate per \$100 of Payroll \$0.58

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/17 (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)
2012/13	\$2,255,148	70.4%	\$0.53	\$482,783	\$760,217	\$3,015,365
2013/14	2,042,092	60.2%	0.54	482,783	1,040,462	3,082,554
2014/15	1,062,926	48.6%	0.55	468,483	1,329,479	2,392,405
2015/16	1,329,378	32.6%	0.56	497,031	1,887,235	3,216,614
2016/17	358,305	14.8%	0.57	529,113	2,583,629	2,941,934

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/17 (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)
2012/13	\$2,674,545	86.5%	\$0.53	\$482,783	\$347,646	\$3,022,190
2013/14	2,510,580	79.7%	0.54	482,783	530,569	3,041,149
2014/15	1,554,922	70.4%	0.55	468,483	766,186	2,321,108
2015/16	2,122,718	57.7%	0.56	497,031	1,185,166	3,307,885
2016/17	1,882,022	34.9%	0.57	529,113	1,972,922	3,854,944

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

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

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

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

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

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

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

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/17 (2)	Reported Claims 11/30/17 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2007/08	120.0	274	100.0%	274	\$445,664	0.61
2008/09	108.0	280	100.0%	280	501,624	0.56
2009/10	96.0	214	100.0%	214	526,535	0.41
2010/11	84.0	202	99.9%	202	489,053	0.41
2011/12	72.0	169	99.8%	169	515,084	0.33
2012/13	60.0	143	99.7%	143	482,783	0.30
2013/14	48.0	158	99.6%	159	482,783	0.33
2014/15	36.0	157	99.3%	158	468,483	0.34
2015/16	24.0	176	98.9%	178	497,031	0.36
2016/17	12.0	149	96.5%	154	529,113	0.29

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2017/18 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2017/18 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2007/08	\$2,051,264	274	\$7,486	1.563	\$11,702	\$11,635	\$3,188,090
2008/09	2,143,663	280	7,656	1.487	11,383	12,233	3,425,100
2009/10	2,711,617	214	12,671	1.413	17,904	12,872	2,754,615
2010/11	1,977,945	202	9,792	1.360	13,317	13,373	2,701,383
2011/12	2,555,086	169	15,119	1.325	20,038	13,723	2,319,183
2012/13	3,053,805	143	21,355	1.266	27,039	14,365	2,054,160
2013/14	3,098,128	159	19,485	1.209	23,560	15,042	2,391,668
2014/15	2,211,602	158	13,997	1.153	16,133	15,780	2,493,307
2015/16	3,673,186	178	20,636	1.096	22,614	16,597	2,954,224
2016/17	5,359,687	154	34,803	1.045	36,385	17,397	2,679,131

(7) Projected 2017/18 average claim severity

\$18,188

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 2016/17

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 1997/98	\$45,747,253	\$47,913,822	\$48,068,577				\$46,514,466	\$48,145,433
1998/99	2,611,354	2,830,063	2,861,292				2,840,000	2,861,000
1999/00	1,802,874	1,778,006	1,772,683				1,772,683	1,772,683
2000/01	1,565,110	1,541,981	1,535,829				1,535,829	1,535,829
2001/02	1,200,920	1,198,776	1,198,109				1,200,000	1,198,000
2002/03	3,014,665	3,035,465	3,042,769				3,060,000	3,043,000
2003/04	1,861,123	1,966,247	2,015,408				1,950,000	2,015,000
2004/05	2,450,742	3,165,790	3,538,857				3,300,000	3,250,000
2005/06	1,790,689	1,763,821	1,748,637				1,750,000	1,749,000
2006/07	2,167,266	2,138,576	2,120,125				2,120,000	2,120,000
2007/08	1,853,458	1,973,859	2,051,264				1,970,000	2,051,000
2008/09	2,085,298	2,123,359	2,143,663				2,120,000	2,144,000
2009/10	2,009,805	2,489,018	2,736,350				2,480,000	2,712,000
2010/11	1,896,241	1,953,196	1,984,133				2,150,000	1,978,000
2011/12	2,446,668	2,530,063	2,565,810				2,425,000	2,555,000
2012/13	3,201,536	3,092,600	3,027,942	3,015,365	3,022,190	2,054,160	2,900,000	3,054,000
2013/14	3,391,911	3,149,762	2,998,065	3,082,554	3,041,149	2,391,668	3,150,000	3,100,000
2014/15	2,189,243	2,210,254	2,224,129	2,392,405	2,321,108	2,493,307	2,500,000	2,250,000
2015/16	4,079,676	3,681,168	3,461,959	3,216,614	3,307,885	2,954,224	3,500,000	3,525,000
2016/17	2,419,093	5,385,202	6,804,469	2,941,934	3,854,944	2,679,131	2,960,000	4,000,000
Total	\$89,784,925	\$95,921,030	\$97,900,068				\$92,197,978	\$95,058,945
2012/13 - 2016/17	15,281,459	17,518,986	18,516,564	14,648,873	15,547,275	12,572,490	15,010,000	15,929,000
to 2011/12	74,503,467	78,402,044	79,383,504				77,187,978	79,129,945
						Change		
						All years		\$2,860,967
						2012/13 - 2016/17		919,000
						to 2011/12		1,941,967

(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 2017/18 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 (2017/18 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2007/08	\$2,051,000	\$445,664	\$0.46	1.163	\$0.54
2008/09	2,144,000	501,624	0.43	1.140	0.49
2009/10	2,712,000	526,535	0.52	1.115	0.57
2010/11	1,978,000	489,053	0.40	1.106	0.45
2011/12	2,555,000	515,084	0.50	1.110	0.55
2012/13	3,054,000	482,783	0.63	1.092	0.69
2013/14	3,100,000	482,783	0.64	1.074	0.69
2014/15	2,250,000	468,483	0.48	1.055	0.51
2015/16	3,525,000	497,031	0.71	1.033	0.73
2016/17	4,000,000	529,113	0.76	1.015	0.77
Total	\$27,369,000	\$4,938,153	\$0.55		\$0.60

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)
2017/18	\$0.58	\$539,050	\$3,123,000	0.93	\$0.54	\$2,900,000
2018/19	0.59	539,050	3,170,000	0.93	0.55	2,943,000
2019/20	0.60	539,050	3,218,000	0.93	0.55	2,988,000

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

(3) was provided by the County.

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

(7) 2017/18 is based on (6) and actuarial judgment.

Other period(s) based on 2017/18 plus the trend in Exhibit WC-HC-Indem-15.

(8) to 2017/18 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.9% 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, 2017

Claim Period (1)	Limited Paid Losses 11/30/17 (2)	Limited Case Reserves 11/30/17 (3)	Limited Reported Incurred Losses 11/30/17 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/17 (5)-(4) (6)	Estimated Outstanding Losses 11/30/17 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/17 (7)X(8) (9)
to 1997/98	\$45,071,186	\$2,794,771	\$47,865,956	\$48,145,433	\$279,477	\$3,074,248	0.95	\$2,921,450
1998/99	2,570,192	254,219	2,824,411	2,861,000	36,589	290,808	0.94	272,255
1999/00	1,772,683	0	1,772,683	1,772,683	0	0	0.92	0
2000/01	1,535,829	0	1,535,829	1,535,829	0	0	0.91	0
2001/02	1,176,100	16,700	1,192,800	1,198,000	5,200	21,900	0.91	19,851
2002/03	2,946,468	70,848	3,017,316	3,043,000	25,684	96,532	0.90	86,711
2003/04	1,815,390	135,199	1,950,589	2,015,000	64,411	199,610	0.89	177,688
2004/05	2,380,997	753,315	3,134,312	3,250,000	115,688	869,003	0.89	773,031
2005/06	1,732,797	10,000	1,742,797	1,749,000	6,203	16,203	0.89	14,373
2006/07	2,086,766	20,000	2,106,766	2,120,000	13,234	33,234	0.89	29,448
2007/08	1,766,944	169,808	1,936,752	2,051,000	114,248	284,056	0.89	254,030
2008/09	1,954,732	120,408	2,075,140	2,144,000	68,860	189,268	0.91	171,549
2009/10	1,814,996	586,283	2,401,279	2,712,000	310,721	897,004	0.93	829,992
2010/11	1,630,895	216,501	1,847,396	1,978,000	130,604	347,105	0.93	323,996
2011/12	1,912,999	421,651	2,334,650	2,555,000	220,350	642,001	0.94	605,256
2012/13	2,255,148	419,396	2,674,545	3,054,000	379,455	798,851	0.94	752,790
2013/14	2,042,092	468,488	2,510,580	3,100,000	589,420	1,057,908	0.94	996,242
2014/15	1,062,926	491,996	1,554,922	2,250,000	695,078	1,187,074	0.94	1,114,910
2015/16	1,329,378	793,340	2,122,718	3,525,000	1,402,282	2,195,622	0.94	2,059,546
2016/17	358,305	1,523,717	1,882,022	4,000,000	2,117,978	3,641,695	0.94	3,405,565
Total	\$79,216,825	\$9,266,639	\$88,483,464	\$95,058,945	\$6,575,482	\$15,842,122		\$14,808,683

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

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

(8) is based on a 1.9% 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, 2017 to November 30, 2018

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Months of Development 11/30/18 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/17 to 11/30/18 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/17 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/18 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/18 (9)X(10) (11)
to 1997/98	240.0	98.5%	252.0	99.0%	20.0% *	\$3,074,248	\$614,850	\$2,459,398	0.95	\$2,338,243
1998/99	228.0	98.4%	240.0	98.5%	6.2% *	290,808	18,158	272,650	0.95	259,099
1999/00	216.0	98.3%	228.0	98.4%	5.9% *	0	0	0	0.94	0
2000/01	204.0	98.1%	216.0	98.3%	10.5% *	0	0	0	0.92	0
2001/02	192.0	97.9%	204.0	98.1%	9.5% *	21,900	2,076	19,824	0.91	18,132
2002/03	180.0	97.7%	192.0	97.9%	8.6% *	96,532	8,341	88,191	0.91	79,938
2003/04	168.0	97.5%	180.0	97.7%	7.9% *	199,610	15,847	183,763	0.90	165,067
2004/05	156.0	97.2%	168.0	97.5%	13.7% *	869,003	118,666	750,337	0.89	667,931
2005/06	144.0	96.8%	156.0	97.2%	12.0% *	16,203	1,940	14,263	0.89	12,688
2006/07	132.0	96.3%	144.0	96.8%	13.0% *	33,234	4,308	28,926	0.89	25,659
2007/08	120.0	95.3%	132.0	96.3%	20.0% *	284,056	56,811	227,245	0.89	201,359
2008/09	108.0	93.7%	120.0	95.3%	20.0% *	189,268	37,854	151,414	0.89	135,409
2009/10	96.0	90.3%	108.0	93.7%	20.0% *	897,004	179,401	717,603	0.91	650,423
2010/11	84.0	86.0%	96.0	90.3%	20.0% *	347,105	69,421	277,684	0.93	256,939
2011/12	72.0	78.2%	84.0	86.0%	20.0% *	642,001	128,400	513,601	0.93	479,407
2012/13	60.0	70.4%	72.0	78.2%	20.0% *	798,851	159,770	639,081	0.94	602,503
2013/14	48.0	60.2%	60.0	70.4%	20.0% *	1,057,908	211,582	846,326	0.94	797,528
2014/15	36.0	48.6%	48.0	60.2%	20.0% *	1,187,074	237,415	949,659	0.94	894,303
2015/16	24.0	32.6%	36.0	48.6%	20.0% *	2,195,622	439,124	1,756,498	0.94	1,649,718
2016/17	12.0	14.8%	24.0	32.6%	20.0% *	3,641,695	728,339	2,913,356	0.94	2,732,797
2017/18	0.0	0.0%	12.0	14.8%	14.8% *	3,123,000	462,564	2,660,436	0.94	2,487,931
Total						\$18,965,122	\$3,494,867	\$15,470,255		\$14,455,074

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

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

(7) to 2016/17 is from Exhibit WC-HC-Indem-11. The amount for 2017/18 is from Exhibit WC-HC-Indem-10.

(10) is based on a 1.9% 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, 2018 to November 30, 2019

Claim Period (1)	Months of Development 11/30/18 (2)	Percent Losses Paid (3)	Months of Development 11/30/19 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/18 to 11/30/19 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/18 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/19 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/19 (9)X(10) (11)
to 1997/98	252.0	99.0%	264.0	99.3%	20.0% *	\$2,459,398	\$491,880	\$1,967,518	0.95	\$1,871,856
1998/99	240.0	98.5%	252.0	99.0%	20.0% *	272,650	54,530	218,120	0.95	207,375
1999/00	228.0	98.4%	240.0	98.5%	6.2% *	0	0	0	0.95	0
2000/01	216.0	98.3%	228.0	98.4%	5.9% *	0	0	0	0.94	0
2001/02	204.0	98.1%	216.0	98.3%	10.5% *	19,824	2,080	17,744	0.92	16,377
2002/03	192.0	97.9%	204.0	98.1%	9.5% *	88,191	8,358	79,833	0.91	73,020
2003/04	180.0	97.7%	192.0	97.9%	8.6% *	183,763	15,879	167,884	0.91	152,174
2004/05	168.0	97.5%	180.0	97.7%	7.9% *	750,337	59,570	690,767	0.90	620,488
2005/06	156.0	97.2%	168.0	97.5%	13.7% *	14,263	1,948	12,315	0.89	10,963
2006/07	144.0	96.8%	156.0	97.2%	12.0% *	28,926	3,463	25,463	0.89	22,651
2007/08	132.0	96.3%	144.0	96.8%	13.0% *	227,245	29,454	197,791	0.89	175,453
2008/09	120.0	95.3%	132.0	96.3%	20.0% *	151,414	30,283	121,131	0.89	107,333
2009/10	108.0	93.7%	120.0	95.3%	20.0% *	717,603	143,521	574,082	0.89	513,398
2010/11	96.0	90.3%	108.0	93.7%	20.0% *	277,684	55,537	222,147	0.91	201,350
2011/12	84.0	86.0%	96.0	90.3%	20.0% *	513,601	102,720	410,881	0.93	380,186
2012/13	72.0	78.2%	84.0	86.0%	20.0% *	639,081	127,816	511,265	0.93	477,226
2013/14	60.0	70.4%	72.0	78.2%	20.0% *	846,326	169,265	677,061	0.94	638,309
2014/15	48.0	60.2%	60.0	70.4%	20.0% *	949,659	189,932	759,727	0.94	715,922
2015/16	36.0	48.6%	48.0	60.2%	20.0% *	1,756,498	351,300	1,405,198	0.94	1,323,289
2016/17	24.0	32.6%	36.0	48.6%	20.0% *	2,913,356	582,671	2,330,685	0.94	2,188,999
2017/18	12.0	14.8%	24.0	32.6%	20.0% *	2,660,436	532,087	2,128,349	0.94	1,996,442
2018/19	0.0	0.0%	12.0	14.8%	14.8% *	3,170,000	469,526	2,700,474	0.94	2,525,373
Total						\$18,640,255	\$3,421,820	\$15,218,435		\$14,218,184

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

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

(7) to 2017/18 is from Exhibit WC-HC-Indem-12, (9). The amount for 2018/19 is from Exhibit WC-HC-Indem-10.

(10) is based on a 1.9% 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, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1997/98	264.0	99.3%	276.0	99.5%	20.0% *	\$1,967,518	\$393,504	\$1,574,014	0.95	\$1,498,953
1998/99	252.0	99.0%	264.0	99.3%	20.0% *	218,120	43,624	174,496	0.95	166,012
1999/00	240.0	98.5%	252.0	99.0%	20.0% *	0	0	0	0.95	0
2000/01	228.0	98.4%	240.0	98.5%	6.2% *	0	0	0	0.95	0
2001/02	216.0	98.3%	228.0	98.4%	5.9% *	17,744	1,042	16,702	0.94	15,636
2002/03	204.0	98.1%	216.0	98.3%	10.5% *	79,833	8,375	71,458	0.92	65,953
2003/04	192.0	97.9%	204.0	98.1%	9.5% *	167,884	15,911	151,973	0.91	139,004
2004/05	180.0	97.7%	192.0	97.9%	8.6% *	690,767	59,689	631,078	0.91	572,024
2005/06	168.0	97.5%	180.0	97.7%	7.9% *	12,315	978	11,337	0.90	10,184
2006/07	156.0	97.2%	168.0	97.5%	13.7% *	25,463	3,477	21,986	0.89	19,571
2007/08	144.0	96.8%	156.0	97.2%	12.0% *	197,791	23,681	174,110	0.89	154,882
2008/09	132.0	96.3%	144.0	96.8%	13.0% *	121,131	15,700	105,431	0.89	93,524
2009/10	120.0	95.3%	132.0	96.3%	20.0% *	574,082	114,816	459,266	0.89	406,951
2010/11	108.0	93.7%	120.0	95.3%	20.0% *	222,147	44,429	177,718	0.89	158,932
2011/12	96.0	90.3%	108.0	93.7%	20.0% *	410,881	82,176	328,705	0.91	297,932
2012/13	84.0	86.0%	96.0	90.3%	20.0% *	511,265	102,253	409,012	0.93	378,456
2013/14	72.0	78.2%	84.0	86.0%	20.0% *	677,061	135,412	541,649	0.93	505,587
2014/15	60.0	70.4%	72.0	78.2%	20.0% *	759,727	151,945	607,782	0.94	572,996
2015/16	48.0	60.2%	60.0	70.4%	20.0% *	1,405,198	281,040	1,124,158	0.94	1,059,341
2016/17	36.0	48.6%	48.0	60.2%	20.0% *	2,330,685	466,137	1,864,548	0.94	1,755,863
2017/18	24.0	32.6%	36.0	48.6%	20.0% *	2,128,349	425,670	1,702,679	0.94	1,599,171
2018/19	12.0	14.8%	24.0	32.6%	20.0% *	2,700,474	540,095	2,160,379	0.94	2,026,487
2019/20	0.0	0.0%	12.0	14.8%	14.8% *	3,218,000	476,635	2,741,365	0.94	2,563,613
Total						\$18,436,435	\$3,386,589	\$15,049,846		\$14,061,072

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

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

(7) to 2018/19 is from Exhibit WC-HC-Indem-13, (9). The amount for 2019/20 is from Exhibit WC-HC-Indem-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit WC-HC-Indem-2.

Loss Rate and Severity Trend

I. Benefit Level Changes

Effective Date (1)	Benefit Level Change (2)	Cumulative Benefit Level Change (3)
01/15/08	1.003	1.003
07/01/08	1.003	1.007
07/15/08	1.002	1.009
01/15/09	1.002	1.010
07/01/09	1.001	1.011
07/15/09	1.002	1.014
01/15/10	1.004	1.017
07/01/10	1.001	1.018
07/15/10	1.002	1.020
06/28/11	0.989	1.009
07/01/11	1.001	1.010
09/01/11	0.983	0.993
01/15/13	1.001	0.994
07/15/13	1.001	0.995
01/15/14	1.001	0.996
01/15/15	1.002	0.998
07/01/15	1.002	1.000
07/15/15	1.002	1.002
01/15/16	1.002	1.004
07/01/16	1.002	1.006
07/15/16	1.002	1.008

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2017/18 = 1.000) (2)	Residual Trend (2017/18 = 1.000) (3)	Retention Index (2017/18 = 1.000) (4)	Loss Rate Trend (2017/18 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2017/18 = 1.000) (6)	Severity Trend (2017/18 = 1.000) (5)X(6) (7)
2007/08	1.002	1.161	1.000	1.163	1.344	1.563
2008/09	0.997	1.143	1.000	1.140	1.305	1.487
2009/10	0.990	1.126	1.000	1.115	1.267	1.413
2010/11	0.996	1.110	1.000	1.106	1.230	1.360
2011/12	1.015	1.093	1.000	1.110	1.194	1.325
2012/13	1.014	1.077	1.000	1.092	1.159	1.266
2013/14	1.012	1.061	1.000	1.074	1.126	1.209
2014/15	1.009	1.046	1.000	1.055	1.093	1.153
2015/16	1.003	1.030	1.000	1.033	1.061	1.096
2016/17	1.000	1.015	1.000	1.015	1.030	1.045
2017/18	1.000	1.000	1.000	1.000	1.000	1.000
2018/19	1.000	0.985	1.000	0.985	0.971	0.957

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 11/30/17 (5)	Unlimited Case Reserves 11/30/17 (6)	Unlimited Reported Incurred Losses 11/30/17 (7)
951084	6/14/1995	to 1997/98	Unlimited	\$166,926	\$1,644,390	\$1,811,316
20050890	5/8/2005	2004/05	Unlimited	603,519	747,467	1,350,987

Amounts are gross of excess insurance.

(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

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	4,796	12	2	5	3	7	4,825		
0.01 - 5,000	4,765	88	110	99	121	96	5,279	5,279	70.8%
5,000 - 10,000	621	9	8	19	10	5	672	5,951	79.8%
10,000 - 25,000	648	12	11	17	12	15	715	6,666	89.4%
25,000 - 50,000	331	8	5	9	14	13	380	7,046	94.5%
50,000 - 100,000	202	6	15	5	11	11	250	7,296	97.9%
100,000 - 250,000	97	6	7	3	5	2	120	7,416	99.5%
250,000 - 500,000	21	2	0	0	0	0	23	7,439	99.8%
500,000 - 750,000	8	0	0	0	0	0	8	7,447	99.9%
750,000 - 1,000,000	4	0	0	0	0	0	4	7,451	100.0%
Over 1,000,000	2	0	0	0	0	0	2	7,453	100.0%
Total	11,495	143	158	157	176	149	12,278	7,453	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (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	4,954,477	58,360	47,100	46,362	63,489	56,704	5,226,491	5,226,491	5.9%
5,000 - 10,000	4,471,483	55,472	60,328	138,927	72,861	33,376	4,832,447	10,058,938	11.4%
10,000 - 25,000	10,145,499	187,844	154,700	286,423	177,464	255,061	11,206,992	21,265,930	24.0%
25,000 - 50,000	11,314,719	292,228	140,914	338,913	494,827	475,082	13,056,682	34,322,612	38.8%
50,000 - 100,000	13,678,762	471,612	960,076	405,785	722,005	781,800	17,020,040	51,342,652	58.0%
100,000 - 250,000	14,724,229	956,753	1,147,462	338,511	592,072	280,000	18,039,028	69,381,680	78.4%
250,000 - 500,000	6,883,654	652,275	0	0	0	0	7,535,929	76,917,609	86.9%
500,000 - 750,000	5,050,964	0	0	0	0	0	5,050,964	81,968,573	92.6%
750,000 - 1,000,000	3,352,589	0	0	0	0	0	3,352,589	85,321,162	96.4%
Over 1,000,000	3,162,302	0	0	0	0	0	3,162,302	88,483,464	100.0%
Total	\$77,738,678	\$2,674,545	\$2,510,580	\$1,554,922	\$2,122,718	\$1,882,022	\$88,483,464	\$88,483,464	

Amounts are gross of excess insurance and other recoveries.

Data was provided by the County.



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

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

Data Summary as of November 30, 2017
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Payroll (000) (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Limited Paid Losses 11/30/17 (8)	Limited Case Reserves 11/30/17 (9)	Limited Reported Incurred Losses 11/30/17 (10)
to 1997/98	See Note	None	240.0	Not Provided	5,406	13	\$10,755,664	\$354,550	\$11,110,214
1998/99	Unlimited	None	228.0	Not Provided	747	2	637,373	40,500	677,874
1999/00	Unlimited	None	216.0	Not Provided	635	0	831,292	0	831,292
2000/01	9,500,000	None	204.0	425,788	625	0	710,937	0	710,937
2001/02	9,500,000	None	192.0	434,846	490	1	620,425	1,000	621,425
2002/03	9,500,000	None	180.0	441,142	514	3	899,025	20,556	919,581
2003/04	Unlimited	None	168.0	453,644	593	4	1,095,832	234,356	1,330,188
2004/05	Unlimited	None	156.0	458,776	518	2	1,251,337	20,830	1,272,167
2005/06	Unlimited	None	144.0	464,619	510	1	763,576	0	763,576
2006/07	Unlimited	None	132.0	448,051	318	4	925,319	0	925,319
2007/08	Unlimited	None	120.0	445,664	274	8	746,248	33,652	779,900
2008/09	Unlimited	None	108.0	501,624	280	9	685,202	35,857	721,058
2009/10	Unlimited	None	96.0	526,535	214	13	708,957	35,270	744,227
2010/11	Unlimited	None	84.0	489,053	202	16	662,445	43,368	705,813
2011/12	Unlimited	None	72.0	515,084	169	14	915,711	75,383	991,093
2012/13	Unlimited	None	60.0	482,783	143	23	855,885	123,287	979,172
2013/14	Unlimited	None	48.0	482,783	158	23	631,112	105,321	736,433
2014/15	Unlimited	None	36.0	468,483	157	35	382,947	153,542	536,489
2015/16	Unlimited	None	24.0	497,031	176	48	443,521	593,117	1,036,638
2016/17	Unlimited	None	12.0	529,113	149	95	97,675	1,302,178	1,399,853
Total					12,278	314	\$24,620,483	\$3,172,767	\$27,793,249

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

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

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

Data was provided by the County.



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

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

Data Summary as of November 30, 2017
Gross Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Payroll (000) (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Gross Unlimited Paid Losses 11/30/17 (8)	Gross Unlimited Case Reserves 11/30/17 (9)	Gross Unlimited Reported Incurred Losses 11/30/17 (10)
to 1997/98	Unlimited	None	240.0	Not Provided	5,406	13	\$10,755,664	\$354,550	\$11,110,214
1998/99	Unlimited	None	228.0	Not Provided	747	2	637,373	40,500	677,874
1999/00	Unlimited	None	216.0	Not Provided	635	0	831,292	0	831,292
2000/01	Unlimited	None	204.0	425,788	625	0	710,937	0	710,937
2001/02	Unlimited	None	192.0	434,846	490	1	620,425	1,000	621,425
2002/03	Unlimited	None	180.0	441,142	514	3	899,025	20,556	919,581
2003/04	Unlimited	None	168.0	453,644	593	4	1,095,832	234,356	1,330,188
2004/05	Unlimited	None	156.0	458,776	518	2	1,251,337	20,830	1,272,167
2005/06	Unlimited	None	144.0	464,619	510	1	763,576	0	763,576
2006/07	Unlimited	None	132.0	448,051	318	4	925,319	0	925,319
2007/08	Unlimited	None	120.0	445,664	274	8	746,248	33,652	779,900
2008/09	Unlimited	None	108.0	501,624	280	9	685,202	35,857	721,058
2009/10	Unlimited	None	96.0	526,535	214	13	708,957	35,270	744,227
2010/11	Unlimited	None	84.0	489,053	202	16	662,445	43,368	705,813
2011/12	Unlimited	None	72.0	515,084	169	14	915,711	75,383	991,093
2012/13	Unlimited	None	60.0	482,783	143	23	855,885	123,287	979,172
2013/14	Unlimited	None	48.0	482,783	158	23	631,112	105,321	736,433
2014/15	Unlimited	None	36.0	468,483	157	35	382,947	153,542	536,489
2015/16	Unlimited	None	24.0	497,031	176	48	443,521	593,117	1,036,638
2016/17	Unlimited	None	12.0	529,113	149	95	97,675	1,302,178	1,399,853
Total					12,278	314	\$24,620,483	\$3,172,767	\$27,793,249

(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	91.9%	99.1%	100.0%
84.0	90.6%	98.6%	99.9%
72.0	89.2%	98.1%	99.8%
60.0	86.4%	97.6%	99.7%
48.0	83.1%	96.2%	99.6%
36.0	76.2%	94.3%	99.3%
24.0	61.0%	80.9%	98.9%
12.0	22.2%	55.8%	96.5%

(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).

(6), (7) and (8) are interpolated, based on (2), (3) and (4), respectively.

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

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

Claim Period	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-UIT
1997/98																				
1998/99																				
1999/00																				
2000/01																				
2001/02																				
2002/03																				
2003/04																				
2004/05																				
2005/06																				
2006/07																				
2007/08																				
2008/09																				
2009/10																				
2010/11																				
2011/12																				
2012/13																				
2013/14																				
2014/15																				
2015/16																				
2016/17																				

II. Limited Paid Loss Development

Claim Period	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-UIT
1997/98																				
1998/99																				
1999/00																				
2000/01																				
2001/02																				
2002/03																				
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2005/06																				
2006/07																				
2007/08																				
2008/09																				
2009/10																				
2010/11																				
2011/12																				
2012/13																				
2013/14																				
2014/15																				
2015/16																				
2016/17																				

Average All
Wtd 3
Last 3
Last 5
x-Hi,low

2.973	1.215	1.094	1.022	1.022	1.022	1.004	1.003	0.992	0.995	0.987	0.984	0.991	0.993	0.985	0.971	0.970	0.963	1.000	0.810	
2.457	1.122	1.105	0.986	0.988	0.985	0.985	0.975	0.959	0.959	0.957	0.944	0.972	0.975	0.967	0.948	0.951	0.899	1.000		
2.583	1.168	1.105	1.006	0.988	0.985	0.975	0.975	0.959	0.965	0.957	0.957	0.971	0.980	0.961	0.950	0.959	0.963	1.000		
3.285	1.285	1.064	1.034	1.033	1.003	1.016	1.016	1.001	1.004	1.002	1.000	1.000	1.000	1.000	1.000	1.000	0.963	1.000	1.001	1.035
2.323	1.319	1.165	1.087	1.057	1.036	1.022	1.014	1.010	1.010	1.008	1.005	1.005	1.003	1.003	1.002	1.002	1.002	1.002	1.001	1.001
2.750	1.250	1.090	1.040	1.033	1.015	1.015	1.010	1.009	1.009	1.006	1.006	1.005	1.004	1.003	1.002	1.001	1.001	1.001	1.001	1.035
4.512	1.641	1.312	1.204	1.158	1.121	1.104	1.088	1.077	1.077	1.068	1.061	1.055	1.050	1.045	1.042	1.040	1.038	1.037	1.036	1.035
22.2%	61.0%	76.2%	83.1%	86.4%	89.2%	90.6%	91.9%	92.8%	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 limited (net of excess insurance).

Data was provided by the County.

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

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

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 1997/98																					
1998/99						1,596	1,710	1,321	1,329	1,329	762	\$14,179	\$14,344	\$13,712	\$13,556	\$13,564	\$13,599	\$13,691	\$13,729	\$11,110	
2000/01						1,596	1,596	1,712	1,027	1,027	1,027	760	761	761	761	761	761	761	761	761	
2002/03						1,787	1,787	1,075	705	705	702	849	849	849	849	849	849	849	849	849	
2003/04				1,811	1,444	1,666	1,075	1,071	1,056	1,056	1,058	1,061	1,078	1,078	1,078	1,078	1,078	1,078	1,078	1,078	
2004/05		1,817	2,002	2,066	824	893	875	1,395	1,054	1,076	1,104	1,430	1,350	1,330	1,330	1,330	1,330	1,330	1,330	1,330	
2005/06		1,023	1,534	1,102	1,159	1,004	977	985	1,033	1,033	877	764	764	764	764	764	764	764	764	764	
2007/08		954	932	1,062	849	800	828	828	872	872	777	925	925	925	925	925	925	925	925	925	
2008/09		768	893	693	720	753	794	721	711	721	711	721	721	721	721	721	721	721	721	721	
2009/10		429	480	690	691	741	775	744	744	744	744	744	744	744	744	744	744	744	744	744	
2010/11		442	676	762	778	787	763	706	706	706	706	706	706	706	706	706	706	706	706	706	
2011/12		367	722	869	1,104	1,004	991	991	991	991	991	991	991	991	991	991	991	991	991	991	
2012/13		385	769	977	969	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	
2013/14		608	1,088	886	736	736	736	736	736	736	736	736	736	736	736	736	736	736	736	736	
2014/15		758	615	536																	
2015/16		1,379	1,037																		
2016/17		1,400																			

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-UIT	
to 1997/98																					
1998/99																					
1999/00																					
2000/01																					
2002/03						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	
2003/04						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	
2004/05				0.987	1.023	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	
2005/06		1.102	1.032	0.691	0.603	0.977	0.983	1.004	1.023	1.004	1.004	1.000	1.000	1.000	1.000	1.000	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	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2007/08		1.164	1.139	0.799	0.942	1.036	1.006	1.053	0.890	1.004	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2008/09		1.120	1.437	1.001	1.072	1.051	1.006	0.890	1.014	1.004	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2009/10		1.528	1.127	1.020	1.012	0.970	0.986	0.960	1.014	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2010/11		1.966	1.203	1.270	0.910	0.987	0.925	0.960	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2011/12		1.996	1.270	0.991	1.011																
2013/14		0.812	0.872																		
2014/15		0.752																			
2015/16																					
2016/17																					
Average All	1.347	1.044	0.957	0.967	0.969	0.981	0.984	0.951	0.952	0.936	1.013	0.995	0.973	0.980	0.970	0.970	0.966	1.001	1.001	1.001	
Wtd 3	0.998	0.971	1.028	0.972	1.001	0.976	0.968	0.967	0.961	0.965	1.047	0.977	0.950	0.967	0.947	0.952	0.966	1.001	1.001	1.001	
Last 3	1.118	0.985	1.031	0.977	1.003	0.976	0.968	0.968	0.966	0.957	1.059	0.951	0.951	0.961	0.949	0.959	0.966	1.001	1.001	1.001	
x-Hi,low	1.523	1.067	1.004	1.023	1.025	1.001	1.004	1.000	1.003	1.001	1.001	1.000	1.000	1.000	0.996	0.996	1.001	1.001	1.001	1.001	
Similar	1.418	1.113	1.049	1.020	1.009	1.002	1.001	1.001	1.002	1.001	1.000	1.001	1.001	1.000	1.001	1.001	1.001	1.001	1.001	1.001	
Previous	1.450	1.165	1.020	1.015	1.005	1.005	1.005	1.005	1.002	1.002	1.002	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Selected	1.450	1.165	1.020	1.015	1.005	1.005	1.005	1.005	1.002	1.002	1.002	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Cumulative	1.791	1.235	1.060	1.040	1.024	1.019	1.014	1.009	1.007	1.005	1.003	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Percent	55.8%	80.9%	94.3%	96.2%	97.6%	98.1%	98.6%	99.1%	99.3%	99.5%	99.7%	99.9%	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 limited (net 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	Historical Reported Claims and Reported Claim Development																					
	Claim Period	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1997/98																						
1998/99																						
1999/00																						
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2012/13																						
2013/14																						
2014/15																						
2015/16																						
2016/17																						

II. Reported Claim Development

II. Reported Claim Development	Reported Claim Development																					
	Claim Period	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 1997/98																						
1998/99																						
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2010/11																						
2011/12																						
2012/13																						
2013/14																						
2014/15																						
2015/16																						
2016/17																						
Average All		1,038	1,020	1,006	1,003	1,004	1,003	1,001	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
Wtd 3		1,050	1,016	1,002	1,000	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
Last 3		1,050	1,016	1,002	1,000	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
Last 5 x-tiltlow		1,037	1,016	1,004	1,001	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
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		1,025	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	1,000
Selected		1,025	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	1,000
Cumulative		1,036	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	1,000
Percent		96.5%	98.9%	98.3%	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%	100.0%

Data was provided by the County.

COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (MEDICAL)
Historical Ratio of Limited Paid Losses and Limited Reported Incurred Losses

Claim Period	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
10/09/08 to 10/07/09																					
1999/00																					
2000/01																					
2001/02																					
2002/03					56.8%	51.2%	55.4%	53.3%	53.5%	54.0%	94.2%	87.9%	88.3%	93.6%	96.9%	97.1%	97.1%	96.9%	96.7%	96.8%	
2003/04					57.6%	60.0%	60.3%	52.2%	55.4%	92.4%	92.4%	94.5%	94.7%	94.7%	94.7%	84.7%	84.7%	84.0%	84.0%	84.0%	
2004/05					57.9%	58.2%	63.3%	59.5%	56.9%	97.0%	100.0%	100.0%	100.0%	100.0%	99.5%	100.0%	100.0%	100.0%	100.0%	100.0%	
2005/06					57.9%	57.3%	63.3%	59.5%	56.9%	97.0%	100.0%	100.0%	100.0%	100.0%	99.5%	100.0%	100.0%	100.0%	100.0%	100.0%	
2006/07					57.9%	57.3%	63.3%	59.5%	56.9%	97.0%	100.0%	100.0%	100.0%	100.0%	99.5%	100.0%	100.0%	100.0%	100.0%	100.0%	
2007/08					57.9%	57.3%	63.3%	59.5%	56.9%	97.0%	100.0%	100.0%	100.0%	100.0%	99.5%	100.0%	100.0%	100.0%	100.0%	100.0%	
2008/09					57.9%	57.3%	63.3%	59.5%	56.9%	97.0%	100.0%	100.0%	100.0%	100.0%	99.5%	100.0%	100.0%	100.0%	100.0%	100.0%	
2009/10					57.9%	57.3%	63.3%	59.5%	56.9%	97.0%	100.0%	100.0%	100.0%	100.0%	99.5%	100.0%	100.0%	100.0%	100.0%	100.0%	
2010/11					57.9%	57.3%	63.3%	59.5%	56.9%	97.0%	100.0%	100.0%	100.0%	100.0%	99.5%	100.0%	100.0%	100.0%	100.0%	100.0%	
2011/12					57.9%	57.3%	63.3%	59.5%	56.9%	97.0%	100.0%	100.0%	100.0%	100.0%	99.5%	100.0%	100.0%	100.0%	100.0%	100.0%	
2012/13					57.9%	57.3%	63.3%	59.5%	56.9%	97.0%	100.0%	100.0%	100.0%	100.0%	99.5%	100.0%	100.0%	100.0%	100.0%	100.0%	
2013/14					57.9%	57.3%	63.3%	59.5%	56.9%	97.0%	100.0%	100.0%	100.0%	100.0%	99.5%	100.0%	100.0%	100.0%	100.0%	100.0%	
2014/15					57.9%	57.3%	63.3%	59.5%	56.9%	97.0%	100.0%	100.0%	100.0%	100.0%	99.5%	100.0%	100.0%	100.0%	100.0%	100.0%	
2015/16					57.9%	57.3%	63.3%	59.5%	56.9%	97.0%	100.0%	100.0%	100.0%	100.0%	99.5%	100.0%	100.0%	100.0%	100.0%	100.0%	
2016/17					57.9%	57.3%	63.3%	59.5%	56.9%	97.0%	100.0%	100.0%	100.0%	100.0%	99.5%	100.0%	100.0%	100.0%	100.0%	100.0%	
Average																					
All	30.5%	62.9%	73.8%	82.8%	84.8%	86.3%	86.9%	87.1%	90.3%	93.8%	98.4%	95.3%	94.4%	95.5%	98.1%	98.3%	97.9%	97.0%	95.4%	96.8%	
Last 3	16.2%	53.3%	73.7%	85.3%	89.9%	91.5%	93.7%	96.4%	97.0%	98.6%	99.8%	91.5%	90.8%	93.4%	99.3%	99.9%	98.2%	97.0%	95.4%	96.8%	
Last 5	21.4%	63.1%	81.0%	89.6%	92.1%	94.8%	97.0%	98.0%	98.0%	99.6%	99.8%	99.3%	98.9%	99.3%	99.1%	99.0%	98.2%	97.0%	95.4%	96.8%	
x-high																					
Implicit	39.7%	75.3%	80.6%	86.3%	88.5%	90.9%	91.8%	92.8%	93.5%	94.1%	94.5%	94.9%	95.3%	95.7%	95.9%	96.1%	96.3%	96.4%	96.5%	96.6%	



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

Exhibit WC-HC-Med-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/17 (2)	Limited Paid Losses 11/30/17 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1997/98	240.0	\$10,755,664	96.6%	\$11,132,113
1998/99	228.0	637,373	96.5%	660,341
1999/00	216.0	831,292	96.4%	862,109
2000/01	204.0	710,937	96.3%	738,029
2001/02	192.0	620,425	96.1%	645,356
2002/03	180.0	899,025	95.9%	937,022
2003/04	168.0	1,095,832	95.7%	1,145,574
2004/05	156.0	1,251,337	95.3%	1,313,370
2005/06	144.0	763,576	94.8%	805,435
2006/07	132.0	925,319	94.2%	981,902
2007/08	120.0	746,248	93.7%	796,633
2008/09	108.0	685,202	92.8%	738,048
2009/10	96.0	708,957	91.9%	771,271
2010/11	84.0	662,445	90.6%	731,481
2011/12	72.0	915,711	89.2%	1,026,308
2012/13	60.0	855,885	86.4%	990,912
2013/14	48.0	631,112	83.1%	759,905
2014/15	36.0	382,947	76.2%	502,595
2015/16	24.0	443,521	61.0%	727,619
2016/17	12.0	97,675	22.2%	440,663
Total		\$24,620,483		\$26,706,684

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

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

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/17 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1997/98	240.0	\$11,110,214	100.0%	\$11,110,214
1998/99	228.0	677,874	100.0%	677,874
1999/00	216.0	831,292	100.0%	831,292
2000/01	204.0	710,937	100.0%	710,937
2001/02	192.0	621,425	100.0%	621,425
2002/03	180.0	919,581	100.0%	919,581
2003/04	168.0	1,330,188	100.0%	1,330,188
2004/05	156.0	1,272,167	100.0%	1,272,167
2005/06	144.0	763,576	99.9%	764,339
2006/07	132.0	925,319	99.7%	928,097
2007/08	120.0	779,900	99.5%	783,806
2008/09	108.0	721,058	99.3%	726,119
2009/10	96.0	744,227	99.1%	750,949
2010/11	84.0	705,813	98.6%	715,749
2011/12	72.0	991,093	98.1%	1,010,070
2012/13	60.0	979,172	97.6%	1,002,911
2013/14	48.0	736,433	96.2%	765,601
2014/15	36.0	536,489	94.3%	568,893
2015/16	24.0	1,036,638	80.9%	1,280,627
2016/17	12.0	1,399,853	55.8%	2,507,527
Total		\$27,793,249		\$29,278,364

(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 11/30/17 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/17 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/17 (6)	Limited Case Reserves 11/30/17 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1997/98	240.0	96.6%	100.0%	100.0%	\$10,755,664	\$354,550	\$11,110,214
1998/99	228.0	96.5%	100.0%	100.0%	637,373	40,500	677,874
1999/00	216.0	96.4%	100.0%	100.0%	831,292	0	831,292
2000/01	204.0	96.3%	100.0%	100.0%	710,937	0	710,937
2001/02	192.0	96.1%	100.0%	100.0%	620,425	1,000	621,425
2002/03	180.0	95.9%	100.0%	100.0%	899,025	20,556	919,581
2003/04	168.0	95.7%	100.0%	100.0%	1,095,832	234,356	1,330,188
2004/05	156.0	95.3%	100.0%	100.0%	1,251,337	20,830	1,272,167
2005/06	144.0	94.8%	99.9%	98.1%	763,576	0	763,576
2006/07	132.0	94.2%	99.7%	94.8%	925,319	0	925,319
2007/08	120.0	93.7%	99.5%	92.1%	746,248	33,652	782,778
2008/09	108.0	92.8%	99.3%	90.3%	685,202	35,857	724,925
2009/10	96.0	91.9%	99.1%	88.9%	708,957	35,270	748,622
2010/11	84.0	90.6%	98.6%	85.3%	662,445	43,368	713,292
2011/12	72.0	89.2%	98.1%	82.6%	915,711	75,383	1,007,011
2012/13	60.0	86.4%	97.6%	82.6%	855,885	123,287	1,005,089
2013/14	48.0	83.1%	96.2%	77.5%	631,112	105,321	766,972
2014/15	36.0	76.2%	94.3%	76.1%	382,947	153,542	584,781
2015/16	24.0	61.0%	80.9%	51.2%	443,521	593,117	1,601,859
2016/17	12.0	22.2%	55.8%	43.2%	97,675	1,302,178	3,108,750
Total					\$24,620,483	\$3,172,767	\$30,206,651

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

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

Preliminary Projected Ultimate Limited Losses to 2016/17

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 1997/98	\$11,132,113	\$11,110,214	\$11,110,214	\$11,145,669
1998/99	660,341	677,874	677,874	681,924
1999/00	862,109	831,292	831,292	831,292
2000/01	738,029	710,937	710,937	710,937
2001/02	645,356	621,425	621,425	621,525
2002/03	937,022	919,581	919,581	921,637
2003/04	1,145,574	1,330,188	1,330,188	1,353,624
2004/05	1,313,370	1,272,167	1,272,167	1,274,250
2005/06	805,435	764,339	763,576	763,576
2006/07	981,902	928,097	925,319	925,319
2007/08	796,633	783,806	782,778	783,266
2008/09	738,048	726,119	724,925	724,925
2009/10	771,271	750,949	748,622	748,854
2010/11	731,481	715,749	713,292	713,784
2011/12	1,026,308	1,010,070	1,007,011	1,007,929
2012/13	990,912	1,002,911	1,005,089	1,004,218
2013/14	759,905	765,601	766,972	765,717
2014/15	502,595	568,893	584,781	561,988
2015/16	727,619	1,280,627	1,601,859	1,298,518
2016/17	440,663	2,507,527	3,108,750	2,334,644
Total	\$26,706,684	\$29,278,364	\$30,206,651	\$29,173,593

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

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

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

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



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

Exhibit WC-HC-Med-7

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Payroll (000) (3)	Limited Loss Rate per \$100 of Payroll (2)/(3)/10 (4)	Loss Rate Trend (2017/18 = 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)
2007/08	\$783,266	\$445,664	\$0.18	1.425	\$0.25	\$0.17
2008/09	724,925	501,624	0.14	1.284	0.19	0.18
2009/10	748,854	526,535	0.14	1.231	0.18	0.19
2010/11	713,784	489,053	0.15	1.213	0.18	0.20
2011/12	1,007,929	515,084	0.20	1.298	0.25	0.18
2012/13	1,004,218	482,783	0.21	1.243	0.26	0.19
2013/14	765,717	482,783	0.16	1.186	0.19	0.20
2014/15	561,988	468,483	0.12	1.129	0.14	0.21
2015/16	1,298,518	497,031	0.26	1.082	0.28	0.22
2016/17	2,334,644	529,113	0.44	1.040	0.46	0.23

(7) Projected 2017/18 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 11/30/17 (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)
2012/13	\$855,885	86.4%	\$0.19	\$482,783	\$125,177	\$981,063
2013/14	631,112	83.1%	0.20	482,783	163,232	794,344
2014/15	382,947	76.2%	0.21	468,483	233,659	616,606
2015/16	443,521	61.0%	0.22	497,031	424,363	867,884
2016/17	97,675	22.2%	0.23	529,113	936,814	1,034,489

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/17 (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)
2012/13	\$979,172	97.6%	\$0.19	\$482,783	\$21,744	\$1,000,916
2013/14	736,433	96.2%	0.20	482,783	36,692	773,125
2014/15	536,489	94.3%	0.21	468,483	55,906	592,395
2015/16	1,036,638	80.9%	0.22	497,031	207,071	1,243,710
2016/17	1,399,853	55.8%	0.23	529,113	531,677	1,931,530

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 11/30/17 (2)	Reported Claims 11/30/17 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2007/08	120.0	274	100.0%	274	\$445,664	0.61
2008/09	108.0	280	100.0%	280	501,624	0.56
2009/10	96.0	214	100.0%	214	526,535	0.41
2010/11	84.0	202	99.9%	202	489,053	0.41
2011/12	72.0	169	99.8%	169	515,084	0.33
2012/13	60.0	143	99.7%	143	482,783	0.30
2013/14	48.0	158	99.6%	159	482,783	0.33
2014/15	36.0	157	99.3%	158	468,483	0.34
2015/16	24.0	176	98.9%	178	497,031	0.36
2016/17	12.0	149	96.5%	154	529,113	0.29

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2017/18 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2017/18 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2007/08	\$783,266	274	\$2,859	1.915	\$5,475	\$3,933	\$1,077,695
2008/09	724,925	280	2,589	1.675	4,337	4,497	1,259,294
2009/10	748,854	214	3,499	1.559	5,456	4,831	1,033,916
2010/11	713,784	202	3,534	1.492	5,272	5,049	1,019,984
2011/12	1,007,929	169	5,964	1.550	9,242	4,862	821,595
2012/13	1,004,218	143	7,023	1.441	10,122	5,227	747,400
2013/14	765,717	159	4,816	1.335	6,428	5,644	897,390
2014/15	561,988	158	3,557	1.234	4,389	6,105	964,630
2015/16	1,298,518	178	7,295	1.148	8,373	6,563	1,168,288
2016/17	2,334,644	154	15,160	1.071	16,239	7,033	1,083,006

(7) Projected 2017/18 average claim severity

\$7,533

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 2016/17

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 1997/98	\$11,132,113	\$11,110,214	\$11,110,214				\$11,204,893	\$11,146,000
1998/99	660,341	677,874	677,874				681,924	682,000
1999/00	862,109	831,292	831,292				831,292	831,292
2000/01	738,029	710,937	710,937				710,937	710,937
2001/02	645,356	621,425	621,425				620,425	622,000
2002/03	937,022	919,581	919,581				921,087	922,000
2003/04	1,145,574	1,330,188	1,330,188				1,362,448	1,354,000
2004/05	1,313,370	1,272,167	1,272,167				1,274,428	1,274,250
2005/06	805,435	764,339	763,576				763,576	763,576
2006/07	981,902	928,097	925,319				925,319	925,319
2007/08	796,633	783,806	782,778				780,000	783,266
2008/09	738,048	726,119	724,925				720,000	725,000
2009/10	771,271	750,949	748,622				790,000	749,000
2010/11	731,481	715,749	713,292				780,000	714,000
2011/12	1,026,308	1,010,070	1,007,011				1,030,000	1,008,000
2012/13	990,912	1,002,911	1,005,089	981,063	1,000,916	747,400	1,010,000	1,004,000
2013/14	759,905	765,601	766,972	794,344	773,125	897,390	945,000	766,000
2014/15	502,595	568,893	584,781	616,606	592,395	964,630	850,000	600,000
2015/16	727,619	1,280,627	1,601,859	867,884	1,243,710	1,168,288	2,150,000	1,250,000
2016/17	440,663	2,507,527	3,108,750	1,034,489	1,931,530	1,083,006	1,290,000	1,800,000
Total	\$26,706,684	\$29,278,364	\$30,206,651				\$29,641,327	\$28,630,638
2012/13 - 2016/17	3,421,694	6,125,558	7,067,452	4,294,385	5,541,675	4,860,714	6,245,000	5,420,000
to 2011/12	23,284,990	23,152,806	23,139,199				23,396,327	23,210,638
						Change		
						All years		-\$1,010,689
						2012/13 - 2016/17		-825,000
						to 2011/12		-185,689

(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.



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

Exhibit WC-HC-Med-10

Projected Ultimate Limited Losses for 2017/18 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 (2017/18 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2007/08	\$783,266	\$445,664	\$0.18	1.425	\$0.25
2008/09	725,000	501,624	0.14	1.284	0.19
2009/10	749,000	526,535	0.14	1.231	0.18
2010/11	714,000	489,053	0.15	1.213	0.18
2011/12	1,008,000	515,084	0.20	1.298	0.25
2012/13	1,004,000	482,783	0.21	1.243	0.26
2013/14	766,000	482,783	0.16	1.186	0.19
2014/15	600,000	468,483	0.13	1.129	0.14
2015/16	1,250,000	497,031	0.25	1.082	0.27
2016/17	1,800,000	529,113	0.34	1.040	0.35
Total	\$9,399,266	\$4,938,153	\$0.19		\$0.23

Claim Period (1)	Projected Limited Loss Rate per \$100 of Payroll (7)	Projected Payroll (000) (8)	Projected Ultimate Limited Losses (7)X(8)X10 (9)	Present Value Factor (10)	Present Value of Projected Limited Loss Rate per \$100 of Payroll (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11)X10 (12)
2017/18	\$0.23	\$539,050	\$1,218,000	0.95	\$0.21	\$1,152,000
2018/19	0.23	539,050	1,267,000	0.95	0.22	1,198,000
2019/20	0.24	539,050	1,317,000	0.95	0.23	1,246,000

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

(3) was provided by the County.

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

(7) 2017/18 is based on (6) and actuarial judgment.
Other period(s) based on 2017/18 plus the trend in Exhibit WC-HC-Med-15.

(8) to 2017/18 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.9% 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, 2017

Claim Period (1)	Limited Paid Losses 11/30/17 (2)	Limited Case Reserves 11/30/17 (3)	Limited Reported Incurred Losses 11/30/17 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/17 (5)-(4) (6)	Estimated Outstanding Losses 11/30/17 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/17 (7)X(8) (9)
to 1997/98	\$10,755,664	\$354,550	\$11,110,214	\$11,146,000	\$35,786	\$390,336	0.95	\$370,935
1998/99	637,373	40,500	677,874	682,000	4,126	44,626	0.93	41,689
1999/00	831,292	0	831,292	831,292	0	0	0.92	0
2000/01	710,937	0	710,937	710,937	0	0	0.90	0
2001/02	620,425	1,000	621,425	622,000	575	1,575	0.89	1,405
2002/03	899,025	20,556	919,581	922,000	2,419	22,975	0.88	20,243
2003/04	1,095,832	234,356	1,330,188	1,354,000	23,812	258,168	0.87	225,373
2004/05	1,251,337	20,830	1,272,167	1,274,250	2,083	22,913	0.87	19,877
2005/06	763,576	0	763,576	763,576	0	0	0.86	0
2006/07	925,319	0	925,319	925,319	0	0	0.86	0
2007/08	746,248	33,652	779,900	783,266	3,365	37,017	0.86	31,787
2008/09	685,202	35,857	721,058	725,000	3,942	39,799	0.86	34,226
2009/10	708,957	35,270	744,227	749,000	4,773	40,043	0.86	34,462
2010/11	662,445	43,368	705,813	714,000	8,187	51,555	0.87	44,626
2011/12	915,711	75,383	991,093	1,008,000	16,907	92,290	0.87	80,015
2012/13	855,885	123,287	979,172	1,004,000	24,828	148,115	0.88	130,352
2013/14	631,112	105,321	736,433	766,000	29,567	134,888	0.89	119,855
2014/15	382,947	153,542	536,489	600,000	63,511	217,053	0.91	196,685
2015/16	443,521	593,117	1,036,638	1,250,000	213,362	806,479	0.93	749,080
2016/17	97,675	1,302,178	1,399,853	1,800,000	400,147	1,702,325	0.95	1,618,811
Total	\$24,620,483	\$3,172,767	\$27,793,249	\$28,630,638	\$837,390	\$4,010,157		\$3,719,421

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

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

(8) is based on a 1.9% interest rate and the payout pattern in Exhibit WC-HC-Med-2.

Projected Losses Paid December 1, 2017 to November 30, 2018

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Months of Development 11/30/18 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/17 to 11/30/18 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/17 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/18 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/18 (9)X(10) (11)
to 1997/98	240.0	96.6%	252.0	97.6%	30.0%	\$390,336	\$117,101	\$273,235	0.95	\$259,775
1998/99	228.0	96.5%	240.0	96.6%	2.8%	44,626	1,238	43,388	0.95	41,232
1999/00	216.0	96.4%	228.0	96.5%	2.7%	0	0	0	0.93	0
2000/01	204.0	96.3%	216.0	96.4%	2.6%	0	0	0	0.92	0
2001/02	192.0	96.1%	204.0	96.3%	5.0%	1,575	78	1,497	0.90	1,353
2002/03	180.0	95.9%	192.0	96.1%	4.7%	22,975	1,087	21,888	0.89	19,530
2003/04	168.0	95.7%	180.0	95.9%	6.6%	258,168	17,063	241,105	0.88	212,430
2004/05	156.0	95.3%	168.0	95.7%	8.1%	22,913	1,849	21,064	0.87	18,388
2005/06	144.0	94.8%	156.0	95.3%	9.1%	0	0	0	0.87	0
2006/07	132.0	94.2%	144.0	94.8%	9.8%	0	0	0	0.86	0
2007/08	120.0	93.7%	132.0	94.2%	8.9%	37,017	3,290	33,727	0.86	29,070
2008/09	108.0	92.8%	120.0	93.7%	11.7%	39,799	4,644	35,155	0.86	30,188
2009/10	96.0	91.9%	108.0	92.8%	11.4%	40,043	4,556	35,487	0.86	30,518
2010/11	84.0	90.6%	96.0	91.9%	14.4%	51,555	7,421	44,134	0.86	37,983
2011/12	72.0	89.2%	84.0	90.6%	12.4%	92,290	11,462	80,828	0.87	69,965
2012/13	60.0	86.4%	72.0	89.2%	20.9%	148,115	30,982	117,133	0.87	101,553
2013/14	48.0	83.1%	60.0	86.4%	19.6%	134,888	26,439	108,449	0.88	95,443
2014/15	36.0	76.2%	48.0	83.1%	28.8%	217,053	62,523	154,530	0.89	137,307
2015/16	24.0	61.0%	36.0	76.2%	39.0%	806,479	314,760	491,719	0.91	445,576
2016/17	12.0	22.2%	24.0	61.0%	49.8%	1,702,325	848,372	853,953	0.93	793,175
2017/18	0.0	0.0%	12.0	22.2%	22.2%	1,218,000	269,976	948,024	0.95	901,515
Total						\$5,228,157	\$1,722,841	\$3,505,316		\$3,225,001

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

(7) to 2016/17 is from Exhibit WC-HC-Med-11. The amount for 2017/18 is from Exhibit WC-HC-Med-10.

(10) is based on a 1.9% 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, 2018 to November 30, 2019

Claim Period (1)	Months of Development 11/30/18 (2)	Percent Losses Paid (3)	Months of Development 11/30/19 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/18 to 11/30/19 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/18 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/19 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/19 (9)X(10) (11)
to 1997/98	252.0	97.6%	264.0	98.3%	30.0%	\$273,235	\$81,970	\$191,265	0.95	\$181,966
1998/99	240.0	96.6%	252.0	97.6%	30.0%	43,388	13,016	30,372	0.95	28,876
1999/00	228.0	96.5%	240.0	96.6%	2.8%	0	0	0	0.95	0
2000/01	216.0	96.4%	228.0	96.5%	2.7%	0	0	0	0.93	0
2001/02	204.0	96.3%	216.0	96.4%	2.6%	1,497	39	1,458	0.92	1,340
2002/03	192.0	96.1%	204.0	96.3%	5.0%	21,888	1,089	20,799	0.90	18,802
2003/04	180.0	95.9%	192.0	96.1%	4.7%	241,105	11,409	229,696	0.89	204,950
2004/05	168.0	95.7%	180.0	95.9%	6.6%	21,064	1,392	19,672	0.88	17,332
2005/06	156.0	95.3%	168.0	95.7%	8.1%	0	0	0	0.87	0
2006/07	144.0	94.8%	156.0	95.3%	9.1%	0	0	0	0.87	0
2007/08	132.0	94.2%	144.0	94.8%	9.8%	33,727	3,309	30,418	0.86	26,282
2008/09	120.0	93.7%	132.0	94.2%	8.9%	35,155	3,124	32,031	0.86	27,608
2009/10	108.0	92.8%	120.0	93.7%	11.7%	35,487	4,141	31,346	0.86	26,917
2010/11	96.0	91.9%	108.0	92.8%	11.4%	44,134	5,021	39,113	0.86	33,636
2011/12	84.0	90.6%	96.0	91.9%	14.4%	80,828	11,634	69,194	0.86	59,550
2012/13	72.0	89.2%	84.0	90.6%	12.4%	117,133	14,547	102,586	0.87	88,798
2013/14	60.0	86.4%	72.0	89.2%	20.9%	108,449	22,685	85,764	0.87	74,357
2014/15	48.0	83.1%	60.0	86.4%	19.6%	154,530	30,289	124,241	0.88	109,341
2015/16	36.0	76.2%	48.0	83.1%	28.8%	491,719	141,642	350,077	0.89	311,061
2016/17	24.0	61.0%	36.0	76.2%	39.0%	853,953	333,289	520,664	0.91	471,805
2017/18	12.0	22.2%	24.0	61.0%	49.8%	948,024	472,458	475,566	0.93	441,719
2018/19	0.0	0.0%	12.0	22.2%	22.2%	1,267,000	280,837	986,163	0.95	937,783
Total						\$4,772,316	\$1,431,891	\$3,340,425		\$3,062,123

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

(7) to 2017/18 is from Exhibit WC-HC-Med-12, (9). The amount for 2018/19 is from Exhibit WC-HC-Med-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit WC-HC-Med-2.

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

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1997/98	264.0	98.3%	276.0	98.8%	30.0%	\$191,265	\$57,379	\$133,886	0.95	\$127,501
1998/99	252.0	97.6%	264.0	98.3%	30.0%	30,372	9,112	21,260	0.95	20,226
1999/00	240.0	96.6%	252.0	97.6%	30.0%	0	0	0	0.95	0
2000/01	228.0	96.5%	240.0	96.6%	2.8%	0	0	0	0.95	0
2001/02	216.0	96.4%	228.0	96.5%	2.7%	1,458	39	1,419	0.93	1,326
2002/03	204.0	96.3%	216.0	96.4%	2.6%	20,799	546	20,253	0.92	18,608
2003/04	192.0	96.1%	204.0	96.3%	5.0%	229,696	11,432	218,264	0.90	197,304
2004/05	180.0	95.9%	192.0	96.1%	4.7%	19,672	931	18,741	0.89	16,722
2005/06	168.0	95.7%	180.0	95.9%	6.6%	0	0	0	0.88	0
2006/07	156.0	95.3%	168.0	95.7%	8.1%	0	0	0	0.87	0
2007/08	144.0	94.8%	156.0	95.3%	9.1%	30,418	2,774	27,644	0.87	23,981
2008/09	132.0	94.2%	144.0	94.8%	9.8%	32,031	3,143	28,888	0.86	24,960
2009/10	120.0	93.7%	132.0	94.2%	8.9%	31,346	2,786	28,560	0.86	24,617
2010/11	108.0	92.8%	120.0	93.7%	11.7%	39,113	4,564	34,549	0.86	29,668
2011/12	96.0	91.9%	108.0	92.8%	11.4%	69,194	7,872	61,322	0.86	52,735
2012/13	84.0	90.6%	96.0	91.9%	14.4%	102,586	14,766	87,820	0.86	75,580
2013/14	72.0	89.2%	84.0	90.6%	12.4%	85,764	10,652	75,112	0.87	65,017
2014/15	60.0	86.4%	72.0	89.2%	20.9%	124,241	25,988	98,253	0.87	85,185
2015/16	48.0	83.1%	60.0	86.4%	19.6%	350,077	68,618	281,459	0.88	247,704
2016/17	36.0	76.2%	48.0	83.1%	28.8%	520,664	149,980	370,684	0.89	329,371
2017/18	24.0	61.0%	36.0	76.2%	39.0%	475,566	185,608	289,958	0.91	262,748
2018/19	12.0	22.2%	24.0	61.0%	49.8%	986,163	491,465	494,698	0.93	459,489
2019/20	0.0	0.0%	12.0	22.2%	22.2%	1,317,000	291,920	1,025,080	0.95	974,791
Total						\$4,657,425	\$1,339,575	\$3,317,850		\$3,037,533

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

(7) to 2018/19 is from Exhibit WC-HC-Med-13, (9). The amount for 2019/20 is from Exhibit WC-HC-Med-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit WC-HC-Med-2.

Loss Rate and Severity Trend

I. Benefit Level Changes

Effective Date (1)	Benefit Level Change (2)	Cumulative Benefit Level Change (3)
01/01/08	1.018	1.018
01/01/09	1.029	1.048
02/01/09	1.048	1.098
01/01/10	0.992	1.089
01/01/11	1.015	1.105
09/01/11	0.853	0.943
01/01/12	1.015	0.957
11/20/12	0.994	0.951
01/01/13	1.009	0.960
01/01/14	1.008	0.968
01/01/15	1.010	0.977
01/01/16	1.003	0.980

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2017/18 = 1.000) (2)	Residual Trend (2017/18 = 1.000) (3)	Retention Index (2017/18 = 1.000) (4)	Loss Rate Trend (2017/18 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2017/18 = 1.000) (6)	Severity Trend (2017/18 = 1.000) (5)X(6) (7)
2007/08	0.963	1.480	1.000	1.425	1.344	1.915
2008/09	0.902	1.423	1.000	1.284	1.305	1.675
2009/10	0.899	1.369	1.000	1.231	1.267	1.559
2010/11	0.922	1.316	1.000	1.213	1.230	1.492
2011/12	1.026	1.265	1.000	1.298	1.194	1.550
2012/13	1.022	1.217	1.000	1.243	1.159	1.441
2013/14	1.014	1.170	1.000	1.186	1.126	1.335
2014/15	1.004	1.125	1.000	1.129	1.093	1.234
2015/16	1.000	1.082	1.000	1.082	1.061	1.148
2016/17	1.000	1.040	1.000	1.040	1.030	1.071
2017/18	1.000	1.000	1.000	1.000	1.000	1.000
2018/19	1.000	0.962	1.000	0.962	0.971	0.934

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 11/30/17 (5)	Unlimited Case Reserves 11/30/17 (6)	Unlimited Reported Incurred Losses 11/30/17 (7)
894134	7/23/1991	to 1997/98	Unlimited	\$1,118,965	\$81,036	\$1,200,000

Amounts are gross of excess insurance.

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

Size of Loss Distribution

I. Reported Claim Count

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	7,232	83	106	95	92	49	7,657		
0.01 - 5,000	3,501	37	24	37	52	65	3,716	3,716	80.4%
5,000 - 10,000	291	3	5	8	9	8	324	4,040	87.4%
10,000 - 25,000	287	9	13	11	6	10	336	4,376	94.7%
25,000 - 50,000	112	5	9	4	13	9	152	4,528	98.0%
50,000 - 100,000	49	5	0	2	4	8	68	4,596	99.5%
100,000 - 250,000	17	1	1	0	0	0	19	4,615	99.9%
250,000 - 500,000	3	0	0	0	0	0	3	4,618	99.9%
500,000 - 750,000	2	0	0	0	0	0	2	4,620	100.0%
750,000 - 1,000,000	0	0	0	0	0	0	0	4,620	100.0%
Over 1,000,000	1	0	0	0	0	0	1	4,621	100.0%
Total	11,495	143	158	157	176	149	12,278	4,621	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (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	3,464,534	35,505	24,724	68,771	83,131	130,563	3,807,227	3,807,227	13.7%
5,000 - 10,000	2,092,095	26,321	35,813	52,154	72,937	62,289	2,341,609	6,148,836	22.1%
10,000 - 25,000	4,560,473	149,196	212,500	168,668	128,860	192,000	5,411,697	11,560,534	41.6%
25,000 - 50,000	3,916,841	175,352	313,396	126,469	478,710	375,000	5,385,768	16,946,301	61.0%
50,000 - 100,000	3,295,204	357,798	0	120,428	273,000	640,000	4,686,431	21,632,732	77.8%
100,000 - 250,000	2,313,726	235,000	150,000	0	0	0	2,698,726	24,331,458	87.5%
250,000 - 500,000	1,123,840	0	0	0	0	0	1,123,840	25,455,297	91.6%
500,000 - 750,000	1,137,952	0	0	0	0	0	1,137,952	26,593,249	95.7%
750,000 - 1,000,000	0	0	0	0	0	0	0	26,593,249	95.7%
Over 1,000,000	1,200,000	0	0	0	0	0	1,200,000	27,793,249	100.0%
Total	\$23,104,664	\$979,172	\$736,433	\$536,489	\$1,036,638	\$1,399,853	\$27,793,249	\$27,793,249	

Amounts are gross of excess insurance and other recoveries.

Data was provided by the County.

Data Summary as of November 30, 2017
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Limited Paid Losses 11/30/17 (8)	Limited Case Reserves 11/30/17 (9)	Limited Reported Incurred Losses 11/30/17 (10)
to 1997/98	See Note	None	240.0	Not Provided	10	0	\$8,762,000	\$0	\$8,762,000
1998/99	Unlimited	None	228.0	Not Provided	3	0	50,000	0	50,000
1999/00	Unlimited	None	216.0	Not Provided	3	0	2,250,000	0	2,250,000
2000/01	10,000,000	None	204.0	Not Provided	9	0	950,000	0	950,000
2001/02	15,000,000	None	192.0	Not Provided	16	0	1,000,000	0	1,000,000
2002/03	20,000,000	None	180.0	Not Provided	10	0	19,000	0	19,000
2003/04	20,000,000	None	168.0	792	18	0	2,958,500	0	2,958,500
2004/05	20,000,000	None	156.0	754	16	0	750	0	750
2005/06	20,000,000	None	144.0	737	18	0	1,000,000	0	1,000,000
2006/07	20,000,000	None	132.0	616	13	0	2,500	0	2,500
2007/08	20,000,000	None	120.0	Not Provided	8	0	1,000,000	0	1,000,000
2008/09	20,000,000	None	108.0	Not Provided	1	0	0	0	0
2009/10	40,000,000	None	96.0	Not Provided	4	0	1,310,000	0	1,310,000
2010/11	40,000,000	None	84.0	Not Provided	1	0	3,000	0	3,000
2011/12	40,000,000	None	72.0	936	3	0	10,000	0	10,000
2012/13	30,000,000	None	60.0	869	7	0	0	0	0
2013/14	30,000,000	None	48.0	869	0	0	0	0	0
2014/15	25,000,000	None	36.0	885	4	2	5,000	3,050,000	3,055,000
2015/16	25,000,000	None	24.0	970	1	1	0	1,500,000	1,500,000
2016/17	25,000,000	None	12.0	972	0	0	0	0	0
Total					145	3	\$19,320,750	\$4,550,000	\$23,870,750

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

Effective Date	Retention
12/01/75	Unlimited
12/01/00	10,000,000
12/01/01	15,000,000
12/01/02	20,000,000
03/01/10	40,000,000
03/01/13	30,000,000
07/01/15	25,000,000

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

Data was provided by the County.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Data Summary as of November 30, 2017
 Gross Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Gross Unlimited Paid Losses 11/30/17 (8)	Gross Unlimited Case Reserves 11/30/17 (9)	Gross Unlimited Reported Incurred Losses 11/30/17 (10)
to 1997/98	Unlimited	None	240.0	Not Provided	10	0	\$8,762,000	\$0	\$8,762,000
1998/99	Unlimited	None	228.0	Not Provided	3	0	50,000	0	50,000
1999/00	Unlimited	None	216.0	Not Provided	3	0	2,250,000	0	2,250,000
2000/01	Unlimited	None	204.0	Not Provided	9	0	950,000	0	950,000
2001/02	Unlimited	None	192.0	Not Provided	16	0	1,000,000	0	1,000,000
2002/03	Unlimited	None	180.0	Not Provided	10	0	19,000	0	19,000
2003/04	Unlimited	None	168.0	792	18	0	2,958,500	0	2,958,500
2004/05	Unlimited	None	156.0	754	16	0	750	0	750
2005/06	Unlimited	None	144.0	737	18	0	1,000,000	0	1,000,000
2006/07	Unlimited	None	132.0	616	13	0	2,500	0	2,500
2007/08	Unlimited	None	120.0	Not Provided	8	0	1,000,000	0	1,000,000
2008/09	Unlimited	None	108.0	Not Provided	1	0	0	0	0
2009/10	Unlimited	None	96.0	Not Provided	4	0	1,310,000	0	1,310,000
2010/11	Unlimited	None	84.0	Not Provided	1	0	3,000	0	3,000
2011/12	Unlimited	None	72.0	936	3	0	10,000	0	10,000
2012/13	Unlimited	None	60.0	869	7	0	0	0	0
2013/14	Unlimited	None	48.0	869	0	0	0	0	0
2014/15	Unlimited	None	36.0	885	4	2	5,000	3,050,000	3,055,000
2015/16	Unlimited	None	24.0	970	1	1	0	1,500,000	1,500,000
2016/17	Unlimited	None	12.0	972	0	0	0	0	0
Total					145	3	\$19,320,750	\$4,550,000	\$23,870,750

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

Data was provided by the County.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-2

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	98.0%	100.0%	100.0%
120.0	94.3%	100.0%	100.0%
108.0	89.8%	99.0%	100.0%
96.0	80.2%	97.1%	100.0%
84.0	67.9%	95.2%	100.0%
72.0	56.6%	93.3%	100.0%
60.0	28.3%	88.9%	100.0%
48.0	10.9%	82.7%	100.0%
36.0	2.2%	75.1%	99.0%
24.0	0.0%	60.1%	96.1%
12.0	0.0%	37.6%	81.8%

(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).

(6), (7) and (8) are interpolated, based on (2), (3) and (4), respectively.

COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

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

I. Historical Limited Paid Losses (\$000)

Claim Period	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
1987/98	0	0	0	0	2,205	5,980	7,345	9,025	9,775	11,175	11,175	11,175	11,175	11,175	11,175	11,175	11,175	11,175	11,175	11,175
1988/99	0	12,065	12,065	17,115	17,650	23,830	27,850	37,850	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925
1989/00	0	0	156	551	1,046	4,406	4,706	4,706	4,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706
2000/01	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	25,061	25,061	25,061	25,061	25,061
2001/02	0	0	1,260	1,263	3,248	4,488	4,888	4,988	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316
2002/03	10	12	0	8,781	16,656	18,246	19,498	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646
2003/04	0	0	0	107	5,775	16,665	18,246	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715
2004/05	0	0	0	107	5,775	16,665	18,246	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715
2005/06	0	1	16	528	6,778	9,228	9,908	11,533	11,603	23,603	24,028	24,000	19,698	19,196	5,316	5,316	19,196	19,196	19,196	19,196
2006/07	0	16	16	26	2,016	2,016	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766
2007/08	0	127	127	3,677	6,027	6,027	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427
2008/09	0	0	2,445	3,155	3,155	4,405	5,155	8,155	8,205	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203
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
2010/11	0	0	0	2,850	4,878	5,168	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468
2011/12	0	20,100	20,825	24,390	26,195	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294
2012/13	0	850	850	2,330	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690
2013/14	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0
2015/16	90	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590
2016/17	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	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
1987/98																				
1988/99					2,712	1,228	1,229	1,083	1,143	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,482	1,075	1,000	1,000
1989/00		1,000	1,419	1,031	1,350	1,168	1,359	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
1990/01			3,532	1,898	4,212	1,068	1,000	1,000	2,487	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2001/02	1,150	109,585	311,700	1,321	1,300	1,561	1,000	1,000	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			1,002	2,572	1,382	2,572	1,020	1,066	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			1,897	1,897	1,095	1,069	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
2004/05		1,189	53,971	2,886	1,123	1,000	1,000	1,000	1,053	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2005/06		103,000	1,023	12,837	1,361	1,074	1,164	1,006	2,034	1,018	0.999	0.999	0.977	0.999	0.999	0.999	0.999	0.999	0.999	0.999
2006/07		1,000	1,621	77,245	1,000	2,364	1,000	1,000	1,000	0.997	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999
2007/08		1,000	28,953	1,639	1,398	1,000	1,000	1,000	1,000	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985
2008/09		1,000	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
2009/10			3,302	3,712	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
2010/11		1,036	1,171	1,074	1,059	1,058	1,000	1,000	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	2,741	2,399	1,309	1,058	1,000	1,000	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	1,309	1,058	1,000	1,000	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		1,200																		
2014/15																				
2015/16	28,778																			
2016/17																				
Average	14,964	127,666	37,129	8,058	1,576	1,225	1,113	1,015	1,270	1,002	1,000	1,000	0.996	1,000	0.998	1,000	1,246	1,075	1,000	1,000
All	29,056	1,006	1,271	1,240	1,389	1,091	1,121	1,002	1,479	1,009	1,000	1,000	0.991	1,000	0.997	1,000	1,000	1,000	1,000	1,000
Wtd 3				1,728	1,244	1,101	1,194	1,002	1,340	1,005	1,000	1,000	0.992	1,000	0.997	1,000	1,000	1,000	1,000	1,000
Last 3				1,728	1,244	1,101	1,194	1,002	1,340	1,005	1,000	1,000	0.992	1,000	0.997	1,000	1,000	1,000	1,000	1,000
Last 5				1,728	1,244	1,101	1,194	1,002	1,340	1,005	1,000	1,000	0.992	1,000	0.997	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	1,180	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
Cumulative	1,102,717	551,359	45,928	9,186	3,533	1,766	1,472	1,248	1,114	1,061	1,020	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Percent	0.0%	0.0%	2.2%	10.9%	28.3%	56.6%	67.9%	80.2%	89.8%	94.3%	98.0%	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 and is for Cermak, Stroger and Provident combined.

COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

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

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 1997/98																					
1998/99	1,500	17,860	20,160	17,620	17,205	16,230	15,975	15,625	13,275	11,175	11,175	11,175	11,175	14,175	14,175	14,175	14,175	16,675	17,925	\$217,703	
1999/00	15,495	25,610	35,730	44,165	46,475	46,930	40,630	46,630	46,225	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	
2000/01	8,668	7,778	8,093	8,911	8,706	21,206	15,706	14,706	14,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	
2001/02	33,740	23,655	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	25,061	25,061	25,061	25,061	24,848	
2002/03	26,711	16,622	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	5,316	5,316	5,316	5,316	5,316	
2003/04	28,331	39,505	26,840	38,771	29,756	20,246	20,246	20,146	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	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	19,715	19,715	19,715	19,715	19,715	19,715	19,715	
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	24,250	24,028	24,028	24,028	24,028	24,028	24,028	24,028	
2006/07	11,046	13,126	8,721	5,787	4,726	5,496	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	
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	8,302	8,302	8,302	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	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	
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	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	
2010/11	7,70	3,900	8,530	11,105	11,183	9,968	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	
2011/12	23,923	34,253	39,927	39,455	39,045	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	
2012/13	6,925	12,000	29,150	39,255	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	
2013/14	1,560	7,155	6,400	5,575																	
2014/15	7,000	8,225	8,630																		
2015/16	5,190	8,620																			
2016/17	450																				

II. Limited Reported Incurred Loss Development

Claim Period	Months of Development:		
	12-24	24-36	36-48
to 1997/98			
1998/99	11,900	1,129	0,874
1999/00	1,656	1,384	1,236
2000/01	0,897	1,041	1,010
2001/02	0,760	1,162	1,015
2002/03	0,600	0,360	0,823
2003/04	1,394	0,679	1,445
2004/05	2,861	0,771	1,157
2005/06	2,519	0,629	1,097
2006/07	1,188	0,664	0,664
2007/08	0,505	1,367	0,700
2008/09	1,316	1,419	1,049
2009/10	5,065	2,187	1,302
2010/11	1,432	1,166	0,988
2011/12	1,733	2,429	1,347
2012/13	1,175	1,049	0,871
2013/14	1,175	1,049	
2014/15	1,661		
2015/16			
2016/17			
Average All	2,382	1,189	1,097
Wtd 3	1,745	1,614	1,117
Last 3	2,474	1,458	1,069
Last 5	1,609	1,467	1,114
x-tillow			
Previous	1,600	1,250	1,100
Selected	1,600	1,250	1,100
Cumulative	2,662	1,331	1,125
Percent	37.6%	60.1%	75.1%

Claim Period	Months of Development:																
	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 1997/98																	
1998/99	0,976	0,943	0,984	0,972	0,855	0,842	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1999/00	1,052	1,010	0,866	1,148	0,891	0,820	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2000/01	0,977	2,436	0,741	1,000	0,936	0,796	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2001/02	1,015	1,246	0,826	1,008	0,962	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	0,980	0,823	0,838	0,938	0,962	0,962	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2003/04	0,767	0,963	0,707	0,995	0,975	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2004/05	0,885	0,912	0,961	1,053	1,000	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	0,694	0,973	0,827	1,126	1,641	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	0,817	1,195	0,973	0,867	1,000	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	0,700	0,946	0,894	0,771	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
2008/09	0,932	1,047	0,825	1,018	0,976	0,976	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2009/10	0,825	0,917	0,904	1,000	1,000	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	0,954	0,934	1,000	1,000	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	0,990	0,964	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934
2012/13	1,566	1,566	1,566	1,566	1,566	1,566	1,566	1,566	1,566	1,566	1,566	1,566	1,566	1,566	1,566	1,566	1,566
2013/14	0,894	0,894	0,894	0,894	0,894	0,894	0,894	0,894	0,894	0,894	0,894	0,894	0,894	0,894	0,894	0,894	0,894
2014/15	0,871	0,871	0,871	0,871	0,871	0,871	0,871	0,871	0,871	0,871	0,871	0,871	0,871	0,871	0,871	0,871	0,871
2015/16	1,049	1,049	1,049	1,049	1,049	1,049	1,049	1,049	1,049	1,049	1,049	1,049	1,049	1,049	1,049	1,049	1,049
2016/17	1,661	1,661	1,661	1,661	1,661	1,661	1,661	1,661	1,661	1,661	1,661	1,661	1,661	1,661	1,661	1,661	1,661
Average All	1,075	1,050	1,020	0,991	1,030	0,944	0,995	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001
Wtd 3	1,244	1,050	1,020	0,923	0,991	0,897	0,870	0,904	0,904	0,904	0,904	0,904	0,904	0,904	0,904	0,904	0,904
Last 3	1,167	1,050	1,020	0,963	0,991	0,888	0,886	0,886	0,886	0,886	0,886	0,886	0,886	0,886	0,886	0,886	0,886
Last 5	0,976	0,955	0,911	0,962	1,000	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	1,075	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	1,075	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
Cumulative	1,210	1,125	1,072	1,051	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
Percent	82.7%	88.9%	93.3%	95.2%	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%

Amounts are limited (net of excess insurance).

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

COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES
 Historical Reported Claims and Reported Claim Development

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		
I. Historical Reported Claims	9	40	43	46	47	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	313	
to 1997/98																						
1998/99	12	32	37	39	40	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	52	
1999/00	76	94	102	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	40	
2000/01	87	129	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	40	
2001/02	89	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	107	
2002/03	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	48	
2003/04	82	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	48	
2004/05	55	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	48	
2005/06	31	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	48	
2006/07	32	32	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	48	
2007/08	31	31	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	48	
2008/09	35	36	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	48	
2009/10	40	41	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	48	
2010/11	33	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	48	
2011/12	29	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	48	
2012/13	33	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	48	
2013/14	29	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	48	
2014/15	34	46																			48	
2015/16	12																				48	
2016/17																					48	

Claim Period	Months of Development:												240-Ult									
	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		
II. Reported Claim Development	4,444	1,075	1,070	1,022	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	1,083	
to 1997/98																						
1998/99	2,667	1,156	1,054	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	1,000	1,083	
1999/00	1,237	1,085	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,083	
2000/01	1,303	1,023	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,083	
2001/02	1,138	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,083	
2002/03	1,449	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,083	
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	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,083	
2004/05	1,122	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,083	
2005/06	1,091	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,083	
2006/07	1,355	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,083	
2007/08	1,065	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,083	
2008/09	1,000	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	1,000	1,000	1,000	1,000	1,000	1,000	1,083	
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	1,000	1,000	1,000	1,000	1,000	1,000	1,083	
2010/11	1,029	1,028	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,083	
2011/12	1,025	1,049	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,083	
2012/13	1,030	1,000	1,235	1,512	1,514	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,083	
2013/14	1,030	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,083	
2014/15	1,069	1,387																			1,083	
2015/16	1,353																				1,083	
2016/17																					1,083	
Average All	1,421	1,051	1,023	1,037	1,038	1,046	1,042	1,036	1,021	1,024	1,012	1,039	1,041	1,024	0,973	1,013	1,100	1,000	1,000	1,000	1,000	
Wtd 3	1,156	1,132	1,070	1,188	1,176	1,212	1,156	1,096	1,046	1,053	1,028	1,090	1,089	1,036	0,949	1,021	1,100	1,000	1,000	1,000	1,000	
Last 3	1,151	1,146	1,078	1,171	1,171	1,198	1,167	1,131	1,071	1,072	1,033	1,091	1,083	1,040	0,965	1,013	1,100	1,000	1,000	1,000	1,000	
Last 5	1,043	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	1,000	1,000	1,000	100.0%	
x-tiltlow																					100.0%	
Previous	1,175	1,030	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	100.0%	
Selected	1,175	1,030	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	100.0%	
Cumulative	1,222	1,040	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	100.0%	
Percent	81.8%	96.1%	99.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	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 1/09/08																					
1999/09	0.0%	0.0%	0.0%	0.0%	12.8%	36.8%	46.0%	58.1%	73.6%	100.0%	100.0%	100.0%	100.0%	78.8%	78.8%	78.8%	78.8%	100.0%	100.0%	100.0%	100.0%
1999/00	0.0%	46.7%	33.8%	38.8%	38.0%	50.8%	68.5%	81.1%	82.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2000/01	0.0%	0.0%	1.9%	6.2%	12.0%	20.8%	30.0%	30.0%	32.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2001/02	0.0%	0.0%	0.1%	37.8%	49.1%	51.3%	56.9%	56.2%	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%	0.0%	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%	98.1%	100.0%	94.9%	94.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2005/06	0.0%	0.0%	2.3%	0.0%	39.3%	55.1%	71.5%	73.9%	45.3%	92.2%	100.0%	100.0%	100.0%	66.3%	66.3%	66.3%	66.3%	66.3%	66.3%	66.3%	66.3%
2006/07	0.0%	0.0%	0.2%	0.5%	42.7%	35.7%	86.7%	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%
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%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2008/09	0.0%	0.0%	25.0%	30.8%	33.0%	33.0%	62.4%	97.0%	100.0%	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	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	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%
2010/11	0.0%	0.0%	0.0%	25.7%	43.6%	48.4%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%
2011/12	0.0%	58.7%	52.2%	61.8%	67.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%
2012/13	0.0%	7.1%	2.9%	14.8%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%
2013/14	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2014/15	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2015/16	1.7%	30.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2016/17	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Average																					
All	0.1%	8.0%	8.3%	20.0%	41.6%	58.1%	75.1%	85.2%	84.4%	99.2%	99.8%	99.9%	95.2%	96.5%	95.8%	94.7%	92.9%	100.0%	100.0%	100.0%	100.0%
Last 3	0.6%	10.1%	1.1%	27.5%	39.9%	74.6%	72.4%	99.0%	100.0%	97.4%	99.3%	99.7%	88.8%	100.0%	100.0%	100.0%	92.9%	100.0%	100.0%	100.0%	100.0%
Last 5	0.0%	12.5%	1.1%	18.2%	44.4%	67.2%	75.4%	99.0%	98.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
x-high																					
Implicit	0.0%	0.0%	2.9%	13.2%	31.9%	60.7%	71.4%	82.6%	90.7%	94.3%	95.0%	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 - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/17 (2)	Limited Paid Losses 11/30/17 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1997/98	240.0	\$8,762,000	100.0%	\$8,762,000
1998/99	228.0	50,000	100.0%	50,000
1999/00	216.0	2,250,000	100.0%	2,250,000
2000/01	204.0	950,000	100.0%	950,000
2001/02	192.0	1,000,000	100.0%	1,000,000
2002/03	180.0	19,000	100.0%	19,000
2003/04	168.0	2,958,500	100.0%	2,958,500
2004/05	156.0	750	100.0%	750
2005/06	144.0	1,000,000	100.0%	1,000,000
2006/07	132.0	2,500	98.0%	2,550
2007/08	120.0	1,000,000	94.3%	1,060,800
2008/09	108.0	0	89.8%	0
2009/10	96.0	1,310,000	80.2%	1,634,226
2010/11	84.0	3,000	67.9%	4,416
2011/12	72.0	10,000	56.6%	17,665
2012/13	60.0	0	28.3%	0
2013/14	48.0	0	10.9%	0
2014/15	36.0	5,000	2.2%	229,640
2015/16	24.0	0	0.0%	0
2016/17	12.0	0	0.0%	0
Total		\$19,320,750		\$19,939,547

(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 11/30/17 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1997/98	240.0	\$8,762,000	100.0%	\$8,762,000
1998/99	228.0	50,000	100.0%	50,000
1999/00	216.0	2,250,000	100.0%	2,250,000
2000/01	204.0	950,000	100.0%	950,000
2001/02	192.0	1,000,000	100.0%	1,000,000
2002/03	180.0	19,000	100.0%	19,000
2003/04	168.0	2,958,500	100.0%	2,958,500
2004/05	156.0	750	100.0%	750
2005/06	144.0	1,000,000	100.0%	1,000,000
2006/07	132.0	2,500	100.0%	2,500
2007/08	120.0	1,000,000	100.0%	1,000,000
2008/09	108.0	0	99.0%	0
2009/10	96.0	1,310,000	97.1%	1,349,562
2010/11	84.0	3,000	95.2%	3,152
2011/12	72.0	10,000	93.3%	10,718
2012/13	60.0	0	88.9%	0
2013/14	48.0	0	82.7%	0
2014/15	36.0	3,055,000	75.1%	4,065,590
2015/16	24.0	1,500,000	60.1%	2,495,247
2016/17	12.0	0	37.6%	0
Total		\$23,870,750		\$25,917,020

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

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

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/17 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/17 (6)	Limited Case Reserves 11/30/17 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1997/98	240.0	100.0%	100.0%	100.0%	\$8,762,000	\$0	\$8,762,000
1998/99	228.0	100.0%	100.0%	100.0%	50,000	0	50,000
1999/00	216.0	100.0%	100.0%	100.0%	2,250,000	0	2,250,000
2000/01	204.0	100.0%	100.0%	100.0%	950,000	0	950,000
2001/02	192.0	100.0%	100.0%	100.0%	1,000,000	0	1,000,000
2002/03	180.0	100.0%	100.0%	100.0%	19,000	0	19,000
2003/04	168.0	100.0%	100.0%	100.0%	2,958,500	0	2,958,500
2004/05	156.0	100.0%	100.0%	100.0%	750	0	750
2005/06	144.0	100.0%	100.0%	100.0%	1,000,000	0	1,000,000
2006/07	132.0	98.0%	100.0%	100.0%	2,500	0	2,500
2007/08	120.0	94.3%	100.0%	100.0%	1,000,000	0	1,000,000
2008/09	108.0	89.8%	99.0%	90.3%	0	0	0
2009/10	96.0	80.2%	97.1%	85.2%	1,310,000	0	1,310,000
2010/11	84.0	67.9%	95.2%	84.9%	3,000	0	3,000
2011/12	72.0	56.6%	93.3%	84.6%	10,000	0	10,000
2012/13	60.0	28.3%	88.9%	84.5%	0	0	0
2013/14	48.0	10.9%	82.7%	80.5%	0	0	0
2014/15	36.0	2.2%	75.1%	74.6%	5,000	3,050,000	4,094,043
2015/16	24.0	0.0%	60.1%	60.1%	0	1,500,000	2,495,548
2016/17	12.0	0.0%	37.6%	37.6%	0	0	0
Total					\$19,320,750	\$4,550,000	\$25,905,341

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

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

Preliminary Projected Ultimate Limited Losses to 2016/17

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 1997/98	\$8,762,000	\$8,762,000	\$8,762,000	\$8,762,000
1998/99	50,000	50,000	50,000	50,000
1999/00	2,250,000	2,250,000	2,250,000	2,250,000
2000/01	950,000	950,000	950,000	950,000
2001/02	1,000,000	1,000,000	1,000,000	1,000,000
2002/03	19,000	19,000	19,000	19,000
2003/04	2,958,500	2,958,500	2,958,500	2,958,500
2004/05	750	750	750	750
2005/06	1,000,000	1,000,000	1,000,000	1,000,000
2006/07	2,550	2,500	2,500	2,500
2007/08	1,060,800	1,000,000	1,000,000	1,000,000
2008/09	0	0	0	0
2009/10	1,634,226	1,349,562	1,310,000	1,310,000
2010/11	4,416	3,152	3,000	3,000
2011/12	17,665	10,718	10,000	10,000
2012/13	0	0	0	0
2013/14	0	0	0	0
2014/15	229,640	4,065,590	4,094,043	3,360,000
2015/16	0	2,495,247	2,495,548	1,996,318
2016/17	0	0	0	0
Total	\$19,939,547	\$25,917,020	\$25,905,341	\$24,672,068

(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 (2017/18 = 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)
2007/08	\$1,000,000	776	\$1,288.69	1.495	\$1,926.65	\$715.08
2008/09	0	776	0.00	1.438	0.00	743.68
2009/10	1,310,000	776	1,688.18	1.347	2,273.64	793.80
2010/11	3,000	776	3.87	1.284	4.96	832.72
2011/12	10,000	936	10.68	1.234	13.18	866.03
2012/13	0	869	0.00	1.200	0.00	890.71
2013/14	0	869	0.00	1.158	0.00	922.99
2014/15	3,360,000	885	3,796.86	1.118	4,246.39	955.91
2015/16	1,996,318	970	2,058.03	1.082	2,225.97	988.42
2016/17	0	972	0.00	1.040	0.00	1,027.96

(7) Projected 2017/18 a-priori loss rate per Occupied Bed Equivalent \$1,069.08

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/17 (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)
2012/13	\$0	28.3%	\$890.71	869	\$554,998	\$554,998
2013/14	0	10.9%	922.99	869	714,842	714,842
2014/15	5,000	2.2%	955.91	885	827,501	832,501
2015/16	0	0.0%	988.42	970	958,610	958,610
2016/17	0	0.0%	1,027.96	972	999,527	999,527

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/17 (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)
2012/13	\$0	88.9%	\$890.71	869	\$86,264	\$86,264
2013/14	0	82.7%	922.99	869	139,119	139,119
2014/15	3,055,000	75.1%	955.91	885	210,272	3,265,272
2015/16	1,500,000	60.1%	988.42	970	382,418	1,882,418
2016/17	0	37.6%	1,027.96	972	624,047	624,047

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 11/30/17 (2)	Reported Claims 11/30/17 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2007/08	120.0	8	100.0%	8	776	0.01
2008/09	108.0	1	100.0%	1	776	0.00
2009/10	96.0	4	100.0%	4	776	0.01
2010/11	84.0	1	100.0%	1	776	0.00
2011/12	72.0	3	100.0%	3	936	0.00
2012/13	60.0	7	100.0%	7	869	0.01
2013/14	48.0	0	100.0%	0	869	0.00
2014/15	36.0	4	99.0%	4	885	0.00
2015/16	24.0	1	96.1%	1	970	0.00
2016/17	12.0	0	81.8%	0	972	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 (2017/18 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2017/18 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2007/08	\$1,000,000	8	\$125,000	1.495	\$186,881	\$249,798	\$1,998,381
2008/09	0	1	0	1.438	0	259,790	259,790
2009/10	1,310,000	4	327,500	1.347	441,075	277,295	1,109,179
2010/11	3,000	1	3,000	1.284	3,852	290,893	290,893
2011/12	10,000	3	3,333	1.234	4,115	302,529	907,587
2012/13	0	7	0	1.200	0	311,149	2,178,040
2013/14	0	0	0	1.158	0	322,427	0
2014/15	3,360,000	4	840,000	1.118	939,452	333,924	1,335,697
2015/16	1,996,318	1	1,996,318	1.082	2,159,218	345,284	345,284
2016/17	0	0	0	1.040	0	359,095	0
			(7) Projected 2017/18 average claim severity		\$373,459		

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 2016/17

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 1997/98	\$8,762,000	\$8,762,000	\$8,762,000				\$8,762,000	\$8,762,000
1998/99	50,000	50,000	50,000				50,000	50,000
1999/00	2,250,000	2,250,000	2,250,000				2,250,000	2,250,000
2000/01	950,000	950,000	950,000				950,000	950,000
2001/02	1,000,000	1,000,000	1,000,000				1,213,000	1,000,000
2002/03	19,000	19,000	19,000				22,000	19,000
2003/04	2,958,500	2,958,500	2,958,500				3,408,500	2,958,500
2004/05	750	750	750				18,000	750
2005/06	1,000,000	1,000,000	1,000,000				1,028,000	1,000,000
2006/07	2,550	2,500	2,500				16,100	2,500
2007/08	1,060,800	1,000,000	1,000,000				1,125,000	1,000,000
2008/09	0	0	0					0
2009/10	1,634,226	1,349,562	1,310,000				1,310,000	1,310,000
2010/11	4,416	3,152	3,000				100,000	3,000
2011/12	17,665	10,718	10,000				250,000	10,000
2012/13	0	0	0	554,998	86,264	2,178,040	250,000	150,000
2013/14	0	0	0	714,842	139,119		250,000	200,000
2014/15	229,640	4,065,590	4,094,043	832,501	3,265,272	1,335,697	1,000,000	3,500,000
2015/16	0	2,495,247	2,495,548	958,610	1,882,418	345,284	1,000,000	2,500,000
2016/17	0	0	0	999,527	624,047		860,000	1,000,000
Total	\$19,939,547	\$25,917,020	\$25,905,341				\$23,862,600	\$26,665,750
2012/13 - 2016/17	229,640	6,560,837	6,589,591	4,060,478	5,997,120	3,859,021	3,360,000	7,350,000
to 2011/12	19,709,907	19,356,183	19,315,750				20,502,600	19,315,750
						Change		
						All years		\$2,803,150
						2012/13 - 2016/17		3,990,000
						to 2011/12		-1,186,850

(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 2017/18 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 (2017/18 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)	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)
2007/08	\$1,000,000	776	\$1,288.69	1.495	\$1,926.65		
2008/09	0	776	0.00	1.438	0.00		
2009/10	1,310,000	776	1,688.18	1.347	2,273.64		
2010/11	3,000	776	3.87	1.284	4.96		
2011/12	10,000	936	10.68	1.234	13.18		
2012/13	150,000	869	172.59	1.200	207.16		
2013/14	200,000	869	230.12	1.158	266.55		
2014/15	3,500,000	885	3,955.07	1.118	4,423.33		
2015/16	2,500,000	970	2,577.29	1.082	2,787.59		
2016/17	1,000,000	972	1,028.35	1.040	1,069.49		
Total	\$9,673,000	8,606	\$1,124.00		\$1,297.25		
2017/18	\$1,297.25	972	\$1,260,000	0.89	\$1,154.80	\$1,120,000	
2018/19	1,349.14	972	1,310,000	0.89	1,200.99	1,170,000	
2019/20	1,403.11	972	1,360,000	0.89	1,249.03	1,210,000	

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

(3) 2011/12, 2012/13, 2013/14, 2014/15, 2015/16 and 2016/17 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) 2017/18 is based on (6) and actuarial judgment.
 Other period(s) based on 2017/18 plus a 4% trend.

(8) to 2017/18 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit MM-Cermak-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-11

Estimated Outstanding Losses as of November 30, 2017

Claim Period (1)	Limited Paid Losses 11/30/17 (2)	Limited Case Reserves 11/30/17 (3)	Limited Reported Incurred Losses 11/30/17 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/17 (5)-(4) (6)	Estimated Outstanding Losses 11/30/17 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/17 (7)X(8) (9)
to 1997/98	\$8,762,000	\$0	\$8,762,000	\$8,762,000	\$0	\$0	1.00	\$0
1998/99	50,000	0	50,000	50,000	0	0	1.00	0
1999/00	2,250,000	0	2,250,000	2,250,000	0	0	1.00	0
2000/01	950,000	0	950,000	950,000	0	0	1.00	0
2001/02	1,000,000	0	1,000,000	1,000,000	0	0	1.00	0
2002/03	19,000	0	19,000	19,000	0	0	1.00	0
2003/04	2,958,500	0	2,958,500	2,958,500	0	0	1.00	0
2004/05	750	0	750	750	0	0	1.00	0
2005/06	1,000,000	0	1,000,000	1,000,000	0	0	1.00	0
2006/07	2,500	0	2,500	2,500	0	0	0.99	0
2007/08	1,000,000	0	1,000,000	1,000,000	0	0	0.98	0
2008/09	0	0	0	0	0	0	0.98	0
2009/10	1,310,000	0	1,310,000	1,310,000	0	0	0.97	0
2010/11	3,000	0	3,000	3,000	0	0	0.97	0
2011/12	10,000	0	10,000	10,000	0	0	0.96	0
2012/13	0	0	0	150,000	150,000	150,000	0.96	144,316
2013/14	0	0	0	200,000	200,000	200,000	0.95	190,650
2014/15	5,000	3,050,000	3,055,000	3,500,000	445,000	3,495,000	0.94	3,286,651
2015/16	0	1,500,000	1,500,000	2,500,000	1,000,000	2,500,000	0.92	2,310,790
2016/17	0	0	0	1,000,000	1,000,000	1,000,000	0.91	907,089
Total	\$19,320,750	\$4,550,000	\$23,870,750	\$26,665,750	\$2,795,000	\$7,345,000		\$6,839,496

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

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

(8) is based on a 1.9% 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, 2017 to November 30, 2018

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Months of Development 11/30/18 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/17 to 11/30/18 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/17 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/18 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/18 (9)X(10) (11)
to 1997/98	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2008/09	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.98	0
2009/10	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2010/11	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.97	0
2011/12	72.0	56.6%	84.0	67.9%	26.1%	0	0	0	0.97	0
2012/13	60.0	28.3%	72.0	56.6%	39.5%	150,000	59,220	90,780	0.96	87,278
2013/14	48.0	10.9%	60.0	28.3%	19.5%	200,000	39,093	160,907	0.96	154,810
2014/15	36.0	2.2%	48.0	10.9%	8.9%	3,495,000	311,165	3,183,835	0.95	3,034,990
2015/16	24.0	0.0%	36.0	2.2%	2.2%	2,500,000	53,989	2,446,011	0.94	2,300,196
2016/17	12.0	0.0%	24.0	0.0%	0.0%	1,000,000	91	999,909	0.92	924,232
2017/18	0.0	0.0%	12.0	0.0%	0.0%	1,260,000	114	1,259,886	0.91	1,142,829
Total						\$8,605,000	\$463,672	\$8,141,328		\$7,644,335

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

(7) to 2016/17 is from Exhibit MM-Cermak-11. The amount for 2017/18 is from Exhibit MM-Cermak-10.

(10) is based on a 1.9% 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, 2018 to November 30, 2019

Claim Period (1)	Months of Development 11/30/18 (2)	Percent Losses Paid (3)	Months of Development 11/30/19 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/18 to 11/30/19 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/18 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/19 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/19 (9)X(10) (11)
to 1997/98	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2009/10	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.98	0
2010/11	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2011/12	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.97	0
2012/13	72.0	56.6%	84.0	67.9%	26.1%	90,780	23,688	67,092	0.97	65,024
2013/14	60.0	28.3%	72.0	56.6%	39.5%	160,907	63,526	97,381	0.96	93,624
2014/15	48.0	10.9%	60.0	28.3%	19.5%	3,183,835	622,329	2,561,506	0.96	2,464,441
2015/16	36.0	2.2%	48.0	10.9%	8.9%	2,446,011	217,772	2,228,239	0.95	2,124,068
2016/17	24.0	0.0%	36.0	2.2%	2.2%	999,909	21,594	978,315	0.94	919,994
2017/18	12.0	0.0%	24.0	0.0%	0.0%	1,259,886	114	1,259,772	0.92	1,164,427
2018/19	0.0	0.0%	12.0	0.0%	0.0%	1,310,000	119	1,309,881	0.91	1,188,179
Total						\$9,451,328	\$949,142	\$8,502,186		\$8,019,757

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

(7) to 2017/18 is from Exhibit MM-Cermak-12, (9). The amount for 2018/19 is from Exhibit MM-Cermak-10.

(10) is based on a 1.9% 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, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1997/98	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2010/11	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.98	0
2011/12	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2012/13	84.0	67.9%	96.0	80.2%	38.1%	67,092	25,583	41,509	0.97	40,435
2013/14	72.0	56.6%	84.0	67.9%	26.1%	97,381	25,411	71,970	0.97	69,752
2014/15	60.0	28.3%	72.0	56.6%	39.5%	2,561,506	1,011,285	1,550,221	0.96	1,490,419
2015/16	48.0	10.9%	60.0	28.3%	19.5%	2,228,239	435,543	1,792,696	0.96	1,724,764
2016/17	36.0	2.2%	48.0	10.9%	8.9%	978,315	87,101	891,214	0.95	849,549
2017/18	24.0	0.0%	36.0	2.2%	2.2%	1,259,772	27,206	1,232,566	0.94	1,159,088
2018/19	12.0	0.0%	24.0	0.0%	0.0%	1,309,881	119	1,309,762	0.92	1,210,634
2019/20	0.0	0.0%	12.0	0.0%	0.0%	1,360,000	123	1,359,877	0.91	1,233,530
Total						\$9,862,186	\$1,612,371	\$8,249,815		\$7,778,171

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

(7) to 2018/19 is from Exhibit MM-Cermak-13, (9). The amount for 2019/20 is from Exhibit MM-Cermak-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit MM-Cermak-2.

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

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/17 (5)	Unlimited Case Reserves 11/30/17 (6)	Unlimited Reported Incurred Losses 11/30/17 (7)
97001725	10/29/1996	to 1997/98	Unlimited	\$8,000,000	\$0	\$8,000,000
97003095	8/14/2000	1999/00	Unlimited	1,350,000	0	1,350,000
97004651	8/21/2002	2001/02	15,000,000	1,000,000	0	1,000,000
97004871	1/5/2004	2003/04	20,000,000	2,500,000	0	2,500,000
97006724	9/3/2006	2005/06	20,000,000	1,000,000	0	1,000,000
97007443	12/21/2007	2007/08	20,000,000	1,000,000	0	1,000,000
97008627	12/19/2009	2009/10	20,000,000	1,000,000	0	1,000,000
201502270	1/26/2015	2014/15	30,000,000	0	3,000,000	3,000,000
97012728	1/2/2016	2015/16	25,000,000	0	1,500,000	1,500,000

Amounts are gross of excess insurance.

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

Size of Loss Distribution

I. Reported Claim Count

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	108	7	0	1	0	0	116		
0.01 - 5,000	4	0	0	1	0	0	5	5	17.2%
5,000 - 10,000	3	0	0	0	0	0	3	8	27.6%
10,000 - 25,000	1	0	0	0	0	0	1	9	31.0%
25,000 - 50,000	3	0	0	1	0	0	4	13	44.8%
50,000 - 100,000	0	0	0	0	0	0	0	13	44.8%
100,000 - 250,000	3	0	0	0	0	0	3	16	55.2%
250,000 - 500,000	2	0	0	0	0	0	2	18	62.1%
500,000 - 750,000	0	0	0	0	0	0	0	18	62.1%
750,000 - 1,000,000	6	0	0	0	0	0	6	24	82.8%
Over 1,000,000	3	0	0	1	1	0	5	29	100.0%
Total	133	7	0	4	1	0	145	29	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
0.01 - 5,000	9,650	0	0	5,000	0	0	14,650	14,650	0.1%
5,000 - 10,000	27,100	0	0	0	0	0	27,100	41,750	0.2%
10,000 - 25,000	19,000	0	0	0	0	0	19,000	60,750	0.3%
25,000 - 50,000	125,000	0	0	50,000	0	0	175,000	235,750	1.0%
50,000 - 100,000	0	0	0	0	0	0	0	235,750	1.0%
100,000 - 250,000	645,000	0	0	0	0	0	645,000	880,750	3.7%
250,000 - 500,000	790,000	0	0	0	0	0	790,000	1,670,750	7.0%
500,000 - 750,000	0	0	0	0	0	0	0	1,670,750	7.0%
750,000 - 1,000,000	5,850,000	0	0	0	0	0	5,850,000	7,520,750	31.5%
Over 1,000,000	11,850,000	0	0	3,000,000	1,500,000	0	16,350,000	23,870,750	100.0%
Total	\$19,315,750	\$0	\$0	\$3,055,000	\$1,500,000	\$0	\$23,870,750	\$23,870,750	

Amounts are gross of excess insurance and 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 1997/98							
1998/99							0
1999/00							0
2000/01							0
2001/02							0
2002/03							0
2003/04	615	37,188	42,405	42,050	1,175	33	792
2004/05	584	33,691	47,114	37,977	1,057	33	754
2005/06	592	31,496	50,948	32,574	1,105	23	737
2006/07	512	22,505	43,250	28,912	802	14	616
2007/08							0
2008/09							0
2009/10							0
2010/11							0
2011/12	773	24,144	62,000	43,000		35	936
2012/13	713	23,909	28,000	60,000		35	869
2013/14	713	23,909	28,000	60,000		35	869
2014/15	713	29,765	29,186	34,544		41	885
2015/16	779	35,708	29,444	35,555		45	970
2016/17	779	35,708	29,444	35,555		46	972
2017/18	779	35,708	29,444	35,555		46	972

(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 2017. 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	2.100
Housestaff	0.800 (residents and interns)

Data Summary as of November 30, 2017
 Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Limited Paid Losses 11/30/17 (8)	Limited Case Reserves 11/30/17 (9)	Limited Reported Incurred Losses 11/30/17 (10)
to 1997/98	See Note	None	240.0	Not Provided	271	0	\$200,901,357	\$0	\$200,901,357
1998/99	Unlimited	None	228.0	2,090	36	0	15,380,000	0	15,380,000
1999/00	Unlimited	None	216.0	2,039	40	0	33,190,000	0	33,190,000
2000/01	10,000,000	None	204.0	2,104	89	0	10,411,000	0	10,411,000
2001/02	15,000,000	None	192.0	2,173	90	0	23,647,540	0	23,647,540
2002/03	20,000,000	None	180.0	2,119	87	0	4,268,500	0	4,268,500
2003/04	20,000,000	None	168.0	2,141	129	0	8,377,500	0	8,377,500
2004/05	20,000,000	None	156.0	2,112	92	1	19,606,850	10,000,000	29,606,850
2005/06	20,000,000	None	144.0	2,037	74	1	22,575,000	250,000	22,825,000
2006/07	20,000,000	None	132.0	1,900	57	1	4,750,000	100,000	4,850,000
2007/08	20,000,000	None	120.0	1,942	40	0	7,002,000	0	7,002,000
2008/09	20,000,000	None	108.0	2,027	42	0	7,905,000	0	7,905,000
2009/10	40,000,000	None	96.0	1,884	42	0	9,092,500	0	9,092,500
2010/11	40,000,000	None	84.0	1,898	57	1	5,465,000	4,500,000	9,965,000
2011/12	40,000,000	None	72.0	1,898	49	4	32,468,999	3,100,000	35,568,999
2012/13	30,000,000	None	60.0	1,926	54	15	5,400,000	53,375,000	58,775,000
2013/14	30,000,000	None	48.0	1,926	39	9	400,000	4,750,000	5,150,000
2014/15	25,000,000	None	36.0	1,812	38	6	25,000	5,550,000	5,575,000
2015/16	25,000,000	None	24.0	1,871	42	38	90,000	3,530,000	3,620,000
2016/17	25,000,000	None	12.0	1,863	9	8	0	375,000	375,000
Total					1,377	84	\$410,956,246	\$85,530,000	\$496,486,246

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

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

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

Data was provided by the County.



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

Data Summary as of November 30, 2017
 Gross Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Gross Unlimited Paid Losses 11/30/17 (8)	Gross Unlimited Case Reserves 11/30/17 (9)	Gross Unlimited Reported Incurred Losses 11/30/17 (10)
to 1997/98	Unlimited	None	240.0	Not Provided	271	0	\$200,901,357	\$0	\$200,901,357
1998/99	Unlimited	None	228.0	2,090	36	0	15,380,000	0	15,380,000
1999/00	Unlimited	None	216.0	2,039	40	0	33,190,000	0	33,190,000
2000/01	Unlimited	None	204.0	2,104	89	0	10,411,000	0	10,411,000
2001/02	Unlimited	None	192.0	2,173	90	0	23,647,540	0	23,647,540
2002/03	Unlimited	None	180.0	2,119	87	0	4,268,500	0	4,268,500
2003/04	Unlimited	None	168.0	2,141	129	0	8,377,500	0	8,377,500
2004/05	Unlimited	None	156.0	2,112	92	1	19,606,850	10,000,000	29,606,850
2005/06	Unlimited	None	144.0	2,037	74	1	22,575,000	250,000	22,825,000
2006/07	Unlimited	None	132.0	1,900	57	1	4,750,000	100,000	4,850,000
2007/08	Unlimited	None	120.0	1,942	40	0	7,002,000	0	7,002,000
2008/09	Unlimited	None	108.0	2,027	42	0	7,905,000	0	7,905,000
2009/10	Unlimited	None	96.0	1,884	42	0	9,092,500	0	9,092,500
2010/11	Unlimited	None	84.0	1,898	57	1	5,465,000	4,500,000	9,965,000
2011/12	Unlimited	None	72.0	1,898	49	4	32,468,999	3,100,000	35,568,999
2012/13	Unlimited	None	60.0	1,926	54	15	5,400,000	53,375,000	58,775,000
2013/14	Unlimited	None	48.0	1,926	39	9	400,000	4,750,000	5,150,000
2014/15	Unlimited	None	36.0	1,812	38	6	25,000	5,550,000	5,575,000
2015/16	Unlimited	None	24.0	1,871	42	38	90,000	3,530,000	3,620,000
2016/17	Unlimited	None	12.0	1,863	9	8	0	375,000	375,000
Total					1,377	84	\$410,956,246	\$85,530,000	\$496,486,246

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

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	98.0%	100.0%	100.0%
120.0	94.3%	100.0%	100.0%
108.0	89.8%	99.0%	100.0%
96.0	80.2%	97.1%	100.0%
84.0	67.9%	95.2%	100.0%
72.0	56.6%	93.3%	100.0%
60.0	28.3%	88.9%	100.0%
48.0	10.9%	82.7%	100.0%
36.0	2.2%	75.1%	99.0%
24.0	0.0%	60.1%	96.1%
12.0	0.0%	37.6%	81.8%

(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).

(6), (7) and (8) are interpolated, based on (2), (3) and (4), respectively.

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 1997/98																					\$217,703
1998/99	0	0	0	0	2,205	5,980	7,345	9,025	9,775	11,175	11,175	11,175	11,175	11,175	11,175	11,175	11,175	16,675	17,925		
1999/00	0	12,065	12,065	17,115	17,650	23,830	27,830	37,830	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925		
2000/01	0	0	158	551	1,046	4,406	4,706	4,706	4,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706		
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	25,061	25,061	25,061	25,061		
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	5,316	5,316	5,316	5,316		
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	19,646	19,646	19,646	19,646	19,646		
2004/05	0	90	107	5,775	16,665	18,715	18,715	18,715	18,715	18,715	18,715	19,715	19,715	19,715	19,715	19,715	19,715	19,715	19,715		
2005/06	0	1	516	528	6,778	9,228	9,908	11,533	11,603	23,603	24,028	24,000									
2006/07	0	16	16	26	2,016	2,016	4,766	4,766	4,766	4,766	4,766	4,766	4,753								
2007/08	0	127	127	3,677	6,027	8,427	8,427	8,427	8,427	8,427	8,302										
2008/09	0	0	2,445	3,155	3,155	4,405	5,155	8,155	8,205												
2009/10	0	0	0	2,318	7,653	10,438	11,203	11,203													
2010/11	0	0	0	2,850	4,878	5,168	5,468														
2011/12	0	20,100	20,825	24,390	26,195	34,294															
2012/13	0	850	850	2,330	5,590																
2013/14	0	0	0	825																	
2014/15	0	25	30																		
2015/16	90	2,590																			
2016/17	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 1997/98																				
1998/99					2,712	1,228	1,229	1,083	1,143	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,492	1,075		
1999/00		1,000	1,419	1,031	1,350	1,168	1,359	1,003	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2000/01			3,532	1,898	4,212	1,068	1,000	1,000	2,487	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,000	0,992				
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					
2003/04				1,897	1,095	1,069	1,008	1,000	1,000	1,000	1,000	1,000	0,977							
2004/05		1,189	53,971	2,886	1,123	1,000	1,000	1,000	1,053	1,000	1,000	0,999								
2005/06		1032,000	1,023	12,837	1,361	1,074	1,164	1,006	2,034	1,018	0,999									
2006/07		1,000	1,621	77,245	1,000	2,364	1,000	1,000	1,000	0,997										
2007/08		1,000	28,953	1,639	1,398	1,000	1,000	1,000	0,985											
2008/09			1,290	1,000	1,396	1,170	1,582	1,006												
2009/10				3,302	1,364	1,073	1,000													
2010/11				1,712	1,059	1,058														
2011/12		1,036	1,171	1,074	1,309															
2012/13		1,000	2,741	2,399																
2013/14																				
2014/15		1,200																		
2015/16	28,778																			
2016/17																				
Average																				
All	14,964	127,666	37,129	8,058	1,576	1,225	1,113	1,015	1,270	1,002	1,000	1,000	0,996	1,000	0,998	1,000	1,246	1,075		
Wtd 3	29,056	1,006	1,271	1,240	1,289	1,091	1,121	1,002	1,479	1,009	1,000	1,000	0,991	1,000	0,997	1,000				
Last 3				1,728	1,244	1,101	1,194	1,002	1,340	1,005	1,000	1,000	0,992	1,000	0,997	1,000				
Last 5				1,728	1,356	1,101	1,055	1,002	1,018	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	1,180	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
Cumulative	11022,717	5511,359	45,928	9,186	3,533	1,766	1,472	1,248	1,114	1,061	1,020	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Percent	0.0%	0.0%	2.2%	10.9%	28.3%	56.6%	67.9%	80.2%	89.8%	94.3%	98.0%	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 and is for Cermak, Stroger and Provident combined.

COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - JOHN H. STROGER, JR. 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 1997/98																				\$217,703
1998/99	1,500	17,850	20,160	17,620	17,205	16,230	15,975	15,525	13,275	11,175	11,175	11,175	11,175	14,175	14,175	14,175	14,175	16,675	17,925	
1999/00	15,495	25,810	35,730	44,165	46,475	46,930	40,630	46,630	46,225	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	
2000/01	8,668	7,778	8,093	8,911	8,706	21,206	15,706	15,706	14,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	
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	25,061	25,061	25,061	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	5,316	5,316	5,316	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	19,646	19,646	19,646	19,646	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	19,715	19,715	19,715	19,715	19,715	29,698	
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								
2006/07	11,046	13,126	8,721	5,787	4,726	5,646	5,496	4,766	4,766	4,766	4,853									
2007/08	24,827	12,544	17,152	18,477	12,927	12,227	10,927	8,427	8,427	8,302										
2008/09	5,235	6,890	9,775	10,255	9,555	10,005	8,255	8,405	8,205											
2009/10	5,095	8,253	15,550	16,368	13,503	12,388	11,203	11,203												
2010/11	770	3,900	8,530	11,105	11,183	10,673	9,968													
2011/12	23,923	34,253	39,927	39,455	39,045	37,644														
2012/13	6,925	12,000	29,150	39,255	61,465															
2013/14	1,560	7,155	6,400	5,575																
2014/15	7,000	8,225	8,630																	
2015/16	5,190	8,620																		
2016/17	450																			

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 1997/98																				
1998/99	11.900	1.129	0.874	0.976	0.943	0.984	0.972	0.855	0.842	1.000	1.000	1.000	1.268	1.000	1.000	1.000	1.176	1.075		
1999/00	1.666	1.384	1.236	1.052	1.010	0.866	1.148	0.991	0.820	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2000/01	0.897	1.041	1.101	0.977	2.436	0.741	1.000	0.936	0.796	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	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	1.000	1.000	0.992			
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	1.000	0.999					
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							
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								
2005/06	2.519	0.629	1.097	0.694	0.973	0.827	1.126	1.641	1.000	0.938	1.009									
2006/07	1.188	0.664	0.664	0.817	1.195	0.973	0.867	1.000	1.000	1.018										
2007/08	0.505	1.367	1.077	0.700	0.946	0.894	0.771	1.000	0.985											
2008/09	1.316	1.419	1.049	0.932	1.047	0.825	1.018	0.976												
2009/10	1.620	1.884	1.053	0.825	0.917	0.904	1.000													
2010/11	5.065	2.187	1.302	1.007	0.954	0.934														
2011/12	1.432	1.166	0.988	0.990	0.964															
2012/13	1.733	2.429	1.347	1.566																
2013/14	4.587	0.894	0.871																	
2014/15	1.175	1.049																		
2015/16	1.661																			
2016/17																				
Average																				
All	2.382	1.189	1.097	0.946	1.095	0.868	0.991	1.030	0.944	0.995	1.001	1.072	1.041	1.000	0.998	1.000	1.088	1.075		
Wtd 3	1.745	1.614	1.117	1.244	0.953	0.890	0.923	0.991	0.997	0.970	1.004	1.223	0.991	1.000	0.997	1.000				
Last 3	2.474	1.458	1.069	1.187	0.945	0.888	0.930	0.992	0.995	0.986	1.003	1.169	0.992	1.000	0.997	1.000				
Last 5	1.609	1.467	1.114	0.976	0.955	0.911	0.962	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
x-hi,low																				
Previous	1.600	1.250	1.100	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	1.600	1.250	1.100	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	
Cumulative	2.662	1.663	1.331	1.210	1.125	1.072	1.051	1.030	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Percent	37.6%	60.1%	75.1%	82.7%	88.9%	93.3%	95.2%	97.1%	99.0%	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 and is for Cermak, Stroger and Provident combined.

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

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 1997/98																				313
1998/99	9	40	43	46	47	48	48	48	48	48	48	48	48	48	48	48	48	48	52	
1999/00	12	32	37	39	40	40	40	40	40	40	40	40	40	40	40	40	40	48		
2000/01	76	94	102	103	103	103	103	103	103	103	103	103	103	103	103	103	107			
2001/02	99	129	132	132	132	132	132	132	132	132	132	132	132	132	132	118				
2002/03	87	99	99	99	99	99	99	99	99	99	99	99	99	99	111					
2003/04	89	129	129	129	129	129	129	129	129	129	129	129	129	161						
2004/05	95	95	95	95	95	95	95	95	95	95	95	95	121							
2005/06	82	92	92	92	92	92	92	92	92	92	92	101								
2006/07	55	60	60	60	60	60	60	60	60	73										
2007/08	31	42	42	42	42	42	42	42	42	51										
2008/09	31	33	33	33	33	33	33	33	46											
2009/10	32	32	34	34	34	34	34	51												
2010/11	31	37	37	37	37	37	59													
2011/12	35	36	37	37	37	56														
2012/13	40	41	43	43	65															
2013/14	33	34	34	42																
2014/15	29	31	43																	
2015/16	34	46																		
2016/17	12																			

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 1997/98																				
1998/99	4.444	1.075	1.070	1.022	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	1.083		
1999/00	2.667	1.156	1.054	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	1.200		
2000/01	1.237	1.085	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	1.039			
2001/02	1.303	1.023	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.894				
2002/03	1.138	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.121						
2003/04	1.449	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.248							
2004/05	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.274								
2005/06	1.122	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.098									
2006/07	1.091	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.217										
2007/08	1.355	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.214											
2008/09	1.065	1.000	1.000	1.000	1.000	1.000	1.000	1.394												
2009/10	1.000	1.063	1.000	1.000	1.000	1.000	1.500													
2010/11	1.194	1.000	1.000	1.000	1.000	1.595														
2011/12	1.029	1.028	1.000	1.000	1.514															
2012/13	1.025	1.049	1.000	1.512																
2013/14	1.030	1.000	1.235																	
2014/15	1.069	1.387																		
2015/16	1.353																			
2016/17																				
Average																				
All	1.421	1.051	1.023	1.037	1.038	1.046	1.042	1.036	1.021	1.024	1.012	1.039	1.041	1.024	0.973	1.013	1.100	1.083		
Wtd 3	1.156	1.132	1.070	1.188	1.176	1.212	1.156	1.096	1.046	1.053	1.028	1.080	1.089	1.036	0.949	1.021				
Last 3	1.151	1.145	1.078	1.171	1.198	1.167	1.131	1.071	1.072	1.033	1.091	1.083	1.040	0.965	1.013					
Last 5	1.043	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						
x-hi,low																				
Previous	1.175	1.030	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Selected	1.175	1.030	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Cumulative	1.222	1.040	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Percent	81.8%	96.1%	99.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	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 1997/98																					100.0%
1998/99	0.0%	0.0%	0.0%	0.0%	12.8%	36.8%	46.0%	58.1%	73.6%	100.0%	100.0%	100.0%	100.0%	78.8%	78.8%	78.8%	78.8%	100.0%	100.0%	100.0%	
1999/00	0.0%	46.7%	33.8%	38.8%	38.0%	50.8%	68.5%	81.1%	82.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2000/01	0.0%	0.0%	1.9%	6.2%	12.0%	20.8%	30.0%	30.0%	32.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
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%	
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%	
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%	
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%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
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%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2006/07	0.0%	0.1%	0.2%	0.5%	42.7%	35.7%	86.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
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%	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%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	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%														
2011/12	0.0%	58.7%	52.2%	61.8%	67.1%	91.1%															
2012/13	0.0%	7.1%	2.9%	5.9%	9.1%																
2013/14	0.0%	0.0%	0.0%	14.8%																	
2014/15	0.0%	0.3%	0.3%																		
2015/16	1.7%	30.0%																			
2016/17	0.0%																				
Average																					
All	0.1%	8.0%	8.3%	20.0%	41.6%	58.1%	75.1%	85.2%	84.4%	99.2%	99.8%	99.9%	95.2%	96.5%	95.8%	94.7%	92.9%	100.0%	100.0%	100.0%	
Last 3	0.6%	10.1%	1.1%	27.5%	39.9%	74.6%	72.4%	99.0%	100.0%	97.4%	99.3%	99.7%	88.8%	100.0%	100.0%	100.0%	92.9%	100.0%	100.0%	100.0%	
Last 5	0.0%	12.5%	1.1%	18.2%	44.4%	67.2%	75.4%	99.0%	98.3%	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	0.0%	0.0%	2.9%	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%	

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/17 (2)	Limited Paid Losses 11/30/17 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1997/98	240.0	\$200,901,357	100.0%	\$200,901,357
1998/99	228.0	15,380,000	100.0%	15,380,000
1999/00	216.0	33,190,000	100.0%	33,190,000
2000/01	204.0	10,411,000	100.0%	10,411,000
2001/02	192.0	23,647,540	100.0%	23,647,540
2002/03	180.0	4,268,500	100.0%	4,268,500
2003/04	168.0	8,377,500	100.0%	8,377,500
2004/05	156.0	19,606,850	100.0%	19,606,850
2005/06	144.0	22,575,000	100.0%	22,575,000
2006/07	132.0	4,750,000	98.0%	4,845,000
2007/08	120.0	7,002,000	94.3%	7,427,722
2008/09	108.0	7,905,000	89.8%	8,804,905
2009/10	96.0	9,092,500	80.2%	11,342,901
2010/11	84.0	5,465,000	67.9%	8,044,758
2011/12	72.0	32,468,999	56.6%	42,026,002 *
2012/13	60.0	5,400,000	28.3%	19,077,780
2013/14	48.0	400,000	10.9%	3,674,239
2014/15	36.0	25,000	2.2%	1,148,200
2015/16	24.0	90,000	0.0%	496,022,286
2016/17	12.0	0	0.0%	0
Total		\$410,956,246		\$940,771,541

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

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

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

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/17 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1997/98	240.0	\$200,901,357	100.0%	\$200,901,357
1998/99	228.0	15,380,000	100.0%	15,380,000
1999/00	216.0	33,190,000	100.0%	33,190,000
2000/01	204.0	10,411,000	100.0%	10,411,000
2001/02	192.0	23,647,540	100.0%	23,647,540
2002/03	180.0	4,268,500	100.0%	4,268,500
2003/04	168.0	8,377,500	100.0%	8,377,500
2004/05	156.0	29,606,850	100.0%	29,606,850
2005/06	144.0	22,825,000	100.0%	22,825,000
2006/07	132.0	4,850,000	100.0%	4,850,000
2007/08	120.0	7,002,000	100.0%	7,002,000
2008/09	108.0	7,905,000	99.0%	7,984,050
2009/10	96.0	9,092,500	97.1%	9,367,094
2010/11	84.0	9,965,000	95.2%	10,471,262
2011/12	72.0	35,568,999	93.3%	36,687,166 *
2012/13	60.0	58,775,000	88.9%	62,383,704 *
2013/14	48.0	5,150,000	82.7%	6,230,557
2014/15	36.0	5,575,000	75.1%	7,419,202
2015/16	24.0	3,620,000	60.1%	6,021,864
2016/17	12.0	375,000	37.6%	998,099
Total		\$496,486,246		\$508,022,745

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

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

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

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/17 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/17 (6)	Limited Case Reserves 11/30/17 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1997/98	240.0	100.0%	100.0%	100.0%	\$200,901,357	\$0	\$200,901,357
1998/99	228.0	100.0%	100.0%	100.0%	15,380,000	0	15,380,000
1999/00	216.0	100.0%	100.0%	100.0%	33,190,000	0	33,190,000
2000/01	204.0	100.0%	100.0%	100.0%	10,411,000	0	10,411,000
2001/02	192.0	100.0%	100.0%	100.0%	23,647,540	0	23,647,540
2002/03	180.0	100.0%	100.0%	100.0%	4,268,500	0	4,268,500
2003/04	168.0	100.0%	100.0%	100.0%	8,377,500	0	8,377,500
2004/05	156.0	100.0%	100.0%	100.0%	19,606,850	10,000,000	29,606,850
2005/06	144.0	100.0%	100.0%	100.0%	22,575,000	250,000	22,825,000
2006/07	132.0	98.0%	100.0%	100.0%	4,750,000	100,000	4,850,000
2007/08	120.0	94.3%	100.0%	100.0%	7,002,000	0	7,002,000
2008/09	108.0	89.8%	99.0%	90.3%	7,905,000	0	7,905,000
2009/10	96.0	80.2%	97.1%	85.2%	9,092,500	0	9,092,500
2010/11	84.0	67.9%	95.2%	84.9%	5,465,000	4,500,000	10,763,907
2011/12	72.0	56.6%	93.3%	84.6%	32,468,999	3,100,000	36,135,175
2012/13	60.0	28.3%	88.9%	84.5%	5,400,000	53,375,000	63,076,831 *
2013/14	48.0	10.9%	82.7%	80.5%	400,000	4,750,000	6,297,806
2014/15	36.0	2.2%	75.1%	74.6%	25,000	5,550,000	7,465,717
2015/16	24.0	0.0%	60.1%	60.1%	90,000	3,530,000	5,962,856
2016/17	12.0	0.0%	37.6%	37.6%	0	375,000	998,249
Total					\$410,956,246	\$85,530,000	\$508,157,789

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

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

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

Preliminary Projected Ultimate Limited Losses to 2016/17

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 1997/98	\$200,901,357	\$200,901,357	\$200,901,357	\$200,901,357
1998/99	15,380,000	15,380,000	15,380,000	15,380,000
1999/00	33,190,000	33,190,000	33,190,000	33,190,000
2000/01	10,411,000	10,411,000	10,411,000	10,411,000
2001/02	23,647,540	23,647,540	23,647,540	23,647,540
2002/03	4,268,500	4,268,500	4,268,500	4,268,500
2003/04	8,377,500	8,377,500	8,377,500	8,377,500
2004/05	19,606,850	29,606,850	29,606,850	30,606,850
2005/06	22,575,000	22,825,000	22,825,000	22,850,000
2006/07	4,845,000	4,850,000	4,850,000	4,860,000
2007/08	7,427,722	7,002,000	7,002,000	7,002,000
2008/09	8,804,905	7,984,050	7,905,000	7,905,000
2009/10	11,342,901	9,367,094	9,092,500	9,092,500
2010/11	8,044,758	10,471,262	10,763,907	10,705,378
2011/12	42,026,002	36,687,166	36,135,175	36,300,772
2012/13	19,077,780	62,383,704	63,076,831	64,112,500
2013/14	3,674,239	6,230,557	6,297,806	6,008,550
2014/15	1,148,200	7,419,202	7,465,717	6,183,608
2015/16	496,022,286	6,021,864	5,962,856	5,992,360
2016/17	0	998,099	998,249	998,174
Total	\$940,771,541	\$508,022,745	\$508,157,789	\$508,793,589

(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 (2017/18 = 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)
2007/08	\$7,002,000	1,942	\$3,606.06	1.495	\$5,391.23	\$4,953.21
2008/09	7,905,000	2,027	3,899.54	1.438	5,605.76	5,151.34
2009/10	9,092,500	1,884	4,825.15	1.347	6,498.49	5,498.45
2010/11	10,705,378	1,898	5,640.63	1.284	7,241.65	5,768.09
2011/12	36,300,772	1,898	19,126.77	1.234	23,611.19	5,998.81
2012/13	64,112,500	1,926	33,280.47	1.200	39,945.22	6,169.73
2013/14	6,008,550	1,926	3,119.01	1.158	3,612.67	6,393.36
2014/15	6,183,608	1,812	3,413.12	1.118	3,817.22	6,621.34
2015/16	5,992,360	1,871	3,202.68	1.082	3,464.02	6,846.59
2016/17	998,174	1,863	535.78	1.040	557.21	7,120.46

(7) Projected 2017/18 a-priori loss rate per Occupied Bed Equivalent \$7,405.28

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/17 (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)
2012/13	\$5,400,000	28.3%	\$6,169.73	1,926	\$8,521,321	\$13,921,321
2013/14	400,000	10.9%	6,393.36	1,926	10,975,531	11,375,531
2014/15	25,000	2.2%	6,621.34	1,812	11,734,803	11,759,803
2015/16	90,000	0.0%	6,846.59	1,871	12,807,976	12,897,976
2016/17	0	0.0%	7,120.46	1,863	13,264,514	13,264,514

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/17 (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)
2012/13	\$58,775,000	88.9%	\$6,169.73	1,926	\$1,324,475	\$60,099,475
2013/14	5,150,000	82.7%	6,393.36	1,926	2,136,011	7,286,011
2014/15	5,575,000	75.1%	6,621.34	1,812	2,981,862	8,556,862
2015/16	3,620,000	60.1%	6,846.59	1,871	5,109,481	8,729,481
2016/17	375,000	37.6%	7,120.46	1,863	8,281,598	8,656,598

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 11/30/17 (2)	Reported Claims 11/30/17 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2007/08	120.0	40	100.0%	40	1,942	0.02
2008/09	108.0	42	100.0%	42	2,027	0.02
2009/10	96.0	42	100.0%	42	1,884	0.02
2010/11	84.0	57	100.0%	57	1,898	0.03
2011/12	72.0	49	100.0%	49	1,898	0.03
2012/13	60.0	54	100.0%	54	1,926	0.03
2013/14	48.0	39	100.0%	39	1,926	0.02
2014/15	36.0	38	99.0%	38	1,812	0.02
2015/16	24.0	42	96.1%	44	1,871	0.02
2016/17	12.0	9	81.8%	11	1,863	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 (2017/18 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2017/18 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2007/08	\$7,002,000	40	\$175,050	1.495	\$261,708	\$207,956	\$8,318,245
2008/09	7,905,000	42	188,214	1.438	270,566	216,274	9,083,523
2009/10	9,092,500	42	216,488	1.347	291,565	230,847	9,695,594
2010/11	10,705,378	57	187,814	1.284	241,122	242,168	13,803,583
2011/12	36,300,772	49	740,832	1.234	914,526	251,855	12,340,887
2012/13	64,112,500	54	1,187,269	1.200	1,425,031	259,031	13,987,653
2013/14	6,008,550	39	154,065	1.158	178,450	268,420	10,468,371
2014/15	6,183,608	38	162,727	1.118	181,993	277,991	10,563,668
2015/16	5,992,360	44	136,190	1.082	147,303	287,448	12,647,727
2016/17	998,174	11	90,743	1.040	94,373	298,946	3,288,409
					(7) Projected 2017/18 average claim severity	\$310,904	

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 2016/17

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 Incurred Losses (6)	Frequency Times Severity (7)	Prior Projected Ultimate Limited Losses (8)	Projected Ultimate Limited Losses (9)
to 1997/98	\$200,901,357	\$200,901,357	\$200,901,357				\$197,677,118	\$200,901,357
1998/99	15,380,000	15,380,000	15,380,000				15,380,000	15,380,000
1999/00	33,190,000	33,190,000	33,190,000				33,190,000	33,190,000
2000/01	10,411,000	10,411,000	10,411,000				10,411,000	10,411,000
2001/02	23,647,540	23,647,540	23,647,540				23,647,540	23,647,540
2002/03	4,268,500	4,268,500	4,268,500				4,268,500	4,268,500
2003/04	8,377,500	8,377,500	8,377,500				8,377,500	8,377,500
2004/05	19,606,850	29,606,850	29,606,850				19,606,850	30,607,000
2005/06	22,575,000	22,825,000	22,825,000				22,575,000	22,850,000
2006/07	4,845,000	4,850,000	4,850,000				4,750,000	4,860,000
2007/08	7,427,722	7,002,000	7,002,000				7,002,000	7,002,000
2008/09	8,804,905	7,984,050	7,905,000				9,000,000	7,905,000
2009/10	11,342,901	9,367,094	9,092,500				10,000,000	9,092,500
2010/11	8,044,758	10,471,262	10,763,907				12,000,000	10,710,000
2011/12	42,026,002	36,687,166	36,135,175				40,000,000	36,750,000
2012/13	19,077,780	62,383,704	63,076,831	13,921,321	60,099,475	13,987,653	42,000,000	62,500,000
2013/14	3,674,239	6,230,557	6,297,806	11,375,531	7,286,011	10,468,371	12,500,000	9,000,000
2014/15	1,148,200	7,419,202	7,465,717	11,759,803	8,556,862	10,563,668	16,000,000	12,000,000
2015/16	496,022,286	6,021,864	5,962,856	12,897,976	8,729,481	12,647,727	15,000,000	12,500,000
2016/17	0	998,099	998,249	13,264,514	8,656,598	3,288,409	19,710,000	13,000,000
Total	\$940,771,541	\$508,022,745	\$508,157,789				\$523,095,508	\$534,952,397
2012/13 - 2016/17	519,922,505	83,053,426	83,801,459	63,219,146	93,328,427	50,955,828	105,210,000	109,000,000
to 2011/12	420,849,036	424,969,319	424,356,330				417,885,508	425,952,397
						Change		
						All years		\$11,856,889
						2012/13 - 2016/17		3,790,000
						to 2011/12		8,066,889

- (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 2017/18 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 (2017/18 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2007/08	\$7,002,000	1,942	\$3,606.06	1.495	\$5,391.23
2008/09	7,905,000	2,027	3,899.54	1.438	5,605.76
2009/10	9,092,500	1,884	4,825.15	1.347	6,498.49
2010/11	10,710,000	1,898	5,643.07	1.284	7,244.77
2011/12	36,750,000	1,898	19,363.47	1.234	23,903.38
2012/13	62,500,000	1,926	32,443.43	1.200	38,940.56
2013/14	9,000,000	1,926	4,671.85	1.158	5,411.30
2014/15	12,000,000	1,812	6,623.55	1.118	7,407.75
2015/16	12,500,000	1,871	6,680.75	1.082	7,225.90
2016/17	13,000,000	1,863	6,977.83	1.040	7,256.95
Total	\$180,459,500	19,048	\$9,474.05	Selected	\$11,488.61 \$8,287.52

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)
2017/18	\$8,287.52	1,863	\$15,440,000	0.89	\$7,377.42	\$13,740,000
2018/19	8,619.02	1,863	16,060,000	0.89	7,672.52	14,290,000
2019/20	8,963.78	1,863	16,700,000	0.89	7,979.42	14,870,000

(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) 2017/18 is based on (6) and actuarial judgment.
 Other period(s) based on 2017/18 plus a 4% trend.

(8) to 2017/18 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit MM-Stroger-2.

Estimated Outstanding Losses as of November 30, 2017

Claim Period (1)	Limited Paid Losses 11/30/17 (2)	Limited Case Reserves 11/30/17 (3)	Limited Reported Incurred Losses 11/30/17 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/17 (5)-(4) (6)	Estimated Outstanding Losses 11/30/17 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/17 (7)X(8) (9)
to 1997/98	\$200,901,357	\$0	\$200,901,357	\$200,901,357	\$0	\$0	1.00	\$0
1998/99	15,380,000	0	15,380,000	15,380,000	0	0	1.00	0
1999/00	33,190,000	0	33,190,000	33,190,000	0	0	1.00	0
2000/01	10,411,000	0	10,411,000	10,411,000	0	0	1.00	0
2001/02	23,647,540	0	23,647,540	23,647,540	0	0	1.00	0
2002/03	4,268,500	0	4,268,500	4,268,500	0	0	1.00	0
2003/04	8,377,500	0	8,377,500	8,377,500	0	0	1.00	0
2004/05	19,606,850	10,000,000	29,606,850	30,607,000	1,000,150	11,000,150	1.00	11,000,150
2005/06	22,575,000	250,000	22,825,000	22,850,000	25,000	275,000	1.00	275,000
2006/07	4,750,000	100,000	4,850,000	4,860,000	10,000	110,000	0.99	108,970
2007/08	7,002,000	0	7,002,000	7,002,000	0	0	0.98	0
2008/09	7,905,000	0	7,905,000	7,905,000	0	0	0.98	0
2009/10	9,092,500	0	9,092,500	9,092,500	0	0	0.97	0
2010/11	5,465,000	4,500,000	9,965,000	10,710,000	745,000	5,245,000	0.97	5,083,356
2011/12	32,468,999	3,100,000	35,568,999	36,750,000	1,181,001	4,281,001	0.96	4,115,854
2012/13	5,400,000	53,375,000	58,775,000	62,500,000	3,725,000	57,100,000	0.96	54,936,275
2013/14	400,000	4,750,000	5,150,000	9,000,000	3,850,000	8,600,000	0.95	8,197,948
2014/15	25,000	5,550,000	5,575,000	12,000,000	6,425,000	11,975,000	0.94	11,261,128
2015/16	90,000	3,530,000	3,620,000	12,500,000	8,880,000	12,410,000	0.92	11,470,762
2016/17	0	375,000	375,000	13,000,000	12,625,000	13,000,000	0.91	11,792,158
Total	\$410,956,246	\$85,530,000	\$496,486,246	\$534,952,397	\$38,466,151	\$123,996,151		\$118,241,601

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

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

(8) is based on a 1.9% 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, 2017 to November 30, 2018

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Months of Development 11/30/18 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/17 to 11/30/18 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/17 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/18 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/18 (9)X(10) (11)
to 1997/98	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	156.0	100.0%	168.0	100.0%	100.0%	11,000,150	11,000,150	0	1.00	0
2005/06	144.0	100.0%	156.0	100.0%	100.0%	275,000	275,000	0	1.00	0
2006/07	132.0	98.0%	144.0	100.0%	100.0%	110,000	110,000	0	1.00	0
2007/08	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2008/09	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.98	0
2009/10	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2010/11	84.0	67.9%	96.0	80.2%	38.1%	5,245,000	1,999,996	3,245,004	0.97	3,161,033
2011/12	72.0	56.6%	84.0	67.9%	26.1%	4,281,001	1,117,082	3,163,919	0.97	3,066,411
2012/13	60.0	28.3%	72.0	56.6%	39.5%	57,100,000	10,699,104	46,400,896	0.96	44,610,906
2013/14	48.0	10.9%	60.0	28.3%	19.5%	8,600,000	1,681,001	6,918,999	0.96	6,656,813
2014/15	36.0	2.2%	48.0	10.9%	8.9%	11,975,000	1,066,151	10,908,849	0.95	10,398,857
2015/16	24.0	0.0%	36.0	2.2%	2.2%	12,410,000	268,003	12,141,997	0.94	11,418,169
2016/17	12.0	0.0%	24.0	0.0%	0.0%	13,000,000	1,179	12,998,821	0.92	12,015,019
2017/18	0.0	0.0%	12.0	0.0%	0.0%	15,440,000	1,401	15,438,599	0.91	14,004,184
Total						\$139,436,151	\$28,219,067	\$111,217,084		\$105,331,392

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

(7) to 2016/17 is from Exhibit MM-Stroger-11. The amount for 2017/18 is from Exhibit MM-Stroger-10.

(8) assumes that no payments are made on a large 2012/13 claim while on appeal.

(10) is based on a 1.9% 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, 2018 to November 30, 2019

Claim Period (1)	Months of Development 11/30/18 (2)	Percent Losses Paid (3)	Months of Development 11/30/19 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/18 to 11/30/19 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/18 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/19 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/19 (9)X(10) (11)
to 1997/98	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2009/10	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.98	0
2010/11	96.0	80.2%	108.0	89.8%	48.5%	3,245,004	1,573,330	1,671,674	0.98	1,632,887
2011/12	84.0	67.9%	96.0	80.2%	38.1%	3,163,919	1,206,449	1,957,470	0.97	1,906,817
2012/13	72.0	56.6%	84.0	67.9%	26.1%	46,400,896	12,107,828	34,293,068	0.97	33,236,202
2013/14	60.0	28.3%	72.0	56.6%	39.5%	6,918,999	2,731,627	4,187,372	0.96	4,025,837
2014/15	48.0	10.9%	60.0	28.3%	19.5%	10,908,849	2,132,301	8,776,548	0.96	8,443,973
2015/16	36.0	2.2%	48.0	10.9%	8.9%	12,141,997	1,081,019	11,060,978	0.95	10,543,874
2016/17	24.0	0.0%	36.0	2.2%	2.2%	12,998,821	280,719	12,718,102	0.94	11,959,931
2017/18	12.0	0.0%	24.0	0.0%	0.0%	15,438,599	1,401	15,437,198	0.92	14,268,849
2018/19	0.0	0.0%	12.0	0.0%	0.0%	16,060,000	1,457	16,058,543	0.91	14,566,529
Total						\$127,277,084	\$21,116,131	\$106,160,953		\$100,584,899

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

(7) to 2017/18 is from Exhibit MM-Stroger-12, (9). The amount for 2018/19 is from Exhibit MM-Stroger-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit MM-Stroger-2.

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

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1997/98	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2010/11	108.0	89.8%	120.0	94.3%	43.9%	1,671,674	734,221	937,453	0.98	922,748
2011/12	96.0	80.2%	108.0	89.8%	48.5%	1,957,470	949,073	1,008,397	0.98	985,000
2012/13	84.0	67.9%	96.0	80.2%	38.1%	34,293,068	13,076,454	21,216,614	0.97	20,667,594
2013/14	72.0	56.6%	84.0	67.9%	26.1%	4,187,372	1,092,651	3,094,721	0.97	2,999,346
2014/15	60.0	28.3%	72.0	56.6%	39.5%	8,776,548	3,464,989	5,311,559	0.96	5,106,657
2015/16	48.0	10.9%	60.0	28.3%	19.5%	11,060,978	2,162,037	8,898,941	0.96	8,561,728
2016/17	36.0	2.2%	48.0	10.9%	8.9%	12,718,102	1,132,310	11,585,792	0.95	11,044,153
2017/18	24.0	0.0%	36.0	2.2%	2.2%	15,437,198	333,377	15,103,821	0.94	14,203,428
2018/19	12.0	0.0%	24.0	0.0%	0.0%	16,058,543	1,457	16,057,086	0.92	14,841,822
2019/20	0.0	0.0%	12.0	0.0%	0.0%	16,700,000	1,515	16,698,485	0.91	15,147,013
Total						\$122,860,953	\$22,948,084	\$99,912,869		\$94,479,489

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

(7) to 2018/19 is from Exhibit MM-Stroger-13, (9). The amount for 2019/20 is from Exhibit MM-Stroger-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit MM-Stroger-2.

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

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/17 (5)	Unlimited Case Reserves 11/30/17 (6)	Unlimited Reported Incurred Losses 11/30/17 (7)
94000155	8/23/1972	to 1997/98	Unlimited	\$2,514,239	\$0	\$2,514,239
97009089	5/9/1976	to 1997/98	Unlimited	5,000,000	0	5,000,000
94000244	8/4/1979	to 1997/98	Unlimited	3,000,000	0	3,000,000
94000027	2/18/1984	to 1997/98	Unlimited	3,000,000	0	3,000,000
94000325	10/31/1985	to 1997/98	Unlimited	9,750,000	0	9,750,000
94000164	8/17/1986	to 1997/98	Unlimited	6,750,000	0	6,750,000
94000082	9/10/1986	to 1997/98	Unlimited	1,656,477	0	1,656,477
94000312	1/27/1987	to 1997/98	Unlimited	1,000,000	0	1,000,000
94000192	3/6/1988	to 1997/98	Unlimited	5,250,000	0	5,250,000
97005676	1/21/1990	to 1997/98	Unlimited	6,500,000	0	6,500,000
94000032	1/31/1990	to 1997/98	Unlimited	1,450,000	0	1,450,000
94000221	4/12/1990	to 1997/98	Unlimited	3,000,000	0	3,000,000
94000123	9/5/1990	to 1997/98	Unlimited	1,750,000	0	1,750,000
94000045	12/27/1990	to 1997/98	Unlimited	1,875,000	0	1,875,000
94000081	5/5/1991	to 1997/98	Unlimited	3,600,000	0	3,600,000
97001530	1/1/1993	to 1997/98	Unlimited	6,000,000	0	6,000,000
94000196	5/19/1993	to 1997/98	Unlimited	7,400,000	0	7,400,000
94000168	5/25/1993	to 1997/98	Unlimited	1,500,000	0	1,500,000
94000200	6/19/1993	to 1997/98	Unlimited	3,600,000	0	3,600,000
94000215	6/23/1993	to 1997/98	Unlimited	1,850,000	0	1,850,000
94000166	6/30/1993	to 1997/98	Unlimited	1,500,000	0	1,500,000
94000047	7/18/1993	to 1997/98	Unlimited	15,000,000	0	15,000,000
94000203	8/21/1993	to 1997/98	Unlimited	2,000,000	0	2,000,000
94000217	9/15/1993	to 1997/98	Unlimited	2,000,000	0	2,000,000
94000197	9/24/1993	to 1997/98	Unlimited	5,000,000	0	5,000,000
94000216	10/16/1993	to 1997/98	Unlimited	2,500,000	0	2,500,000
94000210	12/28/1993	to 1997/98	Unlimited	1,500,000	0	1,500,000
94000193	2/9/1994	to 1997/98	Unlimited	2,000,000	0	2,000,000
94000252	6/22/1994	to 1997/98	Unlimited	2,000,000	0	2,000,000
94000275	10/8/1994	to 1997/98	Unlimited	1,000,000	0	1,000,000
94000278	1/26/1995	to 1997/98	Unlimited	2,800,000	0	2,800,000
94000306	7/19/1995	to 1997/98	Unlimited	3,000,000	0	3,000,000
94000333	7/27/1995	to 1997/98	Unlimited	3,000,000	0	3,000,000
94000290	8/3/1995	to 1997/98	Unlimited	1,350,000	0	1,350,000
94000291	8/16/1995	to 1997/98	Unlimited	3,500,000	0	3,500,000
97003948	1/1/1996	to 1997/98	Unlimited	5,200,000	0	5,200,000
94000311	1/16/1996	to 1997/98	Unlimited	1,000,000	0	1,000,000
94000319	3/5/1996	to 1997/98	Unlimited	2,430,979	0	2,430,979
97001646	6/26/1996	to 1997/98	Unlimited	1,750,000	0	1,750,000
97004522	11/25/1996	to 1997/98	Unlimited	1,500,000	0	1,500,000
97002438	10/21/1997	to 1997/98	Unlimited	6,750,000	0	6,750,000
97002235	11/23/1997	to 1997/98	Unlimited	1,100,000	0	1,100,000
97002578	12/12/1997	to 1997/98	Unlimited	3,500,000	0	3,500,000
97002232	4/9/1998	to 1997/98	Unlimited	19,250,000	0	19,250,000
97004204	8/28/1998	to 1997/98	Unlimited	1,500,000	0	1,500,000
97002721	10/18/1998	to 1997/98	Unlimited	1,500,000	0	1,500,000
97009808	5/4/1999	1998/99	Unlimited	5,500,000	0	5,500,000
97002733	5/5/1999	1998/99	Unlimited	2,000,000	0	2,000,000
97003168	10/19/1999	1998/99	Unlimited	3,000,000	0	3,000,000
97003099	12/8/1999	1999/00	Unlimited	4,000,000	0	4,000,000
97003142	1/3/2000	1999/00	Unlimited	12,000,000	0	12,000,000
97003171	1/5/2000	1999/00	Unlimited	1,250,000	0	1,250,000
97003311	5/31/2000	1999/00	Unlimited	10,000,000	0	10,000,000
97003790	10/17/2000	1999/00	Unlimited	1,250,000	0	1,250,000
97003837	11/22/2000	1999/00	Unlimited	2,100,000	0	2,100,000
97003451	3/6/2001	2000/01	10,000,000	7,000,000	0	7,000,000
97003672	7/20/2001	2000/01	10,000,000	1,100,000	0	1,100,000
97004134	9/9/2002	2001/02	15,000,000	12,000,000	0	12,000,000
97004269	9/20/2002	2001/02	15,000,000	9,000,000	0	9,000,000
97004515	11/29/2002	2001/02	15,000,000	1,350,000	0	1,350,000
97004537	4/21/2003	2002/03	20,000,000	1,200,000	0	1,200,000
97005041	7/21/2003	2002/03	20,000,000	1,500,000	0	1,500,000
97004808	12/19/2003	2003/04	20,000,000	3,750,000	0	3,750,000
97005973	1/5/2004	2003/04	20,000,000	1,450,000	0	1,450,000
97005705	3/4/2005	2004/05	20,000,000	4,500,000	0	4,500,000
97005615	4/22/2005	2004/05	20,000,000	1,000,000	0	1,000,000
97006373	5/13/2005	2004/05	20,000,000	2,000,000	0	2,000,000
97005709	8/2/2005	2004/05	20,000,000	0	10,000,000	10,000,000
97005712	8/12/2005	2004/05	20,000,000	9,800,000	0	9,800,000
97009247	8/8/2006	2005/06	20,000,000	12,000,000	0	12,000,000
97006800	9/15/2006	2005/06	20,000,000	6,250,000	0	6,250,000
97006263	9/23/2006	2005/06	20,000,000	1,200,000	0	1,200,000
97006482	10/21/2006	2005/06	20,000,000	1,250,000	0	1,250,000
97007988	3/1/2007	2006/07	20,000,000	1,750,000	0	1,750,000

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 11/30/17 (5)	Unlimited Case Reserves 11/30/17 (6)	Unlimited Reported Incurred Losses 11/30/17 (7)
97008116	10/3/2007	2006/07	20,000,000	1,000,000	0	1,000,000
97007247	10/19/2007	2006/07	20,000,000	1,700,000	0	1,700,000
97007071	1/18/2008	2007/08	20,000,000	2,400,000	0	2,400,000
97007276	5/30/2008	2007/08	20,000,000	2,050,000	0	2,050,000
97007510	10/11/2008	2007/08	20,000,000	2,500,000	0	2,500,000
97008908	1/10/2009	2008/09	20,000,000	3,000,000	0	3,000,000
97008090	4/6/2009	2008/09	20,000,000	2,250,000	0	2,250,000
97008088	6/21/2009	2008/09	20,000,000	1,250,000	0	1,250,000
97009127	6/16/2010	2009/10	40,000,000	1,337,500	0	1,337,500
97009609	6/21/2010	2009/10	40,000,000	2,250,000	0	2,250,000
97008821	9/1/2010	2009/10	40,000,000	1,700,000	0	1,700,000
97008751	10/5/2010	2009/10	40,000,000	3,000,000	0	3,000,000
97009478	12/19/2010	2010/11	40,000,000	2,400,000	0	2,400,000
97009939	3/20/2011	2010/11	40,000,000	1,400,000	0	1,400,000
97009208	9/29/2011	2010/11	40,000,000	0	4,500,000	4,500,000
97009296	12/2/2011	2011/12	20,000,000	20,000,000 *	0	20,000,000 *
97009816	12/24/2011	2011/12	40,000,000	1,300,000	0	1,300,000
97009427	2/5/2012	2011/12	40,000,000	1,500,000	0	1,500,000
97009447	2/28/2012	2011/12	40,000,000	0	2,000,000	2,000,000
97009531	5/7/2012	2011/12	40,000,000	3,000,000	0	3,000,000
97009669	6/25/2012	2011/12	40,000,000	5,000,000	0	5,000,000
97011081	12/26/2012	2012/13	40,000,000	0	2,000,000	2,000,000
97010090	3/4/2013	2012/13	30,000,000	0	1,000,000	1,000,000
97011195	4/11/2013	2012/13	30,000,000	3,000,000	0	3,000,000
97011908	4/11/2013	2012/13	30,000,000	0	1,000,000	1,000,000
97010444	4/19/2013	2012/13	30,000,000	0	1,000,000	1,000,000
97012020	5/9/2013	2012/13	30,000,000	0	3,000,000	3,000,000
97011271	7/12/2013	2012/13	30,000,000	0	30,000,000 *	30,000,000 *
97012456	9/5/2013	2012/13	30,000,000	0	5,000,000	5,000,000
97012455	10/5/2013	2012/13	30,000,000	0	1,500,000	1,500,000
97012538	11/15/2013	2012/13	30,000,000	0	1,500,000	1,500,000
97012545	11/15/2013	2012/13	30,000,000	0	1,000,000	1,000,000
97010481	11/28/2013	2012/13	30,000,000	0	5,000,000	5,000,000
97011291	9/1/2014	2013/14	30,000,000	0	2,000,000	2,000,000
97012405	9/14/2015	2014/15	25,000,000	0	2,500,000	2,500,000
201503323	9/29/2015	2014/15	25,000,000	0	1,000,000	1,000,000
97012520	11/4/2015	2014/15	25,000,000	0	1,250,000	1,250,000
97012831	1/25/2016	2015/16	25,000,000	0	1,500,000	1,500,000

Amounts are gross of excess insurance.

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

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

Size of Loss Distribution

I. Reported Claim Count

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	883	34	29	31	3	1	981		
0.01 - 5,000	8	0	0	0	1	0	9	9	2.3%
5,000 - 10,000	19	0	0	0	0	0	19	28	7.1%
10,000 - 25,000	12	1	0	1	3	3	20	48	12.1%
25,000 - 50,000	23	1	2	0	26	4	56	104	26.3%
50,000 - 100,000	30	1	3	1	8	1	44	148	37.4%
100,000 - 250,000	45	0	0	1	0	0	46	194	49.0%
250,000 - 500,000	41	1	1	1	0	0	44	238	60.1%
500,000 - 750,000	23	2	1	0	0	0	26	264	66.7%
750,000 - 1,000,000	21	6	2	1	0	0	30	294	74.2%
Over 1,000,000	90	8	1	2	1	0	102	396	100.0%
Total	1,195	54	39	38	42	9	1,377	396	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (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	19,940	0	0	0	5,000	0	24,940	24,940	0.0%
5,000 - 10,000	167,500	0	0	0	0	0	167,500	192,440	0.0%
10,000 - 25,000	246,200	25,000	0	25,000	75,000	75,000	446,200	638,640	0.1%
25,000 - 50,000	1,012,500	50,000	100,000	0	1,300,000	200,000	2,662,500	3,301,140	0.7%
50,000 - 100,000	2,579,349	80,000	300,000	100,000	740,000	100,000	3,899,349	7,200,489	1.5%
100,000 - 250,000	8,108,000	0	0	200,000	0	0	8,308,000	15,508,489	3.1%
250,000 - 500,000	16,283,563	495,000	400,000	500,000	0	0	17,678,563	33,187,052	6.7%
500,000 - 750,000	16,150,000	1,300,000	750,000	0	0	0	18,200,000	51,387,052	10.4%
750,000 - 1,000,000	18,610,000	5,825,000	1,600,000	1,000,000	0	0	27,035,000	78,422,052	15.8%
Over 1,000,000	359,814,194	51,000,000	2,000,000	3,750,000	1,500,000	0	418,064,194	496,486,246	100.0%
Total	\$422,991,246	\$58,775,000	\$5,150,000	\$5,575,000	\$3,620,000	\$375,000	\$496,486,246	\$496,486,246	

Amounts are gross of excess insurance and 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)	Physicians (6)	Housestaff (7)	Occupied Bed Equivalents (8)
to 1997/98							
1998/99	367	148,324	480,902	87,850	365	541	2,090
1999/00	363	141,013	485,066	141,276	358	490	2,039
2000/01	360	136,073	481,095	269,485	381	465	2,104
2001/02	388	141,693	502,382	189,599	414	444	2,173
2002/03	345	150,271	498,328	172,516	400	457	2,119
2003/04	353	148,568	520,088	174,789	401	463	2,141
2004/05	352	141,500	511,426	173,667	397	461	2,112
2005/06	338	135,358	512,883	152,169	378	460	2,037
2006/07	317	128,643	415,673	136,033	355	450	1,900
2007/08	314	127,998	392,825	128,266	389	433	1,942
2008/09	313	155,000	432,529	143,627	389	446	2,027
2009/10	313	155,000	127,500	64,000	389	460	1,884
2010/11	313	131,000	127,500	64,000	420	455	1,898
2011/12	313	131,000	127,500	64,000	420	455	1,898
2012/13	302	137,000	175,000	64,000	433	433	1,926
2013/14	302	137,000	175,000	64,000	433	433	1,926
2014/15	281	116,583	153,407	43,077	420	420	1,812
2015/16	281	123,158	258,721	52,714	420	421	1,871
2016/17	281	122,537	252,642	50,027	420	417	1,863
2017/18	281	122,537	252,642	50,027	420	417	1,863

(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 2017. 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	2.100
Housestaff	0.800 (residents and interns)

Data Summary as of November 30, 2017
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Limited Paid Losses 11/30/17 (8)	Limited Case Reserves 11/30/17 (9)	Limited Reported Incurred Losses 11/30/17 (10)
to 1997/98	See Note	None	240.0	Not Provided	11	0	\$3,980,000	\$0	\$3,980,000
1998/99	Unlimited	None	228.0	348	0	0	0	0	0
1999/00	Unlimited	None	216.0	308	0	0	0	0	0
2000/01	10,000,000	None	204.0	290	3	0	0	0	0
2001/02	15,000,000	None	192.0	285	2	0	100,000	0	100,000
2002/03	20,000,000	None	180.0	296	3	0	1,050,000	0	1,050,000
2003/04	20,000,000	None	168.0	332	6	0	20,375,000	0	20,375,000
2004/05	20,000,000	None	156.0	338	7	0	1,900,000	0	1,900,000
2005/06	20,000,000	None	144.0	329	11	0	620,000	0	620,000
2006/07	20,000,000	None	132.0	299	5	0	0	0	0
2007/08	20,000,000	None	120.0	245	4	0	0	0	0
2008/09	20,000,000	None	108.0	296	2	0	175,000	0	175,000
2009/10	40,000,000	None	96.0	200	2	0	0	0	0
2010/11	40,000,000	None	84.0	210	2	1	0	500,000	500,000
2011/12	40,000,000	None	72.0	151	1	0	0	0	0
2012/13	30,000,000	None	60.0	47	0	0	0	0	0
2013/14	30,000,000	None	48.0	47	0	0	0	0	0
2014/15	25,000,000	None	36.0	19	0	0	0	0	0
2015/16	25,000,000	None	24.0	4	0	0	0	0	0
2016/17	25,000,000	None	12.0	17	0	0	0	0	0
Total					59	1	\$28,200,000	\$500,000	\$28,700,000

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

Effective Date	Retention
12/01/75	Unlimited
12/01/00	10,000,000
12/01/01	15,000,000
12/01/02	20,000,000
03/01/10	40,000,000
03/01/13	30,000,000
07/01/15	25,000,000

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

Data was provided by the County.

Data Summary as of November 30, 2017
 Gross Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Gross Unlimited Paid Losses 11/30/17 (8)	Gross Unlimited Case Reserves 11/30/17 (9)	Gross Unlimited Reported Incurred Losses 11/30/17 (10)
to 1997/98	Unlimited	None	240.0	Not Provided	11	0	\$3,980,000	\$0	\$3,980,000
1998/99	Unlimited	None	228.0	348	0	0	0	0	0
1999/00	Unlimited	None	216.0	308	0	0	0	0	0
2000/01	Unlimited	None	204.0	290	3	0	0	0	0
2001/02	Unlimited	None	192.0	285	2	0	100,000	0	100,000
2002/03	Unlimited	None	180.0	296	3	0	1,050,000	0	1,050,000
2003/04	Unlimited	None	168.0	332	6	0	20,375,000	0	20,375,000
2004/05	Unlimited	None	156.0	338	7	0	1,900,000	0	1,900,000
2005/06	Unlimited	None	144.0	329	11	0	620,000	0	620,000
2006/07	Unlimited	None	132.0	299	5	0	0	0	0
2007/08	Unlimited	None	120.0	245	4	0	0	0	0
2008/09	Unlimited	None	108.0	296	2	0	175,000	0	175,000
2009/10	Unlimited	None	96.0	200	2	0	0	0	0
2010/11	Unlimited	None	84.0	210	2	1	0	500,000	500,000
2011/12	Unlimited	None	72.0	151	1	0	0	0	0
2012/13	Unlimited	None	60.0	47	0	0	0	0	0
2013/14	Unlimited	None	48.0	47	0	0	0	0	0
2014/15	Unlimited	None	36.0	19	0	0	0	0	0
2015/16	Unlimited	None	24.0	4	0	0	0	0	0
2016/17	Unlimited	None	12.0	17	0	0	0	0	0
Total					59	1	\$28,200,000	\$500,000	\$28,700,000

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

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	98.0%	100.0%	100.0%
120.0	94.3%	100.0%	100.0%
108.0	89.8%	99.0%	100.0%
96.0	80.2%	97.1%	100.0%
84.0	67.9%	95.2%	100.0%
72.0	56.6%	93.3%	100.0%
60.0	28.3%	88.9%	100.0%
48.0	10.9%	82.7%	100.0%
36.0	2.2%	75.1%	99.0%
24.0	0.0%	60.1%	96.1%
12.0	0.0%	37.6%	81.8%

(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).

(6), (7) and (8) are interpolated, based on (2), (3) and (4), respectively.

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	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1997/98																					
1998/99	0	0	0	0	2,205	5,980	7,345	9,025	9,775	11,175	11,175	11,175	11,175	11,175	11,175	11,175	11,175	16,675	17,925	217,703	
1999/00	0	12,065	12,065	17,115	17,650	23,830	27,830	37,850	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	
2000/01	0	0	156	351	1,046	4,406	4,706	4,706	4,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	
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	24,648	11,706	37,925	37,925	37,925	
2002/03	10	12	1,260	3,248	4,488	4,488	4,888	4,986	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	11,706	11,706	11,706	11,706	
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	19,646	19,646	19,646	19,646	19,646	19,646	
2004/05	0	90	107	5,775	16,665	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	
2005/06	0	1	516	6,778	9,228	9,908	9,908	11,533	11,603	23,603	24,028	24,000	19,698	19,196	5,316	25,061	11,706	37,925	37,925	37,925	
2006/07	0	16	16	26	2,016	2,016	4,766	4,766	4,766	4,766	4,766	4,753	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	
2007/08	0	127	127	3,627	6,027	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	
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	
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	
2010/11	0	0	0	2,850	4,878	5,168	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	
2011/12	0	20,100	20,100	20,825	24,390	26,195	34,294	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468	
2012/13	0	850	850	0	5,690	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	
2013/14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2014/15	0	25	30	825	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2015/16	90	2,590	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2016/17	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	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 1997/98																					
1998/99					2,712	1,228	1,229	1,083	1,143	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,482	1,075			
1999/00		1,000	1,419	1,031	1,350	1,168	1,359	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	
2000/01			3,532	1,896	4,212	1,068	1,000	1,000	2,487	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2001/02	1,150	109,565	1,002	2,572	1,382	1,961	1,020	1,066	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			1,897	2,886	1,095	1,069	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	
2003/04		1,189	53,971	2,886	1,123	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2004/05		1032,000	1,023	12,837	1,361	1,074	1,164	1,006	1,053	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2005/06		1,000	1,621	77,246	1,000	2,364	1,000	1,000	2,034	1,018	0,999	0,999	0,977	0,999	0,999	0,999	0,999	0,999	0,999	0,999	
2006/07		1,000	28,953	1,639	1,398	1,000	1,000	1,000	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		1,000	1,290	1,000	1,364	1,170	1,582	1,006	1,000	0,985	0,997	0,999	0,977	0,999	0,999	0,999	0,999	0,999	0,999	0,999	
2008/09			3,302	1,074	1,059	1,073	1,000	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	
2009/10		1,036	1,171	1,172	1,074	1,058	1,000	1,006	1,000	0,997	0,999	0,999	0,977	0,999	0,999	0,999	0,999	0,999	0,999	0,999	
2010/11		1,000	2,741	2,399	1,309	1,058	1,000	1,006	1,000	0,997	0,999	0,999	0,977	0,999	0,999	0,999	0,999	0,999	0,999	0,999	
2011/12																					
2012/13																					
2013/14																					
2014/15																					
2015/16	28,778																				
2016/17																					
Average All	14,964	127,666	37,129	8,059	1,576	1,225	1,113	1,015	1,270	1,002	1,000	1,000	1,000	1,000	1,000	1,000	1,246	1,075			
Wtd 3	29,056	1,006	1,271	1,240	1,289	1,081	1,121	1,002	1,479	1,009	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Last 3			1,728	1,728	1,244	1,101	1,194	1,002	1,340	1,005	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Last 5			1,728	1,728	1,244	1,101	1,055	1,002	1,018	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
x-tiltlow																					
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	1,180	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	
Cumulative	11,022,717	5,511,359	45,928	9,186	3,533	1,766	1,472	1,248	1,114	1,061	1,020	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Percent	0.0%	0.0%	2.2%	10.9%	28.3%	56.6%	67.9%	80.2%	89.8%	94.3%	98.0%	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 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

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 1/9/97/98																						
1998/99	1,500	17,850	20,160	17,620	17,205	16,230	15,975	15,625	13,275	11,175	11,175	11,175	11,175	14,175	14,175	14,175	14,175	16,675	17,925	217,703		
1999/00	15,495	25,810	35,730	44,165	46,475	46,930	40,630	46,630	46,225	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925		
2000/01	8,668	7,778	8,093	8,911	8,706	21,206	15,706	15,706	14,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706		
2001/02	33,740	23,655	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	25,061	25,061	25,061	25,061	24,848		
2002/03	26,711	16,622	5,770	8,248	6,248	6,788	5,688	5,336	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316		
2003/04	28,331	39,505	26,840	38,771	29,756	20,246	20,246	20,146	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	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	19,715	19,715	19,715	19,715	19,715	19,715	19,715		
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	24,250	24,028	24,028	24,028	24,028	24,028	24,028	24,028		
2006/07	11,046	13,126	8,721	5,787	4,726	5,496	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726		
2007/08	24,827	12,544	17,152	18,477	12,927	10,927	10,927	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		
2008/09	5,235	6,890	9,775	10,255	9,555	10,005	10,005	8,255	8,255	8,255	8,255	8,255	8,255	8,255	8,255	8,255	8,255	8,255	8,255	8,255		
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	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203		
2010/11	7,770	3,900	8,530	11,105	11,183	9,968	9,968	9,968	9,968	9,968	9,968	9,968	9,968	9,968	9,968	9,968	9,968	9,968	9,968	9,968		
2011/12	23,923	34,253	39,927	39,455	39,045	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644		
2012/13	6,925	12,000	29,150	39,255	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465		
2013/14	1,560	7,155	6,400	5,575																		
2014/15	7,000	8,225	8,630																			
2015/16	5,190	8,620																				
2016/17	450																					

II. Limited Reported Incurred Loss Development

Claim Period	Months of Development:		
	12-24	24-36	36-48
to 1/9/97/98			
1998/99	11,900	1,129	0,874
1999/00	1,656	1,384	1,236
2000/01	0,897	1,041	1,010
2001/02	0,760	1,162	1,015
2002/03	0,600	0,360	0,823
2003/04	1,394	0,679	1,445
2004/05	2,861	0,771	1,157
2005/06	2,519	0,629	1,097
2006/07	1,188	0,664	0,664
2007/08	0,505	1,367	0,700
2008/09	1,316	1,419	1,049
2009/10	5,065	2,187	1,302
2010/11	1,432	1,166	0,988
2011/12	1,733	2,429	1,347
2012/13	1,175	1,049	0,871
2013/14			
2014/15			
2015/16			
2016/17			
Average All	2,382	1,189	1,097
Wtd 3	1,745	1,614	1,117
Last 3	2,474	1,458	1,069
Last 5	1,609	1,467	1,114
x-Hilow			
Previous	1,600	1,250	1,100
Selected	1,600	1,250	1,100
Cumulative	2,662	1,331	1,125
Percent	37.6%	60.1%	75.1%

Claim Period	Months of Development:																					
	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult											
to 1/9/97/98																						
1998/99	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
1999/00	0,842	0,855	0,842	0,855	0,842	0,855	0,842	0,855	0,842	0,855	0,842	0,855	0,842	0,855	0,842	0,855	0,842	0,855	0,842	0,855	0,842	
2000/01	0,891	0,891	0,891	0,891	0,891	0,891	0,891	0,891	0,891	0,891	0,891	0,891	0,891	0,891	0,891	0,891	0,891	0,891	0,891	0,891	0,891	
2001/02	0,796	0,796	0,796	0,796	0,796	0,796	0,796	0,796	0,796	0,796	0,796	0,796	0,796	0,796	0,796	0,796	0,796	0,796	0,796	0,796	0,796	
2002/03	0,962	0,962	0,962	0,962	0,962	0,962	0,962	0,962	0,962	0,962	0,962	0,962	0,962	0,962	0,962	0,962	0,962	0,962	0,962	0,962	0,962	
2003/04	0,938	0,938	0,938	0,938	0,938	0,938	0,938	0,938	0,938	0,938	0,938	0,938	0,938	0,938	0,938	0,938	0,938	0,938	0,938	0,938	0,938	
2004/05	0,975	0,975	0,975	0,975	0,975	0,975	0,975	0,975	0,975	0,975	0,975	0,975	0,975	0,975	0,975	0,975	0,975	0,975	0,975	0,975	0,975	
2005/06	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	0,985	0,985	0,985	0,985	0,985	0,985	0,985	0,985	0,985	0,985	0,985	0,985	0,985	0,985	0,985	0,985	0,985	0,985	0,985	0,985	0,985	
2009/10	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	
2010/11	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	
2011/12	0,868	0,868	0,868	0,868	0,868	0,868	0,868	0,868	0,868	0,868	0,868	0,868	0,868	0,868	0,868	0,868	0,868	0,868	0,868	0,868	0,868	
2012/13	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	
2013/14	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	0,984	
2014/15	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	0,976	
2015/16	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	
2016/17	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	
Previous	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	
Selected	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	
Cumulative	1,210	1,125	1,072	1,072	1,051	1,030	1,030	1,030	1,030	1,030	1,030	1,030	1,030	1,030	1,030	1,030	1,030	1,030	1,030	1,030	1,030	
Percent	82.7%	60.1%	75.1%	82.7%	88.9%	93.3%	95.2%	97.1%	99.0%	99.0%	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 and is for Cermak, Stroger and Provident combined.

COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER
 Historical Reported Claims and Reported Claim Development

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 1997/98																					
1998/99	9	40	43	46	47	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	313
1999/00	12	32	37	39	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	52
2000/01	76	94	102	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	48
2001/02	99	129	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	48
2002/03	87	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	48
2003/04	89	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	48
2004/05	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	48
2005/06	82	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	48
2006/07	55	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	48
2007/08	31	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	48
2008/09	31	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	48
2009/10	32	32	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	48
2010/11	31	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	48
2011/12	35	36	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	48
2012/13	40	41	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	48
2013/14	33	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	48
2014/15	29	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	48
2015/16	34	46																			48
2016/17	12																				48

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 1997/98																					
1998/99	4,444	1,075	1,070	1,022	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	1,083	
1999/00	2,667	1,156	1,054	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	1,000	
2000/01	1,237	1,085	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2001/02	1,303	1,023	1,000	1,000	1,000	1,000	1,000	1,000	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	1,138	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,449	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,000	1,000	1,000	1,000	1,000	1,000	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	1,122	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,091	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,355	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,065	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,063	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2010/11	1,029	1,028	1,000	1,000	1,000	1,000	1,000	1,000	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	1,025	1,049	1,000	1,000	1,000	1,000	1,000	1,000	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	1,030	1,000	1,235	1,512	1,514	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	
2013/14	1,030	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,069	1,387																			
2015/16	1,353																				
2016/17																					
Average All	1,421	1,051	1,023	1,037	1,038	1,046	1,042	1,036	1,021	1,024	1,012	1,039	1,041	1,024	0,973	1,013	1,100	1,000	1,000	1,000	
Wtd 3	1,156	1,132	1,070	1,188	1,176	1,212	1,156	1,096	1,046	1,053	1,028	1,090	1,089	1,036	0,949	1,021	1,100	1,000	1,000	1,000	
Last 3	1,151	1,146	1,078	1,171	1,171	1,198	1,167	1,131	1,071	1,072	1,033	1,091	1,083	1,040	0,965	1,013	1,100	1,000	1,000	1,000	
Last 5 x-til low	1,043	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	1,000	1,000	1,000	
Previous	1,175	1,030	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Selected	1,175	1,030	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Cumulative	1,222	1,040	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Percent	81.8%	96.1%	99.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	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 1/09/08																					
1999/09	0.0%	0.0%	0.0%	0.0%	12.8%	36.8%	46.0%	58.1%	73.6%	100.0%	100.0%	100.0%	100.0%	78.8%	78.8%	78.8%	78.8%	100.0%	100.0%	100.0%	100.0%
1999/00	0.0%	46.7%	33.8%	38.8%	38.0%	50.8%	68.5%	81.1%	82.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2000/01	0.0%	0.0%	1.9%	6.2%	12.0%	20.8%	30.0%	30.0%	32.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2001/02	0.0%	0.0%	0.1%	37.8%	49.1%	51.3%	56.9%	56.2%	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%	0.0%	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%	98.1%	100.0%	94.9%	94.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2005/06	0.0%	0.0%	2.3%	0.0%	39.3%	55.1%	71.5%	73.9%	45.3%	92.2%	100.0%	100.0%	100.0%	66.3%	66.3%	66.3%	66.3%	66.3%	66.3%	66.3%	66.3%
2006/07	0.0%	0.0%	0.2%	0.5%	42.7%	35.7%	86.7%	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%
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%	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%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	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%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%
2011/12	0.0%	58.7%	52.2%	61.8%	67.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%
2012/13	0.0%	7.1%	2.9%	14.8%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%
2013/14	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2014/15	0.0%	0.3%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2015/16	1.7%	30.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2016/17	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Average																					
All	0.1%	8.0%	8.3%	20.0%	41.6%	58.1%	75.1%	85.2%	84.4%	99.2%	99.8%	99.9%	95.2%	96.5%	95.8%	94.7%	92.9%	100.0%	100.0%	100.0%	100.0%
Last 3	0.6%	10.1%	1.1%	27.5%	39.9%	74.6%	72.4%	99.0%	100.0%	97.4%	99.3%	99.7%	88.8%	100.0%	100.0%	100.0%	92.9%	100.0%	100.0%	100.0%	100.0%
Last 5	0.0%	12.5%	1.1%	18.2%	44.4%	67.2%	75.4%	99.0%	98.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
x-high																					
Implicit	0.0%	0.0%	2.9%	13.2%	31.9%	60.7%	71.4%	82.6%	90.7%	94.3%	95.0%	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 11/30/17 (2)	Limited Paid Losses 11/30/17 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1997/98	240.0	\$3,980,000	100.0%	\$3,980,000
1998/99	228.0	0	100.0%	0
1999/00	216.0	0	100.0%	0
2000/01	204.0	0	100.0%	0
2001/02	192.0	100,000	100.0%	100,000
2002/03	180.0	1,050,000	100.0%	1,050,000
2003/04	168.0	20,375,000	100.0%	20,375,000
2004/05	156.0	1,900,000	100.0%	1,900,000
2005/06	144.0	620,000	100.0%	620,000
2006/07	132.0	0	98.0%	0
2007/08	120.0	0	94.3%	0
2008/09	108.0	175,000	89.8%	194,922
2009/10	96.0	0	80.2%	0
2010/11	84.0	0	67.9%	0
2011/12	72.0	0	56.6%	0
2012/13	60.0	0	28.3%	0
2013/14	48.0	0	10.9%	0
2014/15	36.0	0	2.2%	0
2015/16	24.0	0	0.0%	0
2016/17	12.0	0	0.0%	0
Total		\$28,200,000		\$28,219,922

(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 11/30/17 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1997/98	240.0	\$3,980,000	100.0%	\$3,980,000
1998/99	228.0	0	100.0%	0
1999/00	216.0	0	100.0%	0
2000/01	204.0	0	100.0%	0
2001/02	192.0	100,000	100.0%	100,000
2002/03	180.0	1,050,000	100.0%	1,050,000
2003/04	168.0	20,375,000	100.0%	20,375,000
2004/05	156.0	1,900,000	100.0%	1,900,000
2005/06	144.0	620,000	100.0%	620,000
2006/07	132.0	0	100.0%	0
2007/08	120.0	0	100.0%	0
2008/09	108.0	175,000	99.0%	176,750
2009/10	96.0	0	97.1%	0
2010/11	84.0	500,000	95.2%	525,402
2011/12	72.0	0	93.3%	0
2012/13	60.0	0	88.9%	0
2013/14	48.0	0	82.7%	0
2014/15	36.0	0	75.1%	0
2015/16	24.0	0	60.1%	0
2016/17	12.0	0	37.6%	0
Total		\$28,700,000		\$28,727,152

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

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

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/17 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/17 (6)	Limited Case Reserves 11/30/17 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1997/98	240.0	100.0%	100.0%	100.0%	\$3,980,000	\$0	\$3,980,000
1998/99	228.0	100.0%	100.0%	100.0%	0	0	0
1999/00	216.0	100.0%	100.0%	100.0%	0	0	0
2000/01	204.0	100.0%	100.0%	100.0%	0	0	0
2001/02	192.0	100.0%	100.0%	100.0%	100,000	0	100,000
2002/03	180.0	100.0%	100.0%	100.0%	1,050,000	0	1,050,000
2003/04	168.0	100.0%	100.0%	100.0%	20,375,000	0	20,375,000
2004/05	156.0	100.0%	100.0%	100.0%	1,900,000	0	1,900,000
2005/06	144.0	100.0%	100.0%	100.0%	620,000	0	620,000
2006/07	132.0	98.0%	100.0%	100.0%	0	0	0
2007/08	120.0	94.3%	100.0%	100.0%	0	0	0
2008/09	108.0	89.8%	99.0%	90.3%	175,000	0	175,000
2009/10	96.0	80.2%	97.1%	85.2%	0	0	0
2010/11	84.0	67.9%	95.2%	84.9%	0	500,000	588,767
2011/12	72.0	56.6%	93.3%	84.6%	0	0	0
2012/13	60.0	28.3%	88.9%	84.5%	0	0	0
2013/14	48.0	10.9%	82.7%	80.5%	0	0	0
2014/15	36.0	2.2%	75.1%	74.6%	0	0	0
2015/16	24.0	0.0%	60.1%	60.1%	0	0	0
2016/17	12.0	0.0%	37.6%	37.6%	0	0	0
Total					\$28,200,000	\$500,000	\$28,788,767

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

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

Preliminary Projected Ultimate Limited Losses to 2016/17

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 1997/98	\$3,980,000	\$3,980,000	\$3,980,000	\$3,980,000
1998/99	0	0	0	0
1999/00	0	0	0	0
2000/01	0	0	0	0
2001/02	100,000	100,000	100,000	100,000
2002/03	1,050,000	1,050,000	1,050,000	1,050,000
2003/04	20,375,000	20,375,000	20,375,000	20,375,000
2004/05	1,900,000	1,900,000	1,900,000	1,900,000
2005/06	620,000	620,000	620,000	620,000
2006/07	0	0	0	0
2007/08	0	0	0	0
2008/09	194,922	176,750	175,000	175,000
2009/10	0	0	0	0
2010/11	0	525,402	588,767	576,094
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
Total	\$28,219,922	\$28,727,152	\$28,788,767	\$28,776,094

(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 (2017/18 = 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)
2007/08	\$0	245	\$0.00	1.495	\$0.00	\$1,460.74
2008/09	175,000	296	590.31	1.438	848.59	1,519.17
2009/10	0	200	0.00	1.347	0.00	1,621.53
2010/11	576,094	210	2,741.12	1.284	3,519.15	1,701.05
2011/12	0	151	0.00	1.234	0.00	1,769.09
2012/13	0	47	0.00	1.200	0.00	1,819.50
2013/14	0	47	0.00	1.158	0.00	1,885.45
2014/15	0	19	0.00	1.118	0.00	1,952.68
2015/16	0	4	0.00	1.082	0.00	2,019.11
2016/17	0	17	0.00	1.040	0.00	2,099.88

(7) Projected 2017/18 a-priori loss rate per Occupied Bed Equivalent \$2,183.87

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/17 (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)
2012/13	\$0	28.3%	\$1,819.50	47	\$61,637	\$61,637
2013/14	0	10.9%	1,885.45	47	79,389	79,389
2014/15	0	2.2%	1,952.68	19	36,305	36,305
2015/16	0	0.0%	2,019.11	4	9,002	9,002
2016/17	0	0.0%	2,099.88	17	36,532	36,532

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/17 (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)
2012/13	\$0	88.9%	\$1,819.50	47	\$9,580	\$9,580
2013/14	0	82.7%	1,885.45	47	15,450	15,450
2014/15	0	75.1%	1,952.68	19	9,225	9,225
2015/16	0	60.1%	2,019.11	4	3,591	3,591
2016/17	0	37.6%	2,099.88	17	22,808	22,808

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 11/30/17 (2)	Reported Claims 11/30/17 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2007/08	120.0	4	100.0%	4	245	0.02
2008/09	108.0	2	100.0%	2	296	0.01
2009/10	96.0	2	100.0%	2	200	0.01
2010/11	84.0	2	100.0%	2	210	0.01
2011/12	72.0	1	100.0%	1	151	0.01
2012/13	60.0	0	100.0%	0	47	0.00
2013/14	48.0	0	100.0%	0	47	0.00
2014/15	36.0	0	99.0%	0	19	0.00
2015/16	24.0	0	96.1%	0	4	0.00
2016/17	12.0	0	81.8%	0	17	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 (2017/18 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2017/18 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2007/08	\$0	4	\$0	1.495	\$0	\$165,744	\$662,977
2008/09	175,000	2	87,500	1.438	125,785	172,374	344,748
2009/10	0	2	0	1.347	0	183,989	367,978
2010/11	576,094	2	288,047	1.284	369,805	193,012	386,023
2011/12	0	1	0	1.234	0	200,732	200,732
2012/13	0	0	0	1.200	0	206,451	0
2013/14	0	0	0	1.158	0	213,935	0
2014/15	0	0	0	1.118	0	221,563	0
2015/16	0	0	0	1.082	0	229,101	0
2016/17	0	0	0	1.040	0	238,265	0
					(7) Projected 2017/18 average claim severity	\$247,795	

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 2016/17

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 1997/98	\$3,980,000	\$3,980,000	\$3,980,000				\$2,780,000	\$3,980,000
1998/99	0	0	0					0
1999/00	0	0	0					0
2000/01	0	0	0					0
2001/02	100,000	100,000	100,000				100,000	100,000
2002/03	1,050,000	1,050,000	1,050,000				1,050,000	1,050,000
2003/04	20,375,000	20,375,000	20,375,000				20,375,000	20,375,000
2004/05	1,900,000	1,900,000	1,900,000				1,900,000	1,900,000
2005/06	620,000	620,000	620,000				620,000	620,000
2006/07	0	0	0					0
2007/08	0	0	0					0
2008/09	194,922	176,750	175,000				175,000	175,000
2009/10	0	0	0					0
2010/11	0	525,402	588,767				300,000	580,000
2011/12	0	0	0				100,000	30,000
2012/13	0	0	0	61,637	9,580		65,000	30,000
2013/14	0	0	0	79,389	15,450		70,000	30,000
2014/15	0	0	0	36,305	9,225		70,000	30,000
2015/16	0	0	0	9,002	3,591		75,000	30,000
2016/17	0	0	0	36,532	22,808		10,000	30,000
Total	\$28,219,922	\$28,727,152	\$28,788,767				\$27,690,000	\$28,960,000
2012/13 - 2016/17	0	0	0	222,865	60,656	0	290,000	150,000
to 2011/12	28,219,922	28,727,152	28,788,767				27,400,000	28,810,000
						Change		
						All years		\$1,270,000
						2012/13 - 2016/17		-140,000
						to 2011/12		1,410,000

(2) is from Exhibit MM-Oak Forest-3.
 (3) is from Exhibit MM-Oak Forest-4.
 (4) is from Exhibit MM-Oak Forest-5.
 (5) 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 2017/18 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 (2017/18 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2007/08	\$0	245	\$0.00	1.495	\$0.00
2008/09	175,000	296	590.31	1.438	848.59
2009/10	0	200	0.00	1.347	0.00
2010/11	580,000	210	2,759.70	1.284	3,543.00
2011/12	30,000	151	198.36	1.234	244.87
2012/13	30,000	47	634.92	1.200	762.07
2013/14	30,000	47	634.92	1.158	735.41
2014/15	30,000	19	1,578.42	1.118	1,765.29
2015/16	30,000	4	6,727.66	1.082	7,276.64
2016/17	30,000	17	1,724.26	1.040	1,793.23
Total	\$935,000	1,238	\$755.18		\$1,696.91

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)
2017/18	\$2,195.80	17	\$40,000	0.89	\$1,954.67	\$30,000
2018/19	2,283.63	17	40,000	0.89	2,032.85	40,000
2019/20	2,374.98	17	40,000	0.89	2,114.17	40,000

(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) 2017/18 is based on (6) and actuarial judgment.
 Other period(s) based on 2017/18 plus a 4% trend.

(8) to 2017/18 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.9% 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, 2017

Claim Period (1)	Limited Paid Losses 11/30/17 (2)	Limited Case Reserves 11/30/17 (3)	Limited Reported Incurred Losses 11/30/17 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/17 (5)-(4) (6)	Estimated Outstanding Losses 11/30/17 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/17 (7)X(8) (9)
to 1997/98	\$3,980,000	\$0	\$3,980,000	\$3,980,000	\$0	\$0	1.00	\$0
1998/99	0	0	0	0	0	0	1.00	0
1999/00	0	0	0	0	0	0	1.00	0
2000/01	0	0	0	0	0	0	1.00	0
2001/02	100,000	0	100,000	100,000	0	0	1.00	0
2002/03	1,050,000	0	1,050,000	1,050,000	0	0	1.00	0
2003/04	20,375,000	0	20,375,000	20,375,000	0	0	1.00	0
2004/05	1,900,000	0	1,900,000	1,900,000	0	0	1.00	0
2005/06	620,000	0	620,000	620,000	0	0	1.00	0
2006/07	0	0	0	0	0	0	0.99	0
2007/08	0	0	0	0	0	0	0.98	0
2008/09	175,000	0	175,000	175,000	0	0	0.98	0
2009/10	0	0	0	0	0	0	0.97	0
2010/11	0	500,000	500,000	580,000	80,000	580,000	0.97	562,125
2011/12	0	0	0	30,000	30,000	30,000	0.96	28,843
2012/13	0	0	0	30,000	30,000	30,000	0.96	28,863
2013/14	0	0	0	30,000	30,000	30,000	0.95	28,597
2014/15	0	0	0	30,000	30,000	30,000	0.94	28,212
2015/16	0	0	0	30,000	30,000	30,000	0.92	27,729
2016/17	0	0	0	30,000	30,000	30,000	0.91	27,213
Total	\$28,200,000	\$500,000	\$28,700,000	\$28,960,000	\$260,000	\$760,000		\$731,582

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

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

(8) is based on a 1.9% 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, 2017 to November 30, 2018

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Months of Development 11/30/18 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/17 to 11/30/18 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/17 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/18 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/18 (9)X(10) (11)
to 1997/98	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2008/09	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.98	0
2009/10	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2010/11	84.0	67.9%	96.0	80.2%	38.1%	580,000	221,163	358,837	0.97	349,551
2011/12	72.0	56.6%	84.0	67.9%	26.1%	30,000	7,828	22,172	0.97	21,489
2012/13	60.0	28.3%	72.0	56.6%	39.5%	30,000	11,844	18,156	0.96	17,456
2013/14	48.0	10.9%	60.0	28.3%	19.5%	30,000	5,864	24,136	0.96	23,221
2014/15	36.0	2.2%	48.0	10.9%	8.9%	30,000	2,671	27,329	0.95	26,051
2015/16	24.0	0.0%	36.0	2.2%	2.2%	30,000	648	29,352	0.94	27,602
2016/17	12.0	0.0%	24.0	0.0%	0.0%	30,000	3	29,997	0.92	27,727
2017/18	0.0	0.0%	12.0	0.0%	0.0%	40,000	4	39,996	0.91	36,280
Total						\$800,000	\$250,025	\$549,975		\$529,377

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

(7) to 2016/17 is from Exhibit MM-Oak Forest-11. The amount for 2017/18 is from Exhibit MM-Oak Forest-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit MM-Oak Forest-2.

Projected Losses Paid December 1, 2018 to November 30, 2019

Claim Period (1)	Months of Development 11/30/18 (2)	Percent Losses Paid (3)	Months of Development 11/30/19 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/18 to 11/30/19 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/18 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/19 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/19 (9)X(10) (11)
to 1997/98	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2009/10	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.98	0
2010/11	96.0	80.2%	108.0	89.8%	48.5%	358,837	173,981	184,856	0.98	180,567
2011/12	84.0	67.9%	96.0	80.2%	38.1%	22,172	8,455	13,717	0.97	13,362
2012/13	72.0	56.6%	84.0	67.9%	26.1%	18,156	4,738	13,418	0.97	13,004
2013/14	60.0	28.3%	72.0	56.6%	39.5%	24,136	9,529	14,607	0.96	14,044
2014/15	48.0	10.9%	60.0	28.3%	19.5%	27,329	5,342	21,987	0.96	21,154
2015/16	36.0	2.2%	48.0	10.9%	8.9%	29,352	2,613	26,739	0.95	25,489
2016/17	24.0	0.0%	36.0	2.2%	2.2%	29,997	648	29,349	0.94	27,599
2017/18	12.0	0.0%	24.0	0.0%	0.0%	39,996	4	39,992	0.92	36,965
2018/19	0.0	0.0%	12.0	0.0%	0.0%	40,000	4	39,996	0.91	36,280
Total						\$589,975	\$205,314	\$384,661		\$368,464

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

(7) to 2017/18 is from Exhibit MM-Oak Forest-12, (9). The amount for 2018/19 is from Exhibit MM-Oak Forest-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit MM-Oak Forest-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Exhibit MM-Oak Forest-14

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

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1997/98	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2010/11	108.0	89.8%	120.0	94.3%	43.9%	184,856	81,191	103,665	0.98	102,039
2011/12	96.0	80.2%	108.0	89.8%	48.5%	13,717	6,651	7,066	0.98	6,902
2012/13	84.0	67.9%	96.0	80.2%	38.1%	13,418	5,116	8,302	0.97	8,087
2013/14	72.0	56.6%	84.0	67.9%	26.1%	14,607	3,812	10,795	0.97	10,462
2014/15	60.0	28.3%	72.0	56.6%	39.5%	21,987	8,680	13,307	0.96	12,794
2015/16	48.0	10.9%	60.0	28.3%	19.5%	26,739	5,227	21,512	0.96	20,697
2016/17	36.0	2.2%	48.0	10.9%	8.9%	29,349	2,613	26,736	0.95	25,486
2017/18	24.0	0.0%	36.0	2.2%	2.2%	39,992	864	39,128	0.94	36,795
2018/19	12.0	0.0%	24.0	0.0%	0.0%	39,996	4	39,992	0.92	36,965
2019/20	0.0	0.0%	12.0	0.0%	0.0%	40,000	4	39,996	0.91	36,280
Total						\$424,661	\$114,162	\$310,499		\$296,507

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

(7) to 2018/19 is from Exhibit MM-Oak Forest-13, (9). The amount for 2019/20 is from Exhibit MM-Oak Forest-10.

(10) is based on a 1.9% 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 11/30/17 (5)	Unlimited Case Reserves 11/30/17 (6)	Unlimited Reported Incurred Losses 11/30/17 (7)
94000125	9/15/1987	to 1997/98	Unlimited	\$2,500,000	\$0	\$2,500,000
94000234	12/15/1993	to 1997/98	Unlimited	1,200,000	0	1,200,000
97005031	5/19/2004	2003/04	20,000,000	20,000,000	0	20,000,000
97006028	11/3/2005	2004/05	20,000,000	1,000,000	0	1,000,000

Amounts are gross of excess insurance.

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

Size of Loss Distribution

I. Reported Claim Count

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (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	11.1%
5,000 - 10,000	0	0	0	0	0	0	0	2	11.1%
10,000 - 25,000	2	0	0	0	0	0	2	4	22.2%
25,000 - 50,000	0	0	0	0	0	0	0	4	22.2%
50,000 - 100,000	2	0	0	0	0	0	2	6	33.3%
100,000 - 250,000	2	0	0	0	0	0	2	8	44.4%
250,000 - 500,000	3	0	0	0	0	0	3	11	61.1%
500,000 - 750,000	2	0	0	0	0	0	2	13	72.2%
750,000 - 1,000,000	2	0	0	0	0	0	2	15	83.3%
Over 1,000,000	3	0	0	0	0	0	3	18	100.0%
Total	59	0	0	0	0	0	59	18	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (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	1,100,000	0	0	0	0	0	1,100,000	1,750,000	6.1%
500,000 - 750,000	1,350,000	0	0	0	0	0	1,350,000	3,100,000	10.8%
750,000 - 1,000,000	1,900,000	0	0	0	0	0	1,900,000	5,000,000	17.4%
Over 1,000,000	23,700,000	0	0	0	0	0	23,700,000	28,700,000	100.0%
Total	\$28,700,000	\$0	\$0	\$0	\$0	\$0	\$28,700,000	\$28,700,000	

Amounts are gross of excess insurance and 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 1997/98							
1998/99	108	10,103	82,779			89	348
1999/00	106	12,612	91,090			67	308
2000/01	78	14,340	91,232			70	290
2001/02	61	20,542	84,449			71	285
2002/03	67	23,156	88,763			70	296
2003/04	67	25,006	92,054			85	332
2004/05	67	31,162	85,787			83	338
2005/06	56	30,249	90,702			84	329
2006/07	39	29,012	75,083			82	299
2007/08	42	28,768	59,543			58	245
2008/09	46	27,785	72,464			79	296
2009/10	46	27,785	64,819			34	200
2010/11	46	33,000	64,819			34	210
2011/12	46	16,500	0			34	151
2012/13	0	0	0			23	47
2013/14	0	0	0			23	47
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	43,497	0	17

(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 2017. 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	2.100
Housestaff	0.800 (residents and interns)

Data Summary as of November 30, 2017
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Limited Paid Losses 11/30/17 (8)	Limited Case Reserves 11/30/17 (9)	Limited Reported Incurred Losses 11/30/17 (10)
to 1997/98	See Note	None	240.0	Not Provided	32	0	\$8,040,000	\$0	\$8,040,000
1998/99	Unlimited	None	228.0	277	13	0	2,495,000	0	2,495,000
1999/00	Unlimited	None	216.0	290	5	0	2,485,000	0	2,485,000
2000/01	10,000,000	None	204.0	288	9	0	345,000	0	345,000
2001/02	15,000,000	None	192.0	338	12	0	200,000	0	200,000
2002/03	20,000,000	None	180.0	347	14	0	1,025,000	0	1,025,000
2003/04	20,000,000	None	168.0	342	14	0	7,860,000	0	7,860,000
2004/05	20,000,000	None	156.0	344	13	0	90,000	0	90,000
2005/06	20,000,000	None	144.0	336	9	0	425,000	0	425,000
2006/07	20,000,000	None	132.0	325	3	0	0	0	0
2007/08	20,000,000	None	120.0	334	3	0	300,000	0	300,000
2008/09	20,000,000	None	108.0	437	3	0	300,000	0	300,000
2009/10	40,000,000	None	96.0	319	5	0	800,000	0	800,000
2010/11	40,000,000	None	84.0	319	1	0	0	0	0
2011/12	40,000,000	None	72.0	309	4	1	1,815,000	250,000	2,065,000
2012/13	30,000,000	None	60.0	211	4	2	190,000	2,500,000	2,690,000
2013/14	30,000,000	None	48.0	211	3	0	425,000	0	425,000
2014/15	25,000,000	None	36.0	185	1	0	0	0	0
2015/16	25,000,000	None	24.0	190	3	2	2,500,000	1,000,000	3,500,000
2016/17	25,000,000	None	12.0	193	3	3	0	75,000	75,000
Total					154	8	\$29,295,000	\$3,825,000	\$33,120,000

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

Effective Date	Retention
12/01/75	Unlimited
12/01/00	10,000,000
12/01/01	15,000,000
12/01/02	20,000,000
03/01/10	40,000,000
03/01/13	30,000,000
07/01/15	25,000,000

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

Data was provided by the County.

Data Summary as of November 30, 2017
Gross Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Gross Unlimited Paid Losses 11/30/17 (8)	Gross Unlimited Case Reserves 11/30/17 (9)	Gross Unlimited Reported Incurred Losses 11/30/17 (10)
to 1997/98	Unlimited	None	240.0	Not Provided	32	0	\$8,040,000	\$0	\$8,040,000
1998/99	Unlimited	None	228.0	277	13	0	2,495,000	0	2,495,000
1999/00	Unlimited	None	216.0	290	5	0	2,485,000	0	2,485,000
2000/01	Unlimited	None	204.0	288	9	0	345,000	0	345,000
2001/02	Unlimited	None	192.0	338	12	0	200,000	0	200,000
2002/03	Unlimited	None	180.0	347	14	0	1,025,000	0	1,025,000
2003/04	Unlimited	None	168.0	342	14	0	7,860,000	0	7,860,000
2004/05	Unlimited	None	156.0	344	13	0	90,000	0	90,000
2005/06	Unlimited	None	144.0	336	9	0	425,000	0	425,000
2006/07	Unlimited	None	132.0	325	3	0	0	0	0
2007/08	Unlimited	None	120.0	334	3	0	300,000	0	300,000
2008/09	Unlimited	None	108.0	437	3	0	300,000	0	300,000
2009/10	Unlimited	None	96.0	319	5	0	800,000	0	800,000
2010/11	Unlimited	None	84.0	319	1	0	0	0	0
2011/12	Unlimited	None	72.0	309	4	1	1,815,000	250,000	2,065,000
2012/13	Unlimited	None	60.0	211	4	2	190,000	2,500,000	2,690,000
2013/14	Unlimited	None	48.0	211	3	0	425,000	0	425,000
2014/15	Unlimited	None	36.0	185	1	0	0	0	0
2015/16	Unlimited	None	24.0	190	3	2	2,500,000	1,000,000	3,500,000
2016/17	Unlimited	None	12.0	193	3	3	0	75,000	75,000
Total					154	8	\$29,295,000	\$3,825,000	\$33,120,000

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

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	98.0%	100.0%	100.0%
120.0	94.3%	100.0%	100.0%
108.0	89.8%	99.0%	100.0%
96.0	80.2%	97.1%	100.0%
84.0	67.9%	95.2%	100.0%
72.0	56.6%	93.3%	100.0%
60.0	28.3%	88.9%	100.0%
48.0	10.9%	82.7%	100.0%
36.0	2.2%	75.1%	99.0%
24.0	0.0%	60.1%	96.1%
12.0	0.0%	37.6%	81.8%

(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).

(6), (7) and (8) are interpolated, based on (2), (3) and (4), respectively.

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	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
10/1997/98	0	0	0	0	2,205	5,980	7,345	9,025	9,775	11,175	11,175	11,175	11,175	11,175	11,175	11,175	11,175	11,175	11,175	11,175
1998/99	0	12,065	12,065	17,115	17,650	23,830	27,850	37,850	37,850	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925
1999/00	0	0	156	551	1,046	4,406	4,706	4,706	4,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706
2000/01	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	25,061	25,061	25,061	25,061	25,061
2001/02	0	12	1,260	1,263	3,248	4,488	4,888	4,988	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316
2002/03	10	0	0	8,781	16,656	18,246	19,498	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646
2003/04	0	0	0	107	5,775	16,665	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715
2004/05	0	0	0	0	5,775	6,778	9,908	11,533	11,603	23,603	24,028	24,000	19,698	19,196	5,316	24,848	11,706	37,925	37,925	37,925
2005/06	0	1	16	528	2,016	2,016	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766
2006/07	0	127	127	3,677	6,027	6,027	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427
2007/08	0	0	2,445	3,155	3,155	4,405	5,155	8,155	8,205	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203
2008/09	0	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
2009/10	0	0	0	0	2,850	4,878	5,168	5,168	5,168	5,168	5,168	5,168	5,168	5,168	5,168	5,168	5,168	5,168	5,168	5,168
2010/11	0	0	0	0	20,100	20,825	24,390	26,195	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294	34,294
2011/12	0	850	850	2,330	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690	5,690
2012/13	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0
2014/15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015/16	90	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590	2,590
2016/17	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	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
10/1997/98																				
1998/99					2,712	1,228	1,229	1,083	1,143	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1999/00		1,000	1,419	1,031	1,350	1,168	1,359	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
2000/01			3,532	1,898	4,212	1,068	1,000	1,000	2,487	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2001/02	1,150	109,585	1,002	2,572	1,300	1,561	1,000	1,066	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			1,897	1,897	1,095	1,069	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
2003/04		1,189	53,971	2,886	1,123	1,000	1,000	1,000	1,053	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2004/05		103,000	1,023	12,837	1,361	1,074	1,164	1,006	2,034	1,018	0.999	0.999	0.977	0.999	0.999	0.999	0.999	0.999	0.999	0.999
2005/06		1,000	1,621	77,245	1,000	2,364	1,000	1,000	1,000	0.997	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999
2006/07		1,000	28,953	1,639	1,398	1,000	1,000	1,000	0.985	0.997	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999
2007/08		1,000	1,290	1,000	1,396	1,170	1,582	1,006	1,000	0.985	0.997	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999
2008/09			3,302	3,302	1,364	1,073	1,000	1,000	1,000	0.985	0.997	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999
2009/10			1,171	1,074	1,059	1,058	1,000	1,000	1,000	0.985	0.997	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999
2010/11		1,036	1,171	1,074	1,059	1,058	1,000	1,000	1,000	0.985	0.997	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999
2011/12		1,000	2,741	2,399	1,309	1,058	1,000	1,000	1,000	0.985	0.997	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999
2012/13		1,200																		
2013/14																				
2014/15	28,778																			
2015/16																				
2016/17																				
Average	14,964	127,666	37,129	8,058	1,576	1,225	1,113	1,015	1,270	1,002	1,000	1,000	1,000	1,000	1,000	1,000	1,246	1,075	1,000	1,000
All	29,056	1,006	1,271	1,240	1,389	1,091	1,121	1,002	1,479	1,009	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Wtd 3				1,728	1,244	1,101	1,194	1,002	1,340	1,005	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Last 3				1,728	1,244	1,101	1,194	1,002	1,340	1,005	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Last 5				1,728	1,244	1,101	1,194	1,002	1,340	1,005	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
x-hi/low				1,728	1,244	1,101	1,194	1,002	1,340	1,005	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
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	1,180	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
Cumulative	1,102,717	551,359	45,928	9,186	3,533	1,766	1,472	1,248	1,114	1,061	1,020	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Percent	0.0%	0.0%	2.2%	10.9%	28.3%	56.6%	67.9%	80.2%	89.8%	94.3%	98.0%	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 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

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 1/9/97/98																						
1998/99	1,500	17,850	20,160	17,620	17,205	16,230	15,975	15,625	13,275	11,175	11,175	11,175	11,175	14,175	14,175	14,175	14,175	16,675	17,925	217,703		
1999/00	15,495	25,810	35,730	44,165	46,475	46,930	40,930	46,630	46,225	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925		
2000/01	8,668	7,778	8,093	8,911	8,706	21,206	15,706	14,706	14,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706		
2001/02	33,740	23,655	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	16,622	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	5,316	5,316	5,316	5,316	5,316		
2003/04	28,331	39,505	26,840	38,771	29,756	20,246	20,246	20,146	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646		
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	19,715	19,715	19,715	19,715	19,715	19,715	19,715		
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	24,250	24,028	24,028	24,028	24,028	24,028	24,028	24,028		
2006/07	11,046	13,126	8,721	5,787	4,726	5,496	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726	4,726		
2007/08	24,827	12,544	17,152	18,477	12,927	12,227	10,927	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427		
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	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205		
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	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203		
2010/11	7,700	3,900	8,530	11,105	11,183	9,968	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		
2011/12	23,923	34,253	39,927	39,455	39,045	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644	37,644		
2012/13	6,925	12,000	29,150	39,255	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465	61,465		
2013/14	1,560	7,155	6,400	5,575																		
2014/15	7,000	8,225	8,630																			
2015/16	5,190	8,620																				
2016/17	450																					

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 1/9/97/98																					
1998/99	11,900	1,129	0,874	0,976	0,943	0,984	0,972	0,855	0,842	1,000	1,000	1,000	1,268	1,000	1,000	1,000	1,176	1,075			
1999/00	1,656	1,384	1,236	1,052	1,010	0,866	1,148	0,891	0,820	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2000/01	0,897	1,041	1,101	0,977	2,436	0,741	1,000	0,936	0,796	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,000	1,000	1,000	1,000	1,000	1,000	
2002/03	0,600	0,360	0,458	0,980	0,823	0,838	0,938	0,962	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	1,394	0,679	1,445	0,767	0,963	0,707	0,995	0,975	1,000	1,000	1,000	1,000	1,000	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	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2005/06	2,519	0,629	1,097	0,694	0,973	0,827	1,126	1,641	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	1,188	0,664	0,664	0,817	1,195	0,973	0,867	1,000	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	0,505	1,367	1,077	0,700	0,946	0,894	0,771	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	
2008/09	1,316	1,419	1,049	0,932	1,047	0,825	1,018	0,976	0,976	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2009/10	1,620	1,884	1,053	0,825	0,917	0,904	1,000	1,000	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	5,065	2,187	1,302	1,007	0,954	0,934	1,000	1,000	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	1,432	1,166	0,988	0,990	0,964	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	0,934	
2012/13	1,733	2,429	1,347	1,566																	
2013/14	4,567	0,894	0,871																		
2014/15	1,175	1,049																			
2015/16	1,661																				
2016/17																					
Average	2,382	1,189	1,097	0,946	1,095	0,868	0,991	1,030	0,944	0,995	1,001	1,072	1,041	1,000	0,998	1,000	1,088	1,075			
All	1,745	1,614	1,117	1,244	0,963	0,890	0,923	0,991	0,997	0,870	1,004	1,223	0,991	1,000	0,997	1,000	1,000	1,000	1,000	1,000	
Wtd 3	2,474	1,456	1,069	1,167	0,946	0,888	0,930	0,892	0,895	0,886	1,003	1,169	0,982	1,000	0,997	1,000	1,000	1,000	1,000	1,000	
Last 3	1,609	1,467	1,114	0,976	0,955	0,911	0,962	1,000	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-tilow																					
Previous	1,600	1,250	1,100	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	1,600	1,250	1,100	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	
Cumulative	2,662	1,331	1,125	1,210	1,072	1,051	1,030	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	
Percent	37.6%	60.1%	75.1%	82.7%	88.9%	93.3%	95.2%	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%	

Amounts are limited (net of excess insurance).

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

COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE - PROVIDENT HOSPITAL
Historical Reported Claims and Reported Claim Development

I. Historical Reported Claims	Historical Reported Claims and Reported Claim Development																						
	Claim Period	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240		
to 1997/98																							
1998/99	9	40	43	46	47	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	313
1999/00	12	32	37	39	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	52
2000/01	76	94	102	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	48
2001/02	99	129	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	48
2002/03	87	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	48
2003/04	89	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	48
2004/05	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	48
2005/06	82	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	48
2006/07	55	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	48
2007/08	31	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	48
2008/09	31	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	48
2009/10	32	32	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	48
2010/11	31	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	48
2011/12	35	36	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	48
2012/13	40	41	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	48
2013/14	33	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	48
2014/15	29	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	48
2015/16	34	46																					48
2016/17	12																						48

II. Reported Claim Development

II. Reported Claim Development	Reported Claim Development																						
	Claim Period	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 1997/98																							
1998/99	4,444	1,075	1,070	1,022	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	1,083	
1999/00	2,667	1,156	1,054	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	1,000	1,000	1,000	
2000/01	1,237	1,085	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2001/02	1,303	1,023	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,138	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,449	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,122	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,091	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,355	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,065	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,063	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2010/11	1,029	1,194	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,029	1,028	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,025	1,049	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,000	1,235	1,512	1,514	1,514	1,585	1,500	1,394	1,214	1,217	1,098	1,274	1,248	1,121	0,894	1,039	1,200	1,100	1,000	1,000	1,000	
2014/15	1,069	1,387																					
2015/16	1,353																						
2016/17																							
Average All	1,421	1,051	1,023	1,037	1,038	1,042	1,046	1,042	1,036	1,021	1,024	1,012	1,039	1,041	1,024	0,973	1,013	1,100	1,000	1,000	1,000	1,000	1,000
Wtd 3	1,156	1,132	1,070	1,188	1,176	1,156	1,212	1,166	1,096	1,046	1,053	1,028	1,080	1,089	1,036	0,949	1,021	1,083	1,000	1,000	1,000	1,000	1,000
Last 3	1,151	1,146	1,078	1,171	1,171	1,167	1,198	1,167	1,131	1,071	1,072	1,033	1,091	1,083	1,040	0,965	1,013	1,000	1,000	1,000	1,000	1,000	1,000
Last 5	1,043	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	1,000	1,000	1,000	1,000	1,000	1,000
x-tilt low																							
Previous	1,175	1,030	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Selected	1,175	1,030	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Cumulative	1,222	1,040	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Percent	81.8%	96.1%	99.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	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 1/09/08																					
1999/09	0.0%	0.0%	0.0%	0.0%	12.8%	36.8%	46.0%	58.1%	73.6%	100.0%	100.0%	100.0%	100.0%	78.8%	78.8%	78.8%	78.8%	100.0%	100.0%	100.0%	100.0%
1999/00	0.0%	46.7%	33.8%	38.8%	38.0%	50.8%	68.5%	81.1%	82.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2000/01	0.0%	0.0%	1.9%	6.2%	12.0%	20.8%	30.0%	30.0%	32.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2001/02	0.0%	0.0%	0.1%	0.1%	49.1%	51.3%	56.9%	56.2%	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%	0.0%	21.8%	15.0%	37.8%	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%	86.3%	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%	98.1%	100.0%	94.9%	94.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2005/06	0.0%	0.0%	2.3%	2.1%	39.3%	55.1%	71.5%	73.9%	45.3%	92.2%	100.0%	100.0%	100.0%	66.3%	66.3%	66.3%	66.3%	66.3%	66.3%	66.3%	66.3%
2006/07	0.0%	0.0%	0.2%	0.5%	42.7%	35.7%	86.7%	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%
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%	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%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	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%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%	54.9%
2011/12	0.0%	58.7%	52.2%	61.8%	67.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%
2012/13	0.0%	7.1%	2.9%	14.8%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%
2013/14	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2014/15	0.0%	0.3%	0.0%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%
2015/16	1.7%	30.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2016/17	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Average																					
All	0.1%	8.0%	8.3%	20.0%	41.6%	58.1%	75.1%	85.2%	84.4%	99.2%	99.8%	99.9%	95.2%	96.5%	95.8%	94.7%	92.9%	100.0%	100.0%	100.0%	100.0%
Last 3	0.6%	10.1%	1.1%	27.5%	39.9%	74.6%	72.4%	99.0%	100.0%	97.4%	99.3%	99.7%	88.8%	100.0%	100.0%	100.0%	92.9%	100.0%	100.0%	100.0%	100.0%
Last 5	0.0%	12.5%	1.1%	18.2%	44.4%	67.2%	75.4%	99.0%	98.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	92.9%	100.0%	100.0%	100.0%	100.0%
x-high																					
Implicit	0.0%	0.0%	2.9%	13.2%	31.9%	60.7%	71.4%	82.6%	90.7%	94.3%	95.0%	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 11/30/17 (2)	Limited Paid Losses 11/30/17 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1997/98	240.0	\$8,040,000	100.0%	\$8,040,000
1998/99	228.0	2,495,000	100.0%	2,495,000
1999/00	216.0	2,485,000	100.0%	2,485,000
2000/01	204.0	345,000	100.0%	345,000
2001/02	192.0	200,000	100.0%	200,000
2002/03	180.0	1,025,000	100.0%	1,025,000
2003/04	168.0	7,860,000	100.0%	7,860,000
2004/05	156.0	90,000	100.0%	90,000
2005/06	144.0	425,000	100.0%	425,000
2006/07	132.0	0	98.0%	0
2007/08	120.0	300,000	94.3%	318,240
2008/09	108.0	300,000	89.8%	334,152
2009/10	96.0	800,000	80.2%	998,001
2010/11	84.0	0	67.9%	0
2011/12	72.0	1,815,000	56.6%	3,206,127
2012/13	60.0	190,000	28.3%	671,255
2013/14	48.0	425,000	10.9%	3,903,879
2014/15	36.0	0	2.2%	0
2015/16	24.0	2,500,000	0.0%	2,500,000 *
2016/17	12.0	0	0.0%	0
Total		\$29,295,000		\$34,896,654

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

(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 11/30/17 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1997/98	240.0	\$8,040,000	100.0%	\$8,040,000
1998/99	228.0	2,495,000	100.0%	2,495,000
1999/00	216.0	2,485,000	100.0%	2,485,000
2000/01	204.0	345,000	100.0%	345,000
2001/02	192.0	200,000	100.0%	200,000
2002/03	180.0	1,025,000	100.0%	1,025,000
2003/04	168.0	7,860,000	100.0%	7,860,000
2004/05	156.0	90,000	100.0%	90,000
2005/06	144.0	425,000	100.0%	425,000
2006/07	132.0	0	100.0%	0
2007/08	120.0	300,000	100.0%	300,000
2008/09	108.0	300,000	99.0%	303,000
2009/10	96.0	800,000	97.1%	824,160
2010/11	84.0	0	95.2%	0
2011/12	72.0	2,065,000	93.3%	2,213,308
2012/13	60.0	2,690,000	88.9%	3,027,356
2013/14	48.0	425,000	82.7%	514,172
2014/15	36.0	0	75.1%	0
2015/16	24.0	3,500,000	60.1%	4,163,498 *
2016/17	12.0	75,000	37.6%	199,620
Total		\$33,120,000		\$34,510,115

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

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

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

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/17 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/17 (6)	Limited Case Reserves 11/30/17 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1997/98	240.0	100.0%	100.0%	100.0%	\$8,040,000	\$0	\$8,040,000
1998/99	228.0	100.0%	100.0%	100.0%	2,495,000	0	2,495,000
1999/00	216.0	100.0%	100.0%	100.0%	2,485,000	0	2,485,000
2000/01	204.0	100.0%	100.0%	100.0%	345,000	0	345,000
2001/02	192.0	100.0%	100.0%	100.0%	200,000	0	200,000
2002/03	180.0	100.0%	100.0%	100.0%	1,025,000	0	1,025,000
2003/04	168.0	100.0%	100.0%	100.0%	7,860,000	0	7,860,000
2004/05	156.0	100.0%	100.0%	100.0%	90,000	0	90,000
2005/06	144.0	100.0%	100.0%	100.0%	425,000	0	425,000
2006/07	132.0	98.0%	100.0%	100.0%	0	0	0
2007/08	120.0	94.3%	100.0%	100.0%	300,000	0	300,000
2008/09	108.0	89.8%	99.0%	90.3%	300,000	0	300,000
2009/10	96.0	80.2%	97.1%	85.2%	800,000	0	800,000
2010/11	84.0	67.9%	95.2%	84.9%	0	0	0
2011/12	72.0	56.6%	93.3%	84.6%	1,815,000	250,000	2,110,659
2012/13	60.0	28.3%	88.9%	84.5%	190,000	2,500,000	3,150,089
2013/14	48.0	10.9%	82.7%	80.5%	425,000	0	425,000
2014/15	36.0	2.2%	75.1%	74.6%	0	0	0
2015/16	24.0	0.0%	60.1%	60.1%	2,500,000	1,000,000	4,163,699
2016/17	12.0	0.0%	37.6%	37.6%	0	75,000	199,650
Total					\$29,295,000	\$3,825,000	\$34,414,097

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

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

Preliminary Projected Ultimate Limited Losses to 2016/17

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 1997/98	\$8,040,000	\$8,040,000	\$8,040,000	\$8,040,000
1998/99	2,495,000	2,495,000	2,495,000	2,495,000
1999/00	2,485,000	2,485,000	2,485,000	2,485,000
2000/01	345,000	345,000	345,000	345,000
2001/02	200,000	200,000	200,000	200,000
2002/03	1,025,000	1,025,000	1,025,000	1,025,000
2003/04	7,860,000	7,860,000	7,860,000	7,860,000
2004/05	90,000	90,000	90,000	90,000
2005/06	425,000	425,000	425,000	425,000
2006/07	0	0	0	0
2007/08	318,240	300,000	300,000	300,000
2008/09	334,152	303,000	300,000	300,000
2009/10	998,001	824,160	800,000	800,000
2010/11	0	0	0	0
2011/12	3,206,127	2,213,308	2,110,659	2,141,454
2012/13	671,255	3,027,356	3,150,089	3,100,996
2013/14	3,903,879	514,172	425,000	425,000
2014/15	0	0	0	0
2015/16	2,500,000	4,163,498	4,163,699	3,830,879
2016/17	0	199,620	199,650	159,708
Total	\$34,896,654	\$34,510,115	\$34,414,097	\$34,023,036

(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 (2017/18 = 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)
2007/08	\$300,000	334	\$897.89	1.495	\$1,342.39	\$3,806.36
2008/09	300,000	437	686.39	1.438	986.72	3,958.61
2009/10	800,000	319	2,507.21	1.347	3,376.70	4,225.35
2010/11	0	319	0.00	1.284	0.00	4,432.56
2011/12	2,141,454	309	6,928.50	1.234	8,552.93	4,609.86
2012/13	3,100,996	211	14,709.96	1.200	17,655.78	4,741.21
2013/14	425,000	211	2,016.04	1.158	2,335.13	4,913.06
2014/15	0	185	0.00	1.118	0.00	5,088.26
2015/16	3,830,879	190	20,151.36	1.082	21,795.71	5,261.36
2016/17	159,708	193	828.32	1.040	861.45	5,471.81

(7) Projected 2017/18 a-priori loss rate per Occupied Bed Equivalent \$5,690.68

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/17 (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)
2012/13	\$190,000	28.3%	\$4,741.21	211	\$716,583	\$906,583
2013/14	425,000	10.9%	4,913.06	211	922,964	1,347,964
2014/15	0	2.2%	5,088.26	185	918,453	918,453
2015/16	2,500,000	0.0%	5,261.36	190	1,000,029	3,500,029
2016/17	0	0.0%	5,471.81	193	1,054,925	1,054,925

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/17 (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)
2012/13	\$2,690,000	88.9%	\$4,741.21	211	\$111,379	\$2,801,379
2013/14	425,000	82.7%	4,913.06	211	179,623	604,623
2014/15	0	75.1%	5,088.26	185	233,383	233,383
2015/16	3,500,000	60.1%	5,261.36	190	398,941	3,898,941
2016/17	75,000	37.6%	5,471.81	193	658,634	733,634

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 11/30/17 (2)	Reported Claims 11/30/17 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2007/08	120.0	3	100.0%	3	334	0.01
2008/09	108.0	3	100.0%	3	437	0.01
2009/10	96.0	5	100.0%	5	319	0.02
2010/11	84.0	1	100.0%	1	319	0.00
2011/12	72.0	4	100.0%	4	309	0.01
2012/13	60.0	4	100.0%	4	211	0.02
2013/14	48.0	3	100.0%	3	211	0.01
2014/15	36.0	1	99.0%	1	185	0.01
2015/16	24.0	3	96.1%	3	190	0.02
2016/17	12.0	3	81.8%	4	193	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 (2017/18 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2017/18 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2007/08	\$300,000	3	\$100,000	1.495	\$149,505	\$246,608	\$739,824
2008/09	300,000	3	100,000	1.438	143,754	256,472	769,417
2009/10	800,000	5	160,000	1.347	215,487	273,754	1,368,770
2010/11	0	1	0	1.284	0	287,179	287,179
2011/12	2,141,454	4	535,364	1.234	660,884	298,666	1,194,663
2012/13	3,100,996	4	775,249	1.200	930,500	307,175	1,228,701
2013/14	425,000	3	141,667	1.158	164,089	318,310	954,929
2014/15	0	1	0	1.118	0	329,660	329,660
2015/16	3,830,879	3	1,276,960	1.082	1,381,159	340,875	1,022,625
2016/17	159,708	4	39,927	1.040	41,524	354,510	1,418,040
					(7) Projected 2017/18 average claim severity	\$368,690	

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.

Projected Ultimate Limited Losses to 2016/17

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 1997/98	\$8,040,000	\$8,040,000	\$8,040,000				\$10,490,000	\$8,040,000
1998/99	2,495,000	2,495,000	2,495,000				1,245,000	2,495,000
1999/00	2,485,000	2,485,000	2,485,000				2,485,000	2,485,000
2000/01	345,000	345,000	345,000				345,000	345,000
2001/02	200,000	200,000	200,000				200,000	200,000
2002/03	1,025,000	1,025,000	1,025,000				1,025,000	1,025,000
2003/04	7,860,000	7,860,000	7,860,000				7,860,000	7,860,000
2004/05	90,000	90,000	90,000				90,000	90,000
2005/06	425,000	425,000	425,000				425,000	425,000
2006/07	0	0	0					0
2007/08	318,240	300,000	300,000				300,000	300,000
2008/09	334,152	303,000	300,000				300,000	300,000
2009/10	998,001	824,160	800,000				800,000	800,000
2010/11	0	0	0				100,000	0
2011/12	3,206,127	2,213,308	2,110,659				2,250,000	2,250,000
2012/13	671,255	3,027,356	3,150,089	906,583	2,801,379	1,228,701	4,250,000	3,500,000
2013/14	3,903,879	514,172	425,000	1,347,964	604,623	954,929	1,000,000	650,000
2014/15	0	0	0	918,453	233,383	329,660	850,000	500,000
2015/16	2,500,000	4,163,498	4,163,699	3,500,029	3,898,941	1,022,625	4,000,000	4,100,000
2016/17	0	199,620	199,650	1,054,925	733,634	1,418,040	1,190,000	1,000,000
Total	\$34,896,654	\$34,510,115	\$34,414,097				\$39,205,000	\$36,365,000
2012/13 - 2016/17	7,075,134	7,904,646	7,938,437	7,727,955	8,271,961	4,953,954	11,290,000	9,750,000
to 2011/12	27,821,520	26,605,468	26,475,659				27,915,000	26,615,000
						Change		
						All years		-\$2,840,000
						2012/13 - 2016/17		-1,540,000
						to 2011/12		-1,300,000

(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 2017/18 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 (2017/18 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2007/08	\$300,000	334	\$897.89	1.495	\$1,342.39
2008/09	300,000	437	686.39	1.438	986.72
2009/10	800,000	319	2,507.21	1.347	3,376.70
2010/11	0	319	0.00	1.284	0.00
2011/12	2,250,000	309	7,279.69	1.234	8,986.47
2012/13	3,500,000	211	16,602.69	1.200	19,927.55
2013/14	650,000	211	3,083.36	1.158	3,571.38
2014/15	500,000	185	2,709.70	1.118	3,030.52
2015/16	4,100,000	190	21,567.01	1.082	23,326.87
2016/17	1,000,000	193	5,186.45	1.040	5,393.91
Total	\$13,400,000	2,707	\$4,949.25		\$6,994.25

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)
2017/18	\$6,994.25	193	\$1,350,000	0.89	\$6,226.17	\$1,200,000
2018/19	7,274.02	193	1,400,000	0.89	6,475.22	1,250,000
2019/20	7,564.98	193	1,460,000	0.89	6,734.23	1,300,000

(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) 2017/18 is based on (6) and actuarial judgment.
 Other period(s) based on 2017/18 plus a 4% trend.

(8) to 2017/18 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.9% 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, 2017

Claim Period (1)	Limited Paid Losses 11/30/17 (2)	Limited Case Reserves 11/30/17 (3)	Limited Reported Incurred Losses 11/30/17 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/17 (5)-(4) (6)	Estimated Outstanding Reported Losses 11/30/17 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/17 (7)X(8) (9)
to 1997/98	\$8,040,000	\$0	\$8,040,000	\$8,040,000	\$0	\$0	1.00	\$0
1998/99	2,495,000	0	2,495,000	2,495,000	0	0	1.00	0
1999/00	2,485,000	0	2,485,000	2,485,000	0	0	1.00	0
2000/01	345,000	0	345,000	345,000	0	0	1.00	0
2001/02	200,000	0	200,000	200,000	0	0	1.00	0
2002/03	1,025,000	0	1,025,000	1,025,000	0	0	1.00	0
2003/04	7,860,000	0	7,860,000	7,860,000	0	0	1.00	0
2004/05	90,000	0	90,000	90,000	0	0	1.00	0
2005/06	425,000	0	425,000	425,000	0	0	1.00	0
2006/07	0	0	0	0	0	0	0.99	0
2007/08	300,000	0	300,000	300,000	0	0	0.98	0
2008/09	300,000	0	300,000	300,000	0	0	0.98	0
2009/10	800,000	0	800,000	800,000	0	0	0.97	0
2010/11	0	0	0	0	0	0	0.97	0
2011/12	1,815,000	250,000	2,065,000	2,250,000	185,000	435,000	0.96	418,219
2012/13	190,000	2,500,000	2,690,000	3,500,000	810,000	3,310,000	0.96	3,184,572
2013/14	425,000	0	425,000	650,000	225,000	225,000	0.95	214,481
2014/15	0	0	0	500,000	500,000	500,000	0.94	470,193
2015/16	2,500,000	1,000,000	3,500,000	4,100,000	600,000	1,600,000	0.92	1,478,906
2016/17	0	75,000	75,000	1,000,000	925,000	1,000,000	0.91	907,089
Total	\$29,295,000	\$3,825,000	\$33,120,000	\$36,365,000	\$3,245,000	\$7,070,000		\$6,673,460

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

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

(8) is based on a 1.9% interest rate and the payout pattern in Exhibit MM-Provident-2.

Projected Losses Paid December 1, 2017 to November 30, 2018

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Months of Development 11/30/18 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/17 to 11/30/18 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/17 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/18 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/18 (9)X(10) (11)
to 1997/98	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2008/09	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.98	0
2009/10	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2010/11	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.97	0
2011/12	72.0	56.6%	84.0	67.9%	26.1%	435,000	113,509	321,491	0.97	311,583
2012/13	60.0	28.3%	72.0	56.6%	39.5%	3,310,000	1,306,791	2,003,209	0.96	1,925,932
2013/14	48.0	10.9%	60.0	28.3%	19.5%	225,000	43,980	181,020	0.96	174,161
2014/15	36.0	2.2%	48.0	10.9%	8.9%	500,000	44,516	455,484	0.95	434,190
2015/16	24.0	0.0%	36.0	2.2%	2.2%	1,600,000	34,553	1,565,447	0.94	1,472,125
2016/17	12.0	0.0%	24.0	0.0%	0.0%	1,000,000	91	999,909	0.92	924,232
2017/18	0.0	0.0%	12.0	0.0%	0.0%	1,350,000	122	1,349,878	0.91	1,224,460
Total						\$8,420,000	\$1,543,562	\$6,876,438		\$6,466,683

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

(7) to 2016/17 is from Exhibit MM-Provident-11. The amount for 2017/18 is from Exhibit MM-Provident-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit MM-Provident-2.

Projected Losses Paid December 1, 2018 to November 30, 2019

Claim Period (1)	Months of Development 11/30/18 (2)	Percent Losses Paid (3)	Months of Development 11/30/19 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/18 to 11/30/19 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/18 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/19 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/19 (9)X(10) (11)
to 1997/98	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2009/10	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.98	0
2010/11	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2011/12	84.0	67.9%	96.0	80.2%	38.1%	321,491	122,589	198,902	0.97	193,755
2012/13	72.0	56.6%	84.0	67.9%	26.1%	2,003,209	522,716	1,480,493	0.97	1,434,866
2013/14	60.0	28.3%	72.0	56.6%	39.5%	181,020	71,467	109,553	0.96	105,327
2014/15	48.0	10.9%	60.0	28.3%	19.5%	455,484	89,031	366,453	0.96	352,567
2015/16	36.0	2.2%	48.0	10.9%	8.9%	1,565,447	139,374	1,426,073	0.95	1,359,404
2016/17	24.0	0.0%	36.0	2.2%	2.2%	999,909	21,594	978,315	0.94	919,994
2017/18	12.0	0.0%	24.0	0.0%	0.0%	1,349,878	122	1,349,756	0.92	1,247,601
2018/19	0.0	0.0%	12.0	0.0%	0.0%	1,400,000	127	1,399,873	0.91	1,269,809
Total						\$8,276,438	\$967,020	\$7,309,418		\$6,883,323

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

(7) to 2017/18 is from Exhibit MM-Provident-12, (9). The amount for 2018/19 is from Exhibit MM-Provident-10.

(10) is based on a 1.9% 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, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1997/98	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2010/11	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.98	0
2011/12	96.0	80.2%	108.0	89.8%	48.5%	198,902	96,437	102,465	0.98	100,088
2012/13	84.0	67.9%	96.0	80.2%	38.1%	1,480,493	564,534	915,959	0.97	892,257
2013/14	72.0	56.6%	84.0	67.9%	26.1%	1,09,553	28,587	80,966	0.97	78,471
2014/15	60.0	28.3%	72.0	56.6%	39.5%	366,453	144,676	221,777	0.96	213,222
2015/16	48.0	10.9%	60.0	28.3%	19.5%	1,426,073	278,748	1,147,325	0.96	1,103,849
2016/17	36.0	2.2%	48.0	10.9%	8.9%	978,315	87,101	891,214	0.95	849,549
2017/18	24.0	0.0%	36.0	2.2%	2.2%	1,349,756	29,149	1,320,607	0.94	1,241,881
2018/19	12.0	0.0%	24.0	0.0%	0.0%	1,399,873	127	1,399,746	0.92	1,293,808
2019/20	0.0	0.0%	12.0	0.0%	0.0%	1,460,000	132	1,459,868	0.91	1,324,230
Total						\$8,769,418	\$1,229,491	\$7,539,927		\$7,097,355

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

(7) to 2018/19 is from Exhibit MM-Provident-13, (9). The amount for 2019/20 is from Exhibit MM-Provident-10.

(10) is based on a 1.9% 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 11/30/17 (5)	Unlimited Case Reserves 11/30/17 (6)	Unlimited Reported Incurred Losses 11/30/17 (7)
97002199	6/2/1997	to 1997/98	Unlimited	\$2,500,000	\$0	\$2,500,000
97002200	9/18/1997	to 1997/98	Unlimited	1,000,000	0	1,000,000
97002205	12/18/1997	to 1997/98	Unlimited	1,000,000	0	1,000,000
97002437	1/25/1998	to 1997/98	Unlimited	1,000,000	0	1,000,000
97002440	4/17/1999	1998/99	Unlimited	1,250,000	0	1,250,000
97003552	8/8/2000	1999/00	Unlimited	1,500,000	0	1,500,000
97006011	2/20/2004	2003/04	20,000,000	1,500,000	0	1,500,000
97005673	5/18/2004	2003/04	20,000,000	2,500,000	0	2,500,000
97005708	7/2/2004	2003/04	20,000,000	2,850,000	0	2,850,000
97009704	3/27/2012	2011/12	40,000,000	1,450,000	0	1,450,000
97011788	1/5/2013	2012/13	40,000,000	0	1,000,000	1,000,000
97010465	11/5/2013	2012/13	30,000,000	0	1,500,000	1,500,000
97012730	12/30/2015	2015/16	2,500,000	2,500,000 *	0	2,500,000 *

Amounts are gross of excess insurance.

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

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

Size of Loss Distribution

I. Reported Claim Count

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	97	0	2	1	0	0	100		
0.01 - 5,000	2	0	0	0	0	0	2	2	3.7%
5,000 - 10,000	0	1	0	0	0	0	1	3	5.6%
10,000 - 25,000	3	0	0	0	0	3	6	9	16.7%
25,000 - 50,000	3	0	0	0	0	0	3	12	22.2%
50,000 - 100,000	5	0	0	0	0	0	5	17	31.5%
100,000 - 250,000	5	1	0	0	0	0	6	23	42.6%
250,000 - 500,000	9	0	1	0	2	0	12	35	64.8%
500,000 - 750,000	2	0	0	0	0	0	2	37	68.5%
750,000 - 1,000,000	7	1	0	0	0	0	8	45	83.3%
Over 1,000,000	7	1	0	0	1	0	9	54	100.0%
Total	140	4	3	1	3	3	154	54	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (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	
0.01 - 5,000	6,000	0	0	0	0	0	6,000	6,000	0.0%
5,000 - 10,000	0	10,000	0	0	0	0	10,000	16,000	0.0%
10,000 - 25,000	64,000	0	0	0	0	75,000	139,000	155,000	0.5%
25,000 - 50,000	140,000	0	0	0	0	0	140,000	295,000	0.9%
50,000 - 100,000	395,000	0	0	0	0	0	395,000	690,000	2.1%
100,000 - 250,000	950,000	180,000	0	0	0	0	1,130,000	1,820,000	5.5%
250,000 - 500,000	3,215,000	0	425,000	0	1,000,000	0	4,640,000	6,460,000	19.5%
500,000 - 750,000	1,450,000	0	0	0	0	0	1,450,000	7,910,000	23.9%
750,000 - 1,000,000	6,660,000	1,000,000	0	0	0	0	7,660,000	15,570,000	47.0%
Over 1,000,000	13,550,000	1,500,000	0	0	2,500,000	0	17,550,000	33,120,000	100.0%
Total	\$26,430,000	\$2,690,000	\$425,000	\$0	\$3,500,000	\$75,000	\$33,120,000	\$33,120,000	

Amounts are gross of excess insurance and 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 1997/98							
1998/99	71	57,364	57,720	1,348	595	32	277
1999/00	71	57,449	59,353	1,304	644	38	290
2000/01	71	53,876	59,623	1,646	852	40	288
2001/02	75	52,325	62,898	1,652	950	63	338
2002/03	80	50,888	64,367	2,233	702	66	347
2003/04	78	51,988	50,698	2,371	450	66	342
2004/05	72	50,678	46,053	2,012	925	72	344
2005/06	76	47,949	45,248	1,853	656	69	336
2006/07	60	43,563	36,774	2,053	705	77	325
2007/08	57	40,370	42,204	1,885	604	85	334
2008/09	53	39,647	44,955	1,627	605	136	437
2009/10	45	40,000	49,663	1,505	605	83	319
2010/11	45	40,000	49,663	1,505	605	83	319
2011/12	45	35,000	49,663	1,505	605	83	309
2012/13	25	38,450	49,663	1,505	605	42	211
2013/14	25	38,450	49,663	1,505	605	42	211
2014/15	25	22,650	49,663	1,505	605	45	185
2015/16	25	22,260	49,663	1,505	605	48	190
2016/17	25	29,965	49,663	1,505	605	42	193
2017/18	25	29,965	49,663	1,505	605	42	193

(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 2017. 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	2.100
Housestaff	0.800 (residents and interns)



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

Data Summary as of November 30, 2017
 Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Limited Paid Losses 11/30/17 (8)	Limited Case Reserves 11/30/17 (9)	Limited Reported Incurred Losses 11/30/17 (10)
to 1997/98	See Note	None	240.0	Not Provided	114	0	\$44,383,067	\$0	\$44,383,067
1998/99	Unlimited	None	228.0	Not Provided	1	0	0	0	0
1999/00	Unlimited	None	216.0	Not Provided	0	0	0	0	0
2000/01	10,000,000	None	204.0	Not Provided	3	0	0	0	0
2001/02	15,000,000	None	192.0	Not Provided	6	0	750,000	0	750,000
2002/03	20,000,000	None	180.0	Not Provided	8	0	800,000	0	800,000
2003/04	20,000,000	None	168.0	Not Provided	3	0	0	0	0
2004/05	20,000,000	None	156.0	Not Provided	4	0	0	0	0
2005/06	20,000,000	None	144.0	Not Provided	3	0	0	0	0
2006/07	20,000,000	None	132.0	Not Provided	0	0	0	0	0
2007/08	20,000,000	None	120.0	Not Provided	0	0	0	0	0
2008/09	20,000,000	None	108.0	Not Provided	0	0	0	0	0
2009/10	40,000,000	None	96.0	409	0	0	0	0	0
2010/11	40,000,000	None	84.0	409	2	0	0	0	0
2011/12	40,000,000	None	72.0	409	0	0	0	0	0
2012/13	30,000,000	None	60.0	370	1	0	0	0	0
2013/14	30,000,000	None	48.0	370	0	0	0	0	0
2014/15	25,000,000	None	36.0	229	2	1	0	50,000	50,000
2015/16	25,000,000	None	24.0	226	0	0	0	0	0
2016/17	25,000,000	None	12.0	231	0	0	0	0	0
Total					147	1	\$45,933,067	\$50,000	\$45,983,067

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

Effective Date	Retention
12/01/75	Unlimited
12/01/00	10,000,000
12/01/01	15,000,000
12/01/02	20,000,000
03/01/10	40,000,000
03/01/13	30,000,000
07/01/15	25,000,000

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

Data was provided by the County.



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

Data Summary as of November 30, 2017
 Gross Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Gross Unlimited Paid Losses 11/30/17 (8)	Gross Unlimited Case Reserves 11/30/17 (9)	Gross Unlimited Reported Incurred Losses 11/30/17 (10)
to 1997/98	Unlimited	None	240.0	Not Provided	114	0	\$44,383,067	\$0	\$44,383,067
1998/99	Unlimited	None	228.0	Not Provided	1	0	0	0	0
1999/00	Unlimited	None	216.0	Not Provided	0	0	0	0	0
2000/01	Unlimited	None	204.0	Not Provided	3	0	0	0	0
2001/02	Unlimited	None	192.0	Not Provided	6	0	750,000	0	750,000
2002/03	Unlimited	None	180.0	Not Provided	8	0	800,000	0	800,000
2003/04	Unlimited	None	168.0	Not Provided	3	0	0	0	0
2004/05	Unlimited	None	156.0	Not Provided	4	0	0	0	0
2005/06	Unlimited	None	144.0	Not Provided	3	0	0	0	0
2006/07	Unlimited	None	132.0	Not Provided	0	0	0	0	0
2007/08	Unlimited	None	120.0	Not Provided	0	0	0	0	0
2008/09	Unlimited	None	108.0	Not Provided	0	0	0	0	0
2009/10	Unlimited	None	96.0	409	0	0	0	0	0
2010/11	Unlimited	None	84.0	409	2	0	0	0	0
2011/12	Unlimited	None	72.0	409	0	0	0	0	0
2012/13	Unlimited	None	60.0	370	1	0	0	0	0
2013/14	Unlimited	None	48.0	370	0	0	0	0	0
2014/15	Unlimited	None	36.0	229	2	1	0	50,000	50,000
2015/16	Unlimited	None	24.0	226	0	0	0	0	0
2016/17	Unlimited	None	12.0	231	0	0	0	0	0
Total					147	1	\$45,933,067	\$50,000	\$45,983,067

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

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	98.0%	100.0%	100.0%
120.0	94.3%	100.0%	100.0%
108.0	89.8%	99.0%	100.0%
96.0	80.2%	97.1%	100.0%
84.0	67.9%	95.2%	100.0%
72.0	56.6%	93.3%	100.0%
60.0	28.3%	88.9%	100.0%
48.0	10.9%	82.7%	100.0%
36.0	2.2%	75.1%	99.0%
24.0	0.0%	60.1%	96.1%
12.0	0.0%	37.6%	81.8%

(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).

(6), (7) and (8) are interpolated, based on (2), (3) and (4), respectively.

COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - UNSPECIFIED HOSPITAL / AMBULATORY CARE
 Historical Reported Claims and Reported Claim Development

I. Historical Reported Claims	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1997/98																					
1998/99	9	40	43	46	47	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	313
1999/00	12	32	37	39	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	52
2000/01	76	94	102	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	48
2001/02	99	129	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	48
2002/03	87	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	48
2003/04	89	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	48
2004/05	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	48
2005/06	82	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	48
2006/07	55	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	48
2007/08	31	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	48
2008/09	31	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	48
2009/10	32	32	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	48
2010/11	31	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	48
2011/12	35	36	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	48
2012/13	40	41	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	48
2013/14	33	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	48
2014/15	29	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	48
2015/16	34	46																			48
2016/17	12																				48

II. Reported Claim Development	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 1997/98																					
1998/99	4,444	1,075	1,070	1,022	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	
1999/00	2,667	1,156	1,054	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	1,000	
2000/01	1,237	1,085	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2001/02	1,303	1,023	1,000	1,000	1,000	1,000	1,000	1,000	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	1,138	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,449	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,000	1,000	1,000	1,000	1,000	1,000	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	1,122	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,091	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,355	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,065	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,063	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2010/11	1,194	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,029	1,028	1,000	1,000	1,000	1,000	1,000	1,000	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	1,025	1,049	1,000	1,512	1,514	1,585															
2013/14	1,030	1,000	1,235																		
2014/15	1,069	1,387																			
2015/16	1,353																				
2016/17																					

Average	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	
All	1,421	1,051	1,023	1,037	1,038	1,046	1,042	1,036	1,021	1,024	1,012	1,039	1,041	1,024	0,973	1,013	1,100	1,083	1,000	1,000	
Wtd 3	1,156	1,132	1,070	1,188	1,176	1,212	1,156	1,096	1,046	1,053	1,028	1,090	1,089	1,036	0,949	1,021	1,000	1,000	1,000	1,000	
Last 3	1,151	1,146	1,078	1,171	1,171	1,198	1,167	1,131	1,071	1,072	1,033	1,091	1,083	1,040	0,965	1,013	1,000	1,000	1,000	1,000	
Last 5	1,043	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	1,000	1,000	1,000	
x-tiltlow																					
Previous	1,175	1,030	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Selected	1,175	1,030	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Cumulative	1,222	1,040	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Percent	81.8%	96.1%	99.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	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 1/09/08																					
1999/09	0.0%	0.0%	0.0%	0.0%	12.8%	36.8%	46.0%	58.1%	73.6%	100.0%	100.0%	100.0%	100.0%	78.8%	78.8%	78.8%	78.8%	100.0%	100.0%	100.0%	100.0%
1999/00	0.0%	46.7%	33.8%	38.8%	38.0%	50.8%	68.5%	81.1%	82.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2000/01	0.0%	0.0%	1.9%	6.2%	12.0%	20.8%	30.0%	30.0%	32.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2001/02	0.0%	0.0%	0.1%	0.1%	49.1%	51.3%	56.9%	56.2%	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%	0.0%	21.8%	15.0%	37.8%	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%	86.3%	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%	98.1%	100.0%	94.9%	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%
2005/06	0.0%	0.0%	2.3%	0.5%	39.3%	55.1%	71.5%	73.9%	45.3%	92.2%	100.0%	100.0%	100.0%	66.3%	66.3%	66.3%	66.3%	66.3%	66.3%	66.3%	66.3%
2006/07	0.0%	0.1%	0.2%	0.5%	42.7%	35.7%	86.7%	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%
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%	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%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2010/11	0.0%	0.0%	0.0%	25.7%	43.6%	67.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%
2011/12	0.0%	58.7%	52.2%	61.8%	67.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%	91.1%
2012/13	0.0%	7.1%	2.9%	14.8%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%
2013/14	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2014/15	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2015/16	1.7%	30.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2016/17	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Average																					
All	0.1%	8.0%	8.3%	20.0%	41.6%	58.1%	75.1%	85.2%	84.4%	99.2%	99.8%	99.9%	95.2%	96.5%	95.8%	94.7%	92.9%	100.0%	100.0%	100.0%	100.0%
Last 3	0.6%	10.1%	1.1%	27.5%	39.9%	74.6%	72.4%	99.0%	100.0%	97.4%	99.3%	99.7%	88.8%	100.0%	100.0%	100.0%	92.9%	100.0%	100.0%	100.0%	100.0%
Last 5	0.0%	12.5%	1.1%	18.2%	44.4%	67.2%	75.4%	99.0%	98.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	92.9%	100.0%	100.0%	100.0%	100.0%
x-high																					
Implicit	0.0%	0.0%	2.9%	13.2%	31.9%	60.7%	71.4%	82.6%	90.7%	94.3%	95.0%	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 11/30/17 (2)	Limited Paid Losses 11/30/17 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1997/98	240.0	\$44,383,067	100.0%	\$44,383,067
1998/99	228.0	0	100.0%	0
1999/00	216.0	0	100.0%	0
2000/01	204.0	0	100.0%	0
2001/02	192.0	750,000	100.0%	750,000
2002/03	180.0	800,000	100.0%	800,000
2003/04	168.0	0	100.0%	0
2004/05	156.0	0	100.0%	0
2005/06	144.0	0	100.0%	0
2006/07	132.0	0	98.0%	0
2007/08	120.0	0	94.3%	0
2008/09	108.0	0	89.8%	0
2009/10	96.0	0	80.2%	0
2010/11	84.0	0	67.9%	0
2011/12	72.0	0	56.6%	0
2012/13	60.0	0	28.3%	0
2013/14	48.0	0	10.9%	0
2014/15	36.0	0	2.2%	0
2015/16	24.0	0	0.0%	0
2016/17	12.0	0	0.0%	0
Total		\$45,933,067		\$45,933,067

(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 11/30/17 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1997/98	240.0	\$44,383,067	100.0%	\$44,383,067
1998/99	228.0	0	100.0%	0
1999/00	216.0	0	100.0%	0
2000/01	204.0	0	100.0%	0
2001/02	192.0	750,000	100.0%	750,000
2002/03	180.0	800,000	100.0%	800,000
2003/04	168.0	0	100.0%	0
2004/05	156.0	0	100.0%	0
2005/06	144.0	0	100.0%	0
2006/07	132.0	0	100.0%	0
2007/08	120.0	0	100.0%	0
2008/09	108.0	0	99.0%	0
2009/10	96.0	0	97.1%	0
2010/11	84.0	0	95.2%	0
2011/12	72.0	0	93.3%	0
2012/13	60.0	0	88.9%	0
2013/14	48.0	0	82.7%	0
2014/15	36.0	50,000	75.1%	66,540
2015/16	24.0	0	60.1%	0
2016/17	12.0	0	37.6%	0
Total		\$45,983,067		\$45,999,607

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

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

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/17 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/17 (6)	Limited Case Reserves 11/30/17 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1997/98	240.0	100.0%	100.0%	100.0%	\$44,383,067	\$0	\$44,383,067
1998/99	228.0	100.0%	100.0%	100.0%	0	0	0
1999/00	216.0	100.0%	100.0%	100.0%	0	0	0
2000/01	204.0	100.0%	100.0%	100.0%	0	0	0
2001/02	192.0	100.0%	100.0%	100.0%	750,000	0	750,000
2002/03	180.0	100.0%	100.0%	100.0%	800,000	0	800,000
2003/04	168.0	100.0%	100.0%	100.0%	0	0	0
2004/05	156.0	100.0%	100.0%	100.0%	0	0	0
2005/06	144.0	100.0%	100.0%	100.0%	0	0	0
2006/07	132.0	98.0%	100.0%	100.0%	0	0	0
2007/08	120.0	94.3%	100.0%	100.0%	0	0	0
2008/09	108.0	89.8%	99.0%	90.3%	0	0	0
2009/10	96.0	80.2%	97.1%	85.2%	0	0	0
2010/11	84.0	67.9%	95.2%	84.9%	0	0	0
2011/12	72.0	56.6%	93.3%	84.6%	0	0	0
2012/13	60.0	28.3%	88.9%	84.5%	0	0	0
2013/14	48.0	10.9%	82.7%	80.5%	0	0	0
2014/15	36.0	2.2%	75.1%	74.6%	0	50,000	67,033
2015/16	24.0	0.0%	60.1%	60.1%	0	0	0
2016/17	12.0	0.0%	37.6%	37.6%	0	0	0
Total					\$45,933,067	\$50,000	\$46,000,100

(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 2016/17

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 1997/98	\$44,383,067	\$44,383,067	\$44,383,067	\$44,383,067
1998/99	0	0	0	0
1999/00	0	0	0	0
2000/01	0	0	0	0
2001/02	750,000	750,000	750,000	750,000
2002/03	800,000	800,000	800,000	800,000
2003/04	0	0	0	0
2004/05	0	0	0	0
2005/06	0	0	0	0
2006/07	0	0	0	0
2007/08	0	0	0	0
2008/09	0	0	0	0
2009/10	0	0	0	0
2010/11	0	0	0	0
2011/12	0	0	0	0
2012/13	0	0	0	0
2013/14	0	0	0	0
2014/15	0	66,540	67,033	55,000
2015/16	0	0	0	0
2016/17	0	0	0	0
Total	\$45,933,067	\$45,999,607	\$46,000,100	\$45,988,067

(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 (2017/18 = 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)
2007/08	\$0	409	\$0.00	1.495	\$0.00	\$17.97
2008/09	0	409	0.00	1.438	0.00	18.69
2009/10	0	409	0.00	1.347	0.00	19.95
2010/11	0	409	0.00	1.284	0.00	20.93
2011/12	0	409	0.00	1.234	0.00	21.77
2012/13	0	370	0.00	1.200	0.00	22.39
2013/14	0	370	0.00	1.158	0.00	23.20
2014/15	55,000	229	240.27	1.118	268.71	24.03
2015/16	0	226	0.00	1.082	0.00	24.84
2016/17	0	231	0.00	1.040	0.00	25.84

(7) Projected 2017/18 a-priori loss rate per Occupied Bed Equivalent \$26.87

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/17 (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)
2012/13	\$0	28.3%	\$22.39	370	\$5,936	\$5,936
2013/14	0	10.9%	23.20	370	7,645	7,645
2014/15	0	2.2%	24.03	229	5,380	5,380
2015/16	0	0.0%	24.84	226	5,623	5,623
2016/17	0	0.0%	25.84	231	5,975	5,975

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/17 (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)
2012/13	\$0	88.9%	\$22.39	370	\$923	\$923
2013/14	0	82.7%	23.20	370	1,488	1,488
2014/15	50,000	75.1%	24.03	229	1,367	51,367
2015/16	0	60.1%	24.84	226	2,243	2,243
2016/17	0	37.6%	25.84	231	3,731	3,731

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

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

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

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

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

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

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

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/17 (2)	Reported Claims 11/30/17 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2007/08	120.0	0	100.0%	0	409	0.00
2008/09	108.0	0	100.0%	0	409	0.00
2009/10	96.0	0	100.0%	0	409	0.00
2010/11	84.0	2	100.0%	2	409	0.00
2011/12	72.0	0	100.0%	0	409	0.00
2012/13	60.0	1	100.0%	1	370	0.00
2013/14	48.0	0	100.0%	0	370	0.00
2014/15	36.0	2	99.0%	2	229	0.01
2015/16	24.0	0	96.1%	0	226	0.00
2016/17	12.0	0	81.8%	0	231	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 (2017/18 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2017/18 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2007/08	\$0	0	\$0	1.495	\$0	\$2,057	\$0
2008/09	0	0	0	1.438	0	2,139	0
2009/10	0	0	0	1.347	0	2,284	0
2010/11	0	2	0	1.284	0	2,396	4,791
2011/12	0	0	0	1.234	0	2,491	0
2012/13	0	1	0	1.200	0	2,562	2,562
2013/14	0	0	0	1.158	0	2,655	0
2014/15	55,000	2	27,500	1.118	30,756	2,750	5,500
2015/16	0	0	0	1.082	0	2,844	0
2016/17	0	0	0	1.040	0	2,957	0
(7) Projected 2017/18 average claim severity					\$3,076		

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

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

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

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

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

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

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



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

Exhibit MM-Unspecified-9

Projected Ultimate Limited Losses to 2016/17

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 1997/98	\$44,383,067	\$44,383,067	\$44,383,067				\$43,722,608	\$44,383,067
1998/99	0	0	0					0
1999/00	0	0	0					0
2000/01	0	0	0					0
2001/02	750,000	750,000	750,000				750,000	750,000
2002/03	800,000	800,000	800,000				800,000	800,000
2003/04	0	0	0					0
2004/05	0	0	0					0
2005/06	0	0	0				1,320	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				20,000	0
2011/12	0	0	0				25,000	0
2012/13	0	0	0	5,936	923	2,562	25,000	0
2013/14	0	0	0	7,645	1,488		25,000	0
2014/15	0	66,540	67,033	5,380	51,367	5,500	100,000	100,000
2015/16	0	0	0	5,623	2,243		50,000	50,000
2016/17	0	0	0	5,975	3,731		20,000	50,000
Total	\$45,933,067	\$45,999,607	\$46,000,100				\$45,538,928	\$46,133,067
2012/13 - 2016/17	0	66,540	67,033	30,559	59,751	8,062	220,000	200,000
to 2011/12	45,933,067	45,933,067	45,933,067				45,318,928	45,933,067
						Change		
						All years		\$594,139
						2012/13 - 2016/17		-20,000
						to 2011/12		614,139

- (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 2017/18 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 (2017/18 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2007/08	\$0	409	\$0.00	1.495	\$0.00
2008/09	0	409	0.00	1.438	0.00
2009/10	0	409	0.00	1.347	0.00
2010/11	0	409	0.00	1.284	0.00
2011/12	0	409	0.00	1.234	0.00
2012/13	0	370	0.00	1.200	0.00
2013/14	0	370	0.00	1.158	0.00
2014/15	100,000	229	436.85	1.118	488.57
2015/16	50,000	226	220.88	1.082	238.91
2016/17	50,000	231	216.18	1.040	224.83
Total	\$200,000	3,472	\$57.60		\$95.23

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)
2017/18	\$95.23	231	\$20,000	0.89	\$84.77	\$20,000
2018/19	99.04	231	20,000	0.89	88.16	20,000
2019/20	103.00	231	20,000	0.89	91.69	20,000

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

(3) 2009/10, 2010/11, 2011/12, 2012/13, 2013/14, 2014/15, 2015/16 and 2016/17 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) 2017/18 is based on (6) and actuarial judgment.
 Other period(s) based on 2017/18 plus a 4% trend.

(8) to 2017/18 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.9% 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, 2017

Claim Period (1)	Limited Paid Losses 11/30/17 (2)	Limited Case Reserves 11/30/17 (3)	Limited Reported Incurred Losses 11/30/17 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/17 (5)-(4) (6)	Estimated Outstanding Losses 11/30/17 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/17 (7)X(8) (9)
to 1997/98	\$44,383,067	\$0	\$44,383,067	\$44,383,067	\$0	\$0	1.00	\$0
1998/99	0	0	0	0	0	0	1.00	0
1999/00	0	0	0	0	0	0	1.00	0
2000/01	0	0	0	0	0	0	1.00	0
2001/02	750,000	0	750,000	750,000	0	0	1.00	0
2002/03	800,000	0	800,000	800,000	0	0	1.00	0
2003/04	0	0	0	0	0	0	1.00	0
2004/05	0	0	0	0	0	0	1.00	0
2005/06	0	0	0	0	0	0	1.00	0
2006/07	0	0	0	0	0	0	0.99	0
2007/08	0	0	0	0	0	0	0.98	0
2008/09	0	0	0	0	0	0	0.98	0
2009/10	0	0	0	0	0	0	0.97	0
2010/11	0	0	0	0	0	0	0.97	0
2011/12	0	0	0	0	0	0	0.96	0
2012/13	0	0	0	0	0	0	0.96	0
2013/14	0	0	0	0	0	0	0.95	0
2014/15	0	50,000	50,000	100,000	50,000	100,000	0.94	94,039
2015/16	0	0	0	50,000	50,000	50,000	0.92	46,216
2016/17	0	0	0	50,000	50,000	50,000	0.91	45,354
Total	\$45,933,067	\$50,000	\$45,983,067	\$46,133,067	\$150,000	\$200,000		\$185,609

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

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

(8) is based on a 1.9% 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, 2017 to November 30, 2018

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Months of Development 11/30/18 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/17 to 11/30/18 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/17 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/18 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/18 (9)X(10) (11)
to 1997/98	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2008/09	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.98	0
2009/10	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2010/11	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.97	0
2011/12	72.0	56.6%	84.0	67.9%	26.1%	0	0	0	0.97	0
2012/13	60.0	28.3%	72.0	56.6%	39.5%	0	0	0	0.96	0
2013/14	48.0	10.9%	60.0	28.3%	19.5%	0	0	0	0.96	0
2014/15	36.0	2.2%	48.0	10.9%	8.9%	100,000	8,903	91,097	0.95	86,838
2015/16	24.0	0.0%	36.0	2.2%	2.2%	50,000	1,080	48,920	0.94	46,004
2016/17	12.0	0.0%	24.0	0.0%	0.0%	50,000	5	49,995	0.92	46,211
2017/18	0.0	0.0%	12.0	0.0%	0.0%	20,000	2	19,998	0.91	18,140
Total						\$220,000	\$9,990	\$210,010		\$197,193

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

(7) to 2016/17 is from Exhibit MM-Unspecified-11. The amount for 2017/18 is from Exhibit MM-Unspecified-10.

(10) is based on a 1.9% 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, 2018 to November 30, 2019

Claim Period (1)	Months of Development 11/30/18 (2)	Percent Losses Paid (3)	Months of Development 11/30/19 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/18 to 11/30/19 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/18 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/19 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/19 (9)X(10) (11)
to 1997/98	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2009/10	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.98	0
2010/11	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2011/12	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.97	0
2012/13	72.0	56.6%	84.0	67.9%	26.1%	0	0	0	0.97	0
2013/14	60.0	28.3%	72.0	56.6%	39.5%	0	0	0	0.96	0
2014/15	48.0	10.9%	60.0	28.3%	19.5%	91,097	17,806	73,291	0.96	70,514
2015/16	36.0	2.2%	48.0	10.9%	8.9%	48,920	4,355	44,565	0.95	42,482
2016/17	24.0	0.0%	36.0	2.2%	2.2%	49,995	1,080	48,915	0.94	45,999
2017/18	12.0	0.0%	24.0	0.0%	0.0%	19,998	2	19,996	0.92	18,483
2018/19	0.0	0.0%	12.0	0.0%	0.0%	20,000	2	19,998	0.91	18,140
Total						\$230,010	\$23,245	\$206,765		\$195,618

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

(7) to 2017/18 is from Exhibit MM-Unspecified-12, (9). The amount for 2018/19 is from Exhibit MM-Unspecified-10.

(10) is based on a 1.9% 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, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1997/98	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2010/11	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.98	0
2011/12	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2012/13	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.97	0
2013/14	72.0	56.6%	84.0	67.9%	26.1%	0	0	0	0.97	0
2014/15	60.0	28.3%	72.0	56.6%	39.5%	73,291	28,935	44,356	0.96	42,645
2015/16	48.0	10.9%	60.0	28.3%	19.5%	44,565	8,711	35,854	0.96	34,495
2016/17	36.0	2.2%	48.0	10.9%	8.9%	48,915	4,355	44,560	0.95	42,477
2017/18	24.0	0.0%	36.0	2.2%	2.2%	19,996	432	19,564	0.94	18,398
2018/19	12.0	0.0%	24.0	0.0%	0.0%	19,998	2	19,996	0.92	18,483
2019/20	0.0	0.0%	12.0	0.0%	0.0%	20,000	2	19,998	0.91	18,140
Total						\$226,765	\$42,437	\$184,328		\$174,638

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

(7) to 2018/19 is from Exhibit MM-Unspecified-13, (9). The amount for 2019/20 is from Exhibit MM-Unspecified-10.

(10) is based on a 1.9% 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 11/30/17 (5)	Unlimited Case Reserves 11/30/17 (6)	Unlimited Reported Incurred Losses 11/30/17 (7)
94000157	5/15/1978	to 1997/98	Unlimited	\$2,575,459	\$0	\$2,575,459
94000147	12/12/1981	to 1997/98	Unlimited	5,000,000	0	5,000,000
94000146	9/1/1987	to 1997/98	Unlimited	1,155,901	0	1,155,901
94000156	1/13/1988	to 1997/98	Unlimited	4,000,000	0	4,000,000
94000042	4/22/1988	to 1997/98	Unlimited	1,500,000	0	1,500,000
94000145	1/14/1989	to 1997/98	Unlimited	2,750,000	0	2,750,000
94000096	2/1/1990	to 1997/98	Unlimited	2,500,000	0	2,500,000
94000080	8/29/1990	to 1997/98	Unlimited	6,500,000	0	6,500,000
94000026	3/25/1991	to 1997/98	Unlimited	3,500,000	0	3,500,000
97002717	9/1/1998	to 1997/98	Unlimited	8,500,000	0	8,500,000

Amounts are gross of excess insurance.

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

Size of Loss Distribution

I. Reported Claim Count

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	97	1	0	1	0	0	99		
0.01 - 5,000	2	0	0	0	0	0	2	2	4.2%
5,000 - 10,000	3	0	0	0	0	0	3	5	10.4%
10,000 - 25,000	4	0	0	0	0	0	4	9	18.8%
25,000 - 50,000	1	0	0	1	0	0	2	11	22.9%
50,000 - 100,000	7	0	0	0	0	0	7	18	37.5%
100,000 - 250,000	10	0	0	0	0	0	10	28	58.3%
250,000 - 500,000	6	0	0	0	0	0	6	34	70.8%
500,000 - 750,000	3	0	0	0	0	0	3	37	77.1%
750,000 - 1,000,000	1	0	0	0	0	0	1	38	79.2%
Over 1,000,000	10	0	0	0	0	0	10	48	100.0%
Total	144	1	0	2	0	0	147	48	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (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	
0.01 - 5,000	6,500	0	0	0	0	0	6,500	6,500	0.0%
5,000 - 10,000	25,207	0	0	0	0	0	25,207	31,707	0.1%
10,000 - 25,000	82,000	0	0	0	0	0	82,000	113,707	0.2%
25,000 - 50,000	35,000	0	0	50,000	0	0	85,000	198,707	0.4%
50,000 - 100,000	548,000	0	0	0	0	0	548,000	746,707	1.6%
100,000 - 250,000	1,975,000	0	0	0	0	0	1,975,000	2,721,707	5.9%
250,000 - 500,000	2,305,000	0	0	0	0	0	2,305,000	5,026,707	10.9%
500,000 - 750,000	2,175,000	0	0	0	0	0	2,175,000	7,201,707	15.7%
750,000 - 1,000,000	800,000	0	0	0	0	0	800,000	8,001,707	17.4%
Over 1,000,000	37,981,360	0	0	0	0	0	37,981,360	45,983,067	100.0%
Total	\$45,933,067	\$0	\$0	\$50,000	\$0	\$0	\$45,983,067	\$45,983,067	

Amounts are gross of excess insurance and 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 1997/98							
1998/99							0
1999/00							0
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	409
2010/11			750,000			52	409
2011/12			750,000			52	409
2012/13			620,000			58	370
2013/14			620,000			58	370
2014/15			411,102			31	229
2015/16			399,120			32	226
2016/17			334,779			46	231
2017/18	0	0	334,779	0	0	46	231

(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 2017. 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	2.100
Housestaff	0.800 (residents and interns)



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

Data Summary as of November 30, 2017
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Payroll (000) (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Limited Paid Losses 11/30/17 (8)	Limited Case Reserves 11/30/17 (9)	Limited Reported Incurred Losses 11/30/17 (10)
to 1997/98	See Note	None	240.0	Not Provided	14,048	12	\$66,541,213	\$972,762	\$67,513,976
1998/99	Unlimited	None	228.0	Not Provided	1,120	0	4,428,723	0	4,428,723
1999/00	Unlimited	None	216.0	Not Provided	1,134	2	6,216,376	10,000	6,226,376
2000/01	9,500,000	None	204.0	719,952	1,183	4	8,246,540	515,947	8,762,487
2001/02	9,500,000	None	192.0	752,457	1,161	1	8,338,185	724,386	9,062,571
2002/03	9,500,000	None	180.0	779,098	1,223	3	8,212,171	301,900	8,514,071
2003/04	Unlimited	None	168.0	810,182	1,218	6	8,033,825	742,733	8,776,558
2004/05	Unlimited	None	156.0	832,363	1,318	4	8,351,897	297,506	8,649,403
2005/06	Unlimited	None	144.0	826,479	1,159	8	8,682,949	154,291	8,837,239
2006/07	Unlimited	None	132.0	859,906	903	8	11,224,573	743,023	11,967,595
2007/08	Unlimited	None	120.0	914,260	777	18	16,465,844	531,352	16,997,197
2008/09	Unlimited	None	108.0	942,707	767	20	13,059,555	847,135	13,906,689
2009/10	Unlimited	None	96.0	998,250	862	43	11,807,036	1,455,313	13,262,350
2010/11	Unlimited	None	84.0	928,082	789	30	9,737,181	1,280,510	11,017,691
2011/12	Unlimited	None	72.0	899,082	783	58	11,005,865	2,065,510	13,071,375
2012/13	Unlimited	None	60.0	949,338	720	64	8,594,550	2,007,120	10,601,669
2013/14	Unlimited	None	48.0	988,081	759	93	9,469,820	2,750,063	12,219,883
2014/15	Unlimited	None	36.0	998,567	771	136	10,310,467	3,870,320	14,180,787
2015/16	Unlimited	None	24.0	1,053,931	1,104	339	10,919,359	8,755,423	19,674,782
2016/17	Unlimited	None	12.0	1,075,248	1,149	679	4,905,904	9,678,953	14,584,857
Total					32,948	1,528	\$244,552,032	\$37,704,248	\$282,256,281

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

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

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

Data was provided by the County.



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

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

Data Summary as of November 30, 2017
Gross Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Payroll (000) (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Gross Unlimited Paid Losses 11/30/17 (8)	Gross Unlimited Case Reserves 11/30/17 (9)	Gross Unlimited Reported Incurred Losses 11/30/17 (10)
to 1997/98	Unlimited	None	240.0	Not Provided	14,048	12	\$66,541,213	\$972,762	\$67,513,976
1998/99	Unlimited	None	228.0	Not Provided	1,120	0	4,428,723	0	4,428,723
1999/00	Unlimited	None	216.0	Not Provided	1,134	2	6,216,376	10,000	6,226,376
2000/01	Unlimited	None	204.0	719,952	1,183	4	8,246,540	515,947	8,762,487
2001/02	Unlimited	None	192.0	752,457	1,161	1	8,338,185	724,386	9,062,571
2002/03	Unlimited	None	180.0	779,098	1,223	3	8,212,171	301,900	8,514,071
2003/04	Unlimited	None	168.0	810,182	1,218	6	8,033,825	742,733	8,776,558
2004/05	Unlimited	None	156.0	832,363	1,318	4	8,351,897	297,506	8,649,403
2005/06	Unlimited	None	144.0	826,479	1,159	8	8,682,949	154,291	8,837,239
2006/07	Unlimited	None	132.0	859,906	903	8	11,224,573	743,023	11,967,595
2007/08	Unlimited	None	120.0	914,260	777	18	16,465,844	531,352	16,997,197
2008/09	Unlimited	None	108.0	942,707	767	20	13,059,555	847,135	13,906,689
2009/10	Unlimited	None	96.0	998,250	862	43	11,807,036	1,455,313	13,262,350
2010/11	Unlimited	None	84.0	928,082	789	30	9,737,181	1,280,510	11,017,691
2011/12	Unlimited	None	72.0	899,082	783	58	11,005,865	2,065,510	13,071,375
2012/13	Unlimited	None	60.0	949,338	720	64	8,594,550	2,007,120	10,601,669
2013/14	Unlimited	None	48.0	988,081	759	93	9,469,820	2,750,063	12,219,883
2014/15	Unlimited	None	36.0	998,567	771	136	10,310,467	3,870,320	14,180,787
2015/16	Unlimited	None	24.0	1,053,931	1,104	339	10,919,359	8,755,423	19,674,782
2016/17	Unlimited	None	12.0	1,075,248	1,149	679	4,905,904	9,678,953	14,584,857
Total					32,948	1,528	\$244,552,032	\$37,704,248	\$282,256,281

(8), (9) and (10) are gross 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-2

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	98.4%	99.8%	100.0%
216.0	98.3%	99.7%	100.0%
204.0	98.1%	99.6%	100.0%
192.0	97.9%	99.5%	100.0%
180.0	97.7%	99.4%	100.0%
168.0	97.5%	99.2%	100.0%
156.0	97.2%	99.0%	100.0%
144.0	96.8%	98.8%	100.0%
132.0	96.3%	98.5%	100.0%
120.0	95.3%	98.1%	100.0%
108.0	93.7%	97.7%	100.0%
96.0	90.3%	96.5%	100.0%
84.0	86.0%	94.6%	99.9%
72.0	78.2%	91.8%	99.8%
60.0	70.4%	86.1%	99.7%
48.0	60.2%	79.3%	99.6%
36.0	48.9%	70.0%	99.2%
24.0	33.1%	56.9%	98.8%
12.0	14.9%	32.5%	96.4%

(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).

(6), (7) and (8) are interpolated, based on (2), (3) and (4), respectively.

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

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

Claim Period	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 1997/98																				
1998/99								3,392	3,636	4,044	4,144	\$50,217	\$60,455	\$60,965	\$61,424	\$61,781	\$62,007	\$62,418	\$62,821	\$66,541
1999/00							4,987	5,135	5,388	5,682	5,729	4,144	4,144	4,262	4,262	4,263	4,263	4,263	4,263	4,429
2000/01							5,295	5,724	6,228	6,545	6,751	5,823	5,076	5,304	5,929	5,929	6,216	6,216	6,216	
2002/03					5,029	5,409	6,145	6,866	7,018	7,218	7,373	6,960	7,025	7,102	7,395	7,395	8,247	8,247		
2003/04					5,962	5,948	6,768	6,991	7,316	7,534	7,582	7,611	7,905	7,939	8,183	8,338				
2004/05			3,755	4,995	5,205	6,186	6,855	7,022	7,164	7,288	7,332	7,405	8,000	8,166	8,212					
2005/06	1,453	2,828	3,565	4,351	5,913	6,770	7,111	7,396	7,536	7,952	8,103	8,065	8,352	8,034						
2006/07	1,811	3,789	4,381	6,140	6,700	7,111	7,111	7,396	7,536	7,952	8,103	8,065	8,352	8,034						
2007/08	1,544	3,529	5,382	6,820	7,908	8,615	9,131	9,583	9,724	11,075	11,225	8,065	8,352							
2008/09	1,829	4,111	5,863	7,314	8,708	9,995	11,196	12,384	13,060	16,466										
2009/10	2,059	4,695	6,392	7,658	8,838	9,724	11,256	11,807												
2010/11	2,183	4,158	5,415	6,687	7,719	9,220	9,737													
2011/12	1,861	3,935	5,816	7,160	8,593	11,006														
2012/13	1,527	3,443	5,292	7,744	8,595															
2013/14	2,329	4,359	7,831	9,470																
2014/15	2,265	7,515	10,310																	
2015/16	4,540																			
2016/17	4,906																			

II. Limited Paid Loss Development

Claim Period	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 1997/98																				
1998/99								1,072	1,112	1,025	1,000	1,021	1,007	1,009	1,006	1,004	1,007	1,006	1,059	
1999/00							1,030	1,049	1,054	1,008	1,016	1,000	1,007	1,000	1,000	1,000	1,007	1,000		
2000/01							1,081	1,088	1,051	1,032	1,029	1,011	1,005	1,004	1,001	1,004	1,000			
2002/03					1,079	1,136	1,117	1,022	1,029	1,021	1,007	1,011	1,005	1,004	1,002	1,005	1,000			
2003/04			1,113	1,113	1,069	1,138	1,033	1,046	1,030	1,006	1,004	1,009	1,003	1,006	1,019					
2004/05			1,160	1,195	1,249	1,347	1,055	1,024	1,020	1,012	1,010	1,090	1,004							
2005/06	1,913	1,565	1,411	1,103	1,046	1,060	1,044	1,038	1,034	1,012	1,084	1,036								
2006/07	2,098	1,481	1,212	1,160	1,089	1,060	1,049	1,055	1,019	1,049	1,021									
2007/08	2,287	1,525	1,214	1,142	1,133	1,161	1,059	1,051	1,139	1,014										
2008/09	2,248	1,426	1,248	1,148	1,148	1,120	1,106	1,052	1,036											
2009/10	2,280	1,361	1,198	1,154	1,101	1,156	1,049													
2010/11	1,905	1,302	1,237	1,153	1,195	1,056														
2011/12	2,114	1,478	1,231	1,385	1,110															
2012/13	2,254	1,537	1,463	1,110																
2013/14	1,871	1,797	1,209																	
2014/15	3,318																			
2015/16	2,405																			
2016/17																				
Average All	2,245	1,464	1,256	1,186	1,115	1,094	1,056	1,090	1,052	1,020	1,021	1,022	1,018	1,024	1,020	1,022	1,015	1,003	1,059	
Wtd 3	2,495	1,590	1,287	1,214	1,132	1,112	1,072	1,185	1,062	1,024	1,038	1,041	1,024	1,043	1,034	1,031	1,008	1,015	1,003	
Last 3	2,531	1,569	1,301	1,216	1,135	1,111	1,071	1,199	1,065	1,025	1,038	1,042	1,024	1,044	1,032	1,028	1,015	1,015	1,008	
Last 5	2,258	1,462	1,226	1,166	1,130	1,112	1,053	1,049	1,030	1,012	1,013	1,019	1,007	1,017	1,009	1,002	1,002	1,002	1,001	
x-Hi,low																				
Similar	2,323	1,319	1,165	1,097	1,057	1,036	1,022	1,014	1,010	1,008	1,005	1,005	1,003	1,003	1,002	1,002	1,002	1,002	1,001	1,015
Previous	2,200	1,490	1,240	1,170	1,110	1,100	1,050	1,038	1,017	1,010	1,005	1,004	1,004	1,002	1,002	1,002	1,002	1,001	1,001	
Selected	2,220	1,480	1,230	1,170	1,110	1,100	1,050	1,038	1,017	1,010	1,005	1,004	1,004	1,002	1,002	1,002	1,002	1,001	1,001	1,015
Cumulative	6,713	3,024	2,043	1,661	1,420	1,279	1,163	1,107	1,067	1,049	1,039	1,033	1,029	1,025	1,023	1,021	1,019	1,017	1,016	1,015
Percent	14.9%	33.1%	48.9%	60.2%	70.4%	78.2%	86.0%	90.3%	93.7%	95.3%	96.3%	96.8%	97.2%	97.5%	97.7%	97.9%	98.1%	98.3%	98.4%	98.5%

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

Amounts are limited (net of excess insurance).

Data was provided by the County.

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

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

Claim Period	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-UIT
to 1997/98																				
1998/99																				
1999/00																				
2000/01																				
2001/02																				
2002/03																				
2003/04																				
2004/05																				
2005/06																				
2006/07																				
2007/08																				
2008/09																				
2009/10																				
2010/11																				
2011/12																				
2012/13																				
2013/14																				
2014/15																				
2015/16																				
2016/17																				

II. Limited Reported Incurred Loss Development

Claim Period	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-UIT
to 1997/98																				
1998/99																				
1999/00																				
2000/01																				
2001/02																				
2002/03																				
2003/04																				
2004/05																				
2005/06																				
2006/07																				
2007/08																				
2008/09																				
2009/10																				
2010/11																				
2011/12																				
2012/13																				
2013/14																				
2014/15																				
2015/16																				
2016/17																				

Average All
Wtd 3
Last 3
Last 5
x-Hi,low

1.777	1.267	1.113	1.049	1.020	1.009	1.002	1.001	1.001	1.002	1.000	1.000	1.001	1.001	1.000	0.988	0.999	1.008	1.005	1.002	1.001
1.501	1.253	1.117	1.083	1.067	1.057	1.032	1.031	1.038	1.036	1.025	1.019	1.041	1.004	1.004	0.989	1.010	1.015	1.002	1.001	1.001
2.059	1.267	1.122	1.080	1.071	1.053	1.032	1.032	1.038	1.036	1.026	1.007	1.016	1.007	1.002	1.019	1.014	1.009	1.002	1.001	1.001
		1.148	1.117	1.089	1.069	1.049	1.036	1.045	1.020	1.036	1.026	1.016	1.016	1.010	0.999					
1.418	1.113	1.049	1.020	1.009	1.009	1.002	1.001	1.001	1.002	1.000	1.000	1.001	1.001	1.000	0.988	1.001	1.000	1.001	1.001	1.001
1.650	1.220	1.133	1.085	1.067	1.057	1.025	1.020	1.013	1.004	1.004	1.003	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001
1.750	1.230	1.133	1.085	1.067	1.057	1.030	1.020	1.013	1.004	1.004	1.003	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001
3.075	1.757	1.428	1.261	1.162	1.089	1.057	1.037	1.037	1.023	1.019	1.015	1.012	1.010	1.008	1.006	1.005	1.004	1.003	1.002	1.001
32.5%	56.9%	70.0%	79.3%	86.1%	91.8%	94.6%	96.5%	97.7%	97.7%	98.1%	98.5%	98.5%	98.5%	99.2%	99.4%	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 limited (net of excess insurance).

Data was provided by the County.

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

Historical Ratio of Limited Paid Losses and Limited Reported Incurred Losses

Claim Period	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240		
10/09/08 to 10/07/08																						
1999/00																						
2000/01																						
2001/02																						
2002/03																						
2003/04																						
2004/05																						
2005/06																						
2006/07																						
2007/08																						
2008/09																						
2009/10																						
2010/11																						
2011/12																						
2012/13																						
2013/14																						
2014/15																						
2015/16																						
2016/17																						
Average																						
All	49.0%	63.2%	72.3%	77.5%	81.6%	84.0%	86.7%	87.3%	90.4%	93.8%	95.3%	94.2%	94.1%	91.7%	93.5%	95.9%	97.9%	99.2%	99.0%	98.6%	98.6%	
Last 3	40.8%	57.7%	67.3%	72.8%	79.7%	82.7%	86.5%	89.4%	93.2%	96.0%	94.3%	93.0%	94.1%	91.2%	92.6%	93.9%	97.9%	99.2%	99.0%	98.6%	98.6%	
Last 5	43.1%	57.7%	67.3%	76.1%	79.7%	83.2%	87.1%	89.7%	94.9%	95.5%	94.3%	94.0%	94.1%	92.6%	94.9%	95.8%	97.9%	99.2%	99.0%	98.6%	98.6%	
x-high																						
Implicit	45.8%	58.1%	69.9%	75.9%	81.8%	85.1%	90.9%	93.6%	95.9%	97.2%	97.7%	97.9%	98.1%	98.3%	98.3%	98.4%	98.5%	98.6%	98.6%	98.6%	98.6%	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 11/30/17 (2)	Limited Paid Losses 11/30/17 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1997/98	240.0	\$66,541,213	98.5%	\$67,539,332
1998/99	228.0	4,428,723	98.4%	4,499,649
1999/00	216.0	6,216,376	98.3%	6,322,248
2000/01	204.0	8,246,540	98.1%	8,403,760
2001/02	192.0	8,338,185	97.9%	8,514,147
2002/03	180.0	8,212,171	97.7%	8,402,245
2003/04	168.0	8,033,825	97.5%	8,236,211
2004/05	156.0	8,351,897	97.2%	8,596,545
2005/06	144.0	8,682,949	96.8%	8,973,043
2006/07	132.0	11,224,573	96.3%	11,657,579
2007/08	120.0	16,465,844	95.3%	17,272,052
2008/09	108.0	13,059,555	93.7%	13,931,865
2009/10	96.0	11,807,036	90.3%	13,074,321
2010/11	84.0	9,737,181	86.0%	11,321,417
2011/12	72.0	11,005,865	78.2%	14,076,167
2012/13	60.0	8,594,550	70.4%	12,201,307
2013/14	48.0	9,469,820	60.2%	15,729,351
2014/15	36.0	10,310,467	48.9%	21,064,566
2015/16	24.0	10,919,359	33.1%	33,016,652
2016/17	12.0	4,905,904	14.9%	32,931,227
Total		\$244,552,032		\$325,763,686

(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 11/30/17 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1997/98	240.0	\$67,513,976	99.9%	\$67,581,490
1998/99	228.0	4,428,723	99.8%	4,437,585
1999/00	216.0	6,226,376	99.7%	6,245,074
2000/01	204.0	8,762,487	99.6%	8,797,590
2001/02	192.0	9,062,571	99.5%	9,107,975
2002/03	180.0	8,514,071	99.4%	8,565,284
2003/04	168.0	8,776,558	99.2%	8,847,008
2004/05	156.0	8,649,403	99.0%	8,736,270
2005/06	144.0	8,837,239	98.8%	8,943,845
2006/07	132.0	11,967,595	98.5%	12,148,299
2007/08	120.0	16,997,197	98.1%	17,322,859
2008/09	108.0	13,906,689	97.7%	14,229,831
2009/10	96.0	13,262,350	96.5%	13,746,936
2010/11	84.0	11,017,691	94.6%	11,648,666
2011/12	72.0	13,071,375	91.8%	14,234,562
2012/13	60.0	10,601,669	86.1%	12,318,604
2013/14	48.0	12,219,883	79.3%	15,405,792
2014/15	36.0	14,180,787	70.0%	20,255,699
2015/16	24.0	19,674,782	56.9%	34,567,020
2016/17	12.0	14,584,857	32.5%	44,842,748
Total		\$282,256,281		\$341,983,136

(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 11/30/17 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/17 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/17 (6)	Limited Case Reserves 11/30/17 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1997/98	240.0	98.5%	99.9%	93.2%	\$66,541,213	\$972,762	\$67,584,501
1998/99	228.0	98.4%	99.8%	87.3%	4,428,723	0	4,428,723
1999/00	216.0	98.3%	99.7%	82.1%	6,216,376	10,000	6,228,554
2000/01	204.0	98.1%	99.6%	78.7%	8,246,540	515,947	8,902,356
2001/02	192.0	97.9%	99.5%	75.9%	8,338,185	724,386	9,292,840
2002/03	180.0	97.7%	99.4%	73.6%	8,212,171	301,900	8,622,531
2003/04	168.0	97.5%	99.2%	67.6%	8,033,825	742,733	9,132,647
2004/05	156.0	97.2%	99.0%	65.1%	8,351,897	297,506	8,809,170
2005/06	144.0	96.8%	98.8%	63.1%	8,682,949	154,291	8,927,344
2006/07	132.0	96.3%	98.5%	60.0%	11,224,573	743,023	12,463,904
2007/08	120.0	95.3%	98.1%	59.7%	16,465,844	531,352	17,355,522
2008/09	108.0	93.7%	97.7%	63.7%	13,059,555	847,135	14,388,782
2009/10	96.0	90.3%	96.5%	63.6%	11,807,036	1,455,313	14,094,086
2010/11	84.0	86.0%	94.6%	61.3%	9,737,181	1,280,510	11,826,426
2011/12	72.0	78.2%	91.8%	62.5%	11,005,865	2,065,510	14,308,754
2012/13	60.0	70.4%	86.1%	52.8%	8,594,550	2,007,120	12,392,317
2013/14	48.0	60.2%	79.3%	48.0%	9,469,820	2,750,063	15,195,049
2014/15	36.0	48.9%	70.0%	41.3%	10,310,467	3,870,320	19,691,934
2015/16	24.0	33.1%	56.9%	35.6%	10,919,359	8,755,423	35,493,402
2016/17	12.0	14.9%	32.5%	20.7%	4,905,904	9,678,953	51,635,500
Total					\$244,552,032	\$37,704,248	\$350,774,343

(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 2016/17

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 1997/98	\$67,539,332	\$67,581,490	\$67,584,501	\$67,611,252
1998/99	4,499,649	4,437,585	4,428,723	4,428,723
1999/00	6,322,248	6,245,074	6,228,554	6,228,554
2000/01	8,403,760	8,797,590	8,902,356	8,902,356
2001/02	8,514,147	9,107,975	9,292,840	9,292,840
2002/03	8,402,245	8,565,284	8,622,531	8,622,531
2003/04	8,236,211	8,847,008	9,132,647	9,132,647
2004/05	8,596,545	8,736,270	8,809,170	8,809,170
2005/06	8,973,043	8,943,845	8,927,344	8,927,344
2006/07	11,657,579	12,148,299	12,463,904	12,463,904
2007/08	17,272,052	17,322,859	17,355,522	17,355,522
2008/09	13,931,865	14,229,831	14,388,782	14,388,782
2009/10	13,074,321	13,746,936	14,094,086	14,024,656
2010/11	11,321,417	11,648,666	11,826,426	11,773,098
2011/12	14,076,167	14,234,562	14,308,754	14,279,077
2012/13	12,201,307	12,318,604	12,392,317	12,343,731
2013/14	15,729,351	15,405,792	15,195,049	15,353,851
2014/15	21,064,566	20,255,699	19,691,934	20,248,343
2015/16	33,016,652	34,567,020	35,493,402	34,442,223
2016/17	32,931,227	44,842,748	51,635,500	38,886,988
Total	\$325,763,686	\$341,983,136	\$350,774,343	\$337,515,592

(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.



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

Exhibit WC-Gov-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 (2017/18 = 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)
2007/08	\$17,355,522	\$914,260	\$1.90	1.163	\$2.21	\$1.65
2008/09	14,388,782	942,707	1.53	1.140	1.74	1.69
2009/10	14,024,656	998,250	1.40	1.115	1.57	1.72
2010/11	11,773,098	928,082	1.27	1.106	1.40	1.74
2011/12	14,279,077	899,082	1.59	1.110	1.76	1.73
2012/13	12,343,731	949,338	1.30	1.092	1.42	1.76
2013/14	15,353,851	988,081	1.55	1.074	1.67	1.79
2014/15	20,248,343	998,567	2.03	1.055	2.14	1.82
2015/16	34,442,223	1,053,931	3.27	1.033	3.38	1.86
2016/17	38,886,988	1,075,248	3.62	1.015	3.67	1.89

(7) Projected 2017/18 a-priori loss rate per \$100 of Payroll \$1.92

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/17 (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)
2012/13	\$8,594,550	70.4%	\$1.76	\$949,338	\$4,934,400	\$13,528,950
2013/14	9,469,820	60.2%	1.79	988,081	7,029,023	16,498,843
2014/15	10,310,467	48.9%	1.82	998,567	9,282,128	19,592,595
2015/16	10,919,359	33.1%	1.86	1,053,931	13,113,986	24,033,345
2016/17	4,905,904	14.9%	1.89	1,075,248	17,313,325	22,219,229

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/17 (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)
2012/13	\$10,601,669	86.1%	\$1.76	\$949,338	\$2,326,570	\$12,928,240
2013/14	12,219,883	79.3%	1.79	988,081	3,652,694	15,872,577
2014/15	14,180,787	70.0%	1.82	998,567	5,452,790	19,633,577
2015/16	19,674,782	56.9%	1.86	1,053,931	8,441,637	28,116,419
2016/17	14,584,857	32.5%	1.89	1,075,248	13,727,271	28,312,128

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).



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

Exhibit WC-Gov-Indem-8

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/17 (2)	Reported Claims 11/30/17 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2007/08	120.0	777	100.0%	777	\$914,260	0.85
2008/09	108.0	767	100.0%	767	942,707	0.81
2009/10	96.0	862	100.0%	862	998,250	0.86
2010/11	84.0	789	99.9%	790	928,082	0.85
2011/12	72.0	783	99.8%	785	899,082	0.87
2012/13	60.0	720	99.7%	722	949,338	0.76
2013/14	48.0	759	99.6%	762	988,081	0.77
2014/15	36.0	771	99.2%	777	998,567	0.78
2015/16	24.0	1,104	98.8%	1,117	1,053,931	1.06
2016/17	12.0	1,149	96.4%	1,192	1,075,248	1.11

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2017/18 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2017/18 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2007/08	\$17,355,522	777	\$22,337	1.563	\$34,915	\$17,060	\$13,255,794
2008/09	14,388,782	767	18,760	1.487	27,893	17,936	13,756,734
2009/10	14,024,656	862	16,270	1.413	22,989	18,873	16,268,938
2010/11	11,773,098	790	14,903	1.360	20,268	19,608	15,490,543
2011/12	14,279,077	785	18,190	1.325	24,108	20,121	15,795,113
2012/13	12,343,731	722	17,097	1.266	21,646	21,062	15,206,879
2013/14	15,353,851	762	20,149	1.209	24,363	22,055	16,805,966
2014/15	20,248,343	777	26,060	1.153	30,035	23,138	17,978,125
2015/16	34,442,223	1,117	30,835	1.096	33,790	24,335	27,181,999
2016/17	38,886,988	1,192	32,623	1.045	34,106	25,508	30,405,646

(7) Projected 2017/18 average claim severity

\$26,667

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.



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

Exhibit WC-Gov-Indem-9

Projected Ultimate Limited Losses to 2016/17

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 1997/98	\$67,539,332	\$67,581,490	\$67,584,501				\$67,634,954	\$67,611,252
1998/99	4,499,649	4,437,585	4,428,723				4,428,723	4,428,723
1999/00	6,322,248	6,245,074	6,228,554				6,250,000	6,229,000
2000/01	8,403,760	8,797,590	8,902,356				8,630,000	8,902,000
2001/02	8,514,147	9,107,975	9,292,840				9,280,000	9,293,000
2002/03	8,402,245	8,565,284	8,622,531				8,590,000	8,623,000
2003/04	8,236,211	8,847,008	9,132,647				9,060,000	9,133,000
2004/05	8,596,545	8,736,270	8,809,170				8,740,000	8,809,000
2005/06	8,973,043	8,943,845	8,927,344				8,920,000	8,927,000
2006/07	11,657,579	12,148,299	12,463,904				12,050,000	12,464,000
2007/08	17,272,052	17,322,859	17,355,522				16,800,000	17,356,000
2008/09	13,931,865	14,229,831	14,388,782				14,400,000	14,389,000
2009/10	13,074,321	13,746,936	14,094,086				14,000,000	14,025,000
2010/11	11,321,417	11,648,666	11,826,426				11,400,000	11,773,000
2011/12	14,076,167	14,234,562	14,308,754				14,750,000	14,279,000
2012/13	12,201,307	12,318,604	12,392,317	13,528,950	12,928,240	15,206,879	12,600,000	12,344,000
2013/14	15,729,351	15,405,792	15,195,049	16,498,843	15,872,577	16,805,966	16,250,000	15,354,000
2014/15	21,064,566	20,255,699	19,691,934	19,592,595	19,633,577	17,978,125	17,500,000	20,248,000
2015/16	33,016,652	34,567,020	35,493,402	24,033,345	28,116,419	27,181,999	20,500,000	26,444,000
2016/17	32,931,227	44,842,748	51,635,500	22,219,229	28,312,128	30,405,646	18,300,000	28,000,000
Total	\$325,763,686	\$341,983,136	\$350,774,343				\$300,083,677	\$318,631,975
2012/13 - 2016/17	114,943,103	127,389,864	134,408,203	95,872,962	104,862,942	107,578,614	85,150,000	102,390,000
to 2011/12	210,820,582	214,593,272	216,366,141				214,933,677	216,241,975
						Change		
						All years		\$18,548,298
						2012/13 - 2016/17		17,240,000
						to 2011/12		1,308,298

(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 2017/18 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 (2017/18 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2007/08	\$17,356,000	\$914,260	\$1.90	1.163	\$2.21
2008/09	14,389,000	942,707	1.53	1.140	1.74
2009/10	14,025,000	998,250	1.40	1.115	1.57
2010/11	11,773,000	928,082	1.27	1.106	1.40
2011/12	14,279,000	899,082	1.59	1.110	1.76
2012/13	12,344,000	949,338	1.30	1.092	1.42
2013/14	15,354,000	988,081	1.55	1.074	1.67
2014/15	20,248,000	998,567	2.03	1.055	2.14
2015/16	26,444,000	1,053,931	2.51	1.033	2.59
2016/17	28,000,000	1,075,248	2.60	1.015	2.64
Total	\$174,212,000	\$9,747,546	\$1.79		\$1.91

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)
2017/18	\$2.46	\$1,006,546	\$24,739,000	0.93	\$2.28	\$22,975,000
2018/19	2.49	1,006,546	25,111,000	0.93	2.32	23,320,000
2019/20	2.53	1,006,546	25,487,000	0.93	2.35	23,670,000

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

(3) was provided by the County.

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

(7) 2017/18 is based on (6) and actuarial judgment.
Other period(s) based on 2017/18 plus the trend in Exhibit WC-Gov-Indem-15.

(8) to 2017/18 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.9% 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, 2017

Claim Period (1)	Limited Paid Losses 11/30/17 (2)	Limited Case Reserves 11/30/17 (3)	Limited Reported Incurred Losses 11/30/17 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR (5)-(4) (6)	Estimated Outstanding Losses 11/30/17 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/17 (7)X(8) (9)
to 1997/98	\$66,541,213	\$972,762	\$67,513,976	\$67,611,252	\$97,276	\$1,070,038	0.95	\$1,016,854
1998/99	4,428,723	0	4,428,723	4,428,723	0	0	0.94	0
1999/00	6,216,376	10,000	6,226,376	6,229,000	2,624	12,624	0.92	11,652
2000/01	8,246,540	515,947	8,762,487	8,902,000	139,513	655,460	0.91	599,525
2001/02	8,338,185	724,386	9,062,571	9,293,000	230,429	954,815	0.91	865,467
2002/03	8,212,171	301,900	8,514,071	8,623,000	108,929	410,829	0.90	369,031
2003/04	8,033,825	742,733	8,776,558	9,133,000	356,442	1,099,175	0.89	978,458
2004/05	8,351,897	297,506	8,649,403	8,809,000	159,597	457,103	0.89	406,621
2005/06	8,682,949	154,291	8,837,239	8,927,000	89,761	244,052	0.89	216,489
2006/07	11,224,573	743,023	11,967,595	12,464,000	496,405	1,239,428	0.89	1,098,244
2007/08	16,465,844	531,352	16,997,197	17,356,000	358,803	890,155	0.89	796,060
2008/09	13,059,555	847,135	13,906,689	14,389,000	482,311	1,329,446	0.91	1,204,987
2009/10	11,807,036	1,455,313	13,262,350	14,025,000	762,650	2,217,963	0.93	2,052,267
2010/11	9,737,181	1,280,510	11,017,691	11,773,000	755,309	2,035,819	0.93	1,900,280
2011/12	11,005,865	2,065,510	13,071,375	14,279,000	1,207,625	3,273,135	0.94	3,085,797
2012/13	8,594,550	2,007,120	10,601,669	12,344,000	1,742,331	3,749,451	0.94	3,533,263
2013/14	9,469,820	2,750,063	12,219,883	15,354,000	3,134,117	5,884,180	0.94	5,541,189
2014/15	10,310,467	3,870,320	14,180,787	20,248,000	6,067,213	9,937,533	0.94	9,329,465
2015/16	10,919,359	8,755,423	19,674,782	26,444,000	6,769,218	15,524,641	0.94	14,558,232
2016/17	4,905,904	9,678,953	14,584,857	28,000,000	13,415,143	23,094,096	0.94	21,599,748
Total	\$244,552,032	\$37,704,248	\$282,256,281	\$318,631,975	\$36,375,696	\$74,079,943		\$69,163,629

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

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

(8) is based on a 1.9% interest rate and the payout pattern in Exhibit WC-Gov-Indem-2.

Projected Losses Paid December 1, 2017 to November 30, 2018

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Months of Development 11/30/18 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/17 to 11/30/18 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/17 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/18 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/18 (9)X(10) (11)
to 1997/98	240.0	98.5%	252.0	99.0%	20.0% *	\$1,070,038	\$214,008	\$856,030	0.95	\$813,860
1998/99	228.0	98.4%	240.0	98.5%	6.2% *	0	0	0	0.95	0
1999/00	216.0	98.3%	228.0	98.4%	5.9% *	12,624	741	11,883	0.94	11,125
2000/01	204.0	98.1%	216.0	98.3%	10.5% *	655,460	68,760	586,700	0.92	541,505
2001/02	192.0	97.9%	204.0	98.1%	9.5% *	954,815	90,490	864,325	0.91	790,566
2002/03	180.0	97.7%	192.0	97.9%	8.6% *	410,829	35,500	375,329	0.91	340,207
2003/04	168.0	97.5%	180.0	97.7%	7.9% *	1,099,175	87,265	1,011,910	0.90	908,958
2004/05	156.0	97.2%	168.0	97.5%	13.7% *	457,103	62,419	394,684	0.89	351,338
2005/06	144.0	96.8%	156.0	97.2%	12.0% *	244,052	29,219	214,833	0.89	191,107
2006/07	132.0	96.3%	144.0	96.8%	13.0% *	1,239,428	160,645	1,078,783	0.89	956,947
2007/08	120.0	95.3%	132.0	96.3%	20.0% *	890,155	178,031	712,124	0.89	631,006
2008/09	108.0	93.7%	120.0	95.3%	20.0% *	1,329,446	265,889	1,063,557	0.89	951,133
2009/10	96.0	90.3%	108.0	93.7%	20.0% *	2,217,963	443,593	1,774,370	0.91	1,608,258
2010/11	84.0	86.0%	96.0	90.3%	20.0% *	2,035,819	407,164	1,628,655	0.93	1,506,984
2011/12	72.0	78.2%	84.0	86.0%	20.0% *	3,273,135	654,627	2,618,508	0.93	2,444,175
2012/13	60.0	70.4%	72.0	78.2%	20.0% *	3,749,451	749,890	2,999,561	0.94	2,827,881
2013/14	48.0	60.2%	60.0	70.4%	20.0% *	5,884,180	1,176,836	4,707,344	0.94	4,435,925
2014/15	36.0	48.9%	48.0	60.2%	20.0% *	9,937,533	1,987,507	7,950,026	0.94	7,486,616
2015/16	24.0	33.1%	36.0	48.9%	20.0% *	15,524,641	3,104,928	12,419,713	0.94	11,659,763
2016/17	12.0	14.9%	24.0	33.1%	20.0% *	23,094,096	4,618,819	18,475,277	0.94	17,325,190
2017/18	0.0	0.0%	12.0	14.9%	14.9% *	24,739,000	3,685,473	21,053,527	0.94	19,691,218
Total						\$98,818,943	\$18,021,804	\$80,797,139		\$75,473,762

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

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

(7) to 2016/17 is from Exhibit WC-Gov-Indem-11. The amount for 2017/18 is from Exhibit WC-Gov-Indem-10.

(10) is based on a 1.9% 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, 2018 to November 30, 2019

Claim Period (1)	Months of Development 11/30/18 (2)	Percent Losses Paid (3)	Months of Development 11/30/19 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/18 to 11/30/19 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/18 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/19 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/19 (9)X(10) (11)
to 1997/98	252.0	99.0%	264.0	99.3%	20.0% *	\$856,030	\$171,206	\$684,824	0.95	\$651,527
1998/99	240.0	98.5%	252.0	99.0%	20.0% *	0	0	0	0.95	0
1999/00	228.0	98.4%	240.0	98.5%	6.2% *	11,883	742	11,141	0.95	10,587
2000/01	216.0	98.3%	228.0	98.4%	5.9% *	586,700	34,449	552,251	0.94	517,019
2001/02	204.0	98.1%	216.0	98.3%	10.5% *	864,325	90,671	773,654	0.92	714,058
2002/03	192.0	97.9%	204.0	98.1%	9.5% *	375,329	35,571	339,758	0.91	310,764
2003/04	180.0	97.7%	192.0	97.9%	8.6% *	1,011,910	87,439	924,471	0.91	837,963
2004/05	168.0	97.5%	180.0	97.7%	7.9% *	394,684	31,334	363,350	0.90	326,383
2005/06	156.0	97.2%	168.0	97.5%	13.7% *	214,833	29,336	185,497	0.89	165,125
2006/07	144.0	96.8%	156.0	97.2%	12.0% *	1,078,783	129,158	949,625	0.89	844,750
2007/08	132.0	96.3%	144.0	96.8%	13.0% *	712,124	92,300	619,824	0.89	549,822
2008/09	120.0	95.3%	132.0	96.3%	20.0% *	1,063,557	212,711	850,846	0.89	753,926
2009/10	108.0	93.7%	120.0	95.3%	20.0% *	1,774,370	354,874	1,419,496	0.89	1,269,447
2010/11	96.0	90.3%	108.0	93.7%	20.0% *	1,628,655	325,731	1,302,924	0.91	1,180,947
2011/12	84.0	86.0%	96.0	90.3%	20.0% *	2,618,508	523,702	2,094,806	0.93	1,938,311
2012/13	72.0	78.2%	84.0	86.0%	20.0% *	2,999,561	599,912	2,399,649	0.93	2,239,887
2013/14	60.0	70.4%	72.0	78.2%	20.0% *	4,707,344	941,469	3,765,875	0.94	3,550,335
2014/15	48.0	60.2%	60.0	70.4%	20.0% *	7,950,026	1,590,005	6,360,021	0.94	5,993,310
2015/16	36.0	48.9%	48.0	60.2%	20.0% *	12,419,713	2,483,943	9,935,770	0.94	9,356,611
2016/17	24.0	33.1%	36.0	48.9%	20.0% *	18,475,277	3,695,055	14,780,222	0.94	13,875,835
2017/18	12.0	14.9%	24.0	33.1%	20.0% *	21,053,527	4,210,705	16,842,822	0.94	15,794,356
2018/19	0.0	0.0%	12.0	14.9%	14.9% *	25,111,000	3,740,892	21,370,108	0.94	19,987,314
Total						\$105,908,139	\$19,381,205	\$86,526,934		\$80,868,277

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

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

(7) to 2017/18 is from Exhibit WC-Gov-Indem-12, (9). The amount for 2018/19 is from Exhibit WC-Gov-Indem-10.

(10) is based on a 1.9% 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, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1997/98	264.0	99.3%	276.0	99.5%	20.0% *	\$684,824	\$136,965	\$547,859	0.95	\$521,733
1998/99	252.0	99.0%	264.0	99.3%	20.0% *	0	0	0	0.95	0
1999/00	240.0	98.5%	252.0	99.0%	20.0% *	11,141	2,228	8,913	0.95	8,474
2000/01	228.0	98.4%	240.0	98.5%	6.2% *	552,251	34,483	517,768	0.95	492,034
2001/02	216.0	98.3%	228.0	98.4%	5.9% *	773,654	45,426	728,228	0.94	681,770
2002/03	204.0	98.1%	216.0	98.3%	10.5% *	339,758	35,642	304,116	0.92	280,689
2003/04	192.0	97.9%	204.0	98.1%	9.5% *	924,471	87,614	836,857	0.91	765,442
2004/05	180.0	97.7%	192.0	97.9%	8.6% *	363,350	31,397	331,953	0.91	300,890
2005/06	168.0	97.5%	180.0	97.7%	7.9% *	185,497	14,727	170,770	0.90	153,396
2006/07	156.0	97.2%	168.0	97.5%	13.7% *	949,625	129,675	819,950	0.89	729,899
2007/08	144.0	96.8%	156.0	97.2%	12.0% *	619,824	74,209	545,615	0.89	485,358
2008/09	132.0	96.3%	144.0	96.8%	13.0% *	850,846	110,280	740,566	0.89	656,928
2009/10	120.0	95.3%	132.0	96.3%	20.0% *	1,419,496	283,899	1,135,597	0.89	1,006,241
2010/11	108.0	93.7%	120.0	95.3%	20.0% *	1,302,924	260,585	1,042,339	0.89	932,157
2011/12	96.0	90.3%	108.0	93.7%	20.0% *	2,094,806	418,961	1,675,845	0.91	1,518,957
2012/13	84.0	86.0%	96.0	90.3%	20.0% *	2,399,649	479,930	1,919,719	0.93	1,776,304
2013/14	72.0	78.2%	84.0	86.0%	20.0% *	3,765,875	753,175	3,012,700	0.93	2,812,123
2014/15	60.0	70.4%	72.0	78.2%	20.0% *	6,360,021	1,272,004	5,088,017	0.94	4,796,804
2015/16	48.0	60.2%	60.0	70.4%	20.0% *	9,935,770	1,987,154	7,948,616	0.94	7,490,309
2016/17	36.0	48.9%	48.0	60.2%	20.0% *	14,780,222	2,956,044	11,824,178	0.94	11,134,943
2017/18	24.0	33.1%	36.0	48.9%	20.0% *	16,842,822	3,368,564	13,474,258	0.94	12,649,781
2018/19	12.0	14.9%	24.0	33.1%	20.0% *	21,370,108	4,274,022	17,096,086	0.94	16,031,854
2019/20	0.0	0.0%	12.0	14.9%	14.9% *	25,487,000	3,796,906	21,690,094	0.94	20,286,595
Total						\$112,013,934	\$20,553,890	\$91,460,044		\$85,512,681

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

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

(7) to 2018/19 is from Exhibit WC-Gov-Indem-13. (9). The amount for 2019/20 is from Exhibit WC-Gov-Indem-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit WC-Gov-Indem-2.

Loss Rate and Severity Trend

I. Benefit Level Changes

Effective Date (1)	Benefit Level Change (2)	Cumulative Benefit Level Change (3)
01/15/08	1.003	1.003
07/01/08	1.003	1.007
07/15/08	1.002	1.009
01/15/09	1.002	1.010
07/01/09	1.001	1.011
07/15/09	1.002	1.014
01/15/10	1.004	1.017
07/01/10	1.001	1.018
07/15/10	1.002	1.020
06/28/11	0.989	1.009
07/01/11	1.001	1.010
09/01/11	0.983	0.993
01/15/13	1.001	0.994
07/15/13	1.001	0.995
01/15/14	1.001	0.996
01/15/15	1.002	0.998
07/01/15	1.002	1.000
07/15/15	1.002	1.002
01/15/16	1.002	1.004
07/01/16	1.002	1.006
07/15/16	1.002	1.008

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2017/18 = 1.000) (2)	Residual Trend (2017/18 = 1.000) (3)	Retention Index (2017/18 = 1.000) (4)	Loss Rate Trend (2017/18 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2017/18 = 1.000) (6)	Severity Trend (2017/18 = 1.000) (5)X(6) (7)
2007/08	1.002	1.161	1.000	1.163	1.344	1.563
2008/09	0.997	1.143	1.000	1.140	1.305	1.487
2009/10	0.990	1.126	1.000	1.115	1.267	1.413
2010/11	0.996	1.110	1.000	1.106	1.230	1.360
2011/12	1.015	1.093	1.000	1.110	1.194	1.325
2012/13	1.014	1.077	1.000	1.092	1.159	1.266
2013/14	1.012	1.061	1.000	1.074	1.126	1.209
2014/15	1.009	1.046	1.000	1.055	1.093	1.153
2015/16	1.003	1.030	1.000	1.033	1.061	1.096
2016/17	1.000	1.015	1.000	1.015	1.030	1.045
2017/18	1.000	1.000	1.000	1.000	1.000	1.000
2018/19	1.000	0.985	1.000	0.985	0.971	0.957

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 11/30/17 (5)	Unlimited Case Reserves 11/30/17 (6)	Unlimited Reported Incurred Losses 11/30/17 (7)
950468	2/28/1995	to 1997/98	Unlimited	\$709,046	\$358,818	\$1,067,864
20020274	1/24/2002	2001/02	9,500,000	380,999	724,386	1,105,385
20071070	8/1/2007	2006/07	Unlimited	1,531,623	0	1,531,623
20090036	7/1/2008	2007/08	Unlimited	2,777,098	0	2,777,098
20090386	7/1/2008	2007/08	Unlimited	1,066,663	0	1,066,663
20081090	8/1/2008	2007/08	Unlimited	1,219,594	0	1,219,594

Amounts are gross of excess insurance.

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

Size of Loss Distribution

I. Reported Claim Count

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	16,317	94	39	56	23	44	16,573		
0.01 - 5,000	7,483	445	501	488	711	771	10,399	10,399	63.5%
5,000 - 10,000	1,316	23	34	25	39	41	1,478	11,877	72.5%
10,000 - 25,000	1,495	63	61	54	96	86	1,855	13,732	83.9%
25,000 - 50,000	879	35	47	51	104	111	1,227	14,959	91.4%
50,000 - 100,000	537	30	46	50	83	77	823	15,782	96.4%
100,000 - 250,000	290	23	26	43	44	18	444	16,226	99.1%
250,000 - 500,000	100	7	5	4	3	1	120	16,346	99.8%
500,000 - 750,000	17	0	0	0	1	0	18	16,364	99.9%
750,000 - 1,000,000	5	0	0	0	0	0	5	16,369	100.0%
Over 1,000,000	6	0	0	0	0	0	6	16,375	100.0%
Total	28,445	720	759	771	1,104	1,149	32,948	16,375	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (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	7,115,839	161,841	234,904	183,771	279,483	349,253	8,325,091	8,325,091	2.9%
5,000 - 10,000	9,689,598	172,725	250,410	185,673	290,547	313,775	10,902,728	19,227,819	6.8%
10,000 - 25,000	24,252,519	1,092,926	1,054,174	938,734	1,681,668	1,472,273	30,492,294	49,720,113	17.6%
25,000 - 50,000	30,864,086	1,265,075	1,665,769	1,947,214	3,693,569	4,108,993	43,544,707	93,264,819	33.0%
50,000 - 100,000	37,114,814	2,076,302	3,186,821	3,478,190	6,120,658	5,671,836	57,648,622	150,913,441	53.5%
100,000 - 250,000	44,938,660	3,731,779	4,263,512	6,396,509	6,142,251	2,393,727	67,866,437	218,779,878	77.5%
250,000 - 500,000	34,373,037	2,101,022	1,564,294	1,050,696	936,605	275,000	40,300,654	259,080,532	91.8%
500,000 - 750,000	9,753,972	0	0	0	530,000	0	10,283,972	269,364,504	95.4%
750,000 - 1,000,000	4,124,716	0	0	0	0	0	4,124,716	273,489,220	96.9%
Over 1,000,000	8,768,228	0	0	0	0	0	8,768,228	282,257,448	100.0%
Total	\$210,995,470	\$10,601,669	\$12,219,883	\$14,180,787	\$19,674,782	\$14,584,857	\$282,257,448	\$282,257,448	

Amounts are gross of excess insurance and other recoveries.

Data was provided by the County.



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

Data Summary as of November 30, 2017
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Payroll (000) (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Limited Paid Losses 11/30/17 (8)	Limited Case Reserves 11/30/17 (9)	Limited Reported Incurred Losses 11/30/17 (10)
to 1997/98	See Note	None	240.0	Not Provided	14,048	12	\$22,732,880	\$194,296	\$22,927,176
1998/99	Unlimited	None	228.0	Not Provided	1,120	0	2,366,347	0	2,366,347
1999/00	Unlimited	None	216.0	Not Provided	1,134	2	2,605,405	1,275	2,606,680
2000/01	9,500,000	None	204.0	719,952	1,183	4	4,453,355	25,680	4,479,035
2001/02	9,500,000	None	192.0	752,457	1,161	1	4,108,700	24,098	4,132,798
2002/03	9,500,000	None	180.0	779,098	1,223	3	4,119,372	30,134	4,149,506
2003/04	Unlimited	None	168.0	810,182	1,218	6	3,753,039	93,822	3,846,861
2004/05	Unlimited	None	156.0	832,363	1,318	4	11,676,949	21,329	11,698,277
2005/06	Unlimited	None	144.0	826,479	1,159	8	3,985,134	16,911	4,002,045
2006/07	Unlimited	None	132.0	859,906	903	8	4,700,520	120,024	4,820,544
2007/08	Unlimited	None	120.0	914,260	777	18	5,999,332	265,228	6,264,560
2008/09	Unlimited	None	108.0	942,707	767	20	6,265,543	507,821	6,773,364
2009/10	Unlimited	None	96.0	998,250	862	43	6,203,602	558,098	6,761,699
2010/11	Unlimited	None	84.0	928,082	789	30	4,569,269	624,244	5,193,513
2011/12	Unlimited	None	72.0	899,082	783	58	4,298,392	573,115	4,871,507
2012/13	Unlimited	None	60.0	949,338	720	64	3,869,408	856,436	4,725,843
2013/14	Unlimited	None	48.0	988,081	759	93	4,380,776	1,515,238	5,896,015
2014/15	Unlimited	None	36.0	998,567	771	136	4,207,068	2,349,030	6,556,098
2015/16	Unlimited	None	24.0	1,053,931	1,104	339	6,335,259	4,844,292	11,179,551
2016/17	Unlimited	None	12.0	1,075,248	1,149	679	2,613,043	8,336,840	10,949,883
Total					32,948	1,528	\$113,243,393	\$20,957,911	\$134,201,304

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

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

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

Data was provided by the County.



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

Data Summary as of November 30, 2017
Gross Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Payroll (000) (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Gross Unlimited Paid Losses 11/30/17 (8)	Gross Unlimited Case Reserves 11/30/17 (9)	Gross Unlimited Reported Incurred Losses 11/30/17 (10)
to 1997/98	Unlimited	None	240.0	Not Provided	14,048	12	\$22,732,880	\$194,296	\$22,927,176
1998/99	Unlimited	None	228.0	Not Provided	1,120	0	2,366,347	0	2,366,347
1999/00	Unlimited	None	216.0	Not Provided	1,134	2	2,605,405	1,275	2,606,680
2000/01	Unlimited	None	204.0	719,952	1,183	4	4,453,355	25,680	4,479,035
2001/02	Unlimited	None	192.0	752,457	1,161	1	4,108,700	24,098	4,132,798
2002/03	Unlimited	None	180.0	779,098	1,223	3	4,119,372	30,134	4,149,506
2003/04	Unlimited	None	168.0	810,182	1,218	6	3,753,039	93,822	3,846,861
2004/05	Unlimited	None	156.0	832,363	1,318	4	11,676,949	21,329	11,698,277
2005/06	Unlimited	None	144.0	826,479	1,159	8	3,985,134	16,911	4,002,045
2006/07	Unlimited	None	132.0	859,906	903	8	4,700,520	120,024	4,820,544
2007/08	Unlimited	None	120.0	914,260	777	18	5,999,332	265,228	6,264,560
2008/09	Unlimited	None	108.0	942,707	767	20	6,265,543	507,821	6,773,364
2009/10	Unlimited	None	96.0	998,250	862	43	6,203,602	558,098	6,761,699
2010/11	Unlimited	None	84.0	928,082	789	30	4,569,269	624,244	5,193,513
2011/12	Unlimited	None	72.0	899,082	783	58	4,298,392	573,115	4,871,507
2012/13	Unlimited	None	60.0	949,338	720	64	3,869,408	856,436	4,725,843
2013/14	Unlimited	None	48.0	988,081	759	93	4,380,776	1,515,238	5,896,015
2014/15	Unlimited	None	36.0	998,567	771	136	4,207,068	2,349,030	6,556,098
2015/16	Unlimited	None	24.0	1,053,931	1,104	339	6,335,259	4,844,292	11,179,551
2016/17	Unlimited	None	12.0	1,075,248	1,149	679	2,613,043	8,336,840	10,949,883
Total					32,948	1,528	\$113,243,393	\$20,957,911	\$134,201,304

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

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	99.9%	100.0%	100.0%
348.0	99.9%	100.0%	100.0%
336.0	99.8%	100.0%	100.0%
324.0	99.8%	100.0%	100.0%
312.0	99.7%	100.0%	100.0%
300.0	99.6%	100.0%	100.0%
288.0	99.4%	100.0%	100.0%
276.0	99.1%	100.0%	100.0%
264.0	98.7%	100.0%	100.0%
252.0	98.2%	100.0%	100.0%
240.0	97.4%	100.0%	100.0%
228.0	97.4%	100.0%	100.0%
216.0	97.4%	100.0%	100.0%
204.0	97.3%	100.0%	100.0%
192.0	97.2%	99.9%	100.0%
180.0	97.1%	99.8%	100.0%
168.0	97.0%	99.7%	100.0%
156.0	96.8%	99.6%	100.0%
144.0	96.5%	99.5%	100.0%
132.0	96.2%	99.4%	100.0%
120.0	95.7%	99.2%	100.0%
108.0	95.0%	99.0%	100.0%
96.0	93.7%	98.7%	100.0%
84.0	91.8%	98.4%	99.9%
72.0	89.4%	97.4%	99.8%
60.0	85.7%	95.8%	99.7%
48.0	79.9%	93.5%	99.6%
36.0	71.0%	87.4%	99.3%
24.0	55.9%	76.0%	98.9%
12.0	20.0%	49.6%	96.5%

(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).

(6), (7) and (8) are interpolated, based on (2), (3) and (4), respectively.

COOK COUNTY, ILLINOIS
 WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)
 Historical Limited Paid Losses (\$000) and Limited Paid Loss Development

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 1997/98																					
1998/99																					
1999/00																					
2000/01																					
2001/02																					
2002/03																					
2003/04																					
2004/05																					
2005/06																					
2006/07																					
2007/08																					
2008/09																					
2009/10																					
2010/11																					
2011/12																					
2012/13																					
2013/14																					
2014/15																					
2015/16																					
2016/17																					

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 1997/98																					
1998/99																					
1999/00																					
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2013/14																					
2014/15																					
2015/16																					
2016/17																					

Average All
 Wtd 3
 Last 3
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 x-Hi,low

2.599	1.230	1.091	1.066	1.044	1.036	1.008	1.022	1.014	1.010	1.008	1.005	1.005	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.027
2.535	1.127	1.029	0.994	1.018	1.014	0.999	1.020	1.014	1.010	0.995	0.997	0.988	0.989	0.989	0.983	0.976	0.982	0.998	0.883	
2.523	1.144	1.027	1.003	1.013	1.018	0.995	1.020	1.014	1.008	0.986	0.976	0.980	0.986	0.977	0.964	0.972	0.986	1.000	1.000	
2.535	1.259	1.093	1.059	1.057	1.031	1.005	1.005	1.013	1.002	1.002	1.000	1.000	1.000	1.001	0.971	0.966	0.982	1.000	1.000	
2.323	1.319	1.165	1.097	1.057	1.036	1.022	1.020	1.014	1.010	1.008	1.005	1.005	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.027
2.800	1.270	1.125	1.073	1.043	1.027	1.020	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	
2.800	1.270	1.125	1.073	1.043	1.027	1.020	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	
5.007	1.788	1.408	1.252	1.167	1.118	1.089	1.089	1.068	1.053	1.045	1.039	1.036	1.033	1.031	1.030	1.029	1.028	1.027	1.027	1.027
20.0%	55.9%	71.0%	79.9%	85.7%	89.4%	91.8%	91.8%	93.7%	95.0%	95.7%	96.2%	96.5%	96.8%	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%	97.4%

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

Amounts are limited (net of excess insurance).

Data was provided by the County.

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

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 1/09/08																					
1998/09																					
1999/00																					
2000/01																					
2001/02																					
2002/03																					
2003/04																					
2004/05																					
2005/06																					
2006/07																					
2007/08																					
2008/09																					
2009/10																					
2010/11																					
2011/12																					
2012/13																					
2013/14																					
2014/15																					
2015/16																					
2016/17																					
Average																					
All	36.3%	69.8%	79.1%	84.2%	86.8%	88.8%	87.8%	87.9%	89.6%	94.6%	96.5%	97.9%	98.1%	98.4%	98.8%	98.8%	99.7%	99.8%	99.8%	99.2%	
Last 3	24.2%	55.6%	68.5%	78.6%	86.5%	90.6%	90.0%	93.7%	95.2%	97.2%	98.5%	98.3%	99.1%	99.0%	98.7%	98.3%	99.8%	99.8%	99.8%	99.2%	
Last 5	27.5%	59.4%	77.2%	85.6%	91.1%	93.1%	93.5%	96.1%	97.2%	98.3%	98.9%	99.6%	99.1%	98.4%	98.8%	98.7%	99.8%	99.8%	99.8%	99.2%	
x-high																					
Implicit	40.2%	73.6%	81.3%	85.5%	89.5%	91.6%	93.3%	94.9%	95.9%	96.5%	96.6%	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 11/30/17 (2)	Limited Paid Losses 11/30/17 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1997/98	240.0	\$22,732,880	97.4%	\$23,346,667
1998/99	228.0	2,366,347	97.4%	2,430,239
1999/00	216.0	2,605,405	97.4%	2,675,751
2000/01	204.0	4,453,355	97.3%	4,578,169
2001/02	192.0	4,108,700	97.2%	4,228,079
2002/03	180.0	4,119,372	97.1%	4,243,300
2003/04	168.0	3,753,039	97.0%	3,869,812
2004/05	156.0	11,676,949	96.8%	12,064,348
2005/06	144.0	3,985,134	96.5%	4,129,698
2006/07	132.0	4,700,520	96.2%	4,885,649
2007/08	120.0	5,999,332	95.7%	6,266,792
2008/09	108.0	6,265,543	95.0%	6,597,231
2009/10	96.0	6,203,602	93.7%	6,623,458
2010/11	84.0	4,569,269	91.8%	4,976,085
2011/12	72.0	4,298,392	89.4%	4,807,481
2012/13	60.0	3,869,408	85.7%	4,513,779
2013/14	48.0	4,380,776	79.9%	5,483,358
2014/15	36.0	4,207,068	71.0%	5,924,172
2015/16	24.0	6,335,259	55.9%	11,329,641
2016/17	12.0	2,613,043	20.0%	13,084,475
Total		\$113,243,393		\$136,058,183

(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 11/30/17 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1997/98	240.0	\$22,927,176	100.0%	\$22,927,176
1998/99	228.0	2,366,347	100.0%	2,366,347
1999/00	216.0	2,606,680	100.0%	2,606,680
2000/01	204.0	4,479,035	100.0%	4,479,035
2001/02	192.0	4,132,798	99.9%	4,136,931
2002/03	180.0	4,149,506	99.8%	4,157,809
2003/04	168.0	3,846,861	99.7%	3,858,413
2004/05	156.0	11,698,277	99.6%	11,745,141
2005/06	144.0	4,002,045	99.5%	4,022,095
2006/07	132.0	4,820,544	99.4%	4,849,539
2007/08	120.0	6,264,560	99.2%	6,314,846
2008/09	108.0	6,773,364	99.0%	6,841,390
2009/10	96.0	6,761,699	98.7%	6,850,097
2010/11	84.0	5,193,513	98.4%	5,277,193
2011/12	72.0	4,871,507	97.4%	4,999,499
2012/13	60.0	4,725,843	95.8%	4,932,458
2013/14	48.0	5,896,015	93.5%	6,307,635
2014/15	36.0	6,556,098	87.4%	7,504,767
2015/16	24.0	11,179,551	76.0%	14,716,819
2016/17	12.0	10,949,883	49.6%	22,054,158
Total		\$134,201,304		\$150,948,028

(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 11/30/17 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/17 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/17 (6)	Limited Case Reserves 11/30/17 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1997/98	240.0	97.4%	100.0%	100.0%	\$22,732,880	\$194,296	\$22,927,176
1998/99	228.0	97.4%	100.0%	100.0%	2,366,347	0	2,366,347
1999/00	216.0	97.4%	100.0%	100.0%	2,605,405	1,275	2,606,680
2000/01	204.0	97.3%	100.0%	100.0%	4,453,355	25,680	4,479,035
2001/02	192.0	97.2%	99.9%	96.5%	4,108,700	24,098	4,133,682
2002/03	180.0	97.1%	99.8%	93.2%	4,119,372	30,134	4,151,718
2003/04	168.0	97.0%	99.7%	90.1%	3,753,039	93,822	3,857,196
2004/05	156.0	96.8%	99.6%	87.6%	11,676,949	21,329	11,701,304
2005/06	144.0	96.5%	99.5%	85.8%	3,985,134	16,911	4,004,853
2006/07	132.0	96.2%	99.4%	84.2%	4,700,520	120,024	4,843,030
2007/08	120.0	95.7%	99.2%	81.3%	5,999,332	265,228	6,325,398
2008/09	108.0	95.0%	99.0%	80.2%	6,265,543	507,821	6,898,555
2009/10	96.0	93.7%	98.7%	79.6%	6,203,602	558,098	6,904,356
2010/11	84.0	91.8%	98.4%	80.6%	4,569,269	624,244	5,343,726
2011/12	72.0	89.4%	97.4%	75.8%	4,298,392	573,115	5,054,239
2012/13	60.0	85.7%	95.8%	70.7%	3,869,408	856,436	5,081,508
2013/14	48.0	79.9%	93.5%	67.5%	4,380,776	1,515,238	6,624,039
2014/15	36.0	71.0%	87.4%	56.4%	4,207,068	2,349,030	8,372,920
2015/16	24.0	55.9%	76.0%	45.5%	6,335,259	4,844,292	16,987,694
2016/17	12.0	20.0%	49.6%	37.1%	2,613,043	8,336,840	25,093,025
Total					\$113,243,393	\$20,957,911	\$157,756,480

(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 2016/17

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 1997/98	\$23,346,667	\$22,927,176	\$22,927,176	\$22,946,606
1998/99	2,430,239	2,366,347	2,366,347	2,366,347
1999/00	2,675,751	2,606,680	2,606,680	2,606,808
2000/01	4,578,169	4,479,035	4,479,035	4,481,603
2001/02	4,228,079	4,136,931	4,133,682	4,135,208
2002/03	4,243,300	4,157,809	4,151,718	4,152,520
2003/04	3,869,812	3,858,413	3,857,196	3,857,196
2004/05	12,064,348	11,745,141	11,701,304	11,701,304
2005/06	4,129,698	4,022,095	4,004,853	4,004,853
2006/07	4,885,649	4,849,539	4,843,030	4,843,030
2007/08	6,266,792	6,314,846	6,325,398	6,325,398
2008/09	6,597,231	6,841,390	6,898,555	6,892,838
2009/10	6,623,458	6,850,097	6,904,356	6,893,504
2010/11	4,976,085	5,277,193	5,343,726	5,323,766
2011/12	4,807,481	4,999,499	5,054,239	5,032,343
2012/13	4,513,779	4,932,458	5,081,508	4,965,115
2013/14	5,483,358	6,307,635	6,624,039	6,269,341
2014/15	5,924,172	7,504,767	8,372,920	7,449,094
2015/16	11,329,641	14,716,819	16,987,694	14,493,558
2016/17	13,084,475	22,054,158	25,093,025	21,461,076
Total	\$136,058,183	\$150,948,028	\$157,756,480	\$150,201,508

(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 (2017/18 = 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)
2007/08	\$6,325,398	\$914,260	\$0.69	1.425	\$0.99	\$0.62
2008/09	6,892,838	942,707	0.73	1.284	0.94	0.69
2009/10	6,893,504	998,250	0.69	1.231	0.85	0.72
2010/11	5,323,766	928,082	0.57	1.213	0.70	0.73
2011/12	5,032,343	899,082	0.56	1.298	0.73	0.68
2012/13	4,965,115	949,338	0.52	1.243	0.65	0.71
2013/14	6,269,341	988,081	0.63	1.186	0.75	0.74
2014/15	7,449,094	998,567	0.75	1.129	0.84	0.78
2015/16	14,493,558	1,053,931	1.38	1.082	1.49	0.81
2016/17	21,461,076	1,075,248	2.00	1.040	2.08	0.85

(7) Projected 2017/18 a-priori loss rate per \$100 of Payroll \$0.88

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/17 (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)
2012/13	\$3,869,408	85.7%	\$0.71	\$949,338	\$960,401	\$4,829,808
2013/14	4,380,776	79.9%	0.74	988,081	1,476,123	5,856,899
2014/15	4,207,068	71.0%	0.78	998,567	2,258,364	6,465,432
2015/16	6,335,259	55.9%	0.81	1,053,931	3,783,682	10,118,941
2016/17	2,613,043	20.0%	0.85	1,075,248	7,290,184	9,903,226

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/17 (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)
2012/13	\$4,725,843	95.8%	\$0.71	\$949,338	\$281,809	\$5,007,652
2013/14	5,896,015	93.5%	0.74	988,081	479,058	6,375,073
2014/15	6,556,098	87.4%	0.78	998,567	984,923	7,541,022
2015/16	11,179,551	76.0%	0.81	1,053,931	2,063,018	13,242,569
2016/17	10,949,883	49.6%	0.85	1,075,248	4,586,574	15,536,457

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

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

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

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

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

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

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

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/17 (2)	Reported Claims 11/30/17 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2007/08	120.0	777	100.0%	777	\$914,260	0.85
2008/09	108.0	767	100.0%	767	942,707	0.81
2009/10	96.0	862	100.0%	862	998,250	0.86
2010/11	84.0	789	99.9%	790	928,082	0.85
2011/12	72.0	783	99.8%	785	899,082	0.87
2012/13	60.0	720	99.7%	722	949,338	0.76
2013/14	48.0	759	99.6%	762	988,081	0.77
2014/15	36.0	771	99.3%	776	998,567	0.78
2015/16	24.0	1,104	98.9%	1,116	1,053,931	1.06
2016/17	12.0	1,149	96.5%	1,191	1,075,248	1.11

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2017/18 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2017/18 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2007/08	\$6,325,398	777	\$8,141	1.915	\$15,592	\$6,425	\$4,991,938
2008/09	6,892,838	767	8,987	1.675	15,053	7,346	5,634,654
2009/10	6,893,504	862	7,997	1.559	12,469	7,892	6,802,702
2010/11	5,323,766	790	6,739	1.492	10,054	8,248	6,515,864
2011/12	5,032,343	785	6,411	1.550	9,934	7,941	6,233,665
2012/13	4,965,115	722	6,877	1.441	9,912	8,537	6,163,920
2013/14	6,269,341	762	8,227	1.335	10,982	9,219	7,024,931
2014/15	7,449,094	776	9,599	1.234	11,845	9,973	7,738,707
2015/16	14,493,558	1,116	12,987	1.148	14,906	10,721	11,964,567
2016/17	21,461,076	1,191	18,019	1.071	19,302	11,487	13,681,221

(7) Projected 2017/18 average claim severity

\$12,305

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 2016/17

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 1997/98	\$23,346,667	\$22,927,176	\$22,927,176				\$22,960,000	\$22,947,000
1998/99	2,430,239	2,366,347	2,366,347				2,366,347	2,366,347
1999/00	2,675,751	2,606,680	2,606,680				2,610,000	2,607,000
2000/01	4,578,169	4,479,035	4,479,035				4,563,088	4,482,000
2001/02	4,228,079	4,136,931	4,133,682				4,140,000	4,135,208
2002/03	4,243,300	4,157,809	4,151,718				4,131,170	4,153,000
2003/04	3,869,812	3,858,413	3,857,196				3,860,000	3,857,000
2004/05	12,064,348	11,745,141	11,701,304				11,700,000	11,701,000
2005/06	4,129,698	4,022,095	4,004,853				4,070,000	4,005,000
2006/07	4,885,649	4,849,539	4,843,030				4,820,000	4,843,000
2007/08	6,266,792	6,314,846	6,325,398				6,280,000	6,325,000
2008/09	6,597,231	6,841,390	6,898,555				6,750,000	6,893,000
2009/10	6,623,458	6,850,097	6,904,356				6,910,000	6,894,000
2010/11	4,976,085	5,277,193	5,343,726				4,940,000	5,324,000
2011/12	4,807,481	4,999,499	5,054,239				5,010,000	5,032,000
2012/13	4,513,779	4,932,458	5,081,508	4,829,808	5,007,652	6,163,920	4,900,000	4,965,000
2013/14	5,483,358	6,307,635	6,624,039	5,856,899	6,375,073	7,024,931	6,800,000	6,269,000
2014/15	5,924,172	7,504,767	8,372,920	6,465,432	7,541,022	7,738,707	8,350,000	7,449,000
2015/16	11,329,641	14,716,819	16,987,694	10,118,941	13,242,569	11,964,567	12,500,000	13,250,000
2016/17	13,084,475	22,054,158	25,093,025	9,903,226	15,536,457	13,681,221	8,930,000	16,000,000
Total	\$136,058,183	\$150,948,028	\$157,756,480				\$136,590,605	\$143,497,556
2012/13 - 2016/17	40,335,426	55,515,837	62,159,185	37,174,307	47,702,773	46,573,346	41,480,000	47,933,000
to 2011/12	95,722,757	95,432,192	95,597,295				95,110,605	95,564,556
						Change		
						All years		\$6,906,950
						2012/13 - 2016/17		6,453,000
						to 2011/12		453,950

(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.



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

Exhibit WC-Gov-Med-10

Projected Ultimate Limited Losses for 2017/18 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 (2017/18 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2007/08	\$6,325,000	\$914,260	\$0.69	1.425	\$0.99
2008/09	6,893,000	942,707	0.73	1.284	0.94
2009/10	6,894,000	998,250	0.69	1.231	0.85
2010/11	5,324,000	928,082	0.57	1.213	0.70
2011/12	5,032,000	899,082	0.56	1.298	0.73
2012/13	4,965,000	949,338	0.52	1.243	0.65
2013/14	6,269,000	988,081	0.63	1.186	0.75
2014/15	7,449,000	998,567	0.75	1.129	0.84
2015/16	13,250,000	1,053,931	1.26	1.082	1.36
2016/17	16,000,000	1,075,248	1.49	1.040	1.55
Total	\$78,401,000	\$9,747,546	\$0.80		\$0.93

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)
2017/18	\$0.87	\$1,006,546	\$8,726,000	0.95	\$0.82	\$8,256,000
2018/19	0.90	1,006,546	9,075,000	0.95	0.85	8,586,000
2019/20	0.94	1,006,546	9,438,000	0.95	0.89	8,930,000

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

(3) was provided by the County.

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

(7) 2017/18 is based on (6) and actuarial judgment.
Other period(s) based on 2017/18 plus the trend in Exhibit WC-Gov-Med-15.

(8) to 2017/18 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.9% 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, 2017

Claim Period (1)	Limited Paid Losses 11/30/17 (2)	Limited Case Reserves 11/30/17 (3)	Limited Reported Incurred Losses 11/30/17 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/17 (5)-(4) (6)	Estimated Outstanding Losses 11/30/17 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/17 (7)X(8) (9)
to 1997/98	\$22,732,880	\$194,296	\$22,927,176	\$22,947,000	\$19,824	\$214,120	0.95	\$203,478
1998/99	2,366,347	0	2,366,347	2,366,347	0	0	0.93	0
1999/00	2,605,405	1,275	2,606,680	2,607,000	320	1,595	0.92	1,460
2000/01	4,453,355	25,680	4,479,035	4,482,000	2,965	28,645	0.90	25,821
2001/02	4,108,700	24,098	4,132,798	4,135,208	2,410	26,508	0.89	23,546
2002/03	4,119,372	30,134	4,149,506	4,153,000	3,494	33,628	0.88	29,447
2003/04	3,753,039	93,822	3,846,861	3,857,000	10,139	103,961	0.86	89,776
2004/05	11,676,949	21,329	11,698,277	11,701,000	2,723	24,052	0.86	20,590
2005/06	3,985,134	16,911	4,002,045	4,005,000	2,956	19,867	0.85	16,938
2006/07	4,700,520	120,024	4,820,544	4,843,000	22,456	142,480	0.85	120,880
2007/08	5,999,332	265,228	6,264,560	6,325,000	60,440	325,668	0.85	276,917
2008/09	6,265,543	507,821	6,773,364	6,893,000	119,636	627,457	0.86	538,391
2009/10	6,203,602	558,098	6,761,699	6,894,000	132,301	690,399	0.87	602,572
2010/11	4,569,269	624,244	5,193,513	5,324,000	130,487	754,731	0.89	669,176
2011/12	4,298,392	573,115	4,871,507	5,032,000	160,493	733,608	0.90	658,476
2012/13	3,869,408	856,436	4,725,843	4,965,000	239,157	1,095,593	0.91	996,110
2013/14	4,380,776	1,515,238	5,896,015	6,269,000	372,985	1,888,223	0.92	1,738,641
2014/15	4,207,068	2,349,030	6,556,098	7,449,000	892,902	3,241,932	0.93	3,015,852
2015/16	6,335,259	4,844,292	11,179,551	13,250,000	2,070,449	6,914,741	0.94	6,496,640
2016/17	2,613,043	8,336,840	10,949,883	16,000,000	5,050,117	13,386,957	0.95	12,755,592
Total	\$113,243,393	\$20,957,911	\$134,201,304	\$143,497,556	\$9,296,254	\$30,254,165		\$28,280,303

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

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

(8) is based on a 1.9% 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, 2017 to November 30, 2018

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Months of Development 11/30/18 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/17 to 11/30/18 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/17 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/18 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/18 (9)X(10) (11)
to 1997/98	240.0	97.4%	252.0	98.2%	30.0%	\$214,120	\$64,236	\$149,884	0.95	\$142,500
1998/99	228.0	97.4%	240.0	97.4%	100.0%	0	0	0	0.95	0
1999/00	216.0	97.4%	228.0	97.4%	100.0%	1,595	1,595	0	0.93	0
2000/01	204.0	97.3%	216.0	97.4%	3.6%	28,645	1,022	27,623	0.92	25,280
2001/02	192.0	97.2%	204.0	97.3%	3.4%	26,508	912	25,596	0.90	23,073
2002/03	180.0	97.1%	192.0	97.2%	3.3%	33,628	1,118	32,510	0.89	28,878
2003/04	168.0	97.0%	180.0	97.1%	3.2%	103,961	3,341	100,620	0.88	88,109
2004/05	156.0	96.8%	168.0	97.0%	6.0%	24,052	1,450	22,602	0.86	19,518
2005/06	144.0	96.5%	156.0	96.8%	8.3%	19,867	1,643	18,224	0.86	15,601
2006/07	132.0	96.2%	144.0	96.5%	7.6%	142,480	10,853	131,627	0.85	112,221
2007/08	120.0	95.7%	132.0	96.2%	11.2%	325,668	36,525	289,143	0.85	245,308
2008/09	108.0	95.0%	120.0	95.7%	15.1%	627,457	94,821	532,636	0.85	452,903
2009/10	96.0	93.7%	108.0	95.0%	20.7%	690,399	142,814	547,585	0.86	469,857
2010/11	84.0	91.8%	96.0	93.7%	22.5%	754,731	169,540	585,191	0.87	510,748
2011/12	72.0	89.4%	84.0	91.8%	22.8%	733,608	167,240	566,368	0.89	502,166
2012/13	60.0	85.7%	72.0	89.4%	25.8%	1,095,593	282,895	812,698	0.90	729,466
2013/14	48.0	79.9%	60.0	85.7%	29.0%	1,888,223	547,667	1,340,556	0.91	1,218,830
2014/15	36.0	71.0%	48.0	79.9%	30.6%	3,241,932	992,881	2,249,051	0.92	2,070,885
2015/16	24.0	55.9%	36.0	71.0%	34.2%	6,914,741	2,368,221	4,546,520	0.93	4,229,463
2016/17	12.0	20.0%	24.0	55.9%	44.9%	13,386,957	6,013,049	7,373,908	0.94	6,928,044
2017/18	0.0	0.0%	12.0	20.0%	20.0%	8,726,000	1,742,631	6,983,369	0.95	6,654,014
Total						\$38,980,165	\$12,644,454	\$26,335,711		\$24,466,864

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

(7) to 2016/17 is from Exhibit WC-Gov-Med-11. The amount for 2017/18 is from Exhibit WC-Gov-Med-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit WC-Gov-Med-2.

Projected Losses Paid December 1, 2018 to November 30, 2019

Claim Period (1)	Months of Development 11/30/18 (2)	Percent Losses Paid (3)	Months of Development 11/30/19 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/18 to 11/30/19 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/18 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/19 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/19 (9)X(10) (11)
to 1997/98	252.0	98.2%	264.0	98.7%	30.0%	\$149,884	\$44,965	\$104,919	0.95	\$99,818
1998/99	240.0	97.4%	252.0	98.2%	30.0%	0	0	0	0.95	0
1999/00	228.0	97.4%	240.0	97.4%	100.0%	0	0	0	0.95	0
2000/01	216.0	97.4%	228.0	97.4%	100.0%	27,623	27,623	0	0.93	0
2001/02	204.0	97.3%	216.0	97.4%	3.6%	25,596	913	24,683	0.92	22,590
2002/03	192.0	97.2%	204.0	97.3%	3.4%	32,510	1,119	31,391	0.90	28,297
2003/04	180.0	97.1%	192.0	97.2%	3.3%	100,620	3,345	97,275	0.89	86,406
2004/05	168.0	97.0%	180.0	97.1%	3.2%	22,602	726	21,876	0.88	19,156
2005/06	156.0	96.8%	168.0	97.0%	6.0%	18,224	1,099	17,125	0.86	14,788
2006/07	144.0	96.5%	156.0	96.8%	8.3%	131,627	10,885	120,742	0.86	103,365
2007/08	132.0	96.2%	144.0	96.5%	7.6%	289,143	22,024	267,119	0.85	227,737
2008/09	120.0	95.7%	132.0	96.2%	11.2%	532,636	59,737	472,899	0.85	401,206
2009/10	108.0	95.0%	120.0	95.7%	15.1%	547,585	82,751	464,834	0.85	395,250
2010/11	96.0	93.7%	108.0	95.0%	20.7%	585,191	121,051	464,140	0.86	398,256
2011/12	84.0	91.8%	96.0	93.7%	22.5%	566,368	127,226	439,142	0.87	383,278
2012/13	72.0	89.4%	84.0	91.8%	22.8%	812,698	185,270	627,428	0.89	556,304
2013/14	60.0	85.7%	72.0	89.4%	25.8%	1,340,556	346,148	994,408	0.90	892,566
2014/15	48.0	79.9%	60.0	85.7%	29.0%	2,249,051	652,323	1,596,728	0.91	1,451,740
2015/16	36.0	71.0%	48.0	79.9%	30.6%	4,546,520	1,392,427	3,154,093	0.92	2,904,230
2016/17	24.0	55.9%	36.0	71.0%	34.2%	7,373,908	2,525,481	4,848,427	0.93	4,510,317
2017/18	12.0	20.0%	24.0	55.9%	44.9%	6,983,369	3,136,735	3,846,634	0.94	3,614,047
2018/19	0.0	0.0%	12.0	20.0%	20.0%	9,075,000	1,812,328	7,262,672	0.95	6,920,145
Total						\$35,410,711	\$10,554,176	\$24,856,535		\$23,029,496

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

(7) to 2017/18 is from Exhibit WC-Gov-Med-12, (9). The amount for 2018/19 is from Exhibit WC-Gov-Med-10.

(10) is based on a 1.9% 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, 2019 to November 30, 2020

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1997/98	264.0	98.7%	276.0	99.1%	30.0%	\$104,919	\$31,476	\$73,443	0.95	\$69,941
1998/99	252.0	98.2%	264.0	98.7%	30.0%	0	0	0	0.95	0
1999/00	240.0	97.4%	252.0	98.2%	30.0%	0	0	0	0.95	0
2000/01	228.0	97.4%	240.0	97.4%	100.0%	0	0	0	0.95	0
2001/02	216.0	97.4%	228.0	97.4%	100.0%	24,683	24,683	0	0.93	0
2002/03	204.0	97.3%	216.0	97.4%	3.6%	31,391	1,120	30,271	0.92	27,704
2003/04	192.0	97.2%	204.0	97.3%	3.4%	97,275	3,348	93,927	0.90	84,668
2004/05	180.0	97.1%	192.0	97.2%	3.3%	21,876	727	21,149	0.89	18,786
2005/06	168.0	97.0%	180.0	97.1%	3.2%	17,125	550	16,575	0.88	14,514
2006/07	156.0	96.8%	168.0	97.0%	6.0%	120,742	7,279	113,463	0.86	97,981
2007/08	144.0	96.5%	156.0	96.8%	8.3%	267,119	22,091	245,028	0.86	209,764
2008/09	132.0	96.2%	144.0	96.5%	7.6%	472,899	36,021	436,878	0.85	372,467
2009/10	120.0	95.7%	132.0	96.2%	11.2%	464,834	52,133	412,701	0.85	350,134
2010/11	108.0	95.0%	120.0	95.7%	15.1%	464,140	70,140	394,000	0.85	335,020
2011/12	96.0	93.7%	108.0	95.0%	20.7%	439,142	90,840	348,302	0.86	298,861
2012/13	84.0	91.8%	96.0	93.7%	22.5%	627,428	140,943	486,485	0.87	424,598
2013/14	72.0	89.4%	84.0	91.8%	22.8%	994,408	226,695	767,713	0.89	680,687
2014/15	60.0	85.7%	72.0	89.4%	25.8%	1,596,728	412,295	1,184,433	0.90	1,063,130
2015/16	48.0	79.9%	60.0	85.7%	29.0%	3,154,093	914,824	2,239,269	0.91	2,035,937
2016/17	36.0	71.0%	48.0	79.9%	30.6%	4,848,427	1,484,889	3,363,538	0.92	3,097,084
2017/18	24.0	55.9%	36.0	71.0%	34.2%	3,846,634	1,317,429	2,529,205	0.93	2,352,828
2018/19	12.0	20.0%	24.0	55.9%	44.9%	7,262,672	3,262,191	4,000,481	0.94	3,758,592
2019/20	0.0	0.0%	12.0	20.0%	20.0%	9,438,000	1,884,821	7,553,179	0.95	7,196,951
Total						\$34,294,535	\$9,984,495	\$24,310,040		\$22,489,647

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

(7) to 2018/19 is from Exhibit WC-Gov-Med-13, (9). The amount for 2019/20 is from Exhibit WC-Gov-Med-10.

(10) is based on a 1.9% 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)
01/01/08	1.018	1.018
01/01/09	1.029	1.048
02/01/09	1.048	1.098
01/01/10	0.992	1.089
01/01/11	1.015	1.105
09/01/11	0.853	0.943
01/01/12	1.015	0.957
11/20/12	0.994	0.951
01/01/13	1.009	0.960
01/01/14	1.008	0.968
01/01/15	1.010	0.977
01/01/16	1.003	0.980

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2017/18 = 1.000) (2)	Residual Trend (2017/18 = 1.000) (3)	Retention Index (2017/18 = 1.000) (4)	Loss Rate Trend (2017/18 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2017/18 = 1.000) (6)	Severity Trend (2017/18 = 1.000) (5)X(6) (7)
2007/08	0.963	1.480	1.000	1.425	1.344	1.915
2008/09	0.902	1.423	1.000	1.284	1.305	1.675
2009/10	0.899	1.369	1.000	1.231	1.267	1.559
2010/11	0.922	1.316	1.000	1.213	1.230	1.492
2011/12	1.026	1.265	1.000	1.298	1.194	1.550
2012/13	1.022	1.217	1.000	1.243	1.159	1.441
2013/14	1.014	1.170	1.000	1.186	1.126	1.335
2014/15	1.004	1.125	1.000	1.129	1.093	1.234
2015/16	1.000	1.082	1.000	1.082	1.061	1.148
2016/17	1.000	1.040	1.000	1.040	1.030	1.071
2017/18	1.000	1.000	1.000	1.000	1.000	1.000
2018/19	1.000	0.962	1.000	0.962	0.971	0.934

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 11/30/17 (5)	Unlimited Case Reserves 11/30/17 (6)	Unlimited Reported Incurred Losses 11/30/17 (7)
20050352	2/5/2005	2004/05	Unlimited	\$6,171,677	\$0	\$6,171,677
20061775	2/5/2005	2004/05	Unlimited	1,471,257	0	1,471,257

Amounts are gross of excess insurance.

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

Size of Loss Distribution

I. Reported Claim Count

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	16,062	389	381	407	515	360	18,114		
0.01 - 5,000	9,886	214	221	190	261	439	11,211	11,211	75.6%
5,000 - 10,000	915	26	37	37	75	101	1,191	12,402	83.6%
10,000 - 25,000	795	41	58	45	120	117	1,176	13,578	91.5%
25,000 - 50,000	414	26	34	56	76	86	692	14,270	96.2%
50,000 - 100,000	217	13	21	27	47	39	364	14,634	98.7%
100,000 - 250,000	133	10	6	9	9	7	174	14,808	99.8%
250,000 - 500,000	17	1	1	0	1	0	20	14,828	100.0%
500,000 - 750,000	4	0	0	0	0	0	4	14,832	100.0%
750,000 - 1,000,000	0	0	0	0	0	0	0	14,832	100.0%
Over 1,000,000	2	0	0	0	0	0	2	14,834	100.0%
Total	28,445	720	759	771	1,104	1,149	32,948	14,834	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
0.01 - 5,000	9,984,747	330,419	333,431	281,368	372,282	732,786	12,035,032	12,035,032	9.0%
5,000 - 10,000	6,438,143	182,761	255,727	249,777	623,531	782,826	8,532,765	20,567,797	15.3%
10,000 - 25,000	12,965,757	660,305	961,406	756,300	2,096,637	2,071,323	19,511,729	40,079,526	29.9%
25,000 - 50,000	14,475,973	873,900	1,296,275	1,890,054	2,797,636	3,303,904	24,637,743	64,717,268	48.2%
50,000 - 100,000	14,847,643	907,302	1,539,239	1,930,281	3,623,393	2,983,544	25,831,402	90,548,670	67.5%
100,000 - 250,000	20,481,652	1,491,780	1,107,529	1,448,318	1,381,073	1,075,500	26,985,851	117,534,521	87.6%
250,000 - 500,000	5,747,345	279,376	403,888	0	285,000	0	6,715,610	124,250,131	92.6%
500,000 - 750,000	2,309,718	0	0	0	0	0	2,309,718	126,559,849	94.3%
750,000 - 1,000,000	0	0	0	0	0	0	0	126,559,849	94.3%
Over 1,000,000	7,642,934	0	0	0	0	0	7,642,934	134,202,783	100.0%
Total	\$94,893,913	\$4,725,843	\$5,897,494	\$6,556,098	\$11,179,551	\$10,949,883	\$134,202,783	\$134,202,783	

Amounts are gross of excess insurance and other recoveries.

Data was provided by the County.

Data Summary as of November 30, 2017
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Revenue (000) (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Limited Paid Losses 11/30/17 (8)	Limited Case Reserves 11/30/17 (9)	Limited Reported Incurred Losses 11/30/17 (10)
to 1997/98	See Note	None	240.0	Not Provided	624	0	\$3,794,411	\$0	\$3,794,411
1998/99	Unlimited	None	228.0	958,768	104	0	260,699	0	260,699
1999/00	Unlimited	None	216.0	1,018,542	106	0	1,650,689	0	1,650,689
2000/01	9,500,000	None	204.0	1,068,809	135	0	677,872	0	677,872
2001/02	9,500,000	None	192.0	1,057,079	107	0	252,425	0	252,425
2002/03	9,500,000	None	180.0	1,086,728	74	0	419,113	0	419,113
2003/04	10,000,000	None	168.0	1,199,434	76	0	29,531	0	29,531
2004/05	10,000,000	None	156.0	1,189,789	104	0	221,976	0	221,976
2005/06	10,000,000	None	144.0	1,357,723	85	0	137,967	0	137,967
2006/07	10,000,000	None	132.0	1,243,144	82	0	97,830	0	97,830
2007/08	10,000,000	None	120.0	1,207,801	246	0	486,144	0	486,144
2008/09	10,000,000	None	108.0	1,303,812	204	0	153,328	0	153,328
2009/10	10,000,000	None	96.0	1,287,986	101	0	311,026	0	311,026
2010/11	10,000,000	None	84.0	1,293,078	121	0	138,548	0	138,548
2011/12	10,000,000	None	72.0	1,331,769	74	0	140,020	0	140,020
2012/13	15,000,000	None	60.0	1,285,791	119	0	356,365	0	356,365
2013/14	15,000,000	None	48.0	1,362,902	291	2	211,621	30,500	242,121
2014/15	15,000,000	None	36.0	1,509,150	104	2	338,121	26,200	364,321
2015/16	15,000,000	None	24.0	1,699,156	83	19	103,893	132,600	236,493
2016/17	15,000,000	None	12.0	Not Provided	79	51	2,656	68,073	70,729
Total					2,919	74	\$9,784,235	\$257,373	\$10,041,608

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

Effective Date	Retention
12/01/90	Unlimited
12/01/00	9,500,000
12/01/03	10,000,000
03/01/13	15,000,000

(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, 2017
Gross Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Revenue (000) (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Gross Unlimited Paid Losses 11/30/17 (8)	Gross Unlimited Case Reserves 11/30/17 (9)	Gross Unlimited Reported Incurred Losses 11/30/17 (10)
to 1997/98	Unlimited	None	240.0	Not Provided	624	0	\$3,794,411	\$0	\$3,794,411
1998/99	Unlimited	None	228.0	958,768	104	0	260,699	0	260,699
1999/00	Unlimited	None	216.0	1,018,542	106	0	1,650,689	0	1,650,689
2000/01	Unlimited	None	204.0	1,068,809	135	0	677,872	0	677,872
2001/02	Unlimited	None	192.0	1,057,079	107	0	252,425	0	252,425
2002/03	Unlimited	None	180.0	1,086,728	74	0	419,113	0	419,113
2003/04	Unlimited	None	168.0	1,199,434	76	0	29,531	0	29,531
2004/05	Unlimited	None	156.0	1,189,789	104	0	221,976	0	221,976
2005/06	Unlimited	None	144.0	1,357,723	85	0	137,967	0	137,967
2006/07	Unlimited	None	132.0	1,243,144	82	0	97,830	0	97,830
2007/08	Unlimited	None	120.0	1,207,801	246	0	486,144	0	486,144
2008/09	Unlimited	None	108.0	1,303,812	204	0	153,328	0	153,328
2009/10	Unlimited	None	96.0	1,287,986	101	0	311,026	0	311,026
2010/11	Unlimited	None	84.0	1,293,078	121	0	138,548	0	138,548
2011/12	Unlimited	None	72.0	1,331,769	74	0	140,020	0	140,020
2012/13	Unlimited	None	60.0	1,285,791	119	0	356,365	0	356,365
2013/14	Unlimited	None	48.0	1,362,902	291	2	211,621	30,500	242,121
2014/15	Unlimited	None	36.0	1,509,150	104	2	338,121	26,200	364,321
2015/16	Unlimited	None	24.0	1,699,156	83	19	103,893	132,600	236,493
2016/17	Unlimited	None	12.0	Not Provided	79	51	2,656	68,073	70,729
Total					2,919	74	\$9,784,235	\$257,373	\$10,041,608

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

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	100.0%	100.0%	100.0%
120.0	100.0%	100.0%	100.0%
108.0	100.0%	100.0%	100.0%
96.0	100.0%	100.0%	100.0%
84.0	100.0%	100.0%	100.0%
72.0	98.5%	100.0%	100.0%
60.0	94.3%	97.6%	100.0%
48.0	75.4%	92.9%	100.0%
36.0	49.5%	84.5%	100.0%
24.0	20.6%	60.3%	100.0%
12.0	5.4%	32.2%	98.0%

(2) is from Exhibit GL-2 (page 2).

(3) is from Exhibit GL-2 (page 3).

(4) is from Exhibit GL-2 (page 4).

(6), (7) and (8) are interpolated, based on (2), (3) and (4), respectively.

COOK COUNTY, ILLINOIS
GENERAL LIABILITY

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

Claim Period	Months of Development:						Months of Development:						Months of Development:								
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
I. Historical Limited Paid Losses (\$000)																					
to 1997/98																					
1998/99	5	9	99	154	\$3,152	\$3,305	\$3,348	\$3,423	\$3,424	\$4,173	\$4,173	\$4,173	\$4,173	\$4,173	\$4,183	\$4,183	\$4,183	\$4,183	\$4,183	\$4,183	
1999/00	3	20	27	685	256	710	256	256	256	711	256	256	256	256	256	256	256	256	256	256	
2000/01	6	16	515	579	590	685	693	693	693	693	693	693	693	693	693	693	693	693	693	693	
2001/02	13	20	93	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	
2002/03	1	10	20	24	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429	
2003/04	5	18	22	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
2004/05	10	24	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	
2005/06	4	41	74	164	164	164	170	170	170	170	170	170	170	170	170	170	170	170	170	170	
2006/07	21	38	99	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	
2007/08	37	69	81	128	398	402	447	447	447	447	447	447	447	447	447	447	447	447	447	447	
2008/09	15	40	47	47	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	
2009/10	19	205	205	205	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313	
2010/11	13	20	24	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	
2011/12	20	24	39	90	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	
2012/13	303	314	315	356	356	356	356	356	356	356	356	356	356	356	356	356	356	356	356	356	
2013/14	24	80	98	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	
2014/15	9	27	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	
2015/16	12	104																			
2016/17	3																				

II. Limited Paid Loss Development

Claim Period	Months of Development:			Months of Development:			Months of Development:			Months of Development:			Months of Development:			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	
I. Historical Limited Paid Losses (\$000)																					
to 1997/98																					
1998/99	1,835	11,265	1,557	1,688	1,048	1,013	1,022	1,000	1,219	1,000	1,000	1,000	1,000	1,002	1,000	1,000	1,000	1,000	1,000	1,000	
1999/00	5,689	1,398	24,971	1,037	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2000/01	2,549	31,729	1,124	1,020	1,161	1,011	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,000	1,000	1,000	1,000	1,000	1,000	
2002/03	8,386	2,019	1,199	1,775	1,000	1,000	1,000	1,000	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	3,393	1,199	1,000	1,623	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2004/05	2,462	2,571	3,623	1,000	1,000	1,000	1,000	1,000	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	11,562	1,797	2,222	1,000	1,000	1,000	1,000	1,000	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	1,784	2,622	1,192	1,000	1,000	1,000	1,000	1,000	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	1,851	1,173	1,590	3,101	1,009	1,112	1,000	1,000	1,088	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2008/09	2,643	1,180	1,000	3,229	1,000	1,000	1,000	1,000	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	1,443	4,407	1,720	1,000	1,527	1,000	1,000	1,000	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	1,534	1,204	1,622	2,301	1,000	1,000	1,000	1,000	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	1,038	1,003	1,131	1,555	1,000	1,000	1,000	1,000	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	3,276	1,225	2,161	1,000	1,000	1,000	1,000	1,000	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	2,893	12,701																			
2014/15	8,979																				
2015/16																					
2016/17																					
Average All	3,560	4,930	3,347	2,534	1,158	1,013	1,001	1,001	1,028	0,983	0,979	1,000	1,163	0,987	1,008	1,003	1,008	1,008	0,907	1,000	
Wtd 3	4,659	1,795	1,455	1,085	1,223	1,000	0,998	1,002	1,053	0,981	0,924	0,999	0,982	0,983	1,004	1,002	1,000	1,000	1,000	1,000	
Last 3	5,049	4,976	1,864	1,185	1,176	1,000	0,988	1,003	1,029	0,943	0,937	0,989	0,947	0,983	1,013	1,003	1,000	1,000	1,000	1,000	
Last 5 x-Hi/low	2,458	1,349	2,061	1,185	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	
Similar	2,650	1,730	1,400	1,230	1,120	1,050	1,046	1,035	1,025	1,115	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
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	1,525	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	
Cumulative	18,440	4,853	2,022	1,326	1,061	1,015	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Percent	5.4%	20.6%	48.5%	75.4%	94.3%	98.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

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 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	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1997/08					\$4,991	\$4,560	\$3,801	\$3,608	\$3,424	\$4,173	\$4,173	\$4,173	\$4,173	\$4,173	\$4,183	\$4,183	\$4,183	\$4,183	\$4,183	\$4,183	\$3,794
1998/09	180	989	845	775	776	286	256	256	256	256	256	256	256	256	256	256	256	256	256	256	261
1999/00	564	1,506	1,830	2,261	962	965	715	2,211	711	711	711	2,211	256	256	256	256	256	256	256	256	261
2000/01	817	3,536	680	1,734	725	693	693	2,193	2,193	1,683	693	693	693	693	693	693	693	693	693	693	678
2001/02	320	1,108	1,108	1,613	761	443	303	303	303	243	243	243	243	243	243	243	243	243	243	243	252
2002/03	125	1,626	12,779	12,979	439	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429	419
2003/04	641	327	337	982	55	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	30
2004/05	488	751	411	267	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222
2005/06	200	527	421	214	184	176	170	170	170	170	170	170	170	170	170	170	170	170	170	170	138
2006/07	412	421	317	133	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	98
2007/08	197	638	530	453	453	512	447	447	447	486	486	486	486	486	486	486	486	486	486	486	486
2008/09	169	127	70	47	152	152	152	152	153	153	153	153	153	153	153	153	153	153	153	153	153
2009/10	117	211	332	310	305	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313
2010/11	68	219	59	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139
2011/12	205	253	396	356	356	356	356	356	356	356	356	356	356	356	356	356	356	356	356	356	356
2012/13	383	410	384	356	242	242	242	242	242	242	242	242	242	242	242	242	242	242	242	242	242
2013/14	135	223	258	242	242	242	242	242	242	242	242	242	242	242	242	242	242	242	242	242	242
2014/15	84	411	364	364	364	364	364	364	364	364	364	364	364	364	364	364	364	364	364	364	364
2015/16	113	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236
2016/17	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71

II. Limited Reported Incurred Loss Development

Claim Period	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 1997/08					0.914	0.833	0.949	0.949	1.219	1.000	1.000	1.000	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.024
1998/09	4.832	0.972	0.917	1.003	0.369	0.895	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1999/00	2.699	1.215	1.235	0.425	1.003	0.741	3.094	0.322	1.000	1.000	1.000	1.228	0.603	1.000	1.000	1.000	1.009	1.000	1.000	1.000
2000/01	4.869	0.180	1.064	0.989	0.955	1.000	3.165	1.000	0.772	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2001/02	0.843	4.107	1.495	0.472	0.582	0.684	1.000	1.000	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	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	1.000	1.000	1.000	1.000	1.000	1.000	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	1.000	1.000	1.000	1.000	1.000	1.000	1.000	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	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005/06	2.632	0.800	0.507	0.860	0.959	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	1.000	1.000
2006/07	1.022	0.755	0.419	1.000	0.887	1.000	1.000	1.000	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	3.239	0.831	0.855	1.000	1.129	0.873	1.000	1.000	1.088	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008/09	0.756	0.550	0.672	3.229	1.000	1.000	1.000	1.000	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	1.805	1.575	0.935	0.984	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
2010/11	3.222	0.269	2.346	1.000	1.000	1.000	1.000	1.000	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	1.234	1.567	0.998	0.430	0.824	1.000	1.000	1.000	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	1.070	0.936	0.929	1.000	0.824	1.000	1.000	1.000	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	1.658	1.156	0.939	1.000	0.824	1.000	1.000	1.000	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	4.905	0.886	1.156	0.939	0.824	1.000	1.000	1.000	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	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101
2016/17	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101	2.101
Average All	2.876	1.484	1.116	0.888	0.884	0.928	1.323	0.940	0.989	0.924	1.213	1.028	0.920	0.987	1.008	0.995	1.003	0.951	1.024	1.000
Wtd 3	2.631	0.963	0.958	0.747	0.964	1.000	0.998	1.002	1.053	0.981	0.624	0.999	0.982	0.983	1.004	0.984	1.002	0.983	1.000	1.000
Last 3	2.888	0.993	0.955	0.810	0.950	1.000	0.998	1.003	1.029	0.943	0.837	0.989	0.947	0.983	1.013	0.993	1.003	0.983	1.000	1.000
Last 5 x-Hi,Low	1.664	0.993	0.957	0.995	1.009	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Similar	1.850	1.400	1.215	1.110	1.063	1.041	1.025	1.023	1.014	1.070	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Previous	1.875	1.400	1.100	1.050	1.025	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Selected	1.875	1.400	1.100	1.050	1.025	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Cumulative	3.108	1.657	1.184	1.076	1.025	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Percent	32.2%	60.3%	84.5%	92.9%	97.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

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 limited (net of excess insurance).

Data was provided by the County.

COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Historical Reported Claims and Reported Claim Development

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 1997/98																					
1998/99	40	48	37	32	29	29	29	67	68	69	69	69	69	69	69	69	69	69	69	69	69
1999/00	53	45	39	33	30	30	30	29	29	29	29	29	29	29	29	29	29	29	29	29	29
2000/01	82	45	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
2001/02	46	34	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
2002/03	32	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2003/04	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2004/05	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
2005/06	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
2006/07	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
2007/08	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212
2008/09	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142
2009/10	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
2010/11	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
2011/12	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
2012/13	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
2013/14	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222
2014/15	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
2015/16	30	83																			
2016/17	79																				

II. Reported Claim Development

Claim Period	Months of Development:												240-Ult									
	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		
to 1997/98																						
1998/99	1,200	0,771	0,865	0,906	1,000	1,000	1,000	1,015	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	
1999/00	0,849	0,867	0,846	0,909	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2000/01	0,549	0,911	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2001/02	0,739	0,971	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,000	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	1,000	1,000	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	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	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	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	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	1,000	1,000	1,000	1,000	
2012/13	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,000	1,000	1,311	1,750	1,423	2,521	1,485	1,160	1,673	2,125	1,600	2,235	2,176	3,242	3,293	3,533	3,586	9,043				
2015/16	2,767	2,537	1,047	1,015	1,012	1,011	1,012	1,013	1,017	1,003	1,002	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	
2016/17																						
Average All	1,065	1,062	1,001	1,038	1,030	1,117	1,040	1,038	1,016	1,067	1,125	1,075	1,176	1,196	1,448	1,573	1,844	2,293	9,043			
Wtd 3	1,181	1,190	1,202	1,304	1,131	1,283	1,078	1,154	1,113	1,214	1,324	1,293	1,416	1,370	1,712	1,940	1,594	1,844				
Last 3	1,589	1,512	1,104	1,250	1,141	1,507	1,162	1,146	1,053	1,224	1,375	1,200	1,412	1,382	1,747	1,764	1,844					
Last 5 x-tiltlow	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
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	1,001	1,001	1,001	1,001	1,001	
Previous	1,020	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,020	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	98.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Percent																						

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 1997/98																						
1998/99	2.7%	1.0%	11.7%	19.9%	63.2%	72.5%	88.1%	94.9%	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%	
1999/00	0.6%	1.3%	1.5%	30.3%	33.6%	89.5%	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%	
2000/01	0.8%	0.4%	7.6%	76.5%	73.6%	96.9%	99.3%	32.2%	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%	
2001/02	3.9%	7.3%	8.4%	5.7%	61.4%	54.6%	100.0%	31.6%	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%	
2002/03	1.0%	0.6%	0.2%	0.2%	12.2%	100.0%	100.0%	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%	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%	22.8%	87.4%	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%																			
2015/16	10.3%	43.9%																				
2016/17	3.8%																					
Average																						
All	11.3%	15.2%	32.2%	55.6%	77.5%	90.7%	97.7%	87.6%	92.6%	94.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Last 3	8.3%	28.7%	71.0%	70.1%	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%	
Last 5	13.1%	28.8%	53.6%	84.5%	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-high																						
Implicit	16.9%	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 11/30/17 (2)	Limited Paid Losses 11/30/17 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1997/98	240.0	\$3,794,411	100.0%	\$3,794,411
1998/99	228.0	260,699	100.0%	260,699
1999/00	216.0	1,650,689	100.0%	1,650,689
2000/01	204.0	677,872	100.0%	677,872
2001/02	192.0	252,425	100.0%	252,425
2002/03	180.0	419,113	100.0%	419,113
2003/04	168.0	29,531	100.0%	29,531
2004/05	156.0	221,976	100.0%	221,976
2005/06	144.0	137,967	100.0%	137,967
2006/07	132.0	97,830	100.0%	97,830
2007/08	120.0	486,144	100.0%	486,144
2008/09	108.0	153,328	100.0%	153,328
2009/10	96.0	311,026	100.0%	311,026
2010/11	84.0	138,548	100.0%	138,548
2011/12	72.0	140,020	98.5%	142,120
2012/13	60.0	356,365	94.3%	377,987
2013/14	48.0	211,621	75.4%	280,577
2014/15	36.0	338,121	49.5%	683,650
2015/16	24.0	103,893	20.6%	504,148
2016/17	12.0	2,656	5.4%	48,974
Total		\$9,784,235		\$10,669,016

(3) is from Exhibit GL-1.

(4) is from Exhibit GL-2.

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/17 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1997/98	240.0	\$3,794,411	100.0%	\$3,794,411
1998/99	228.0	260,699	100.0%	260,699
1999/00	216.0	1,650,689	100.0%	1,650,689
2000/01	204.0	677,872	100.0%	677,872
2001/02	192.0	252,425	100.0%	252,425
2002/03	180.0	419,113	100.0%	419,113
2003/04	168.0	29,531	100.0%	29,531
2004/05	156.0	221,976	100.0%	221,976
2005/06	144.0	137,967	100.0%	137,967
2006/07	132.0	97,830	100.0%	97,830
2007/08	120.0	486,144	100.0%	486,144
2008/09	108.0	153,328	100.0%	153,328
2009/10	96.0	311,026	100.0%	311,026
2010/11	84.0	138,548	100.0%	138,548
2011/12	72.0	140,020	100.0%	140,020
2012/13	60.0	356,365	97.6%	365,274
2013/14	48.0	242,121	92.9%	260,583
2014/15	36.0	364,321	84.5%	431,310
2015/16	24.0	236,493	60.3%	391,969
2016/17	12.0	70,729	32.2%	219,802
Total		\$10,041,608		\$10,440,518

(3) is from Exhibit GL-1.

(4) is from Exhibit GL-2.

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/17 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/17 (6)	Limited Case Reserves 11/30/17 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1997/98	240.0	100.0%	100.0%	100.0%	\$3,794,411	\$0	\$3,794,411
1998/99	228.0	100.0%	100.0%	100.0%	260,699	0	260,699
1999/00	216.0	100.0%	100.0%	100.0%	1,650,689	0	1,650,689
2000/01	204.0	100.0%	100.0%	100.0%	677,872	0	677,872
2001/02	192.0	100.0%	100.0%	100.0%	252,425	0	252,425
2002/03	180.0	100.0%	100.0%	100.0%	419,113	0	419,113
2003/04	168.0	100.0%	100.0%	100.0%	29,531	0	29,531
2004/05	156.0	100.0%	100.0%	100.0%	221,976	0	221,976
2005/06	144.0	100.0%	100.0%	100.0%	137,967	0	137,967
2006/07	132.0	100.0%	100.0%	100.0%	97,830	0	97,830
2007/08	120.0	100.0%	100.0%	100.0%	486,144	0	486,144
2008/09	108.0	100.0%	100.0%	100.0%	153,328	0	153,328
2009/10	96.0	100.0%	100.0%	100.0%	311,026	0	311,026
2010/11	84.0	100.0%	100.0%	100.0%	138,548	0	138,548
2011/12	72.0	98.5%	100.0%	100.0%	140,020	0	140,020
2012/13	60.0	94.3%	97.6%	57.4%	356,365	0	356,365
2013/14	48.0	75.4%	92.9%	71.2%	211,621	30,500	254,475
2014/15	36.0	49.5%	84.5%	69.3%	338,121	26,200	375,944
2015/16	24.0	20.6%	60.3%	50.0%	103,893	132,600	368,887
2016/17	12.0	5.4%	32.2%	28.3%	2,656	68,073	243,285
Total					\$9,784,235	\$257,373	\$10,370,536

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

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

Preliminary Projected Ultimate Limited Losses to 2016/17

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 1997/98	\$3,794,411	\$3,794,411	\$3,794,411	\$3,794,411
1998/99	260,699	260,699	260,699	260,699
1999/00	1,650,689	1,650,689	1,650,689	1,650,689
2000/01	677,872	677,872	677,872	677,872
2001/02	252,425	252,425	252,425	252,425
2002/03	419,113	419,113	419,113	419,113
2003/04	29,531	29,531	29,531	29,531
2004/05	221,976	221,976	221,976	221,976
2005/06	137,967	137,967	137,967	137,967
2006/07	97,830	97,830	97,830	97,830
2007/08	486,144	486,144	486,144	486,144
2008/09	153,328	153,328	153,328	153,328
2009/10	311,026	311,026	311,026	311,026
2010/11	138,548	138,548	138,548	138,548
2011/12	142,120	140,020	140,020	140,020
2012/13	377,987	365,274	356,365	356,365
2013/14	280,577	260,583	254,475	259,528
2014/15	683,650	431,310	375,944	459,632
2015/16	504,148	391,969	368,887	405,172
2016/17	48,974	219,802	243,285	195,030
Total	\$10,669,016	\$10,440,518	\$10,370,536	\$10,447,306

(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 (2017/18 = 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)
2007/08	\$486,144	\$1,207,801	\$0.40	1.480	\$0.60	\$0.18
2008/09	153,328	1,303,812	0.12	1.423	0.17	0.19
2009/10	311,026	1,287,986	0.24	1.369	0.33	0.19
2010/11	138,548	1,293,078	0.11	1.316	0.14	0.20
2011/12	140,020	1,331,769	0.11	1.265	0.13	0.21
2012/13	356,365	1,285,791	0.28	1.217	0.34	0.22
2013/14	259,528	1,362,902	0.19	1.170	0.22	0.23
2014/15	459,632	1,509,150	0.30	1.125	0.34	0.24
2015/16	405,172	1,699,156	0.24	1.082	0.26	0.24
2016/17	195,030	1,699,156	0.11	1.040	0.12	0.25

(7) Projected 2017/18 a-priori loss rate per \$1,000 of Revenue \$0.26

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/17 (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)
2012/13	\$356,365	94.3%	\$0.22	\$1,285,791	\$16,006	\$372,371
2013/14	211,621	75.4%	0.23	1,362,902	75,804	287,425
2014/15	338,121	49.5%	0.24	1,509,150	179,526	517,647
2015/16	103,893	20.6%	0.24	1,699,156	330,210	434,102
2016/17	2,656	5.4%	0.25	1,699,156	409,100	411,756

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/17 (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)
2012/13	\$356,365	97.6%	\$0.22	\$1,285,791	\$6,824	\$363,189
2013/14	242,121	92.9%	0.23	1,362,902	21,853	263,974
2014/15	364,321	84.5%	0.24	1,509,150	55,169	419,490
2015/16	236,493	60.3%	0.24	1,699,156	164,977	401,469
2016/17	70,729	32.2%	0.25	1,699,156	293,367	364,096

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 11/30/17 (2)	Reported Claims 11/30/17 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Revenue (000) (6)	Frequency (per \$1M of Revenue) (5)/(6)X1,000 (7)
2007/08	120.0	246	100.0%	246	\$1,207,801	0.20
2008/09	108.0	204	100.0%	204	1,303,812	0.16
2009/10	96.0	101	100.0%	101	1,287,986	0.08
2010/11	84.0	121	100.0%	121	1,293,078	0.09
2011/12	72.0	74	100.0%	74	1,331,769	0.06
2012/13	60.0	119	100.0%	119	1,285,791	0.09
2013/14	48.0	291	100.0%	291	1,362,902	0.21
2014/15	36.0	104	100.0%	104	1,509,150	0.07
2015/16	24.0	83	100.0%	83	1,699,156	0.05
2016/17	12.0	79	98.0%	81	1,699,156	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 (2017/18 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2017/18 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2007/08	\$486,144	246	\$1,976	1.480	\$2,925	\$1,996	\$491,132
2008/09	153,328	204	752	1.423	1,070	2,076	423,571
2009/10	311,026	101	3,079	1.369	4,214	2,159	218,098
2010/11	138,548	121	1,145	1.316	1,507	2,246	271,737
2011/12	140,020	74	1,892	1.265	2,394	2,336	172,834
2012/13	356,365	119	2,995	1.217	3,643	2,429	289,052
2013/14	259,528	291	892	1.170	1,043	2,526	735,116
2014/15	459,632	104	4,420	1.125	4,971	2,627	273,231
2015/16	405,172	83	4,882	1.082	5,280	2,732	226,782
2016/17	195,030	81	2,408	1.040	2,504	2,842	230,170

(7) Projected 2017/18 average claim severity \$2,955

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 2016/17

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 1997/98	\$3,794,411	\$3,794,411	\$3,794,411				\$4,303,253	\$3,794,411
1998/99	260,699	260,699	260,699				256,471	260,699
1999/00	1,650,689	1,650,689	1,650,689				1,636,116	1,650,689
2000/01	677,872	677,872	677,872				692,872	677,872
2001/02	252,425	252,425	252,425				242,675	252,425
2002/03	419,113	419,113	419,113				428,613	419,113
2003/04	29,531	29,531	29,531				35,161	29,531
2004/05	221,976	221,976	221,976				222,376	221,976
2005/06	137,967	137,967	137,967				170,347	137,967
2006/07	97,830	97,830	97,830				117,830	97,830
2007/08	486,144	486,144	486,144				446,995	486,144
2008/09	153,328	153,328	153,328				152,107	153,328
2009/10	311,026	311,026	311,026				312,995	311,026
2010/11	138,548	138,548	138,548				138,548	138,548
2011/12	142,120	140,020	140,020				200,000	140,020
2012/13	377,987	365,274	356,365	372,371	363,189	289,052	500,000	356,365
2013/14	280,577	260,583	254,475	287,425	263,974	735,116	430,000	280,000
2014/15	683,650	431,310	375,944	517,647	419,490	273,231	600,000	460,000
2015/16	504,148	391,969	368,887	434,102	401,469	226,782	400,000	400,000
2016/17	48,974	219,802	243,285	411,756	364,096	230,170	450,000	365,000
Total	\$10,669,016	\$10,440,518	\$10,370,536				\$11,736,359	\$10,632,945
2012/13 - 2016/17	1,895,336	1,668,938	1,598,956	2,023,300	1,812,218	1,754,350	2,380,000	1,861,365
to 2011/12	8,773,680	8,771,580	8,771,580				9,356,359	8,771,580
						Change		
						All years		-\$1,103,414
						2012/13 - 2016/17		-518,635
						to 2011/12		-584,779

(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 2017/18 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 (2017/18 = 1.000) (5)	Trended Limited Loss Rate per \$1,000 of Revenue (4)X(5) (6)
2007/08	\$486,144	\$1,207,801	\$0.40	1.480	\$0.60
2008/09	153,328	1,303,812	0.12	1.423	0.17
2009/10	311,026	1,287,986	0.24	1.369	0.33
2010/11	138,548	1,293,078	0.11	1.316	0.14
2011/12	140,020	1,331,769	0.11	1.265	0.13
2012/13	356,365	1,285,791	0.28	1.217	0.34
2013/14	280,000	1,362,902	0.21	1.170	0.24
2014/15	460,000	1,509,150	0.30	1.125	0.34
2015/16	400,000	1,699,156	0.24	1.082	0.25
2016/17	365,000	1,699,156	0.21	1.040	0.22
Total	\$3,090,431	\$13,980,602	\$0.22		\$0.28

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)
2017/18	\$0.28	\$1,699,156	\$470,000	0.94	\$0.26	\$444,000
2018/19	0.29	1,699,156	489,000	0.94	0.27	462,000
2019/20	0.30	1,699,156	508,000	0.94	0.28	480,000

(2) is from Exhibit GL-9.

(3) 2007/08, 2008/09, 2009/10, 2010/11, 2011/12, 2012/13, 2013/14, 2014/15 and 2015/16 were provided by the County. Other periods assume a 0% trend.

(5) is based on a 4% trend.

(7) 2017/18 is based on (6) and actuarial judgment.
Other period(s) based on 2017/18 plus a 4% trend.

(8) is based on (3) for 2016/17 and a 0% trend.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit GL-2.

Estimated Outstanding Losses as of November 30, 2017

Claim Period (1)	Limited Paid Losses 11/30/17 (2)	Limited Case Reserves 11/30/17 (3)	Limited Reported Incurred Losses 11/30/17 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/17 (5)-(4) (6)	Estimated Outstanding Losses 11/30/17 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/17 (7)X(8) (9)
to 1997/98	\$3,794,411	\$0	\$3,794,411	\$3,794,411	\$0	\$0	1.00	\$0
1998/99	260,699	0	260,699	260,699	0	0	1.00	0
1999/00	1,650,689	0	1,650,689	1,650,689	0	0	1.00	0
2000/01	677,872	0	677,872	677,872	0	0	1.00	0
2001/02	252,425	0	252,425	252,425	0	0	1.00	0
2002/03	419,113	0	419,113	419,113	0	0	1.00	0
2003/04	29,531	0	29,531	29,531	0	0	1.00	0
2004/05	221,976	0	221,976	221,976	0	0	1.00	0
2005/06	137,967	0	137,967	137,967	0	0	1.00	0
2006/07	97,830	0	97,830	97,830	0	0	1.00	0
2007/08	486,144	0	486,144	486,144	0	0	1.00	0
2008/09	153,328	0	153,328	153,328	0	0	1.00	0
2009/10	311,026	0	311,026	311,026	0	0	1.00	0
2010/11	138,548	0	138,548	138,548	0	0	1.00	0
2011/12	140,020	0	140,020	140,020	0	0	0.99	0
2012/13	356,365	0	356,365	356,365	0	0	0.99	0
2013/14	211,621	30,500	242,121	280,000	37,879	68,379	0.99	67,370
2014/15	338,121	26,200	364,321	460,000	95,679	121,879	0.98	119,329
2015/16	103,893	132,600	236,493	400,000	163,507	296,107	0.97	287,714
2016/17	2,656	68,073	70,729	365,000	294,271	362,344	0.96	347,667
Total	\$9,784,235	\$257,373	\$10,041,608	\$10,632,945	\$591,336	\$848,709		\$822,080

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

(5) is from Exhibit GL-9.

(8) is based on a 1.9% interest rate and the payout pattern in Exhibit GL-2.

Projected Losses Paid December 1, 2017 to November 30, 2018

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Months of Development 11/30/18 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/17 to 11/30/18 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/17 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/18 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/18 (9)X(10) (11)
to 1997/98	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	84.0	100.0%	96.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	72.0	98.5%	84.0	100.0%	100.0%	0	0	0	1.00	0
2012/13	60.0	94.3%	72.0	98.5%	74.2%	0	0	0	0.99	0
2013/14	48.0	75.4%	60.0	94.3%	76.7%	68,379	52,463	15,916	0.99	15,691
2014/15	36.0	49.5%	48.0	75.4%	51.4%	121,879	62,614	59,265	0.99	58,390
2015/16	24.0	20.6%	36.0	49.5%	36.3%	296,107	107,603	188,504	0.98	184,560
2016/17	12.0	5.4%	24.0	20.6%	16.1%	362,344	58,175	304,169	0.97	295,548
2017/18	0.0	0.0%	12.0	5.4%	5.4%	470,000	25,488	444,512	0.96	426,507
Total						\$1,318,709	\$306,343	\$1,012,366		\$980,696

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

(7) to 2016/17 is from Exhibit GL-11. The amount for 2017/18 is from Exhibit GL-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit GL-2.

Projected Losses Paid December 1, 2018 to November 30, 2019

Claim Period (1)	Months of Development 11/30/18 (2)	Percent Losses Paid (3)	Months of Development 11/30/19 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/18 to 11/30/19 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/18 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/19 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/19 (9)X(10) (11)
to 1997/98	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	84.0	100.0%	96.0	100.0%	100.0%	0	0	0	1.00	0
2012/13	72.0	98.5%	84.0	100.0%	100.0%	0	0	0	1.00	0
2013/14	60.0	94.3%	72.0	98.5%	74.2%	15,916	11,804	4,112	0.99	4,073
2014/15	48.0	75.4%	60.0	94.3%	76.7%	59,265	45,470	13,795	0.99	13,600
2015/16	36.0	49.5%	48.0	75.4%	51.4%	188,504	96,843	91,661	0.99	90,308
2016/17	24.0	20.6%	36.0	49.5%	36.3%	304,169	110,533	193,636	0.98	189,585
2017/18	12.0	5.4%	24.0	20.6%	16.1%	444,512	71,367	373,145	0.97	362,569
2018/19	0.0	0.0%	12.0	5.4%	5.4%	489,000	26,519	462,481	0.96	443,748
Total						\$1,501,366	\$362,536	\$1,138,830		\$1,103,883

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

(7) to 2017/18 is from Exhibit GL-12, (9). The amount for 2018/19 is from Exhibit GL-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit GL-2.

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

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1997/98	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2012/13	84.0	100.0%	96.0	100.0%	100.0%	0	0	0	1.00	0
2013/14	72.0	98.5%	84.0	100.0%	100.0%	4,112	4,112	0	1.00	0
2014/15	60.0	94.3%	72.0	98.5%	74.2%	13,795	10,231	3,564	0.99	3,531
2015/16	48.0	75.4%	60.0	94.3%	76.7%	91,661	70,326	21,335	0.99	21,033
2016/17	36.0	49.5%	48.0	75.4%	51.4%	193,636	99,479	94,157	0.99	92,768
2017/18	24.0	20.6%	36.0	49.5%	36.3%	373,145	135,598	237,547	0.98	232,577
2018/19	12.0	5.4%	24.0	20.6%	16.1%	462,481	74,252	388,229	0.97	377,225
2019/20	0.0	0.0%	12.0	5.4%	5.4%	508,000	27,549	480,451	0.96	460,990
Total						\$1,646,830	\$421,547	\$1,225,283		\$1,188,124

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

(7) to 2018/19 is from Exhibit GL-13, (9). The amount for 2019/20 is from Exhibit GL-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit GL-2.



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Exhibit GL-15

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 11/30/17 (5)	Unlimited Case Reserves 11/30/17 (6)	Unlimited Reported Incurred Losses 11/30/17 (7)
97000023	1/31/1991	to 1997/98	Unlimited	\$749,721	\$0	\$749,721
97002477	9/30/1998	to 1997/98	Unlimited	925,000	0	925,000
97003121	12/30/1999	1999/00	Unlimited	650,000	0	650,000
97003515	6/9/2000	1999/00	Unlimited	925,000	0	925,000
97003686	3/10/2001	2000/01	9,500,000	465,000	0	465,000
97004402	3/26/2003	2002/03	9,500,000	335,000	0	335,000
97010256	1/1/2013	2012/13	10,000,000	300,000	0	300,000

Amounts are gross of excess insurance.

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

Size of Loss Distribution

I. Reported Claim Count

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	1,414	95	123	72	41	21	1,766		
0.01 - 5,000	698	19	159	23	36	55	990	990	85.9%
5,000 - 10,000	49	2	2	2	0	2	57	1,047	90.8%
10,000 - 25,000	31	2	5	3	2	1	44	1,091	94.6%
25,000 - 50,000	20	0	1	2	4	0	27	1,118	97.0%
50,000 - 100,000	19	0	1	2	0	0	22	1,140	98.9%
100,000 - 250,000	6	0	0	0	0	0	6	1,146	99.4%
250,000 - 500,000	2	1	0	0	0	0	3	1,149	99.7%
500,000 - 750,000	2	0	0	0	0	0	2	1,151	99.8%
750,000 - 1,000,000	2	0	0	0	0	0	2	1,153	100.0%
Over 1,000,000	0	0	0	0	0	0	0	1,153	100.0%
Total	2,243	119	291	104	83	79	2,919	1,153	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (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	
0.01 - 5,000	551,792	10,365	23,368	24,285	34,493	30,846	675,149	675,149	6.7%
5,000 - 10,000	402,292	12,500	15,254	20,000	0	19,883	469,929	1,145,078	11.4%
10,000 - 25,000	559,189	33,500	73,500	58,786	35,000	20,000	779,975	1,925,052	19.2%
25,000 - 50,000	844,086	0	30,000	90,000	167,000	0	1,131,086	3,056,139	30.4%
50,000 - 100,000	1,519,500	0	99,999	171,250	0	0	1,790,749	4,846,888	48.3%
100,000 - 250,000	845,000	0	0	0	0	0	845,000	5,691,888	56.7%
250,000 - 500,000	800,000	300,000	0	0	0	0	1,100,000	6,791,888	67.6%
500,000 - 750,000	1,399,721	0	0	0	0	0	1,399,721	8,191,608	81.6%
750,000 - 1,000,000	1,850,000	0	0	0	0	0	1,850,000	10,041,608	100.0%
Over 1,000,000	0	0	0	0	0	0	0	10,041,608	100.0%
Total	\$8,771,580	\$356,365	\$242,121	\$364,321	\$236,493	\$70,729	\$10,041,608	\$10,041,608	

Amounts are gross of excess insurance and other recoveries.

Data was provided by the County.

Data Summary as of November 30, 2017
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Vehicles (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Limited Paid Losses 11/30/17 (8)	Limited Case Reserves 11/30/17 (9)	Limited Reported Incurred Losses 11/30/17 (10)
to 1997/98	See Note	None	240.0	Not Provided	607	0	\$2,436,874	\$0	\$2,436,874
1998/99	Unlimited	None	228.0	Not Provided	179	0	570,267	0	570,267
1999/00	Unlimited	None	216.0	Not Provided	136	0	464,802	0	464,802
2000/01	9,500,000	None	204.0	Not Provided	132	0	9,770,711	0	9,770,711
2001/02	9,500,000	None	192.0	2,283	112	0	2,497,706	0	2,497,706
2002/03	9,500,000	None	180.0	2,283	74	0	213,389	0	213,389
2003/04	10,000,000	None	168.0	1,997	111	0	396,526	0	396,526
2004/05	10,000,000	None	156.0	1,997	91	0	2,828,107	0	2,828,107
2005/06	10,000,000	None	144.0	1,780	82	0	176,288	0	176,288
2006/07	10,000,000	None	132.0	Not Provided	92	0	623,841	0	623,841
2007/08	10,000,000	None	120.0	Not Provided	71	0	131,792	0	131,792
2008/09	10,000,000	None	108.0	Not Provided	60	0	173,974	0	173,974
2009/10	10,000,000	None	96.0	Not Provided	62	0	6,830,313	0	6,830,313
2010/11	10,000,000	None	84.0	2,071	88	0	808,599	0	808,599
2011/12	10,000,000	None	72.0	1,837	75	0	431,959	0	431,959
2012/13	15,000,000	None	60.0	1,892	58	0	281,949	0	281,949
2013/14	15,000,000	None	48.0	1,921	85	0	2,907,409	0	2,907,409
2014/15	15,000,000	None	36.0	2,022	62	0	214,713	0	214,713
2015/16	15,000,000	None	24.0	1,915	69	25	1,220,018	110,700	1,330,718
2016/17	15,000,000	None	12.0	1,773	46	23	94,878	201,155	296,033
Total					2,292	48	\$33,074,115	\$311,855	\$33,385,970

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

Effective Date	Retention
12/01/90	Unlimited
12/01/00	9,500,000
12/01/03	10,000,000
03/01/13	15,000,000

(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, 2017
Gross Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Vehicles (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Gross Unlimited Paid Losses 11/30/17 (8)	Gross Unlimited Case Reserves 11/30/17 (9)	Gross Unlimited Reported Incurred Losses 11/30/17 (10)
to 1997/98	Unlimited	None	240.0	Not Provided	607	0	\$2,436,874	\$0	\$2,436,874
1998/99	Unlimited	None	228.0	Not Provided	179	0	570,267	0	570,267
1999/00	Unlimited	None	216.0	Not Provided	136	0	464,802	0	464,802
2000/01	Unlimited	None	204.0	Not Provided	132	0	9,770,711	0	9,770,711
2001/02	Unlimited	None	192.0	2,283	112	0	2,497,706	0	2,497,706
2002/03	Unlimited	None	180.0	2,283	74	0	213,389	0	213,389
2003/04	Unlimited	None	168.0	1,997	111	0	396,526	0	396,526
2004/05	Unlimited	None	156.0	1,997	91	0	2,828,107	0	2,828,107
2005/06	Unlimited	None	144.0	1,780	82	0	176,288	0	176,288
2006/07	Unlimited	None	132.0	Not Provided	92	0	623,841	0	623,841
2007/08	Unlimited	None	120.0	Not Provided	71	0	131,792	0	131,792
2008/09	Unlimited	None	108.0	Not Provided	60	0	173,974	0	173,974
2009/10	Unlimited	None	96.0	Not Provided	62	0	6,830,313	0	6,830,313
2010/11	Unlimited	None	84.0	2,071	88	0	808,599	0	808,599
2011/12	Unlimited	None	72.0	1,837	75	0	431,959	0	431,959
2012/13	Unlimited	None	60.0	1,892	58	0	281,949	0	281,949
2013/14	Unlimited	None	48.0	1,921	85	0	2,907,409	0	2,907,409
2014/15	Unlimited	None	36.0	2,022	62	0	214,713	0	214,713
2015/16	Unlimited	None	24.0	1,915	69	25	1,220,018	110,700	1,330,718
2016/17	Unlimited	None	12.0	1,773	46	23	94,878	202,155	296,033
Total					2,292	48	\$33,074,115	\$312,855	\$33,385,970

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

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	100.0%	100.0%	100.0%
120.0	100.0%	100.0%	100.0%
108.0	100.0%	100.0%	100.0%
96.0	100.0%	100.0%	100.0%
84.0	99.0%	100.0%	100.0%
72.0	97.1%	100.0%	100.0%
60.0	92.4%	99.0%	100.0%
48.0	86.0%	96.1%	100.0%
36.0	63.7%	85.4%	100.0%
24.0	38.6%	65.7%	100.0%
12.0	13.1%	38.1%	98.0%

(2) is from Exhibit AL-2 (page 2).

(3) is from Exhibit AL-2 (page 3).

(4) is from Exhibit AL-2 (page 4).

(6), (7) and (8) are interpolated, based on (2), (3) and (4), respectively.

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 1997/98					\$3,537	\$4,009	\$4,095	\$4,120	\$4,121	\$4,123	\$4,123	\$4,123	\$4,123	\$4,123	\$4,125	\$4,125	\$4,125	\$4,125	\$4,125	\$4,125	\$2,437
1998/99	49	174	326	447	473	479	479	479	479	479	479	479	479	479	479	479	479	479	479	479	570
1999/00	57	137	196	221	406	559	559	559	559	559	559	559	559	559	559	559	559	559	559	559	465
2000/01	38	192	253	266	286	6,021	6,021	6,021	6,021	6,021	6,021	6,021	6,021	6,021	6,021	6,021	6,021	6,021	6,021	6,021	9,771
2001/02	32	143	161	217	857	857	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	9,771
2002/03	23	125	178	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213
2003/04	50	141	246	256	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	397
2004/05	61	159	233	2,333	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,828
2005/06	61	136	164	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	176
2006/07	33	96	200	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	624
2007/08	30	78	101	122	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	132
2008/09	43	163	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	174
2009/10	19	67	95	103	103	828	6,828	6,830	6,830	6,830	6,830	6,830	6,830	6,830	6,830	6,830	6,830	6,830	6,830	6,830	6,830
2010/11	42	132	234	809	809	809	809	809	809	809	809	809	809	809	809	809	809	809	809	809	809
2011/12	40	125	157	202	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432
2012/13	35	103	172	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282
2013/14	78	218	406	2,907	2,907	2,907	2,907	2,907	2,907	2,907	2,907	2,907	2,907	2,907	2,907	2,907	2,907	2,907	2,907	2,907	2,907
2014/15	35	72	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215
2015/16	54	1,220																			
2016/17	95																				

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 1997/98					1,134	1,021	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	0.591
1998/99	3,541	1,882	1,369	1,059	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	1,000	1,000
1999/00	2,406	1,426	1,125	1,840	1,377	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2000/01	5,114	1,318	1,050	1,000	22,649	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
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	1,000	1,000	1,000	1,000	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	1,000	1,000	1,000	1,000	1,000	1,000
2003/04	2,809	1,749	1,039	1,387	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2004/05	2,605	2,220	1,210	1,214	1,000	1,000	1,000	1,000	1,000	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	2,228	2,228	1,042	1,000	1,000	1,000	1,000	1,000	1,000	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	2,932	2,087	1,170	1,000	1,000	1,000	2,709	1,000	1,000	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	1,698	1,294	1,209	1,000	1,000	1,000	1,000	1,000	1,000	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	2,650	1,698	1,061	1,000	1,000	1,000	1,000	1,000	1,000	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	3,603	1,407	1,090	1,000	1,000	1,000	1,000	1,000	1,000	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	3,124	1,765	3,461	1,000	1,000	1,000	1,000	1,000	1,000	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	3,121	1,259	1,287	2,139	1,000	1,000	1,000	1,000	1,000	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	2,905	1,673	1,640	1,000	1,000	1,000	1,000	1,000	1,000	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	2,814	1,860	7,158	1,000	1,000	1,000	1,000	1,000	1,000	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	2,059	2,982																			
2015/16	22,491																				
2016/17																					
Average All	4,103	1,723	2,058	1,385	2,949	1,656	1,138	1,000	1,003	0,998	1,073	1,000	1,004	1,000	1,000	1,000	0,944	1,095	1,000	1,000	1,000
Wtd 3	9,054	2,016	4,613	1,178	1,538	4,315	1,000	0,999	1,004	0,997	1,002	0,999	1,004	1,000	1,000	1,000	0,982	1,000	1,000	1,000	1,000
Last 3	9,121	2,171	3,361	1,380	3,338	3,418	1,000	0,998	1,009	0,995	1,010	0,999	1,010	1,000	1,000	1,000	0,944	1,000	1,000	1,000	1,000
Last 5 x-til low	2,947	1,766	2,129	1,000	1,016	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
Similar Previous	2,165	1,450	1,245	1,120	1,050	1,022	1,010	1,005	1,004	1,007	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Selected Cumulative Percent	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	1,000
	7,641	2,590	1,570	1,163	1,030	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
	13.1%	38.6%	63.7%	86.0%	92.4%	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%

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 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 1997/98					\$4,078	\$4,412	\$4,120	\$4,122	\$4,923	\$4,123	\$4,123	\$4,123	\$4,123	\$4,126	\$4,125	\$4,125	\$4,125	\$4,125	\$4,125	\$4,125	\$2,437
1998/99	290	631	701	634	559	479	479	479	559	559	559	559	559	479	479	479	479	479	479	479	570
1999/00	278	312	416	489	607	559	559	559	559	559	559	559	559	559	559	559	559	559	559	559	559
2000/01	2,168	2,406	2,873	3,023	9,780	26,021	26,021	14,021	9,771	9,771	9,771	9,771	9,771	9,771	9,771	9,771	9,771	9,771	9,771	9,771	9,771
2001/02	233	422	1,353	2,168	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	2,498	2,498	2,498	2,498
2002/03	246	488	320	238	213	221	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213
2003/04	163	361	339	571	505	405	455	385	385	385	385	385	385	385	385	385	385	385	385	385	385
2004/05	277	614	2,824	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833
2005/06	204	250	207	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171
2006/07	160	263	633	834	834	834	834	834	834	834	834	834	834	834	834	834	834	834	834	834	834
2007/08	91	155	131	122	130	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
2008/09	132	164	184	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173
2009/10	618	381	2,725	6,473	6,973	6,848	6,828	6,830													
2010/11	229	380	514	809	809	809	809	809	809	809	809	809	809	809	809	809	809	809	809	809	809
2011/12	166	363	762	462	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432
2012/13	213	334	272	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282
2013/14	740	1,306	3,408	2,907																	
2014/15	137	242	215																		
2015/16	960	1,331																			
2016/17	296																				

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 1997/98					1,082	0,934	1,000	1,194	0,837	1,000	1,000	1,000	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,000	0,591
1998/99	2,170	1,113	0,904	0,881	0,859	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1999/00	1,123	1,332	1,176	1,241	0,922	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2000/01	1,100	1,194	1,053	3,233	2,661	1,000	0,539	0,697	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2001/02	1,813	3,158	1,642	1,511	1,605	0,471	1,000	0,897	1,000	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	1,994	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	1,000	1,000	1,000
2003/04	2,215	1,685	1,885	0,802	1,123	0,846	1,000	1,000	1,000	1,000	1,000	1,000	1,029	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,000	1,029	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2005/06	1,229	0,825	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,645	2,402	1,319	1,000	1,000	1,180	1,000	1,000	1,000	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	1,704	0,847	0,933	1,061	0,986	1,000	1,000	1,000	1,000	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	1,246	1,123	0,940	1,000	1,000	1,123	1,000	1,000	1,000	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	0,617	7,154	2,376	1,077	0,982	1,000	1,000	0,994	1,000	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	1,659	1,353	1,574	1,000	1,000	1,000	1,000	1,000	1,000	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	2,187	2,098	0,606	0,935	1,000	1,000	1,000	1,000	1,000	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	1,572	0,814	1,037	1,000	1,000	1,000	1,000	1,000	1,000	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	1,764	2,610	0,853																		
2014/15	1,763	0,887																			
2015/16	1,358																				
2016/17																					

Average All
Wtd 3
Last 3
Last 5
x-tillow

1,631	1,947	1,167	1,181	1,129	0,977	0,925	0,990	0,988	0,988	0,998	1,003	1,000	1,004	1,000	1,000	1,000	0,944	1,095	1,000	1,000	0,591
1,550	2,069	0,822	0,981	0,985	0,968	1,000	0,989	1,004	0,997	1,002	0,999	1,000	1,004	1,000	1,000	1,000	0,982	1,000	1,000	1,000	1,000
1,628	1,437	0,832	0,978	0,994	1,002	1,000	0,988	1,009	0,995	1,010	0,989	1,010	1,010	1,000	1,000	1,000	0,944	1,000	1,000	1,000	1,000
1,700	1,446	1,155	1,000	0,995	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
1,410	1,170	1,085	1,038	1,014	1,005	1,002	1,002	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
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	1,000	1,000
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	1,000	1,000
2,624	1,521	1,170	1,040	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
36.1%	65.7%	85.4%	96.1%	99.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	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 limited (net of excess insurance).

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 1/997/08																						
1999/09	16.9%	21.5%	46.5%	70.5%	86.7%	90.9%	99.4%	100.0%	83.7%	100.0%	100.0%	100.0%	100.0%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1999/10	20.6%	44.1%	47.2%	45.2%	84.5%	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%	
2000/01	1.7%	8.0%	8.6%	8.6%	66.9%	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%	
2001/02	13.6%	33.8%	33.6%	39.1%	2.7%	23.1%	23.1%	42.9%	61.6%	61.6%	61.6%	61.6%	61.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2002/03	9.5%	15.6%	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%	
2003/04	30.8%	38.0%	39.1%	74.5%	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%	
2004/05	22.0%	25.9%	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%	
2005/06	29.9%	54.2%	78.3%	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%	
2006/07	20.4%	36.4%	31.6%	100.0%	28.1%	100.0%	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%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2010/11	18.5%	34.9%	45.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	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%	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%	
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%																				
2016/17	32.0%																					
Average	19.3%	35.3%	44.8%	63.1%	72.6%	77.0%	87.5%	95.6%	95.4%	96.5%	96.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
All	21.0%	46.1%	58.4%	81.2%	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%	
Last 3	17.5%	31.6%	43.1%	81.2%	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%	
Last 5																						
x-high																						
Implicit	34.3%	58.7%	74.6%	89.5%	93.4%	97.1%	99.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/17 (2)	Limited Paid Losses 11/30/17 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1997/98	240.0	\$2,436,874	100.0%	\$2,436,874
1998/99	228.0	570,267	100.0%	570,267
1999/00	216.0	464,802	100.0%	464,802
2000/01	204.0	9,770,711	100.0%	9,770,711
2001/02	192.0	2,497,706	100.0%	2,497,706
2002/03	180.0	213,389	100.0%	213,389
2003/04	168.0	396,526	100.0%	396,526
2004/05	156.0	2,828,107	100.0%	2,828,107
2005/06	144.0	176,288	100.0%	176,288
2006/07	132.0	623,841	100.0%	623,841
2007/08	120.0	131,792	100.0%	131,792
2008/09	108.0	173,974	100.0%	173,974
2009/10	96.0	6,830,313	100.0%	6,830,313
2010/11	84.0	808,599	99.0%	816,685
2011/12	72.0	431,959	97.1%	445,005
2012/13	60.0	281,949	92.4%	304,987
2013/14	48.0	2,907,409	86.0%	3,380,847
2014/15	36.0	214,713	63.7%	337,064
2015/16	24.0	1,220,018	38.6%	3,160,118
2016/17	12.0	94,878	13.1%	724,980
Total		\$33,074,115		\$36,284,274

(3) is from Exhibit AL-1.

(4) is from Exhibit AL-2.

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/17 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1997/98	240.0	\$2,436,874	100.0%	\$2,436,874
1998/99	228.0	570,267	100.0%	570,267
1999/00	216.0	464,802	100.0%	464,802
2000/01	204.0	9,770,711	100.0%	9,770,711
2001/02	192.0	2,497,706	100.0%	2,497,706
2002/03	180.0	213,389	100.0%	213,389
2003/04	168.0	396,526	100.0%	396,526
2004/05	156.0	2,828,107	100.0%	2,828,107
2005/06	144.0	176,288	100.0%	176,288
2006/07	132.0	623,841	100.0%	623,841
2007/08	120.0	131,792	100.0%	131,792
2008/09	108.0	173,974	100.0%	173,974
2009/10	96.0	6,830,313	100.0%	6,830,313
2010/11	84.0	808,599	100.0%	808,599
2011/12	72.0	431,959	100.0%	431,959
2012/13	60.0	281,949	99.0%	284,769
2013/14	48.0	2,907,409	96.1%	3,024,578
2014/15	36.0	214,713	85.4%	251,287
2015/16	24.0	1,330,718	65.7%	2,024,606
2016/17	12.0	296,033	38.1%	776,933
Total		\$33,385,970		\$34,717,320

(3) is from Exhibit AL-1.

(4) is from Exhibit AL-2.

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/17 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/17 (6)	Limited Case Reserves 11/30/17 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1997/98	240.0	100.0%	100.0%	100.0%	\$2,436,874	\$0	\$2,436,874
1998/99	228.0	100.0%	100.0%	100.0%	570,267	0	570,267
1999/00	216.0	100.0%	100.0%	100.0%	464,802	0	464,802
2000/01	204.0	100.0%	100.0%	100.0%	9,770,711	0	9,770,711
2001/02	192.0	100.0%	100.0%	100.0%	2,497,706	0	2,497,706
2002/03	180.0	100.0%	100.0%	100.0%	213,389	0	213,389
2003/04	168.0	100.0%	100.0%	100.0%	396,526	0	396,526
2004/05	156.0	100.0%	100.0%	100.0%	2,828,107	0	2,828,107
2005/06	144.0	100.0%	100.0%	100.0%	176,288	0	176,288
2006/07	132.0	100.0%	100.0%	100.0%	623,841	0	623,841
2007/08	120.0	100.0%	100.0%	100.0%	131,792	0	131,792
2008/09	108.0	100.0%	100.0%	100.0%	173,974	0	173,974
2009/10	96.0	100.0%	100.0%	100.0%	6,830,313	0	6,830,313
2010/11	84.0	99.0%	100.0%	100.0%	808,599	0	808,599
2011/12	72.0	97.1%	100.0%	100.0%	431,959	0	431,959
2012/13	60.0	92.4%	99.0%	86.9%	281,949	0	281,949
2013/14	48.0	86.0%	96.1%	72.3%	2,907,409	0	2,907,409
2014/15	36.0	63.7%	85.4%	59.9%	214,713	0	214,713
2015/16	24.0	38.6%	65.7%	44.2%	1,220,018	110,700	1,470,612
2016/17	12.0	13.1%	38.1%	28.8%	94,878	201,155	793,756
Total					\$33,074,115	\$311,855	\$34,023,587

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

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

Preliminary Projected Ultimate Limited Losses to 2016/17

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 1997/98	\$2,436,874	\$2,436,874	\$2,436,874	\$2,436,874
1998/99	570,267	570,267	570,267	570,267
1999/00	464,802	464,802	464,802	464,802
2000/01	9,770,711	9,770,711	9,770,711	9,770,711
2001/02	2,497,706	2,497,706	2,497,706	2,497,706
2002/03	213,389	213,389	213,389	213,389
2003/04	396,526	396,526	396,526	396,526
2004/05	2,828,107	2,828,107	2,828,107	2,828,107
2005/06	176,288	176,288	176,288	176,288
2006/07	623,841	623,841	623,841	623,841
2007/08	131,792	131,792	131,792	131,792
2008/09	173,974	173,974	173,974	173,974
2009/10	6,830,313	6,830,313	6,830,313	6,830,313
2010/11	816,685	808,599	808,599	808,599
2011/12	445,005	431,959	431,959	431,959
2012/13	304,987	284,769	281,949	281,949
2013/14	3,380,847	3,024,578	2,907,409	2,907,409
2014/15	337,064	251,287	214,713	214,713
2015/16	3,160,118	2,024,606	1,470,612	2,030,111
2016/17	724,980	776,933	793,756	773,272
Total	\$36,284,274	\$34,717,320	\$34,023,587	\$34,562,601

(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 (2017/18 = 1.000) (5)	Trended Limited Loss Rate per Vehicle (4)X(5) (6)	Projected A-priori Loss Rate per Vehicle (7)/(5) (8)
2007/08	\$131,792	1,926	\$68.45	1.411	\$96.55	\$658.95
2008/09	173,974	1,926	90.35	1.363	123.14	682.01
2009/10	6,830,313	1,926	3,547.29	1.317	4,671.11	705.88
2010/11	808,599	2,071	390.44	1.272	496.75	730.59
2011/12	431,959	1,837	235.14	1.229	289.05	756.16
2012/13	281,949	1,892	149.02	1.188	176.99	782.62
2013/14	2,907,409	1,921	1,513.49	1.148	1,736.76	810.01
2014/15	214,713	2,022	106.19	1.109	117.73	838.36
2015/16	2,030,111	1,915	1,060.11	1.071	1,135.62	867.71
2016/17	773,272	1,773	436.14	1.035	451.40	898.08

(7) Projected 2017/18 a-priori loss rate per Vehicle \$929.51

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/17 (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)
2012/13	\$281,949	92.4%	\$782.62	1,892	\$111,851	\$393,800
2013/14	2,907,409	86.0%	810.01	1,921	217,900	3,125,309
2014/15	214,713	63.7%	838.36	2,022	615,330	830,043
2015/16	1,220,018	38.6%	867.71	1,915	1,020,148	2,240,166
2016/17	94,878	13.1%	898.08	1,773	1,383,908	1,478,786

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/17 (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)
2012/13	\$281,949	99.0%	\$782.62	1,892	\$14,661	\$296,610
2013/14	2,907,409	96.1%	810.01	1,921	60,279	2,967,688
2014/15	214,713	85.4%	838.36	2,022	246,725	461,438
2015/16	1,330,718	65.7%	867.71	1,915	569,497	1,900,215
2016/17	296,033	38.1%	898.08	1,773	985,584	1,281,617

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 11/30/17 (2)	Reported Claims 11/30/17 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Vehicles (6)	Frequency (per Vehicle) (5)/(6) (7)
2007/08	120.0	71	100.0%	71	1,926	0.04
2008/09	108.0	60	100.0%	60	1,926	0.03
2009/10	96.0	62	100.0%	62	1,926	0.03
2010/11	84.0	88	100.0%	88	2,071	0.04
2011/12	72.0	75	100.0%	75	1,837	0.04
2012/13	60.0	58	100.0%	58	1,892	0.03
2013/14	48.0	85	100.0%	85	1,921	0.04
2014/15	36.0	62	100.0%	62	2,022	0.03
2015/16	24.0	69	100.0%	69	1,915	0.04
2016/17	12.0	46	98.0%	47	1,773	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 (2017/18 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2017/18 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2007/08	\$131,792	71	\$1,856	1.411	\$2,618	\$18,986	\$1,348,017
2008/09	173,974	60	2,900	1.363	3,952	19,651	1,179,040
2009/10	6,830,313	62	110,166	1.317	145,068	20,338	1,260,984
2010/11	808,599	88	9,189	1.272	11,691	21,050	1,852,426
2011/12	431,959	75	5,759	1.229	7,080	21,787	1,634,029
2012/13	281,949	58	4,861	1.188	5,774	22,550	1,307,877
2013/14	2,907,409	85	34,205	1.148	39,251	23,339	1,983,801
2014/15	214,713	62	3,463	1.109	3,840	24,156	1,497,653
2015/16	2,030,111	69	29,422	1.071	31,517	25,001	1,725,079
2016/17	773,272	47	16,453	1.035	17,028	25,876	1,216,181

(7) Projected 2017/18 average claim severity

\$26,782

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 2016/17

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 1997/98	\$2,436,874	\$2,436,874	\$2,436,874				\$4,124,745	\$2,436,874
1998/99	570,267	570,267	570,267				479,494	570,267
1999/00	464,802	464,802	464,802				559,093	464,802
2000/01	9,770,711	9,770,711	9,770,711				9,770,712	9,770,711
2001/02	2,497,706	2,497,706	2,497,706				2,497,705	2,497,706
2002/03	213,389	213,389	213,389				213,389	213,389
2003/04	396,526	396,526	396,526				385,312	396,526
2004/05	2,828,107	2,828,107	2,828,107				2,832,890	2,828,107
2005/06	176,288	176,288	176,288				171,088	176,288
2006/07	623,841	623,841	623,841				634,042	623,841
2007/08	131,792	131,792	131,792				128,155	131,792
2008/09	173,974	173,974	173,974				175,055	173,974
2009/10	6,830,313	6,830,313	6,830,313				6,828,345	6,830,313
2010/11	816,685	808,599	808,599				808,599	808,599
2011/12	445,005	431,959	431,959				431,959	431,959
2012/13	304,987	284,769	281,949	393,800	296,610	1,307,877	281,949	281,949
2013/14	3,380,847	3,024,578	2,907,409	3,125,309	2,967,688	1,983,801	3,750,000	2,907,409
2014/15	337,064	251,287	214,713	830,043	461,438	1,497,653	900,000	214,713
2015/16	3,160,118	2,024,606	1,470,612	2,240,166	1,900,215	1,725,079	2,000,000	2,000,000
2016/17	724,980	776,933	793,756	1,478,786	1,281,617	1,216,181	1,740,000	1,350,000
Total	\$36,284,274	\$34,717,320	\$34,023,587				\$38,712,532	\$35,109,219
2012/13 - 2016/17	7,907,996	6,362,173	5,668,440	8,068,104	6,907,569	7,730,590	8,671,949	6,754,072
to 2011/12	28,376,278	28,355,147	28,355,147				30,040,583	28,355,147
						Change		
						All years		-\$3,603,313
						2012/13 - 2016/17		-1,917,878
						to 2011/12		-1,685,436

(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 2017/18 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Vehicles (3)	Limited Loss Rate per Vehicle (2)/(3) (4)	Loss Rate Trend (2017/18 = 1.000) (5)	Trended Limited Loss Rate per Vehicle (4)X(5) (6)
2007/08	\$131,792	1,926	\$68.45	1.411	\$96.55
2008/09	173,974	1,926	90.35	1.363	123.14
2009/10	6,830,313	1,926	3,547.29	1.317	4,671.11
2010/11	808,599	2,071	390.44	1.272	496.75
2011/12	431,959	1,837	235.14	1.229	289.05
2012/13	281,949	1,892	149.02	1.188	176.99
2013/14	2,907,409	1,921	1,513.49	1.148	1,736.76
2014/15	214,713	2,022	106.19	1.109	117.73
2015/16	2,000,000	1,915	1,044.39	1.071	1,118.77
2016/17	1,350,000	1,773	761.42	1.035	788.07
Total	\$15,130,710	19,208	\$787.75		\$961.49

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)
2017/18	\$961.49	1,847	\$1,776,000	0.95	\$915.92	\$1,692,000
2018/19	995.15	1,847	1,838,000	0.95	947.97	1,751,000
2019/20	1,029.98	1,847	1,902,000	0.95	981.15	1,812,000

(2) is from Exhibit AL-9.

(3) 2010/11, 2011/12, 2012/13, 2013/14, 2014/15, 2015/16 and 2016/17 were provided by the County. Other periods assume a 0% trend.

(5) is based on a 3.5% trend.

(7) 2017/18 is based on (6) and actuarial judgment.
Other period(s) based on 2017/18 plus a 3% trend.

(8) to 2017/18 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit AL-2.



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Exhibit AL-11

Estimated Outstanding Losses as of November 30, 2017

Claim Period (1)	Limited Paid Losses 11/30/17 (2)	Limited Case Reserves 11/30/17 (3)	Limited Reported Incurred Losses 11/30/17 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/17 (5)-(4) (6)	Estimated Outstanding Losses 11/30/17 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/17 (7)X(8) (9)
to 1997/98	\$2,436,874	\$0	\$2,436,874	\$2,436,874	\$0	\$0	1.00	\$0
1998/99	570,267	0	570,267	570,267	0	0	1.00	0
1999/00	464,802	0	464,802	464,802	0	0	1.00	0
2000/01	9,770,711	0	9,770,711	9,770,711	0	0	1.00	0
2001/02	2,497,706	0	2,497,706	2,497,706	0	0	1.00	0
2002/03	213,389	0	213,389	213,389	0	0	1.00	0
2003/04	396,526	0	396,526	396,526	0	0	1.00	0
2004/05	2,828,107	0	2,828,107	2,828,107	0	0	1.00	0
2005/06	176,288	0	176,288	176,288	0	0	1.00	0
2006/07	623,841	0	623,841	623,841	0	0	1.00	0
2007/08	131,792	0	131,792	131,792	0	0	1.00	0
2008/09	173,974	0	173,974	173,974	0	0	1.00	0
2009/10	6,830,313	0	6,830,313	6,830,313	0	0	1.00	0
2010/11	808,599	0	808,599	808,599	0	0	0.99	0
2011/12	431,959	0	431,959	431,959	0	0	0.98	0
2012/13	281,949	0	281,949	281,949	0	0	0.98	0
2013/14	2,907,409	0	2,907,409	2,907,409	0	0	0.98	0
2014/15	214,713	0	214,713	214,713	0	0	0.98	0
2015/16	1,220,018	110,700	1,330,718	2,000,000	669,282	779,982	0.97	758,360
2016/17	94,878	201,155	296,033	1,350,000	1,053,967	1,255,122	0.96	1,211,020
Total	\$33,074,115	\$311,855	\$33,385,970	\$35,109,219	\$1,723,249	\$2,035,104		\$1,969,380

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

(5) is from Exhibit AL-9.

(8) is based on a 1.9% interest rate and the payout pattern in Exhibit AL-2.

Projected Losses Paid December 1, 2017 to November 30, 2018

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Months of Development 11/30/18 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/17 to 11/30/18 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/17 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/18 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/18 (9)X(10) (11)
to 1997/98	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	84.0	99.0%	96.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	72.0	97.1%	84.0	99.0%	66.2%	0	0	0	0.99	0
2012/13	60.0	92.4%	72.0	97.1%	61.2%	0	0	0	0.98	0
2013/14	48.0	86.0%	60.0	92.4%	46.1%	0	0	0	0.98	0
2014/15	36.0	63.7%	48.0	86.0%	61.4%	0	0	0	0.98	0
2015/16	24.0	38.6%	36.0	63.7%	40.9%	779,982	318,816	461,166	0.98	450,938
2016/17	12.0	13.1%	24.0	38.6%	29.4%	1,255,122	368,533	886,589	0.97	862,012
2017/18	0.0	0.0%	12.0	13.1%	13.1%	1,776,000	232,426	1,543,574	0.96	1,489,337
Total						\$3,811,104	\$919,775	\$2,891,329		\$2,802,287

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

(7) to 2016/17 is from Exhibit AL-11. The amount for 2017/18 is from Exhibit AL-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit AL-2.

Projected Losses Paid December 1, 2018 to November 30, 2019

Claim Period (1)	Months of Development 11/30/18 (2)	Percent Losses Paid (3)	Months of Development 11/30/19 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/18 to 11/30/19 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/18 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/19 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/19 (9)X(10) (11)
to 1997/98	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	84.0	99.0%	96.0	100.0%	100.0%	0	0	0	1.00	0
2012/13	72.0	97.1%	84.0	99.0%	66.2%	0	0	0	0.99	0
2013/14	60.0	92.4%	72.0	97.1%	61.2%	0	0	0	0.98	0
2014/15	48.0	86.0%	60.0	92.4%	46.1%	0	0	0	0.98	0
2015/16	36.0	63.7%	48.0	86.0%	61.4%	461,166	283,256	177,910	0.98	173,572
2016/17	24.0	38.6%	36.0	63.7%	40.9%	886,589	362,391	524,198	0.98	512,573
2017/18	12.0	13.1%	24.0	38.6%	29.4%	1,543,574	453,230	1,090,344	0.97	1,060,119
2018/19	0.0	0.0%	12.0	13.1%	13.1%	1,838,000	240,540	1,597,460	0.96	1,541,329
Total						\$4,729,329	\$1,339,417	\$3,389,912		\$3,287,593

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

(7) to 2017/18 is from Exhibit AL-12, (9). The amount for 2018/19 is from Exhibit AL-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit AL-2.

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

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1997/98	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1998/99	252.0	100.0%	264.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	240.0	100.0%	252.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2012/13	84.0	99.0%	96.0	100.0%	100.0%	0	0	0	1.00	0
2013/14	72.0	97.1%	84.0	99.0%	66.2%	0	0	0	0.99	0
2014/15	60.0	92.4%	72.0	97.1%	61.2%	0	0	0	0.98	0
2015/16	48.0	86.0%	60.0	92.4%	46.1%	177,910	81,942	95,968	0.98	94,153
2016/17	36.0	63.7%	48.0	86.0%	61.4%	524,198	321,971	202,227	0.98	197,296
2017/18	24.0	38.6%	36.0	63.7%	40.9%	1,090,344	445,676	644,668	0.98	630,371
2018/19	12.0	13.1%	24.0	38.6%	29.4%	1,597,460	469,052	1,128,408	0.97	1,097,127
2019/20	0.0	0.0%	12.0	13.1%	13.1%	1,902,000	248,915	1,653,085	0.96	1,595,000
Total						\$5,291,912	\$1,567,556	\$3,724,356		\$3,613,947

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

(7) to 2018/19 is from Exhibit AL-13, (9). The amount for 2019/20 is from Exhibit AL-10.

(10) is based on a 1.9% 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 11/30/17 (5)	Unlimited Case Reserves 11/30/17 (6)	Unlimited Reported Incurred Losses 11/30/17 (7)
97000014	12/17/1993	to 1997/98	Unlimited	\$400,000	\$0	\$400,000
97000616	4/14/1994	to 1997/98	Unlimited	306,007	0	306,007
97003422	5/28/2001	2000/01	9,500,000	5,750,000	0	5,750,000
97003499	5/28/2001	2000/01	9,500,000	3,750,000	0	3,750,000
97004328	8/7/2002	2001/02	9,500,000	1,500,000	0	1,500,000
97004226	10/27/2002	2001/02	9,500,000	587,543	0	587,543
97005965	3/21/2005	2004/05	10,000,000	500,000	0	500,000
97005623	6/4/2005	2004/05	10,000,000	1,809,197	0	1,809,197
97007383	10/9/2007	2006/07	10,000,000	400,000	0	400,000
97008761	1/26/2010	2009/10	10,000,000	725,000	0	725,000
97008566	8/15/2010	2009/10	10,000,000	6,000,000	0	6,000,000
97008845	1/26/2011	2010/11	10,000,000	575,000	0	575,000
97011269	12/6/2013	2013/14	15,000,000	2,500,000	0	2,500,000
201600427	6/10/2016	2015/16	15,000,000	906,474	0	906,474

Amounts are gross of excess insurance.

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

Size of Loss Distribution

I. Reported Claim Count

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	801	20	29	25	3	5	883		
0.01 - 5,000	928	29	43	31	48	33	1,112	1,112	78.9%
5,000 - 10,000	135	3	5	2	6	2	153	1,265	89.8%
10,000 - 25,000	57	3	4	1	8	1	74	1,339	95.0%
25,000 - 50,000	21	2	1	2	2	4	32	1,371	97.3%
50,000 - 100,000	12	1	2	1	1	1	18	1,389	98.6%
100,000 - 250,000	6	0	0	0	0	0	6	1,395	99.0%
250,000 - 500,000	4	0	0	0	0	0	4	1,399	99.3%
500,000 - 750,000	3	0	0	0	0	0	3	1,402	99.5%
750,000 - 1,000,000	0	0	0	0	1	0	1	1,403	99.6%
Over 1,000,000	5	0	1	0	0	0	6	1,409	100.0%
Total	1,972	58	85	62	69	46	2,292	1,409	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (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	1,460,661	51,123	83,619	54,114	60,515	43,580	1,753,612	1,753,612	5.3%
5,000 - 10,000	1,032,886	24,118	37,434	15,104	46,863	13,474	1,169,879	2,923,491	8.8%
10,000 - 25,000	977,495	51,296	76,073	11,700	136,293	25,000	1,277,857	4,201,347	12.6%
25,000 - 50,000	786,129	80,412	40,508	68,795	80,574	151,978	1,208,396	5,409,744	16.2%
50,000 - 100,000	933,786	75,000	169,776	65,000	100,000	62,000	1,405,562	6,815,306	20.4%
100,000 - 250,000	861,443	0	0	0	0	0	861,443	7,676,748	23.0%
250,000 - 500,000	1,606,007	0	0	0	0	0	1,606,007	9,282,756	27.8%
500,000 - 750,000	1,887,543	0	0	0	0	0	1,887,543	11,170,298	33.5%
750,000 - 1,000,000	0	0	0	0	906,474	0	906,474	12,076,773	36.2%
Over 1,000,000	18,809,197	0	2,500,000	0	0	0	21,309,197	33,385,970	100.0%
Total	\$28,355,147	\$281,949	\$2,907,409	\$214,713	\$1,330,718	\$296,033	\$33,385,970	\$33,385,970	

Amounts are gross of excess insurance and other recoveries.

Data was provided by the County.

Data Summary as of November 30, 2017
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Revenue (000) (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Limited Paid Losses 11/30/17 (8)	Limited Case Reserves 11/30/17 (9)	Limited Reported Incurred Losses 11/30/17 (10)
to 1997/98	See Note	None	240.0	Not Provided	1,253	2	\$82,219,574	\$2,000,000	\$84,219,574
1998/99	Unlimited	None	228.0	958,768	128	0	4,931,724	0	4,931,724
1999/00	Unlimited	None	216.0	1,018,542	125	0	2,720,812	0	2,720,812
2000/01	9,500,000	None	204.0	1,068,809	178	1	7,938,079	100,000	8,038,079
2001/02	9,500,000	None	192.0	1,057,079	163	1	12,153,693	10,000	12,163,693
2002/03	9,500,000	None	180.0	1,086,728	184	0	6,244,784	0	6,244,784
2003/04	10,000,000	None	168.0	1,199,434	179	2	68,325,652	7,500	68,333,152
2004/05	10,000,000	None	156.0	1,189,789	161	5	4,714,938	12,555,000	17,269,938
2005/06	10,000,000	None	144.0	1,357,723	230	3	6,622,295	190,000	6,812,295
2006/07	10,000,000	None	132.0	1,243,144	323	5	9,309,273	715,000	10,024,273
2007/08	10,000,000	None	120.0	1,207,801	269	4	8,021,661	5,605,000	13,626,661
2008/09	10,000,000	None	108.0	1,303,812	326	6	5,852,791	1,450,000	7,302,791
2009/10	10,000,000	None	96.0	1,287,986	325	7	7,187,368	716,000	7,903,368
2010/11	10,000,000	None	84.0	1,293,078	289	14	8,888,355	11,838,601	20,726,956
2011/12	10,000,000	None	72.0	1,331,769	420	16	5,693,873	2,784,500	8,478,373
2012/13	15,000,000	None	60.0	1,285,791	500	41	4,234,510	9,103,500	13,338,010
2013/14	15,000,000	None	48.0	1,362,902	659	59	8,283,017	3,834,000	12,117,017
2014/15	15,000,000	None	36.0	1,509,150	415	124	1,554,134	22,712,000	24,266,134
2015/16	15,000,000	None	24.0	1,699,156	280	132	659,252	3,378,620	4,037,872
2016/17	15,000,000	None	12.0	Not Provided	114	93	3,302,350	6,605,600	9,907,950
Total					6,521	515	\$258,858,134	\$83,605,321	\$342,463,455

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

Effective Date	Retention
12/01/77	Unlimited
12/01/00	9,500,000
12/01/03	10,000,000
03/01/13	15,000,000

(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, 2017
Gross Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/17 (4)	Revenue (000) (5)	Reported Claims 11/30/17 (6)	Open Claims 11/30/17 (7)	Gross Unlimited Paid Losses 11/30/17 (8)	Gross Unlimited Case Reserves 11/30/17 (9)	Gross Unlimited Reported Incurred Losses 11/30/17 (10)
to 1997/98	Unlimited	None	240.0	Not Provided	1,253	2	\$82,219,574	\$2,000,000	\$84,219,574
1998/99	Unlimited	None	228.0	958,768	128	0	4,931,724	0	4,931,724
1999/00	Unlimited	None	216.0	1,018,542	125	0	2,720,812	0	2,720,812
2000/01	Unlimited	None	204.0	1,068,809	178	1	7,938,079	100,000	8,038,079
2001/02	Unlimited	None	192.0	1,057,079	163	1	12,153,693	10,000	12,163,693
2002/03	Unlimited	None	180.0	1,086,728	184	0	6,244,784	0	6,244,784
2003/04	Unlimited	None	168.0	1,199,434	179	2	68,325,652	7,500	68,333,152
2004/05	Unlimited	None	156.0	1,189,789	161	5	4,714,938	12,555,000	17,269,938
2005/06	Unlimited	None	144.0	1,357,723	230	3	6,622,295	190,000	6,812,295
2006/07	Unlimited	None	132.0	1,243,144	323	5	9,309,273	715,000	10,024,273
2007/08	Unlimited	None	120.0	1,207,801	269	4	8,021,661	5,605,000	13,626,661
2008/09	Unlimited	None	108.0	1,303,812	326	6	5,852,791	1,450,000	7,302,791
2009/10	Unlimited	None	96.0	1,287,986	325	7	7,187,368	716,000	7,903,368
2010/11	Unlimited	None	84.0	1,293,078	289	14	8,888,355	27,713,601	36,601,956
2011/12	Unlimited	None	72.0	1,331,769	420	16	5,693,873	3,334,500	8,478,373
2012/13	Unlimited	None	60.0	1,285,791	500	41	4,234,510	9,103,500	13,338,010
2013/14	Unlimited	None	48.0	1,362,902	659	59	8,283,017	3,839,000	12,117,017
2014/15	Unlimited	None	36.0	1,509,150	415	124	1,554,134	22,712,000	24,266,134
2015/16	Unlimited	None	24.0	1,699,156	280	132	659,252	3,378,620	4,037,872
2016/17	Unlimited	None	12.0	Not Provided	114	93	3,302,350	6,605,600	9,907,950
Total					6,521	515	\$258,858,134	\$100,035,321	\$358,338,455

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

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	99.9%	100.0%	100.0%
336.0	99.9%	100.0%	100.0%
324.0	99.9%	100.0%	100.0%
312.0	99.8%	100.0%	100.0%
300.0	99.8%	100.0%	100.0%
288.0	99.6%	100.0%	100.0%
276.0	99.5%	100.0%	100.0%
264.0	99.3%	100.0%	100.0%
252.0	99.0%	100.0%	100.0%
240.0	98.5%	100.0%	100.0%
228.0	98.3%	99.9%	100.0%
216.0	98.0%	99.8%	100.0%
204.0	97.7%	99.7%	100.0%
192.0	97.4%	99.5%	100.0%
180.0	97.2%	99.3%	100.0%
168.0	96.7%	99.0%	100.0%
156.0	96.2%	98.7%	100.0%
144.0	95.7%	98.0%	100.0%
132.0	94.8%	97.3%	100.0%
120.0	93.4%	96.7%	100.0%
108.0	90.6%	95.4%	100.0%
96.0	84.7%	92.2%	100.0%
84.0	78.4%	89.1%	100.0%
72.0	62.8%	86.1%	100.0%
60.0	49.2%	79.7%	100.0%
48.0	30.0%	68.4%	100.0%
36.0	13.6%	58.7%	100.0%
24.0	2.7%	29.4%	98.5%
12.0	0.2%	11.7%	82.1%

(2) is from Exhibit OL-2 (page 2).

(3) is from Exhibit OL-2 (page 3).

(4) is from Exhibit OL-2 (page 4).

(6), (7) and (8) are interpolated, based on (2), (3) and (4), respectively.

COOK COUNTY, ILLINOIS
OTHER LIABILITY

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

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 1997/98																					
1998/99	197	2,915	5,554	4,757	6,452	5,682	6,977	4,796	4,091	4,606	4,806	4,606	4,606	4,606	4,606	4,606	4,606	4,752	4,932	\$84,220	
1999/00	4,529	9,421	8,084	6,922	5,610	6,055	6,810	5,235	5,163	5,473	3,163	2,713	2,713	2,713	2,713	2,713	2,713	2,713	2,713		
2000/01	3,684	3,612	4,084	4,006	6,360	8,697	8,743	6,143	6,623	6,360	7,260	7,268	7,268	7,268	7,263	7,363	7,363	7,363	7,363		
2001/02	1,519	2,478	3,950	6,086	9,357	19,611	19,327	14,124	13,434	11,889	12,491	12,741	15,226	12,626	12,626	12,626	12,626	12,626	12,626		
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	6,184	6,184	6,184	6,184	6,184		
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	68,333	68,333	68,333	68,333	68,333		
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	17,270	17,270	17,270	17,270	17,270	17,270		
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	6,812	6,812	6,812	6,812	6,812	6,812	6,812		
2006/07	1,767	4,668	4,439	6,087	7,935	9,400	8,815	11,745	9,407	9,447	10,024	10,024	10,024	10,024	10,024	10,024	10,024	10,024	10,024		
2007/08	1,928	3,878	8,916	10,754	14,495	13,775	12,474	10,619	12,995	13,627	13,627	13,627	13,627	13,627	13,627	13,627	13,627	13,627	13,627		
2008/09	1,931	2,115	3,581	4,335	4,391	5,435	5,397	7,903	7,903	7,903	7,903	7,903	7,903	7,903	7,903	7,903	7,903	7,903	7,903		
2009/10	972	3,567	6,505	4,332	8,101	19,458	7,589	7,903	7,903	7,903	7,903	7,903	7,903	7,903	7,903	7,903	7,903	7,903	7,903		
2010/11	471	2,406	4,757	5,083	19,422	14,285	20,727	20,727	20,727	20,727	20,727	20,727	20,727	20,727	20,727	20,727	20,727	20,727	20,727		
2011/12	4,276	6,052	15,539	7,564	6,747	8,478	8,478	8,478	8,478	8,478	8,478	8,478	8,478	8,478	8,478	8,478	8,478	8,478	8,478		
2012/13	1,364	3,956	17,420	11,910	13,338	13,338	13,338	13,338	13,338	13,338	13,338	13,338	13,338	13,338	13,338	13,338	13,338	13,338	13,338		
2013/14	4,235	13,094	13,326	12,117	12,117	12,117	12,117	12,117	12,117	12,117	12,117	12,117	12,117	12,117	12,117	12,117	12,117	12,117	12,117		
2014/15	753	3,635	24,266	24,266	24,266	24,266	24,266	24,266	24,266	24,266	24,266	24,266	24,266	24,266	24,266	24,266	24,266	24,266	24,266		
2015/16	1,148	4,038	4,038	4,038	4,038	4,038	4,038	4,038	4,038	4,038	4,038	4,038	4,038	4,038	4,038	4,038	4,038	4,038	4,038		
2016/17	9,908	9,908	9,908	9,908	9,908	9,908	9,908	9,908	9,908	9,908	9,908	9,908	9,908	9,908	9,908	9,908	9,908	9,908	9,908		

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 1997/98																					
1998/99	14,791	1,905	0,857	1,356	0,865	1,124	0,764	0,853	1,126	1,043	0,958	1,000	1,000	1,000	1,000	1,109	0,931	1,038	1,038		
1999/00	1,416	1,251	0,862	0,810	1,060	1,124	0,769	0,886	1,048	0,984	0,858	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
2000/01	1,035	2,480	1,270	0,896	1,040	1,005	0,931	0,813	0,960	1,142	1,001	0,989	1,000	1,014	1,000	1,092	1,003	1,003	1,003		
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	1,000	1,000	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	1,000	1,000	1,000		
2003/04	2,520	3,143	2,213	1,097	1,465	0,987	1,104	0,954	1,006	0,994	1,000	1,000	1,041	1,010	1,000	1,000	1,000	1,000	1,000		
2004/05	2,289	2,330	0,750	0,980	0,896	1,088	1,587	1,543	1,030	0,770	1,000	1,098	1,041	1,010	1,000	1,000	1,000	1,000	1,000		
2005/06	1,947	0,821	0,739	0,832	0,956	2,100	0,790	0,803	0,984	1,018	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075		
2006/07	2,642	0,951	1,371	1,304	1,185	0,938	1,332	0,801	1,004	1,061	1,061	1,061	1,061	1,061	1,061	1,061	1,061	1,061	1,061		
2007/08	2,012	2,299	1,206	1,348	0,950	0,906	0,851	1,224	1,049	1,049	1,049	1,049	1,049	1,049	1,049	1,049	1,049	1,049	1,049		
2008/09	1,096	1,693	1,211	1,013	1,238	0,983	1,113	1,113	1,113	1,113	1,113	1,113	1,113	1,113	1,113	1,113	1,113	1,113	1,113		
2009/10	3,671	1,824	0,666	1,870	2,402	0,390	1,041	1,041	1,041	1,041	1,041	1,041	1,041	1,041	1,041	1,041	1,041	1,041	1,041		
2010/11	5,103	1,977	1,071	3,813	0,736	1,451	1,451	1,451	1,451	1,451	1,451	1,451	1,451	1,451	1,451	1,451	1,451	1,451	1,451		
2011/12	1,415	2,568	0,487	0,892	1,257	1,257	1,257	1,257	1,257	1,257	1,257	1,257	1,257	1,257	1,257	1,257	1,257	1,257	1,257		
2012/13	2,901	4,404	0,684	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120		
2013/14	3,092	1,018	0,909	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120		
2014/15	4,830	6,676	6,676	6,676	6,676	6,676	6,676	6,676	6,676	6,676	6,676	6,676	6,676	6,676	6,676	6,676	6,676	6,676	6,676		
2015/16	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517		
2016/17	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517	3,517		
Average																					
All	3,258	2,270	1,059	1,395	1,202	1,072	0,986	1,039	1,008	0,963	0,990	1,046	0,974	1,005	0,991	1,067	0,967	1,038	1,038		
Wtd 3	3,384	2,680	1,608	1,608	1,232	0,860	0,983	1,047	1,020	0,889	1,011	1,012	0,986	1,006	0,980	1,080	1,000	1,000	1,000		
Last 3	3,813	4,032	0,683	1,342	1,465	0,945	1,002	1,080	1,012	0,950	1,028	1,030	0,948	1,008	0,988	1,067	1,000	1,000	1,000		
Last 5	3,170	2,963	0,753	1,334	1,146	0,945	1,002	1,174	1,013	1,004	1,009	1,032	1,000	1,003	1,000	1,000	1,000	1,000	1,000		
x-tilt/low																					
Similar	1,850	1,400	1,215	1,110	1,063	1,041	1,025	1,023	1,014	1,070	1,005	1,005	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
Previous	2,400	1,900	1,190	1,165	1,070	1,035	1,035	1,030	1,010	1,005	1,005	1,005	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
Selected	2,500	2,000	1,165	1,165	1,080	1,035	1,035	1,035	1,013	1,007	1,007	1,007	1,003	1,003	1,002	1,002	1,001	1,001	1,001		
Cumulative	8,515	3,406	1,703	1,462	1,255	1,162	1,123	1,085	1,048	1,034	1,027	1,020	1,010	1,010	1,007	1,005	1,003	1,002	1,001		
Percent	11.7%	29.4%	58.7%	68.4%	79.7%	86.1%	89.1%	92.2%	95.4%	96.7%	97.3%	98.0%	98.7%	99.0%	99.3%	99.5%	99.7%	99.8%	99.9%	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 limited (net of excess insurance).

Data was provided by the County.

COOK COUNTY, ILLINOIS
OTHER LIABILITY
Historical Reported Claims and Reported Claim Development

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 1997/98																						
1998/99	23	72	75	73	70	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	
1999/00	32	63	78	65	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	
2000/01	54	108	102	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	
2001/02	53	94	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
2002/03	76	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	
2003/04	69	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	
2004/05	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	
2005/06	69	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	
2006/07	76	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	
2007/08	77	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	
2008/09	112	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	
2009/10	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	
2010/11	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	
2011/12	132	132	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	
2012/13	120	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	
2013/14	228	324	324	659																		
2014/15	94	202	415																			
2015/16	95	280																				
2016/17	114																					

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 1997/98																					
1998/99	3,130	1,042	0,973	0,989	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	1,000	1,000	1,000	
1999/00	1,869	1,238	0,833	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	
2000/01	2,000	0,944	0,951	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2001/02	1,774	1,064	1,000	1,000	1,000	1,000	1,000	1,000	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	1,474	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,116	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,000	1,000	1,000	1,000	1,000	1,000	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	1,145	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,750	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,234	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,080	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	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	1,000	1,000	1,000	1,000	1,000	1,000	
2011/12	1,000	1,174	1,000	1,000	2,710	4,379															
2012/13	1,850	1,000	1,000	2,252																	
2013/14	1,421	1,000	2,034																		
2014/15	2,149	2,054																			
2015/16	2,947																				
2016/17																					
Average All	1,613	1,089	1,049	1,082	1,120	1,260	1,156	1,154	1,183	1,159	1,239	1,261	1,221	1,129	1,158	1,278	1,447	1,882	1,001	1,001	
Wtd 3	1,933	1,285	1,478	1,628	1,793	1,743	1,644	1,587	1,567	1,706	1,709	1,423	1,353	1,233	1,240	1,351	1,694	1,882	1,000	1,000	
Last 3	2,172	1,351	1,345	1,417	1,570	2,126	1,625	1,565	1,611	1,476	1,637	1,608	1,442	1,214	1,210	1,278	1,694	1,882	1,000	1,000	
Last 5 x-tiltlow	1,507	1,058	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Similar Previous	1,219	1,047	1,026	1,015	1,012	1,011	1,012	1,013	1,017	1,003	1,003	1,002	1,001	1,001	1,001	1,001	1,000	1,000	1,000	1,001	
Selected Cumulative Percent	1,200	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	1,000	
	82.1%	98.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Data was provided by the County.

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/17 (2)	Limited Paid Losses 11/30/17 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1997/98	240.0	\$82,219,574	98.5%	\$83,452,868
1998/99	228.0	4,931,724	98.3%	5,015,712
1999/00	216.0	2,720,812	98.0%	2,775,449
2000/01	204.0	7,938,079	97.7%	8,121,777
2001/02	192.0	12,153,693	97.4%	12,472,251
2002/03	180.0	6,244,784	97.2%	6,427,690
2003/04	168.0	68,325,652	96.7%	69,116,528 *
2004/05	156.0	4,714,938	96.2%	4,901,687
2005/06	144.0	6,622,295	95.7%	6,919,013
2006/07	132.0	9,309,273	94.8%	9,823,648
2007/08	120.0	8,021,661	93.4%	8,591,864
2008/09	108.0	5,852,791	90.6%	6,456,890
2009/10	96.0	7,187,368	84.7%	8,484,260
2010/11	84.0	8,888,355	78.4%	11,331,548
2011/12	72.0	5,693,873	62.8%	9,073,725
2012/13	60.0	4,234,510	49.2%	8,603,817
2013/14	48.0	8,283,017	30.0%	26,772,741 *
2014/15	36.0	1,554,134	13.6%	11,393,130
2015/16	24.0	659,252	2.7%	24,164,389
2016/17	12.0	3,302,350	0.2%	36,107,362 *
Total		\$258,858,134		\$360,006,349

* - 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 11/30/17 (2)	Limited Reported Incurred Losses 11/30/17 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1997/98	240.0	\$84,219,574	100.0%	\$84,219,574
1998/99	228.0	4,931,724	99.9%	4,936,656
1999/00	216.0	2,720,812	99.8%	2,726,257
2000/01	204.0	8,038,079	99.7%	8,062,217
2001/02	192.0	12,163,693	99.5%	12,224,621
2002/03	180.0	6,244,784	99.3%	6,288,617
2003/04	168.0	68,333,152	99.0%	68,563,814 *
2004/05	156.0	17,269,938	98.7%	17,364,957 *
2005/06	144.0	6,812,295	98.0%	6,949,642
2006/07	132.0	10,024,273	97.3%	10,297,964
2007/08	120.0	13,626,661	96.7%	13,906,982 *
2008/09	108.0	7,302,791	95.4%	7,652,905
2009/10	96.0	7,903,368	92.2%	8,572,154
2010/11	84.0	20,726,956	89.1%	22,041,888 *
2011/12	72.0	8,478,373	86.1%	9,850,788
2012/13	60.0	13,338,010	79.7%	15,207,898 *
2013/14	48.0	12,117,017	68.4%	17,713,478
2014/15	36.0	24,266,134	58.7%	30,780,931 *
2015/16	24.0	4,037,872	29.4%	13,753,605
2016/17	12.0	9,907,950	11.7%	34,118,075 *
Total		\$342,463,455		\$395,233,022

* - 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 11/30/17 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/17 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/17 (6)	Limited Case Reserves 11/30/17 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1997/98	240.0	98.5%	100.0%	100.0%	\$82,219,574	\$2,000,000	\$84,219,574
1998/99	228.0	98.3%	99.9%	94.0%	4,931,724	0	4,931,724
1999/00	216.0	98.0%	99.8%	89.9%	2,720,812	0	2,720,812
2000/01	204.0	97.7%	99.7%	86.8%	7,938,079	100,000	8,053,336
2001/02	192.0	97.4%	99.5%	80.5%	12,153,693	10,000	12,166,117
2002/03	180.0	97.2%	99.3%	75.5%	6,244,784	0	6,244,784
2003/04	168.0	96.7%	99.0%	70.1%	68,325,652	7,500	68,336,345
2004/05	156.0	96.2%	98.7%	66.1%	4,714,938	12,555,000	18,578,148 *
2005/06	144.0	95.7%	98.0%	53.9%	6,622,295	190,000	6,974,699
2006/07	132.0	94.8%	97.3%	49.2%	9,309,273	715,000	10,761,275
2007/08	120.0	93.4%	96.7%	49.8%	8,021,661	5,605,000	13,732,685 *
2008/09	108.0	90.6%	95.4%	51.1%	5,852,791	1,450,000	8,690,296
2009/10	96.0	84.7%	92.2%	49.0%	7,187,368	716,000	8,649,774
2010/11	84.0	78.4%	89.1%	49.4%	8,888,355	11,838,601	28,385,766 *
2011/12	72.0	62.8%	86.1%	62.6%	5,693,873	2,784,500	10,142,144
2012/13	60.0	49.2%	79.7%	60.0%	4,234,510	9,103,500	15,406,007 *
2013/14	48.0	30.0%	68.4%	54.9%	8,283,017	3,834,000	15,271,887
2014/15	36.0	13.6%	58.7%	52.2%	1,554,134	22,712,000	31,329,098 *
2015/16	24.0	2.7%	29.4%	27.4%	659,252	3,378,620	13,000,181
2016/17	12.0	0.2%	11.7%	11.5%	3,302,350	6,605,600	22,234,988 *
Total					\$258,858,134	\$83,605,321	\$389,829,642

* - 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 2016/17

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 1997/98	\$83,452,868	\$84,219,574	\$84,219,574	\$84,419,574
1998/99	5,015,712	4,936,656	4,931,724	4,931,724
1999/00	2,775,449	2,726,257	2,720,812	2,720,812
2000/01	8,121,777	8,062,217	8,053,336	8,053,336
2001/02	12,472,251	12,224,621	12,166,117	12,166,117
2002/03	6,427,690	6,288,617	6,244,784	6,244,784
2003/04	69,116,528	68,563,814	68,336,345	68,336,345
2004/05	4,901,687	17,364,957	18,578,148	18,578,148
2005/06	6,919,013	6,949,642	6,974,699	6,974,699
2006/07	9,823,648	10,297,964	10,761,275	10,761,275
2007/08	8,591,864	13,906,982	13,732,685	14,187,161
2008/09	6,456,890	7,652,905	8,690,296	8,690,296
2009/10	8,484,260	8,572,154	8,649,774	8,642,012
2010/11	11,331,548	22,041,888	28,385,766	27,116,991
2011/12	9,073,725	9,850,788	10,142,144	10,054,737
2012/13	8,603,817	15,207,898	15,406,007	15,326,763
2013/14	26,772,741	17,713,478	15,271,887	17,398,609
2014/15	11,393,130	30,780,931	31,329,098	27,122,638
2015/16	24,164,389	13,753,605	13,000,181	15,534,392
2016/17	36,107,362	34,118,075	22,234,988	29,762,697
Total	\$360,006,349	\$395,233,022	\$389,829,642	\$397,023,112

(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 (2017/18 = 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)
2007/08	\$14,187,161	\$1,207,801	\$11.75	1.480	\$17.39	\$10.20
2008/09	8,690,296	1,303,812	6.67	1.423	9.49	10.61
2009/10	8,642,012	1,287,986	6.71	1.369	9.18	11.03
2010/11	27,116,991	1,293,078	20.97	1.316	27.60	11.47
2011/12	10,054,737	1,331,769	7.55	1.265	9.55	11.93
2012/13	15,326,763	1,285,791	11.92	1.217	14.50	12.41
2013/14	17,398,609	1,362,902	12.77	1.170	14.93	12.90
2014/15	27,122,638	1,509,150	17.97	1.125	20.22	13.42
2015/16	15,534,392	1,699,156	9.14	1.082	9.89	13.96
2016/17	29,762,697	1,699,156	17.52	1.040	18.22	14.52
(7) Projected 2017/18 a-priori loss rate per \$1,000 of Revenue					\$15.10	

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/17 (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)
2012/13	\$4,234,510	49.2%	\$12.41	\$1,285,791	\$8,102,142	\$12,336,652
2013/14	8,283,017	30.0%	12.90	1,362,902	12,309,519	20,592,536
2014/15	1,554,134	13.6%	13.42	1,509,150	17,491,008	19,045,142
2015/16	659,252	2.7%	13.96	1,699,156	23,068,977	23,728,228
2016/17	3,302,350	0.2%	14.52	1,699,156	24,603,463	27,905,813

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/17 (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)
2012/13	\$13,338,010	79.7%	\$12.41	\$1,285,791	\$3,239,914	\$16,577,924
2013/14	12,117,017	68.4%	12.90	1,362,902	5,556,683	17,673,700
2014/15	24,266,134	58.7%	13.42	1,509,150	8,361,330	32,627,464
2015/16	4,037,872	29.4%	13.96	1,699,156	16,753,301	20,791,173
2016/17	9,907,950	11.7%	14.52	1,699,156	21,768,155	31,676,105

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 11/30/17 (2)	Reported Claims 11/30/17 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Revenue (000) (6)	Frequency (per \$1M of Revenue) (5)/(6)X1,000 (7)
2007/08	120.0	269	100.0%	269	\$1,207,801	0.22
2008/09	108.0	326	100.0%	326	1,303,812	0.25
2009/10	96.0	325	100.0%	325	1,287,986	0.25
2010/11	84.0	289	100.0%	289	1,293,078	0.22
2011/12	72.0	420	100.0%	420	1,331,769	0.32
2012/13	60.0	500	100.0%	500	1,285,791	0.39
2013/14	48.0	659	100.0%	659	1,362,902	0.48
2014/15	36.0	415	100.0%	415	1,509,150	0.27
2015/16	24.0	280	98.5%	284	1,699,156	0.17
2016/17	12.0	114	82.1%	139	1,699,156	0.08

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2017/18 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2017/18 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2007/08	\$14,187,161	269	\$52,740	1.480	\$78,069	\$49,297	\$13,260,814
2008/09	8,690,296	326	26,657	1.423	37,942	51,269	16,713,555
2009/10	8,642,012	325	26,591	1.369	36,391	53,319	17,328,778
2010/11	27,116,991	289	93,830	1.316	123,474	55,452	16,025,654
2011/12	10,054,737	420	23,940	1.265	30,292	57,670	24,221,473
2012/13	15,326,763	500	30,654	1.217	37,295	59,977	29,988,491
2013/14	17,398,609	659	26,402	1.170	30,886	62,376	41,105,824
2014/15	27,122,638	415	65,356	1.125	73,516	64,871	26,921,508
2015/16	15,534,392	284	54,699	1.082	59,162	67,466	19,160,329
2016/17	29,762,697	139	214,120	1.040	222,685	70,165	9,752,877

(7) Projected 2017/18 average claim severity

\$72,971

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 2016/17

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 1997/98	\$83,452,868	\$84,219,574	\$84,219,574				\$44,260,591	\$84,420,000
1998/99	5,015,712	4,936,656	4,931,724				4,751,725	4,931,724
1999/00	2,775,449	2,726,257	2,720,812				2,713,278	2,720,812
2000/01	8,121,777	8,062,217	8,053,336				7,373,079	8,053,000
2001/02	12,472,251	12,224,621	12,166,117				12,630,000	12,166,000
2002/03	6,427,690	6,288,617	6,244,784				6,184,351	6,244,784
2003/04	69,116,528	68,563,814	68,336,345				65,620,000	68,336,000
2004/05	4,901,687	17,364,957	18,578,148				18,000,000	18,578,000
2005/06	6,919,013	6,949,642	6,974,699				6,700,000	6,975,000
2006/07	9,823,648	10,297,964	10,761,275				9,550,000	10,500,000
2007/08	8,591,864	13,906,982	13,732,685				13,500,013	14,500,000
2008/09	6,456,890	7,652,905	8,690,296				6,260,000	8,000,000
2009/10	8,484,260	8,572,154	8,649,774				8,110,000	8,642,000
2010/11	11,331,548	22,041,888	28,385,766				15,000,000	23,500,000
2011/12	9,073,725	9,850,788	10,142,144				10,000,000	10,055,000
2012/13	8,603,817	15,207,898	15,406,007	12,336,652	16,577,924	29,988,491	18,000,000	16,000,000
2013/14	26,772,741	17,713,478	15,271,887	20,592,536	17,673,700	41,105,824	20,000,000	16,250,000
2014/15	11,393,130	30,780,931	31,329,098	19,045,142	32,627,464	26,921,508	17,000,000	30,000,000
2015/16	24,164,389	13,753,605	13,000,181	23,728,228	20,791,173	19,160,329	18,000,000	15,000,000
2016/17	36,107,362	34,118,075	22,234,988	27,905,813	31,676,105	9,752,877	18,630,000	26,500,000
Total	\$360,006,349	\$395,233,022	\$389,829,642				\$322,283,038	\$391,372,321
2012/13 - 2016/17	107,041,439	111,573,987	97,242,161	103,608,371	119,346,366	126,929,028	91,630,000	103,750,000
to 2011/12	252,964,910	283,659,034	292,587,481				230,653,038	287,622,321
						Change		
						All years		\$69,089,283
						2012/13 - 2016/17		12,120,000
						to 2011/12		56,969,283

(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 2017/18 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 (2017/18 = 1.000) (5)	Trended Limited Loss Rate per \$1,000 of Revenue (4)X(5) (6)
2007/08	\$14,500,000	\$1,207,801	\$12.01	1.480	\$17.77
2008/09	8,000,000	1,303,812	6.14	1.423	8.73
2009/10	8,642,000	1,287,986	6.71	1.369	9.18
2010/11	23,500,000	1,293,078	18.17	1.316	23.92
2011/12	10,055,000	1,331,769	7.55	1.265	9.55
2012/13	16,000,000	1,285,791	12.44	1.217	15.14
2013/14	16,250,000	1,362,902	11.92	1.170	13.95
2014/15	30,000,000	1,509,150	19.88	1.125	22.36
2015/16	15,000,000	1,699,156	8.83	1.082	9.55
2016/17	26,500,000	1,699,156	15.60	1.040	16.22
Total	\$168,447,000	\$13,980,602	\$12.05		\$14.64

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)
2017/18	\$14.64	\$1,699,156	\$24,871,000	0.90	\$13.16	\$22,355,000
2018/19	15.22	1,699,156	25,866,000	0.90	13.68	23,249,000
2019/20	15.83	1,699,156	26,900,000	0.90	14.23	24,179,000

(2) is from Exhibit OL-9.

(3) 2007/08, 2008/09, 2009/10, 2010/11, 2011/12, 2012/13, 2013/14, 2014/15 and 2015/16 were provided by the County. Other periods assume a 0% trend.

(5) is based on a 4% trend.

(7) 2017/18 is based on (6) and actuarial judgment.
Other period(s) based on 2017/18 plus a 4% trend.

(8) is based on (3) for 2016/17 and a 0% trend.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit OL-2.

Estimated Outstanding Losses as of November 30, 2017

Claim Period (1)	Limited Paid Losses 11/30/17 (2)	Limited Case Reserves 11/30/17 (3)	Limited Reported Incurred Losses 11/30/17 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/17 (5)-(4) (6)	Estimated Outstanding Losses 11/30/17 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/17 (7)X(8) (9)
to 1997/98	\$82,219,574	\$2,000,000	\$84,219,574	\$84,420,000	\$200,426	\$2,200,426	0.95	\$2,091,059
1998/99	4,931,724	0	4,931,724	4,931,724	0	0	0.94	0
1999/00	2,720,812	0	2,720,812	2,720,812	0	0	0.93	0
2000/01	7,938,079	100,000	8,038,079	8,053,000	14,921	114,921	0.92	106,257
2001/02	12,153,693	10,000	12,163,693	12,166,000	2,307	12,307	0.92	11,284
2002/03	6,244,784	0	6,244,784	6,244,784	0	0	0.91	0
2003/04	68,325,652	7,500	68,333,152	68,336,000	2,848	10,348	0.91	9,380
2004/05	4,714,938	12,555,000	17,269,938	18,578,000	1,308,062	13,863,062	0.90	12,508,794
2005/06	6,622,295	190,000	6,812,295	6,975,000	162,706	352,706	0.90	316,455
2006/07	9,309,273	715,000	10,024,273	10,500,000	475,727	1,190,727	0.90	1,072,160
2007/08	8,021,661	5,605,000	13,626,661	14,500,000	873,339	6,478,339	0.91	5,870,764
2008/09	5,852,791	1,450,000	7,302,791	8,000,000	697,209	2,147,209	0.92	1,972,781
2009/10	7,187,368	716,000	7,903,368	8,642,000	738,632	1,454,632	0.94	1,361,769
2010/11	8,888,355	11,838,601	20,726,956	23,500,000	2,773,044	14,611,645	0.94	13,729,673
2011/12	5,693,873	2,784,500	8,478,373	10,055,000	1,576,627	4,361,127	0.95	4,147,321
2012/13	4,234,510	9,103,500	13,338,010	16,000,000	2,661,990	11,765,490	0.95	11,160,019
2013/14	8,283,017	3,834,000	12,117,017	16,250,000	4,132,983	7,966,983	0.95	7,546,782
2014/15	1,554,134	22,712,000	24,266,134	30,000,000	5,733,866	28,445,866	0.94	26,772,242
2015/16	659,252	3,378,620	4,037,872	15,000,000	10,962,128	14,340,748	0.93	13,353,165
2016/17	3,302,350	6,605,600	9,907,950	26,500,000	16,592,050	23,197,650	0.92	21,241,713
Total	\$258,858,134	\$83,605,321	\$342,463,455	\$391,372,321	\$48,908,865	\$132,514,186		\$123,271,618

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

(5) is from Exhibit OL-9.

(8) is based on a 1.9% interest rate and the payout pattern in Exhibit OL-2.

Projected Losses Paid December 1, 2017 to November 30, 2018

Claim Period (1)	Months of Development 11/30/17 (2)	Percent Losses Paid (3)	Months of Development 11/30/18 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/17 to 11/30/18 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/17 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/18 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/18 (9)X(10) (11)
to 1997/98	240.0	98.5%	252.0	99.0%	10.0% *	\$2,200,426	\$220,043	\$1,980,383	0.95	\$1,882,825
1998/99	228.0	98.3%	240.0	98.5%	10.0% *	0	0	0	0.95	0
1999/00	216.0	98.0%	228.0	98.3%	10.0% *	0	0	0	0.94	0
2000/01	204.0	97.7%	216.0	98.0%	10.0% *	114,921	11,492	103,429	0.93	96,412
2001/02	192.0	97.4%	204.0	97.7%	10.0% *	12,307	1,231	11,076	0.92	10,241
2002/03	180.0	97.2%	192.0	97.4%	10.0% *	0	0	0	0.92	0
2003/04	168.0	96.7%	180.0	97.2%	10.0% *	10,348	1,035	9,313	0.91	8,466
2004/05	156.0	96.2%	168.0	96.7%	10.0% *	13,863,062	1,386,306	12,476,756	0.91	11,309,582
2005/06	144.0	95.7%	156.0	96.2%	10.0% *	352,706	35,271	317,435	0.90	286,425
2006/07	132.0	94.8%	144.0	95.7%	10.0% *	1,190,727	119,073	1,071,654	0.90	961,510
2007/08	120.0	93.4%	132.0	94.8%	10.0% *	6,478,339	647,834	5,830,505	0.90	5,249,931
2008/09	108.0	90.6%	120.0	93.4%	10.0% *	2,147,209	214,721	1,932,488	0.91	1,751,248
2009/10	96.0	84.7%	108.0	90.6%	10.0% *	1,454,632	145,463	1,309,169	0.92	1,202,819
2010/11	84.0	78.4%	96.0	84.7%	10.0% *	14,611,645	1,461,165	13,150,480	0.94	12,310,960
2011/12	72.0	62.8%	84.0	78.4%	10.0% *	4,361,127	436,113	3,925,014	0.94	3,688,097
2012/13	60.0	49.2%	72.0	62.8%	10.0% *	11,765,490	1,176,549	10,588,941	0.95	10,069,814
2013/14	48.0	30.0%	60.0	49.2%	10.0% *	7,966,983	796,698	7,170,285	0.95	6,801,291
2014/15	36.0	13.6%	48.0	30.0%	10.0% *	28,445,866	2,844,587	25,601,279	0.95	24,250,996
2015/16	24.0	2.7%	36.0	13.6%	10.0% *	14,340,748	1,434,075	12,906,673	0.94	12,147,304
2016/17	12.0	0.2%	24.0	2.7%	2.5% *	23,197,650	576,773	22,620,877	0.93	21,063,078
2017/18	0.0	0.0%	12.0	0.2%	0.2% *	24,871,000	61,684	24,809,316	0.92	22,717,489
Total						\$157,385,186	\$11,570,113	\$145,815,073		\$135,808,488

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

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

(7) to 2016/17 is from Exhibit OL-11. The amount for 2017/18 is from Exhibit OL-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit OL-2.

Projected Losses Paid December 1, 2018 to November 30, 2019

Claim Period (1)	Months of Development 11/30/18 (2)	Percent Losses Paid (3)	Months of Development 11/30/19 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/18 to 11/30/19 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/18 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/19 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/19 (9)X(10) (11)
to 1997/98	252.0	99.0%	264.0	99.3%	10.0% *	\$1,980,383	\$198,038	\$1,782,345	0.95	\$1,695,686
1998/99	240.0	98.5%	252.0	99.0%	10.0% *	0	0	0	0.95	0
1999/00	228.0	98.3%	240.0	98.5%	10.0% *	0	0	0	0.95	0
2000/01	216.0	98.0%	228.0	98.3%	10.0% *	103,429	10,343	93,086	0.94	87,445
2001/02	204.0	97.7%	216.0	98.0%	10.0% *	11,076	1,108	9,968	0.93	9,292
2002/03	192.0	97.4%	204.0	97.7%	10.0% *	0	0	0	0.92	0
2003/04	180.0	97.2%	192.0	97.4%	10.0% *	9,313	931	8,382	0.92	7,685
2004/05	168.0	96.7%	180.0	97.2%	10.0% *	12,476,756	1,247,676	11,229,080	0.91	10,208,401
2005/06	156.0	96.2%	168.0	96.7%	10.0% *	317,435	31,744	285,691	0.91	258,965
2006/07	144.0	95.7%	156.0	96.2%	10.0% *	1,071,654	107,165	964,489	0.90	870,269
2007/08	132.0	94.8%	144.0	95.7%	10.0% *	5,830,505	583,051	5,247,454	0.90	4,708,122
2008/09	120.0	93.4%	132.0	94.8%	10.0% *	1,932,488	193,249	1,739,239	0.90	1,566,054
2009/10	108.0	90.6%	120.0	93.4%	10.0% *	1,309,169	130,917	1,178,252	0.91	1,067,749
2010/11	96.0	84.7%	108.0	90.6%	10.0% *	13,150,480	1,315,048	11,835,432	0.92	10,873,984
2011/12	84.0	78.4%	96.0	84.7%	10.0% *	3,925,014	392,501	3,532,513	0.94	3,306,999
2012/13	72.0	62.8%	84.0	78.4%	10.0% *	10,588,941	1,058,894	9,530,047	0.94	8,954,805
2013/14	60.0	49.2%	72.0	62.8%	10.0% *	7,170,285	717,029	6,453,256	0.95	6,136,882
2014/15	48.0	30.0%	60.0	49.2%	10.0% *	25,601,279	2,560,128	23,041,151	0.95	21,855,416
2015/16	36.0	13.6%	48.0	30.0%	10.0% *	12,906,673	1,290,667	11,616,006	0.95	11,003,345
2016/17	24.0	2.7%	36.0	13.6%	10.0% *	22,620,877	2,262,088	20,358,789	0.94	19,160,972
2017/18	12.0	0.2%	24.0	2.7%	2.5% *	24,809,316	616,845	24,192,471	0.93	22,526,444
2018/19	0.0	0.0%	12.0	0.2%	0.2% *	25,866,000	64,152	25,801,848	0.92	23,626,334
Total						\$171,681,073	\$12,781,574	\$158,899,499		\$147,924,849

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

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

(7) to 2017/18 is from Exhibit OL-12, (9). The amount for 2018/19 is from Exhibit OL-10.

(10) is based on a 1.9% interest rate and the payout pattern in Exhibit OL-2.

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

Claim Period (1)	Months of Development 11/30/19 (2)	Percent Losses Paid (3)	Months of Development 11/30/20 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/19 to 11/30/20 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/19 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/20 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/20 (9)X(10) (11)
to 1997/98	264.0	99.3%	276.0	99.5%	10.0% *	\$1,782,345	\$178,235	\$1,604,110	0.95	\$1,527,614
1998/99	252.0	99.0%	264.0	99.3%	10.0% *	0	0	0	0.95	0
1999/00	240.0	98.5%	252.0	99.0%	10.0% *	0	0	0	0.95	0
2000/01	228.0	98.3%	240.0	98.5%	10.0% *	93,086	9,309	83,777	0.95	79,613
2001/02	216.0	98.0%	228.0	98.3%	10.0% *	9,968	997	8,971	0.94	8,427
2002/03	204.0	97.7%	216.0	98.0%	10.0% *	0	0	0	0.93	0
2003/04	192.0	97.4%	204.0	97.7%	10.0% *	8,382	838	7,544	0.92	6,975
2004/05	180.0	97.2%	192.0	97.4%	10.0% *	11,229,080	1,122,908	10,106,172	0.92	9,266,314
2005/06	168.0	96.7%	180.0	97.2%	10.0% *	285,691	28,569	257,122	0.91	233,751
2006/07	156.0	96.2%	168.0	96.7%	10.0% *	964,489	96,449	868,040	0.91	786,837
2007/08	144.0	95.7%	156.0	96.2%	10.0% *	5,247,454	524,745	4,722,709	0.90	4,261,352
2008/09	132.0	94.8%	144.0	95.7%	10.0% *	1,739,239	173,924	1,565,315	0.90	1,404,432
2009/10	120.0	93.4%	132.0	94.8%	10.0% *	1,178,252	117,825	1,060,427	0.90	954,835
2010/11	108.0	90.6%	120.0	93.4%	10.0% *	11,835,432	1,183,543	10,651,889	0.91	9,652,895
2011/12	96.0	84.7%	108.0	90.6%	10.0% *	3,532,513	353,251	3,179,262	0.92	2,920,996
2012/13	84.0	78.4%	96.0	84.7%	10.0% *	9,530,047	953,005	8,577,042	0.94	8,029,488
2013/14	72.0	62.8%	84.0	78.4%	10.0% *	6,453,256	645,326	5,807,930	0.94	5,457,358
2014/15	60.0	49.2%	72.0	62.8%	10.0% *	23,041,151	2,304,115	20,737,036	0.95	19,720,394
2015/16	48.0	30.0%	60.0	49.2%	10.0% *	11,616,006	1,161,601	10,454,405	0.95	9,916,404
2016/17	36.0	13.6%	48.0	30.0%	10.0% *	20,358,789	2,035,879	18,322,910	0.95	17,356,509
2017/18	24.0	2.7%	36.0	13.6%	10.0% *	24,192,471	2,419,247	21,773,224	0.94	20,492,188
2018/19	12.0	0.2%	24.0	2.7%	2.5% *	25,801,848	641,523	25,160,325	0.93	23,427,646
2019/20	0.0	0.0%	12.0	0.2%	0.2% *	26,900,000	66,717	26,833,283	0.92	24,570,803
Total						\$185,799,499	\$14,018,006	\$171,781,493		\$160,074,831

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

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

(7) to 2018/19 is from Exhibit OL-13, (9). The amount for 2019/20 is from Exhibit OL-10.

(10) is based on a 1.9% 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 11/30/17 (5)	Unlimited Case Reserves 11/30/17 (6)	Unlimited Reported Incurred Losses 11/30/17 (7)
97001740	5/12/1978	to 1997/98	Unlimited	\$37,869,997	\$0	\$37,869,997
97001561	5/13/1978	to 1997/98	Unlimited	4,000,000	0	4,000,000
97002759	1/1/1989	to 1997/98	Unlimited	1,898,909	0	1,898,909
97002994	2/1/1992	to 1997/98	Unlimited	1,250,000	0	1,250,000
201704089	6/9/1993	to 1997/98	Unlimited	0	1,000,000	1,000,000
199304086	6/28/1993	to 1997/98	Unlimited	0	1,000,000	1,000,000
97003314	1/1/1994	to 1997/98	Unlimited	6,760,000	0	6,760,000
97001793	4/17/1995	to 1997/98	Unlimited	6,882,500	0	6,882,500
97002254	9/19/1995	to 1997/98	Unlimited	2,000,000	0	2,000,000
97003820	1/1/2001	2000/01	9,500,000	4,006,000	0	4,006,000
97006027	3/11/2001	2000/01	9,500,000	1,003,000	0	1,003,000
97004984	2/12/2002	2001/02	9,500,000	3,368,046	0	3,368,046
97004059	7/9/2002	2001/02	9,500,000	1,500,000	0	1,500,000
97004588	7/10/2002	2001/02	9,500,000	4,500,000	0	4,500,000
97005544	1/1/2003	2002/03	9,500,000	4,750,411	0	4,750,411
97005940	1/1/2004	2003/04	10,000,000	4,377,358	0	4,377,358
97005996	1/13/2004	2003/04	45,359,001	45,359,001 *	0	45,359,001 *
97005976	2/5/2004	2003/04	10,000,000	4,590,875	0	4,590,875
97005005	4/29/2004	2003/04	10,000,000	5,291,386	0	5,291,386
97006364	8/28/2004	2003/04	10,000,000	6,425,872	0	6,425,872
200503545	3/21/2005	2004/05	10,000,000	0	2,000,000	2,000,000
97006619	7/12/2005	2004/05	10,000,000	1,286,194	0	1,286,194
97006656	9/27/2005	2004/05	10,000,000	0	10,000,000 *	10,000,000 *
97007512	1/1/2006	2005/06	10,000,000	2,400,000	0	2,400,000
97007544	1/1/2007	2006/07	10,000,000	2,600,000	0	2,600,000
97006870	9/1/2007	2006/07	10,000,000	1,600,000	0	1,600,000
97007633	1/20/2008	2007/08	5,500,000	0	5,500,000 *	5,500,000 *
97007489	8/29/2008	2007/08	10,000,000	4,100,000	0	4,100,000
97009513	4/27/2010	2009/10	10,000,000	3,214,250	0	3,214,250
201103544	1/1/2011	2010/11	10,000,000	0	3,000,000	3,000,000
201602588	3/6/2011	2010/11	10,000,000	0	3,000,000	3,000,000
97009812 et al	11/16/2011	2010/11	10,000,000	5,625,000	20,250,000 *	25,875,000 *
201203771	1/1/2012	2011/12	10,000,000	0	1,500,000	1,500,000
97010532	4/3/2012	2011/12	10,000,000	550,000	925,000	1,475,000
97010892	9/1/2013	2012/13	6,000,000	0	6,000,000 *	6,000,000 *
97012505	10/12/2014	2013/14	15,000,000	4,750,000 *	0	4,750,000
201502263	6/9/2015	2014/15	15,000,000	0	15,000,000 *	15,000,000 *
201503551	11/14/2015	2014/15	15,000,000	0	4,000,000	4,000,000
201402462	4/12/2016	2015/16	15,000,000	0	1,000,000	1,000,000
201703028	5/2/2017	2016/17	15,000,000	3,250,000 *	0	3,250,000 *
201503341	5/12/2017	2016/17	5,000,000	0	5,000,000 *	5,000,000 *

Amounts are gross of excess insurance.

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

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

Size of Loss Distribution

I. Reported Claim Count

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	2,452	235	326	133	69	13	3,228		
0.01 - 5,000	906	127	207	161	121	68	1,590	1,590	48.3%
5,000 - 10,000	406	48	49	50	39	9	601	2,191	66.5%
10,000 - 25,000	279	35	28	29	23	8	402	2,593	78.7%
25,000 - 50,000	178	21	19	15	14	8	255	2,848	86.5%
50,000 - 100,000	142	19	12	18	10	3	204	3,052	92.7%
100,000 - 250,000	77	9	12	5	3	2	108	3,160	96.0%
250,000 - 500,000	56	5	3	2	0	1	67	3,227	98.0%
500,000 - 750,000	18	0	2	0	0	0	20	3,247	98.6%
750,000 - 1,000,000	7	0	0	0	1	0	8	3,255	98.8%
Over 1,000,000	32	1	1	2	0	2	38	3,293	100.0%
Total	4,553	500	659	415	280	114	6,521	3,293	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2012/13 (3)	2013/14 (4)	2014/15 (5)	2015/16 (6)	2016/17 (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	2,029,027	261,125	409,938	347,894	291,120	167,950	3,507,054	3,507,054	1.0%
5,000 - 10,000	3,444,440	394,540	401,048	443,550	357,000	75,000	5,115,578	8,622,632	2.4%
10,000 - 25,000	4,953,065	596,076	501,781	523,150	418,624	155,000	7,147,696	15,770,328	4.4%
25,000 - 50,000	6,922,283	792,500	732,500	610,700	557,352	320,000	9,935,335	25,705,663	7.2%
50,000 - 100,000	11,007,848	1,632,775	921,500	1,415,840	813,776	240,000	16,031,739	41,737,401	11.6%
100,000 - 250,000	14,169,538	1,757,500	2,235,000	925,000	600,000	400,000	20,087,038	61,824,439	17.3%
250,000 - 500,000	21,099,324	1,903,493	965,250	1,000,000	0	300,000	25,268,067	87,092,507	24.3%
500,000 - 750,000	11,260,618	0	1,200,000	0	0	0	12,460,618	99,553,125	27.8%
750,000 - 1,000,000	6,401,529	0	0	0	1,000,000	0	7,401,529	106,954,654	29.8%
Over 1,000,000	213,383,801	6,000,000	4,750,000	19,000,000	0	8,250,000	251,383,801	358,338,455	100.0%
Total	\$294,671,473	\$13,338,010	\$12,117,017	\$24,266,134	\$4,037,872	\$9,907,950	\$358,338,455	\$358,338,455	

Amounts are gross of excess insurance and other recoveries.

Data was provided by the County.