

## **Cook County, Illinois**

### **Actuarial Study of the Workers Compensation and Liability Self-Insured Programs as of November 30, 2016**

**May 4, 2017**

May 4, 2017

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, 2016**

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.

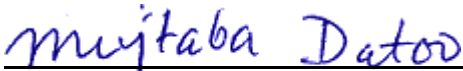
We, Tom Duffy and Mujtaba Dattoo, are members of the American Academy of Actuaries and meet the Academy's qualification standards to render this opinion. We performed this analysis using generally accepted actuarial principles and all relevant Actuarial Standards of Practice.


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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## 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**

Loss data valued as of November 30, 2016 was provided to us by the County. For workers compensation, the County provided loss runs containing cumulative paid and incurred amounts through November 30, 2016. For the medical malpractice and liability coverages, the County provided payments made during fiscal year 2015/16 and case reserve amounts as of November 30, 2016. Loss data was provided for claim periods beginning 1999/00 for auto and general liability, 1981/82 for other liability, 1975/76 for medical malpractice, and 1970/71 for workers compensation. Claims incurred prior to these claim periods are assumed to be closed and that there are no outstanding liabilities as of November 30, 2016.

The County implemented a new data system (Origami) for the workers compensation program during 2016. According to the County, there was some data clean up during this transition and amounts were shifted between indemnity and medical in order to

better align with claims handling best practices. The shift between indemnity and medical did not have a material impact on the overall results of the study. It should be noted, however, that the indemnity and medical amounts shown in this report are not directly comparable to those in the prior study.

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 2016/17 and medical malpractice exposures for years through 2016/17. 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 for 2017/18 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, 2016, November 30, 2017, and November 30, 2018.

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 2016/17, 2017/18, and 2018/19.

The projected ultimate limited losses are the accrual value of losses with accident dates during 2016/17, 2017/18, and 2018/19, 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 2016/17, 2017/18, and 2018/19 claim periods.

The projected losses paid are the claim disbursements during 2016/17, 2017/18, and 2018/19, 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, 2016 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, 2016**

Coverage (1)	Full Value			Present Value		
	Expected (2)	70% Level (3)	90% Level (4)	Expected (5)	70% Level (6)	90% Level (7)
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$12,787,508	\$14,577,759	\$18,541,887	\$12,184,088	\$13,889,860	\$17,666,928
(Aii) WC - Medical	<u>4,484,014</u>	<u>5,111,776</u>	<u>6,501,820</u>	<u>4,247,588</u>	<u>4,842,250</u>	<u>6,159,003</u>
<b>(A) Workers compensation</b>	<b>\$17,271,522</b>	<b>\$19,689,535</b>	<b>\$25,043,707</b>	<b>\$16,431,676</b>	<b>\$18,732,110</b>	<b>\$23,825,931</b>
(Bi) Cermak	2,837,000	3,319,290	4,482,460	2,690,975	3,148,441	4,251,741
(Bii) John H. Stroger	107,582,501	125,871,526	169,980,352	103,303,335	120,864,902	163,219,269
(Biii) Oak Forest	680,000	795,600	1,074,400	655,615	767,070	1,035,872
(Biv) Provident	10,625,000	12,431,250	16,787,500	10,123,932	11,845,000	15,995,813
(Bv) Unspecified	<u>245,000</u>	<u>286,650</u>	<u>387,100</u>	<u>233,361</u>	<u>273,032</u>	<u>368,710</u>
<b>(B) Medical malpractice</b>	<b>\$121,969,501</b>	<b>\$142,704,316</b>	<b>\$192,711,812</b>	<b>\$117,007,218</b>	<b>\$136,898,445</b>	<b>\$184,871,405</b>
(C) Claim expense	2,357,026	2,687,010	3,417,688	2,261,131	2,577,689	3,278,640
<b>(D) Subtotal</b>	<b>\$141,598,049</b>	<b>\$165,080,861</b>	<b>\$221,173,207</b>	<b>\$135,700,025</b>	<b>\$158,208,244</b>	<b>\$211,975,976</b>
<b>II. General Government</b>						
(Ei) WC - Indemnity	\$58,536,570	\$66,731,690	\$84,878,027	\$55,777,010	\$63,585,791	\$80,876,665
(Eii) WC - Medical	<u>23,119,472</u>	<u>26,356,198</u>	<u>33,523,234</u>	<u>22,046,989</u>	<u>25,133,567</u>	<u>31,968,134</u>
<b>(E) Workers compensation</b>	<b>\$81,656,042</b>	<b>\$93,087,888</b>	<b>\$118,401,261</b>	<b>\$77,823,999</b>	<b>\$88,719,358</b>	<b>\$112,844,799</b>
(F) General liability	1,497,489	1,707,137	2,171,359	1,468,328	1,673,894	2,129,076
(G) Automobile liability	6,117,545	6,974,001	8,870,440	6,001,242	6,841,416	8,701,801
(H) Other liability	108,506,061	126,952,091	171,439,576	104,752,792	122,560,767	165,509,411
(I) Claim expense	36,537,055	41,652,243	52,978,730	35,310,334	40,253,781	51,199,984
<b>(J) Subtotal</b>	<b>\$234,314,192</b>	<b>\$270,373,360</b>	<b>\$353,861,366</b>	<b>\$225,356,695</b>	<b>\$260,049,216</b>	<b>\$340,385,071</b>
<b>(K) Total (D) + (J)</b>	<b>\$375,912,241</b>	<b>\$435,454,221</b>	<b>\$575,034,573</b>	<b>\$361,056,720</b>	<b>\$418,257,460</b>	<b>\$552,361,047</b>

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



The present value of the estimated outstanding losses is the estimated outstanding losses discounted to reflect future investment earnings. It is based on a 1.31% interest rate, as provided by the County.

Undiscounted outstanding losses decreased from \$402.4 million as of November 30, 2015, to \$375.9 million as of November 30, 2016. 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, 2015 to November 30, 2016**  
**All Coverages Combined**  
**(Excluding Claim Expense Reserves)**

Year (1)	As of 11/30/15			As of 11/30/16			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	\$3,014	\$346	\$3,360	\$3,175	\$318	\$3,493	\$ 161	(\$ 28)	\$ 133
1997/98	163	34	197	140	26	166	- 23	- 8	- 31
1998/99	3,768	383	4,151	295	61	356	-3,473	- 322	-3,795
1999/00	254	56	310	27	11	38	- 227	- 45	- 272
2000/01	954	93	1,047	811	77	888	- 143	- 16	- 159
2001/02	1,241	202	1,443	965	201	1,166	- 276	- 1	- 277
2002/03	520	128	648	464	130	594	- 56	2	- 54
2003/04	2,253	597	2,850	1,370	337	1,707	- 883	- 260	-1,143
2004/05	12,489	3,058	15,547	12,439	2,573	15,012	- 50	- 485	- 535
2005/06	2,965	752	3,717	913	510	1,423	-2,052	- 242	-2,294
2006/07	1,605	543	2,148	957	450	1,407	- 648	- 93	- 741
2007/08	5,608	3,113	8,721	6,253	817	7,070	645	-2,296	-1,651
2008/09	6,189	3,544	9,733	2,665	2,028	4,693	-3,524	-1,516	-5,040
2009/10	28,315	5,899	34,214	3,792	2,642	6,434	-24,523	-3,257	-27,780
2010/11	26,542	8,238	34,780	19,258	3,482	22,740	-7,284	-4,756	-12,040
2011/12	26,396	13,563	39,959	20,136	9,221	29,357	-6,260	-4,342	-10,602
2012/13	50,577	20,763	71,340	50,346	17,162	67,508	- 231	-3,601	-3,832
2013/14	29,819	30,092	59,911	27,647	21,128	48,775	-2,172	-8,964	-11,136
2014/15	18,420	47,221	65,641	19,490	33,483	52,973	1,070	-13,738	-12,668
2015/16				20,178	51,041	71,219	20,178	51,041	71,219
Total	\$221,092	\$138,625	\$359,717	\$191,321	\$145,698	\$337,019	(\$29,771)	\$7,073	(\$22,698)

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, 2015 and November 30, 2016 is shown in Summary Exhibit 2. Detail by year and coverage is provided in Summary Exhibits 10 through 23.

Case reserves are down \$30 million from our prior analysis. \$27 million of this decrease is driven by several large claims for the Other Liability segment being revalued. Most of the remaining decrease is due to the closure of one large automobile liability claim. This claim had a \$6 million case reserve in the prior study and has since closed.

Estimated outstanding losses as of November 30, 2017, and November 30, 2018 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, 2016 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 down from \$383 million in last year's study to \$361 million in this year's study. The decrease is driven by a substantial decrease in case reserves for the Other Liability and Automobile Liability segments.

## 2. Project Ultimate Limited Losses

We project ultimate limited losses for 2016/17 to be as shown in Table III-2. The projected ultimate limited losses are the accrual value of losses with accident dates during 2016/17 regardless of report or payment date.

**Table III-2  
Projected Ultimate Losses  
2016/17**

Coverage (1)	Full Value			Present Value		
	Expected (2)	70% Level (3)	90% Level (4)	Expected (5)	70% Level (6)	90% Level (7)
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$2,960,000	\$3,463,200	\$4,676,800	\$2,810,000	\$3,287,700	\$4,439,800
(Aii) WC - Medical	<u>1,290,000</u>	<u>1,509,300</u>	<u>2,038,200</u>	<u>1,240,000</u>	<u>1,450,800</u>	<u>1,959,200</u>
<b>(A) Workers compensation</b>	<b>\$4,250,000</b>	<b>\$4,972,500</b>	<b>\$6,715,000</b>	<b>\$4,050,000</b>	<b>\$4,738,500</b>	<b>\$6,399,000</b>
(Bi) Cermak	860,000	1,032,000	1,513,600	800,000	960,000	1,408,000
(Bii) John H. Stroger	19,710,000	23,652,000	34,689,600	18,180,000	21,816,000	31,996,800
(Biii) Oak Forest	10,000	12,000	17,600	5,000	6,000	8,800
(Biv) Provident	1,190,000	1,428,000	2,094,400	1,100,000	1,320,000	1,936,000
(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>(B) Medical malpractice</b>	<b>\$21,790,000</b>	<b>\$26,148,000</b>	<b>\$38,350,400</b>	<b>\$20,105,000</b>	<b>\$24,126,000</b>	<b>\$35,384,800</b>
<b>(C) Subtotal</b>	<b>\$26,040,000</b>	<b>\$31,120,500</b>	<b>\$45,065,400</b>	<b>\$24,155,000</b>	<b>\$28,864,500</b>	<b>\$41,783,800</b>
<b>II. General Government</b>						
(Di) WC - Indemnity	\$18,300,000	\$21,411,000	\$28,914,000	\$17,380,000	\$20,334,600	\$27,460,400
(Dii) WC - Medical	<u>8,930,000</u>	<u>10,448,100</u>	<u>14,109,400</u>	<u>8,590,000</u>	<u>10,050,300</u>	<u>13,572,200</u>
<b>(D) Workers compensation</b>	<b>\$27,230,000</b>	<b>\$31,859,100</b>	<b>\$43,023,400</b>	<b>\$25,970,000</b>	<b>\$30,384,900</b>	<b>\$41,032,600</b>
(E) General liability	450,000	526,500	711,000	430,000	503,100	679,400
(F) Automobile liability	1,740,000	2,035,800	2,749,200	1,690,000	1,977,300	2,670,200
(G) Other liability	18,630,000	22,356,000	32,788,800	17,390,000	20,868,000	30,606,400
<b>(H) Subtotal</b>	<b>\$48,050,000</b>	<b>\$56,777,400</b>	<b>\$79,272,400</b>	<b>\$45,480,000</b>	<b>\$53,733,300</b>	<b>\$74,988,600</b>
<b>(I) Total (C) + (H)</b>	<b>\$74,090,000</b>	<b>\$87,897,900</b>	<b>\$124,337,800</b>	<b>\$69,635,000</b>	<b>\$82,597,800</b>	<b>\$116,772,400</b>

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

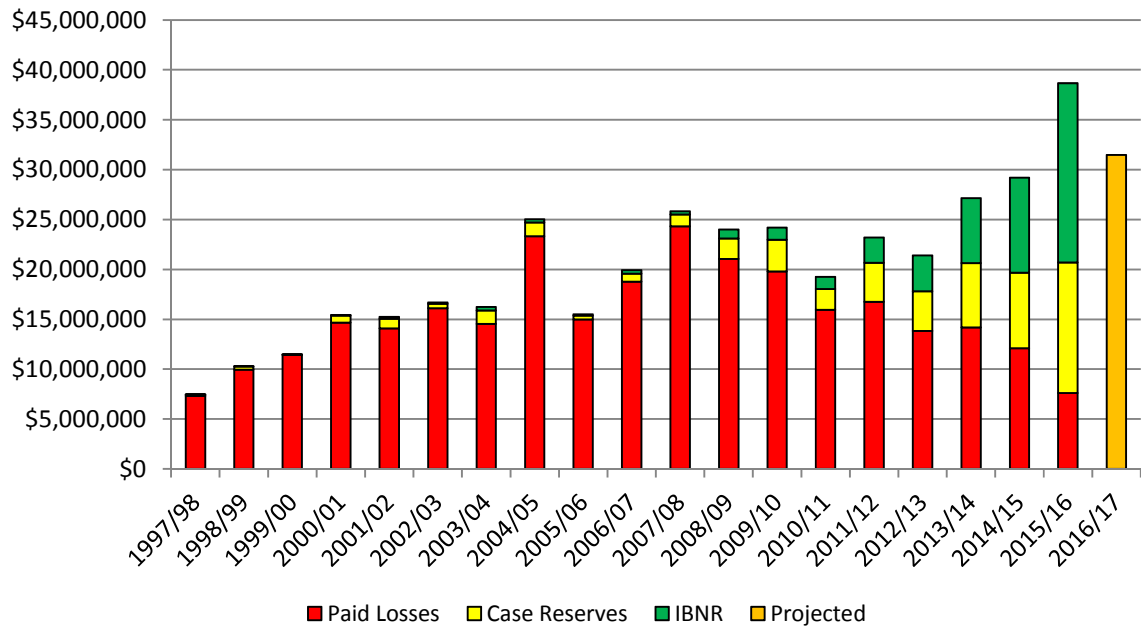
The present value of the estimated outstanding losses is the estimated outstanding losses discounted to reflect future investment earnings. It is based on a 1.31% interest rate, as provided by the County.

Projected ultimate losses for 2017/18 and 2018/19 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 2015/16 claim period). On this basis, our ultimate loss and ALAE estimates for all years through the 2015/16 claim period are down by approximately \$30 million, or -2.0%.

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

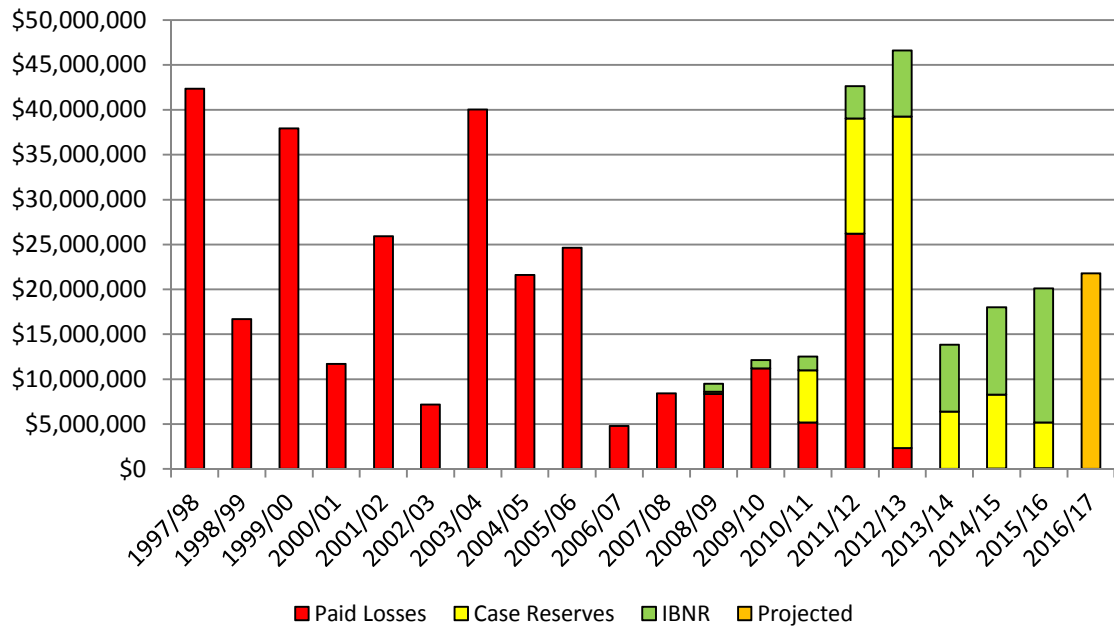
**Graph III-1**  
**Composition of Projected Ultimate Limited Losses**  
**(Workers Compensation)**



For years through 2014/15, the estimate of the ultimate workers compensation losses has decreased by -0.4% from the prior report.

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

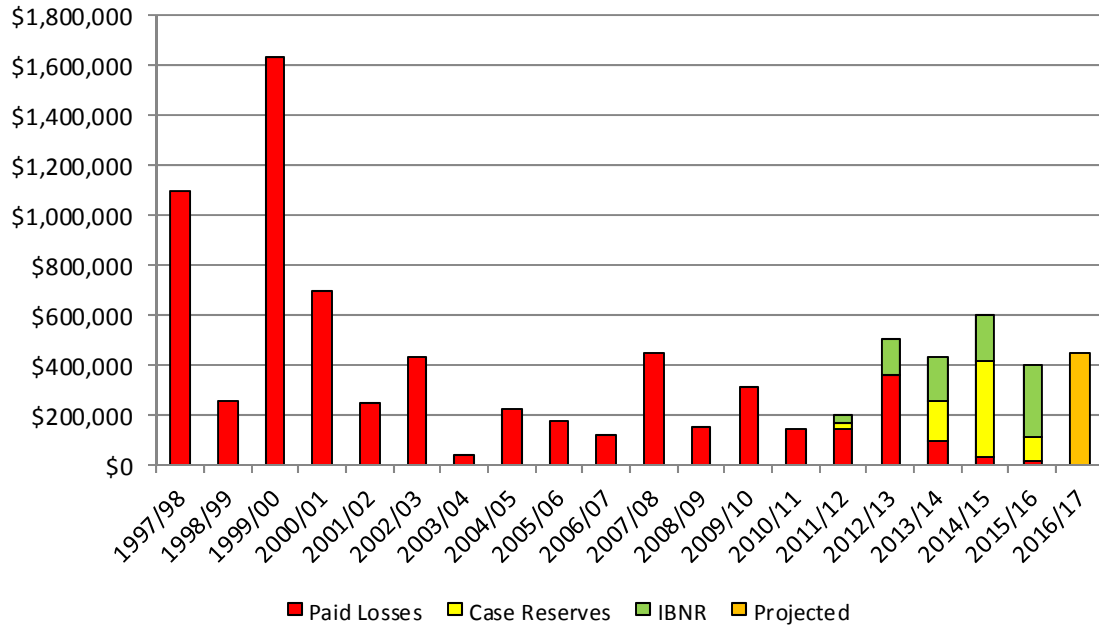
**Graph III-2**  
**Composition of Projected Ultimate Limited Losses**  
**(Medical Malpractice)**



For years through 2014/15, the estimate of the ultimate medical malpractice losses has decreased by -1.2% from the prior report. We note that there is one very large claim in 2011/12 and several large claims (over \$1 million each) in 2012/13.

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

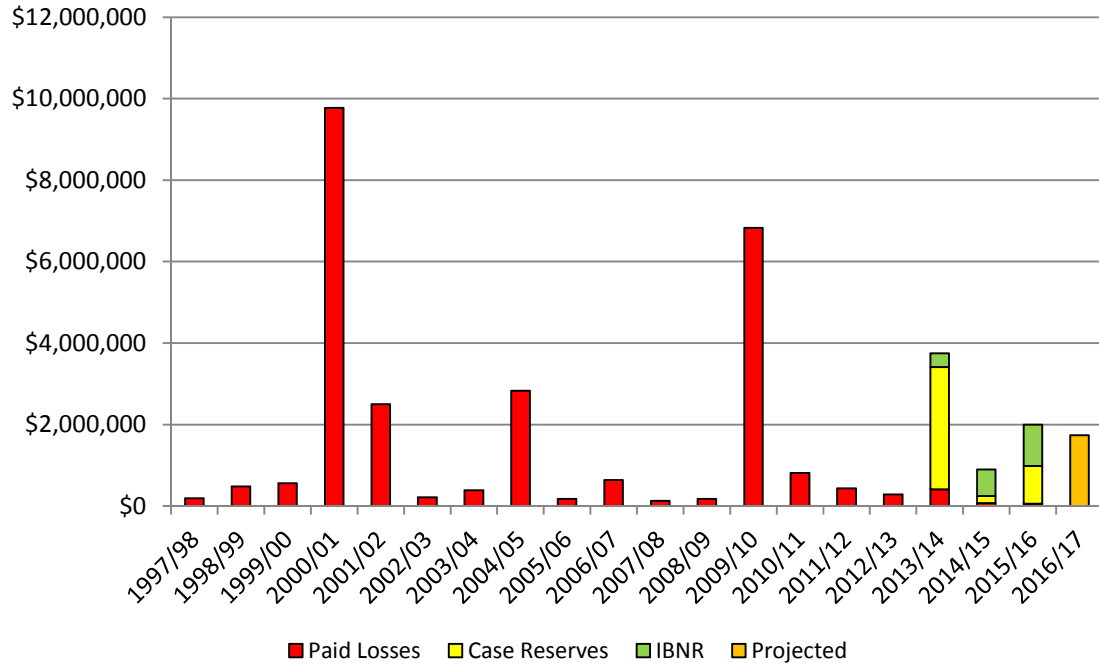
**Graph III-3**  
**Composition of Projected Ultimate Limited Losses**  
**(General Liability)**



For years through 2014/15, the estimate of the ultimate general liability losses has decreased by -2.0% from the prior report.

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

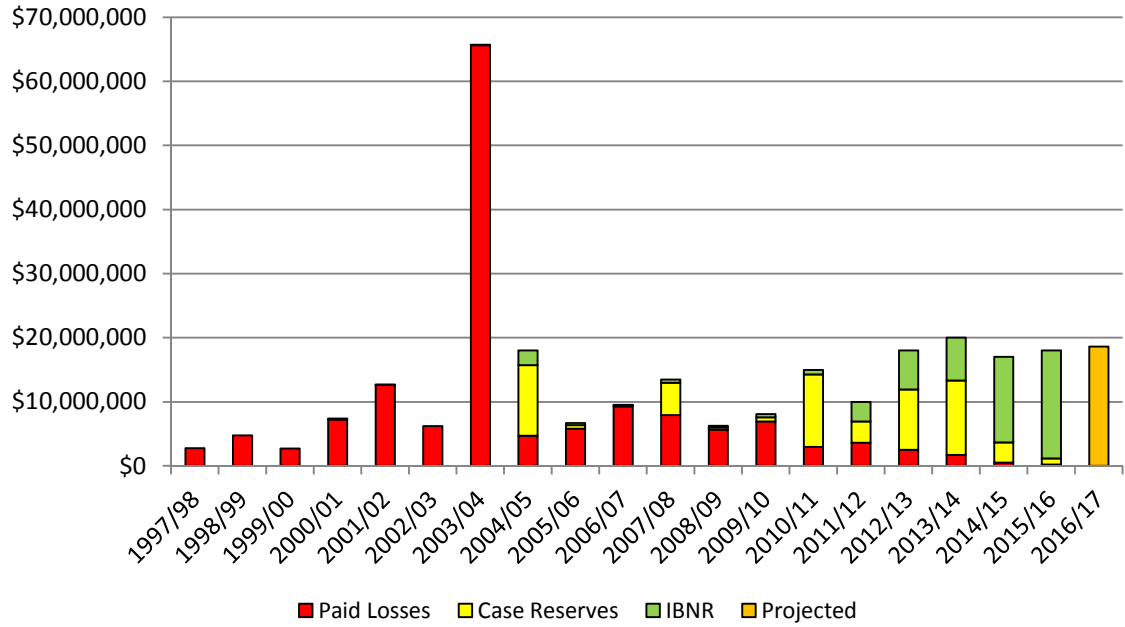
**Graph III-4**  
**Composition of Projected Ultimate Limited Losses**  
**(Automobile Liability)**



For years through 2014/15, the estimate of the ultimate automobile liability losses has increased by 2.5% from the prior report. We note that there is one large open claim in 2013/14.

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

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



For years through 2014/15, the estimate of the ultimate other liability losses has decreased by -9.9% from the prior report. This decrease was driven by several very large claims being revalued.



### 3. Project Losses Paid

We project losses paid during 2016/17 through 2018/19 to be as shown in Table III-3. The projected losses paid are the claim disbursements during 2016/17, 2017/18, and 2018/19, regardless of accident or report date.

**Table III-3  
Projected Losses Paid  
2016/17, 2017/18, and 2018/19**

Coverage (1)	2016/17 (2)	2017/18 (3)	2018/19 (4)
<b>I. Health Care Facilities</b>			
(Ai) WC - Indemnity	\$3,455,477	\$3,350,370	\$3,262,135
(Aii) WC - Medical	<u>1,889,048</u>	<u>1,544,969</u>	<u>1,445,527</u>
<b>(A) Workers compensation</b>	<b>\$5,344,525</b>	<b>\$4,895,339</b>	<b>\$4,707,662</b>
(Bi) Cermak	212,952	298,024	446,591
(Bii) John H. Stroger	18,072,539	21,472,345	17,695,194
(Biii) Oak Forest	138,219	141,166	131,021
(Biv) Provident	1,134,463	1,782,332	1,446,826
(Bv) Unspecified	<u>24,369</u>	<u>31,772</u>	<u>41,321</u>
<b>(B) Medical malpractice</b>	<b>\$19,582,542</b>	<b>\$23,725,639</b>	<b>\$19,760,953</b>
<b>(C) Subtotal (A) + (B)</b>	<b>\$24,927,067</b>	<b>\$28,620,978</b>	<b>\$24,468,615</b>
<b>II. General Government</b>			
(Di) WC - Indemnity	\$13,999,133	\$14,874,501	\$15,621,343
(Dii) WC - Medical	<u>10,132,542</u>	<u>9,324,061</u>	<u>9,372,707</u>
<b>(D) Workers compensation</b>	<b>\$24,131,675</b>	<b>\$24,198,562</b>	<b>\$24,994,050</b>
(E) General liability	620,412	564,009	507,099
(F) Automobile liability	3,153,835	2,205,337	2,179,884
(G) Other liability	9,559,327	10,408,869	11,251,436
<b>(H) Subtotal (D)+(E)+(F)+(G)</b>	<b>\$37,465,249</b>	<b>\$37,376,777</b>	<b>\$38,932,469</b>
<b>(I) Total (C) + (H)</b>	<b>\$62,392,316</b>	<b>\$65,997,755</b>	<b>\$63,401,084</b>

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 two 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, 2016. 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 11/30/16

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$12,787,508	\$14,577,759	\$18,541,887	\$12,184,088	\$13,889,860	\$17,666,928
(Aii) WC - Medical	4,484,014	5,111,776	6,501,820	4,247,588	4,842,250	6,159,003
(A) Workers compensation	\$17,271,522	\$19,689,535	\$25,043,707	\$16,431,676	\$18,732,111	\$23,825,930
(Bi) Cermak	2,837,000	3,319,290	4,482,460	2,690,975	3,148,441	4,251,741
(Bii) John H. Stroger	107,582,501	125,871,526	169,980,352	103,303,335	120,864,902	163,219,269
(Biii) Oak Forest	680,000	795,600	1,074,400	655,615	767,070	1,035,872
(Biv) Provident	10,625,000	12,431,250	16,787,500	10,123,932	11,845,000	15,995,813
(Bv) Unspecified	245,000	286,650	387,100	233,361	273,032	368,710
(B) Medical malpractice	\$121,969,501	\$142,704,316	\$192,711,812	\$117,007,218	\$136,898,445	\$184,871,404
(C) Claim Expense Reserves	2,357,026	2,687,010	3,417,688	2,261,131	2,577,690	3,278,640
(D) Subtotal	\$141,598,049	\$165,080,861	\$221,173,206	\$135,700,025	\$158,208,245	\$211,975,975
<b>II. General Government</b>						
(Ei) WC - Indemnity	58,536,570	66,731,690	84,878,027	55,777,010	63,585,791	80,876,665
(Eii) WC - Medical	23,119,472	26,356,198	33,523,234	22,046,989	25,133,567	31,968,134
(E) Workers compensation	\$81,656,042	\$93,087,888	\$118,401,261	\$77,823,999	\$88,719,359	\$112,844,799
(F) General liability	1,497,489	1,707,137	2,171,359	1,468,328	1,673,894	2,129,076
(G) Automobile liability	6,117,545	6,974,001	8,870,440	6,001,242	6,841,416	8,701,801
(H) Other liability	108,506,061	126,952,091	171,439,576	104,752,792	122,560,767	165,509,411
(I) Claim Expense Reserves	36,537,055	41,652,243	52,978,730	35,310,334	40,253,780	51,199,984
(J) Subtotal	\$234,314,192	\$270,373,361	\$353,861,366	\$225,356,695	\$260,049,216	\$340,385,070
<b>Total</b>	<b>\$375,912,241</b>	<b>\$435,454,222</b>	<b>\$575,034,573</b>	<b>\$361,056,720</b>	<b>\$418,257,461</b>	<b>\$552,361,045</b>

B. Estimated Outstanding Losses as of 11/30/17

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$12,292,031	\$14,012,915	\$17,823,445	\$11,713,177	\$13,353,022	\$16,984,107
(Aii) WC - Medical	3,884,966	4,428,861	5,633,201	3,658,651	4,170,862	5,305,044
(A) Workers compensation	\$16,176,997	\$18,441,777	\$23,456,646	\$15,371,828	\$17,523,884	\$22,289,151
(Bi) Cermak	3,484,048	4,076,336	5,504,796	3,315,690	3,879,357	5,238,790
(Bii) John H. Stroger	109,219,962	127,787,356	172,567,540	104,888,211	122,719,207	165,723,373
(Biii) Oak Forest	551,781	645,584	871,814	534,429	625,282	844,398
(Biv) Provident	10,680,537	12,496,228	16,875,248	10,226,932	11,965,510	16,158,553
(Bv) Unspecified	240,631	281,538	380,197	230,584	269,783	364,323
(B) Medical malpractice	\$124,176,959	\$145,287,042	\$196,199,595	\$119,195,846	\$139,459,140	\$188,329,437
(C) Claim Expense Reserves	2,399,685	2,735,640	3,479,543	2,302,054	2,624,342	3,337,979
(D) Subtotal	\$142,753,641	\$166,464,459	\$223,135,783	\$136,869,728	\$159,607,366	\$213,956,566
<b>II. General Government</b>						
(Ei) WC - Indemnity	62,837,437	71,634,678	91,114,284	59,890,652	68,275,343	86,841,445
(Eii) WC - Medical	21,916,930	24,985,300	31,779,549	20,841,130	23,758,888	30,219,639
(E) Workers compensation	\$84,754,367	\$96,619,978	\$122,893,832	\$80,731,782	\$92,034,231	\$117,061,084
(F) General liability	1,327,077	1,512,868	1,924,262	1,301,241	1,483,415	1,886,799
(G) Automobile liability	4,703,710	5,362,229	6,820,380	4,610,860	5,256,380	6,685,747
(H) Other liability	117,576,734	137,564,779	185,771,240	113,623,815	132,939,864	179,525,628
(I) Claim Expense Reserves	38,892,630	44,337,598	56,394,313	37,586,821	42,848,976	54,500,890
(J) Subtotal	\$247,254,518	\$285,397,453	\$373,804,027	\$237,854,519	\$274,562,866	\$359,660,148
<b>Total</b>	<b>\$390,008,159</b>	<b>\$451,861,912</b>	<b>\$596,939,810</b>	<b>\$374,724,247</b>	<b>\$434,170,232</b>	<b>\$573,616,714</b>

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

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$11,951,661	\$13,624,894	\$17,329,908	\$11,389,992	\$12,984,591	\$16,515,488
(Aii) WC - Medical	3,679,997	4,195,197	5,335,996	3,457,036	3,941,021	5,012,702
(A) Workers compensation	\$15,631,658	\$17,820,090	\$22,665,904	\$14,847,028	\$16,925,612	\$21,528,191
(Bi) Cermak	4,086,024	4,780,648	6,455,918	3,900,349	4,563,408	6,162,551
(Bii) John H. Stroger	108,247,617	126,649,712	171,031,235	103,810,228	121,457,967	164,020,160
(Biii) Oak Forest	420,615	492,120	664,572	408,689	478,166	645,729
(Biv) Provident	10,138,205	11,861,700	16,018,364	9,725,915	11,379,321	15,366,946
(Bv) Unspecified	228,859	267,765	361,597	220,317	257,771	348,101
(B) Medical malpractice	\$123,121,320	\$144,051,944	\$194,531,686	\$118,065,498	\$138,136,633	\$186,543,487
(C) Claim Expense Reserves	2,379,285	2,712,384	3,449,963	2,282,484	2,602,032	3,309,602
(D) Subtotal	\$141,132,263	\$164,584,419	\$220,647,552	\$135,195,010	\$157,664,277	\$211,381,280
<b>II. General Government</b>						
(Ei) WC - Indemnity	66,532,936	75,847,547	96,472,757	63,417,564	72,296,023	91,955,468
(Eii) WC - Medical	21,872,869	24,935,071	31,715,660	20,773,393	23,681,668	30,121,420
(E) Workers compensation	\$88,405,805	\$100,782,618	\$128,188,417	\$84,190,957	\$95,977,691	\$122,076,888
(F) General liability	1,233,068	1,405,698	1,787,949	1,208,211	1,377,361	1,751,906
(G) Automobile liability	4,308,373	4,911,545	6,247,141	4,225,566	4,817,145	6,127,071
(H) Other liability	126,537,865	148,049,302	199,929,827	122,431,156	143,244,453	193,441,226
(I) Claim Expense Reserves	41,558,244	47,376,399	60,259,455	40,162,938	45,785,749	58,236,260
(J) Subtotal	\$262,043,355	\$302,525,561	\$396,412,788	\$252,218,828	\$291,202,399	\$381,633,351
<b>Total</b>	<b>\$403,175,618</b>	<b>\$467,109,980</b>	<b>\$617,060,340</b>	<b>\$387,413,838</b>	<b>\$448,866,675</b>	<b>\$593,014,631</b>

Estimated Outstanding Losses

Footnotes:

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

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

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

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

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

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

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

Section I, C is from Summary Exhibit 7.

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

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

Section II, F is from Exhibit GL-11.

Section II, G is from Exhibit AL-11.

Section II, H is from Exhibit OL-11.

Section II, I is from Summary Exhibit 7.

Comparison of Estimated Outstanding Losses

	As of November 30, 2015			As of November 30, 2016			Change		
	Case Reserves	IBNR	Total	Case Reserves	IBNR	Total	Case Reserves	IBNR	Total
I. Health Care Facilities									
(Ai) WC - Indemnity	\$6,998,727	\$3,178,412	\$10,177,139	\$7,019,391	\$5,768,120	\$12,787,511	\$20,664	\$2,589,708	\$2,610,372
(Aii) WC - Medical	2,069,275	988,425	3,057,701	3,224,827	1,259,188	4,484,016	1,155,552	270,763	1,426,315
(A) Workers compensation	\$9,068,002	\$4,166,837	\$13,234,840	\$10,244,218	\$7,027,308	\$17,271,526	\$1,176,216	\$2,860,471	\$4,036,686
(Bi) Cermak	1,165,000	5,537,000	6,702,000	250,000	2,587,000	2,837,000	-915,000	-2,950,000	-3,865,000
(Bii) John H. Stroger	66,360,000	39,240,501	105,600,501	67,880,000	39,702,501	107,582,501	1,520,000	462,000	1,982,000
(Biii) Oak Forest	300,000	523,500	823,500	300,000	380,000	680,000	0	-143,500	-143,500
(Biv) Provident	6,350,000	2,860,000	9,210,000	7,100,000	3,525,000	10,625,000	750,000	665,000	1,415,000
(Bv) Unspecified	0	300,000	300,000	50,000	195,000	245,000	50,000	-105,000	-55,000
(B) Medical malpractice	\$74,175,000	\$48,461,001	\$122,636,001	\$75,580,000	\$46,389,501	\$121,969,501	\$1,405,000	-\$2,071,500	-\$666,500
(C) Claim Expense Reserves		2,352,584	2,352,584		2,357,026	2,357,026	0	4,442	4,442
(D) Subtotal	\$83,243,002	\$54,980,422	\$138,223,425	\$85,824,218	\$55,773,835	\$141,598,053	\$2,581,216	\$793,413	\$3,374,629
II. General Government									
(Ei) WC - Indemnity	29,596,767	26,753,785	56,350,551	28,370,918	30,165,654	58,536,572	-1,225,849	3,411,869	2,186,020
(Eii) WC - Medical	15,299,001	8,609,922	23,908,923	14,628,248	8,491,222	23,119,470	-670,753	-118,700	-789,453
(E) Workers compensation	\$44,895,768	\$35,363,706	\$80,259,474	\$42,999,166	\$38,656,876	\$81,656,041	-\$1,896,602	\$3,293,169	\$1,396,567
(F) General liability	591,250	864,529	1,455,779	675,700	821,790	1,497,490	84,450	-42,740	41,710
(G) Automobile liability	7,569,800	2,324,577	9,894,377	4,097,850	2,019,694	6,117,544	-3,471,950	-304,883	-3,776,833
(H) Other liability	84,792,000	47,445,765	132,237,765	57,528,850	50,977,212	108,506,062	-27,263,150	3,531,446	-23,731,704
(I) Claim Expense Reserves		40,301,230	40,301,230		36,537,055	36,537,055	0	-3,764,174	-3,764,174
(J) Subtotal	\$137,848,818	\$126,299,807	\$264,148,625	\$105,301,566	\$129,012,626	\$234,314,192	-\$32,547,252	\$2,712,819	-\$29,834,433
Total	\$221,091,820	\$181,280,230	\$402,372,050	\$191,125,784	\$184,786,461	\$375,912,245	-\$29,966,036	\$3,506,232	-\$26,459,804

Projected Ultimate Losses

A. 2016/17 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$2,960,000	\$3,463,200	\$4,676,800	\$2,810,000	\$3,287,700	\$4,439,800
(Aii) WC - Medical	1,290,000	1,509,300	2,038,200	1,240,000	1,450,800	1,959,200
(A) Workers compensation	\$4,250,000	\$4,972,500	\$6,715,000	\$4,050,000	\$4,738,500	\$6,399,000
(Bi) Cermak	860,000	1,032,000	1,513,600	800,000	960,000	1,408,000
(Bii) John H. Stroger	19,710,000	23,652,000	34,689,600	18,180,000	21,816,000	31,996,800
(Biii) Oak Forest	10,000	12,000	17,600	5,000	6,000	8,800
(Biv) Provident	1,190,000	1,428,000	2,094,400	1,100,000	1,320,000	1,936,000
(Bv) Unspecified	20,000	24,000	35,200	20,000	24,000	35,200
(B) Medical malpractice	\$21,790,000	\$26,148,000	\$38,350,400	\$20,105,000	\$24,126,000	\$35,384,800
(C) Subtotal	\$26,040,000	\$31,120,500	\$45,065,400	\$24,155,000	\$28,864,500	\$41,783,800
<b>II. General Government</b>						
(Di) WC - Indemnity	18,300,000	21,411,000	28,914,000	17,380,000	20,334,600	27,460,400
(Dii) WC - Medical	8,930,000	10,448,100	14,109,400	8,590,000	10,050,300	13,572,200
(D) Workers compensation	\$27,230,000	\$31,859,100	\$43,023,400	\$25,970,000	\$30,384,900	\$41,032,600
(E) General liability	450,000	526,500	711,000	430,000	503,100	679,400
(F) Automobile liability	1,740,000	2,035,800	2,749,200	1,690,000	1,977,300	2,670,200
(G) Other liability	18,630,000	22,356,000	32,788,800	17,390,000	20,868,000	30,606,400
(H) Subtotal	\$48,050,000	\$56,777,400	\$79,272,400	\$45,480,000	\$53,733,300	\$74,988,600
<b>Total</b>	<b>\$74,090,000</b>	<b>\$87,897,900</b>	<b>\$124,337,800</b>	<b>\$69,635,000</b>	<b>\$82,597,800</b>	<b>\$116,772,400</b>

B. 2017/18 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$3,010,000	\$3,521,700	\$4,755,800	\$2,860,000	\$3,346,200	\$4,518,800
(Aii) WC - Medical	1,340,000	1,567,800	2,117,200	1,290,000	1,509,300	2,038,200
(A) Workers compensation	\$4,350,000	\$5,089,500	\$6,873,000	\$4,150,000	\$4,855,500	\$6,557,000
(Bi) Cermak	900,000	1,080,000	1,584,000	830,000	996,000	1,460,800
(Bii) John H. Stroger	20,500,000	24,600,000	36,080,000	18,910,000	22,692,000	33,281,600
(Biii) Oak Forest	10,000	12,000	17,600	5,000	6,000	8,800
(Biv) Provident	1,240,000	1,488,000	2,182,400	1,150,000	1,380,000	2,024,000
(Bv) Unspecified	20,000	24,000	35,200	20,000	24,000	35,200
(B) Medical malpractice	\$22,670,000	\$27,204,000	\$39,899,200	\$20,915,000	\$25,098,000	\$36,810,400
(C) Subtotal	\$27,020,000	\$32,293,500	\$46,772,200	\$25,065,000	\$29,953,500	\$43,367,400
<b>II. General Government</b>						
(Di) WC - Indemnity	18,570,000	21,726,900	29,340,600	17,640,000	20,638,800	27,871,200
(Dii) WC - Medical	9,280,000	10,857,600	14,662,400	8,930,000	10,448,100	14,109,400
(D) Workers compensation	\$27,850,000	\$32,584,500	\$44,003,000	\$26,570,000	\$31,086,900	\$41,980,600
(E) General liability	470,000	549,900	742,600	450,000	526,500	711,000
(F) Automobile liability	1,810,000	2,117,700	2,859,800	1,750,000	2,047,500	2,765,000
(G) Other liability	19,370,000	23,244,000	34,091,200	18,080,000	21,696,000	31,820,800
(H) Subtotal	\$49,500,000	\$58,496,100	\$81,696,600	\$46,850,000	\$55,356,900	\$77,277,400
<b>Total</b>	<b>\$76,520,000</b>	<b>\$90,789,600</b>	<b>\$128,468,800</b>	<b>\$71,915,000</b>	<b>\$85,310,400</b>	<b>\$120,644,800</b>

C. 2018/19 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$3,050,000	\$3,568,500	\$4,819,000	\$2,900,000	\$3,393,000	\$4,582,000
(Aii) WC - Medical	1,390,000	1,626,300	2,196,200	1,340,000	1,567,800	2,117,200
(A) Workers compensation	\$4,440,000	\$5,194,800	\$7,015,200	\$4,240,000	\$4,960,800	\$6,699,200
(Bi) Cermak	930,000	1,116,000	1,636,800	860,000	1,032,000	1,513,600
(Bii) John H. Stroger	21,320,000	25,584,000	37,523,200	19,670,000	23,604,000	34,619,200
(Biii) Oak Forest	10,000	12,000	17,600	5,000	6,000	8,800
(Biv) Provident	1,290,000	1,548,000	2,270,400	1,190,000	1,428,000	2,094,400
(Bv) Unspecified	20,000	24,000	35,200	20,000	24,000	35,200
(B) Medical malpractice	\$23,570,000	\$28,284,000	\$41,483,200	\$21,745,000	\$26,094,000	\$38,271,200
(C) Subtotal	\$28,010,000	\$33,478,800	\$48,498,400	\$25,985,000	\$31,054,800	\$44,970,400
<b>II. General Government</b>						
(Di) WC - Indemnity	18,850,000	22,054,500	29,783,000	470,000	549,900	742,600
(Dii) WC - Medical	9,650,000	11,290,500	15,247,000	9,290,000	10,869,300	14,678,200
(D) Workers compensation	\$28,500,000	\$33,345,000	\$45,030,000	\$9,760,000	\$11,419,200	\$15,420,800
(E) General liability	490,000	573,300	774,200	470,000	549,900	742,600
(F) Automobile liability	1,870,000	2,187,900	2,954,600	1,810,000	2,117,700	2,859,800
(G) Other liability	20,150,000	24,180,000	35,464,000	18,800,000	22,560,000	33,088,000
(H) Subtotal	\$51,010,000	\$60,286,200	\$84,222,800	\$30,840,000	\$36,646,800	\$52,111,200
<b>Total</b>	<b>\$79,020,000</b>	<b>\$93,765,000</b>	<b>\$132,721,200</b>	<b>\$56,825,000</b>	<b>\$67,701,600</b>	<b>\$97,081,600</b>

Projected Ultimate Losses

Footnotes:

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

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

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

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

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

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

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

Section II, 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)
<b>1. 2015/16 Payments</b>				
General liability		\$138,290	\$42,915	\$95,375
Automobile liability		6,619,086	0	6,619,086
Other liability		10,478,442	2,099,650	8,378,792
Average		\$5,745,272	\$714,188	\$5,031,084
<b>2. 11/30/16 Case Reserves</b>				
General liability		\$675,700	\$145,500	\$530,200
Automobile liability		4,097,850	3,000,000	1,097,850
Other liability		57,528,850	13,362,100	44,166,750
Average		\$20,767,467	\$5,502,533	\$15,264,933
<b>3. Ratio to Total</b>				
		Payments	12.4%	87.6%
		Case Reserves	26.5%	73.5%
		Prior	12.5%	87.5%
		Selected	12.5%	87.5%
<b>4. Estimated Outstanding Losses</b>				
<b>Estimated Outstanding Losses as of 11/30/16</b>				
a. General Liability		\$1,497,489	\$187,186	\$1,310,303
b. Automobile Liability		6,117,545	764,693	5,352,852
c. Other Liability		108,506,061	13,563,258	94,942,803
<b>Estimated Outstanding Losses as of 11/30/17</b>				
a. General Liability		\$1,327,077	\$165,885	\$1,161,192
b. Automobile Liability		4,703,710	587,964	4,115,746
c. Other Liability		117,576,734	14,697,092	102,879,642
<b>Estimated Outstanding Losses as of 11/30/18</b>				
a. General Liability		\$1,233,068	\$154,134	\$1,078,935
b. Automobile Liability		4,308,373	538,547	3,769,826
c. Other Liability		126,537,865	15,817,233	110,720,632
<b>5. Projected Ultimate Losses</b>				
<b>2016/17</b>				
a. General Liability		\$450,000	\$56,250	\$393,750
b. Automobile Liability		1,740,000	217,500	1,522,500
c. Other Liability		18,630,000	2,328,750	16,301,250
<b>2017/18</b>				
a. General Liability		\$470,000	\$58,750	\$411,250
b. Automobile Liability		1,810,000	226,250	1,583,750
c. Other Liability		19,370,000	2,421,250	16,948,750
<b>2018/19</b>				
a. General Liability		\$490,000	\$61,250	\$428,750
b. Automobile Liability		1,870,000	233,750	1,636,250
c. Other Liability		20,150,000	2,518,750	17,631,250

Actual and Projected Paid Losses (\$Millions)

	Actual Limited Paid Losses 2012/13	Actual Limited Paid Losses 2013/14	Actual Limited Paid Losses 2014/15	Actual Limited Paid Losses 2015/16	Average Paid Losses 2012/13 to 2015/16	Projected Paid Losses 2016/17	Projected Paid Losses 2017/18	Projected Paid Losses 2018/19
<b>I. Health Care Facilities</b>								
(Ai) WC - Indemnity	\$1.65	\$2.41	\$2.41			\$3.46	\$3.35	\$3.26
(Aii) WC - Medical	0.78	1.06	1.37			1.89	1.54	1.45
(A) Workers compensation	\$2.42	\$3.48	\$3.78	\$4.09	\$3.44	\$5.34	\$4.90	\$4.71
(Bi) Cermak	1.00	0.05	1.00	0.28	0.46	0.21	0.30	0.45
(Bii) John H. Stroger	27.39	12.04	24.76	11.22	18.85	18.07	21.47	17.70
(Biii) Oak Forest	0.10	0.00	0.18	0.00	0.07	0.14	0.14	0.13
(Biv) Provident	0.80	0.00	0.37	1.89	0.76	1.13	1.78	1.45
(Bv) Unspecified	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.04
(B) Medical malpractice	\$29.29	\$12.08	\$26.30	\$13.38	\$20.15	\$19.58	\$23.73	\$19.76
(C) Subtotal	\$31.72	\$15.56	\$30.09	\$17.47	\$23.59	\$24.93	\$28.62	\$24.47
<b>II. General Government</b>								
(Di) WC - Indemnity	10.13	12.87	12.30			14.00	14.87	15.62
(Dii) WC - Medical	6.34	6.80	7.60			10.13	9.32	9.37
(D) Workers compensation	\$16.47	\$19.68	\$19.90	\$26.98	\$20.76	\$24.13	\$24.20	\$24.99
(E) General liability	1.43	0.21	0.22	0.14	0.50	0.62	0.56	0.51
(F) Automobile liability	0.24	1.15	1.02	6.62	2.26	3.15	2.21	2.18
(G) Other liability	8.25	7.96	5.51	10.48	8.05	9.56	10.41	11.25
(H) Subtotal	\$26.39	\$29.00	\$26.65	\$44.22	\$31.56	\$37.47	\$37.38	\$38.93
<b>Total</b>	<b>\$58.10</b>	<b>\$44.56</b>	<b>\$56.73</b>	<b>\$61.69</b>	<b>\$55.15</b>	<b>\$62.39</b>	<b>\$66.00</b>	<b>\$63.40</b>

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

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

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

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

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

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

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

Section II, 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 2012/13	Projected Ultimate Limited Losses 2013/14	Projected Ultimate Limited Losses 2014/15	Projected Ultimate Limited Losses 2015/16	Average Ultimate Limited Losses 2012/12 to 2015/16	Projected Ultimate Limited Losses 2016/17	Projected Ultimate Limited Losses 2017/18	Projected Ultimate Limited Losses 2018/19
<b>I. Health Care Facilities</b>								
(Ai) WC - Indemnity	\$2.90	\$3.15	\$2.50	\$3.50	\$3.01	\$2.96	\$3.01	\$3.05
(Aii) WC - Medical	1.01	0.95	0.85	2.15	1.24	1.29	1.34	1.39
(A) Workers compensation	\$3.91	\$4.10	\$3.35	\$5.65	\$4.25	\$4.25	\$4.35	\$4.44
(Bi) Cermak	0.25	0.25	1.00	1.00	0.63	0.86	0.90	0.93
(Bii) John H. Stroger	42.00	12.50	16.00	15.00	21.38	19.71	20.50	21.32
(Biii) Oak Forest	0.07	0.07	0.07	0.08	0.07	0.01	0.01	0.01
(Biv) Provident	4.25	1.00	0.85	4.00	2.53	1.19	1.24	1.29
(Bv) Unspecified	0.03	0.03	0.10	0.05	0.05	0.02	0.02	0.02
(B) Medical malpractice	\$46.59	\$13.85	\$18.02	\$20.13	\$24.65	\$21.79	\$22.67	\$23.57
(C) Subtotal	\$50.50	\$17.94	\$21.37	\$25.78	\$28.90	\$26.04	\$27.02	\$28.01
<b>II. General Government</b>								
(Di) WC - Indemnity	12.60	16.25	17.50	20.50	16.71	18.30	18.57	18.85
(Dii) WC - Medical	4.90	6.80	8.35	12.50	8.14	8.93	9.28	9.65
(D) Workers compensation	\$17.50	\$23.05	\$25.85	\$33.00	\$24.85	\$27.23	\$27.85	\$28.50
(E) General liability	0.50	0.43	0.60	0.40	0.48	0.45	0.47	0.49
(F) Automobile liability	0.28	3.75	0.90	2.00	1.73	1.74	1.81	1.87
(G) Other liability	18.00	20.00	17.00	18.00	18.25	18.63	19.37	20.15
(H) Subtotal	\$36.28	\$47.23	\$44.35	\$53.40	\$45.32	\$48.05	\$49.50	\$51.01
<b>Total</b>	<b>\$86.78</b>	<b>\$65.17</b>	<b>\$65.72</b>	<b>\$79.18</b>	<b>\$74.21</b>	<b>\$74.09</b>	<b>\$76.52</b>	<b>\$79.02</b>

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

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

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

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

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

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

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

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

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

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

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

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



Calculation of Claims-Related Expense Reserves

	Fiscal Year (1)	Medical Malpractice and Liability (2)	Medical Malpractice (3)	Liability (4)
1. Expense Payments				
	2000/01	\$2,388,809	\$238,881	\$2,149,928
	2001/02	2,400,000	240,000	2,160,000
	2002/03	3,300,699	330,070	2,970,629
	2003/04	5,625,222	562,522	5,062,700
	2004/05	5,813,337	581,334	5,232,004
	2005/06	5,333,045	533,305	4,799,741
	2006/07	7,372,403	737,240	6,635,162
	2007/08	9,439,841	943,984	8,495,856
	2008/09	10,508,333	1,050,833	9,457,500
	2009/10	10,557,734	1,055,773	9,501,961
	2010/11	8,848,598	884,860	7,963,739
	2011/12	7,002,846	700,285	6,302,562
	2012/13	9,003,473	900,347	8,103,126
	2013/14	8,317,476	831,748	7,485,728
	2014/15	6,732,840	384,101	6,348,739
	2015/16	5,722,540	345,259	5,377,281
	Average	\$6,772,950	\$645,034	\$6,127,916
2. Average FY 2001-2016 Loss Payments		\$36,418,485	\$22,818,128	\$13,600,357
3. Ratio of Expense Payments to Loss Payments (Section 1 / Section 2)		Actual	2.83%	45.06%
		Prior	2.75%	41.50%
		Selected	2.80%	43.00%
4. Case Reserves as of 11/30/16		\$137,882,400	\$75,580,000	\$62,302,400
5. IBNR Reserves as of 11/30/16		100,208,197	46,389,501	53,818,696
6. Estimated Undiscounted Expense Reserves as of 11/30/16		38,894,081	2,357,026	36,537,055
7. Discount Factor		0.966	0.959	0.966
8. Estimated Discounted Expense Reserves as of 11/30/16		37,571,465	2,261,131	35,310,334
9. Estimated Outstanding Losses as of 11/30/17		247,784,480	124,176,959	123,607,521
9a. Estimated Case Reserves as of 11/30/17		143,266,969	76,947,880	66,319,089
9b. Estimated IBNR Reserves as of 11/30/17		104,517,511	47,229,079	57,288,432
10. Estimated Undiscounted Expense Reserves as of 11/30/17		41,292,315	2,399,685	38,892,630
11. Estimated Discounted Expense Reserves as of 11/30/17		39,888,875	2,302,054	37,586,821
12. Estimated Outstanding Losses as of 11/30/18		255,200,626	123,121,320	132,079,306
12a. Estimated Case Reserves as of 11/30/18		147,158,191	76,293,740	70,864,452
12b. Estimated IBNR Reserves as of 11/30/18		108,042,435	46,827,580	61,214,854
13. Estimated Undiscounted Expense Reserves as of 11/30/18		43,937,529	2,379,285	41,558,244
14. Estimated Discounted Expense Reserves as of 11/30/18		42,445,422	2,282,484	40,162,938

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.



COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - ALL HOSPITALS COMBINED

Summary Exhibit 8

Estimated Outstanding Losses as of November 30, 2016

Claim Period (1)	Limited Paid Losses 11/30/16 (2)	Limited Case Reserves 11/30/16 (3)	Limited Reported Incurred Losses 11/30/16 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/16 (5)-(4) (6)	Estimated Outstanding Losses 11/30/16 (3) + (6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/16 (7) x (8) (9)
to 1996/97	\$221,089,826	\$0	\$221,089,826	\$221,089,826	\$0	\$0	1.00	\$0
1997/98	42,341,900	0	42,341,900	42,341,900	0	0	1.00	0
1998/99	16,675,000	0	16,675,000	16,675,000	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	25,910,540	0	25,910,540	25,910,540	0	0	1.00	0
2002/03	7,165,500	0	7,165,500	7,165,500	0	0	1.00	0
2003/04	40,021,000	0	40,021,000	40,021,000	0	0	1.00	0
2004/05	21,614,850	0	21,614,850	21,614,850	0	0	1.00	0
2005/06	24,649,320	0	24,649,320	24,649,320	0	0	0.99	0
2006/07	4,766,100	0	4,766,100	4,766,100	0	0	0.99	0
2007/08	8,427,000	0	8,427,000	8,427,000	0	0	0.98	0
2008/09	8,330,000	250,000	8,580,000	9,475,000	895,000	1,145,000	0.98	1,124,385
2009/10	11,202,500	0	11,202,500	12,110,000	907,500	907,500	0.98	888,017
2010/11	5,168,000	5,805,000	10,973,000	12,520,000	1,547,000	7,352,000	0.97	7,154,155
2011/12	26,194,999	12,850,000	39,044,999	42,625,000	3,580,001	16,430,001	0.97	15,995,230
2012/13	2,330,000	36,925,000	39,255,000	46,590,000	7,335,000	44,260,000	0.97	42,813,349
2013/14	0	6,400,000	6,400,000	13,845,000	7,445,000	13,845,000	0.96	13,267,011
2014/15	25,000	8,250,000	8,275,000	18,020,000	9,745,000	17,995,000	0.95	17,039,305
2015/16	90,000	5,100,000	5,190,000	20,125,000	14,935,000	20,035,000	0.93	18,725,766
<b>Total</b>	<b>\$515,632,535</b>	<b>\$75,580,000</b>	<b>\$591,212,535</b>	<b>\$637,602,036</b>	<b>\$46,389,501</b>	<b>\$121,969,501</b>		<b>\$117,007,218</b>

Summary of Loss Payments

Claim Period (1)	Workers Compensation (2)	Liability Common Claims (3)	Medical Malpractice (Excluding Large Claims) (4)	Liability Catastrophe Claims and Med Mal Claims (5)	Total (6)
<b>I. Actual Payments</b>					
1995/96	\$10,993,178	\$2,423,315	\$17,479,600	\$750,000	\$31,646,093
1996/97	8,868,321	3,072,412	6,189,500	0	18,130,233
1997/98	9,055,271	2,956,966	23,423,000	0	35,435,237
1998/99	9,294,766	3,339,344	19,898,900	15,772,220	48,305,230
1999/00	9,777,906	3,779,701	36,918,877	11,635,555	62,112,039
2000/01	10,377,014	3,842,381	30,313,000	17,894,722	62,427,117
2001/02	11,711,329	1,231,819	21,071,700	2,975,000	36,989,848
2002/03	11,743,398	2,184,184	28,420,541	5,200,000	47,548,123
2003/04	14,846,640	3,467,845	17,786,500	625,000	36,725,985
2004/05	16,136,301	2,754,958	13,779,500	17,750,000	50,420,759
2005/06	16,824,867	2,573,671	16,605,040	29,567,543	65,571,121
2006/07	16,278,694	7,784,841	24,334,820	16,760,000	65,158,355
2007/08	19,695,589	9,983,268	22,141,450	29,450,250	81,270,557
2008/09	24,349,162	8,530,865	16,469,000	0	49,349,027
2009/10	19,238,537	12,743,402	16,758,000	0	48,739,939
2010/11	21,648,616	6,855,702	18,765,000	44,634,001	91,903,319
2011/12	20,142,760	18,175,329	3,740,000	0	42,058,088
2012/13	18,890,070	9,919,330	9,292,499	20,000,000	58,101,899
2013/14	23,156,358	9,323,194	12,080,000	0	44,559,552
2014/15	23,678,804	6,752,584	14,303,000	12,000,000	56,734,388
2015/16	31,071,950	11,235,817	13,380,000	6,000,000	61,687,767
<b>II. Estimated Future Payments</b>					
2016/17	29,476,200	13,333,574	19,582,542		62,392,316
2017/18	29,093,901	13,178,215	23,725,639		65,997,755
2018/19	29,701,712	13,938,419	19,760,953		63,401,084

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.

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 11/30/15 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Estimated Outstanding Losses 11/30/15 (6) - (9)	Estimated Outstanding Losses 11/30/16 (7) - (10)	Projected Ultimate Limited Losses 11/30/15 (6)	Projected Ultimate Limited Losses 11/30/16 (7)	Change in Ultimate (7) - (6) (8)	Percentage Change in Ultimate (7) / (6) - 1 (9)	Limited Paid Losses 11/30/15 (10)	Limited Paid Losses 11/30/16 (11)	Limited Case Reserves 11/30/15 (2) - (10) (12)	Limited Case Reserves 11/30/16 (3) - (11) (13)	Estimated IBNR 11/30/15 (4)-(12) (14)	Estimated IBNR 11/30/16 (5)-(13) (15)
<b>A. Health Care Facilities</b>														
(Ai) WC - Indemnity	\$75,259	\$83,470	\$10,177	\$12,788	\$80,717	\$89,238	\$8,521	10.6%	\$68,261	\$76,450	\$6,999	\$7,019	\$3,178	\$5,768
(Aii) WC - Medical	30,035	27,092	3,058	4,484	32,259	28,351	(3,907)	-12.1%	27,966	23,867	2,069	3,225	988	1,259
(Bi) Cermak	21,056	20,416	6,702	2,837	27,777	23,003	(4,774)	-17.2%	19,891	20,166	1,165	250	5,537	2,587
(Bii) John H. Stroger	450,943	463,683	105,601	107,583	508,103	503,386	(4,717)	-0.9%	384,583	395,803	66,360	67,880	39,241	39,703
(Biii) Oak Forest	27,300	27,300	824	680	27,855	27,680	(175)	-0.6%	27,000	27,000	300	300	524	380
(Biv) Provident	31,855	34,490	9,210	10,625	35,899	38,015	2,116	5.9%	25,505	27,390	6,350	7,100	2,860	3,525
(Bv) Unspecified	45,274	45,324	300	245	45,598	45,519	(79)	-0.2%	45,274	45,274	-	50	300	195
<b>B. General Government</b>														
(Ei) WC - Indemnity	216,156	251,618	56,351	58,537	258,227	281,784	23,557	9.1%	186,559	223,247	29,597	28,371	26,754	30,166
(Eii) WC - Medical	129,547	119,169	23,909	23,119	148,249	127,661	(20,588)	-13.9%	114,248	104,541	15,299	14,628	8,610	8,491
(F) General liability	10,242	10,465	1,456	1,497	11,508	11,286	(222)	-1.9%	9,651	9,789	591	676	865	822
(G) Automobile liability	31,806	34,953	9,894	6,118	35,693	36,973	1,279	3.6%	24,236	30,855	7,570	4,098	2,325	2,020
(H) Other liability	269,461	252,676	132,238	108,506	335,180	303,653	(31,527)	-9.4%	184,669	195,147	84,792	57,529	47,446	50,977
<b>Total</b>	<b>\$1,338,933</b>	<b>\$1,370,655</b>	<b>\$359,718</b>	<b>\$337,018</b>	<b>\$1,547,064</b>	<b>\$1,516,548</b>	<b>(\$30,516)</b>	<b>-2.0%</b>	<b>\$1,117,842</b>	<b>\$1,179,529</b>	<b>\$221,092</b>	<b>\$191,126</b>	<b>\$138,626</b>	<b>\$145,892</b>

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Estimated Outstanding Losses 11/30/15 (6) - (9)	Estimated Outstanding Losses 11/30/16 (7) - (10)	Projected Ultimate Limited Losses 11/30/15 (6)	Projected Ultimate Limited Losses 11/30/16 (7)	Change in Ultimate (7) - (6) (8)	Percentage Change in Ultimate (7) / (6) - 1 (9)	Limited Paid Losses 11/30/15 (10)	Limited Paid Losses 11/30/16 (11)	Limited Case Reserves 11/30/15 (2) - (10)	Limited Case Reserves 11/30/16 (3) - (11)	Estimated IBNR 11/30/15 (4)-(12)	Estimated IBNR 11/30/16 (5)-(13)
to 1996/97	\$409,621	\$410,240	\$3,360	\$3,493	\$409,967	\$410,558	\$591	0.1%	\$406,606	\$407,065	\$3,014	\$3,175	\$346	\$318
1997/98	53,765	53,850	197	166	53,799	53,877	78	0.1%	53,602	53,711	163	140	34	26
1998/99	30,176	32,419	4,151	355	30,558	32,480	1,921	6.3%	26,408	32,124	3,768	295	383	61
1999/00	54,513	54,286	311	38	54,570	54,297	(272)	-0.5%	54,259	54,259	254	27	56	11
2000/01	44,909	44,906	1,047	887	45,002	44,983	(19)	0.0%	43,955	44,095	954	811	93	77
2001/02	56,387	56,320	1,443	1,166	56,589	56,521	(68)	-0.1%	55,146	55,355	1,241	965	202	201
2002/03	30,544	30,564	647	594	30,672	30,694	22	0.1%	30,024	30,100	520	464	128	130
2003/04	122,640	121,957	2,850	1,707	123,237	122,294	(944)	-0.8%	120,387	120,587	2,253	1,370	597	337
2004/05	64,949	65,112	15,548	15,012	68,007	67,685	(323)	-0.5%	52,459	52,673	12,489	12,439	3,058	2,573
2005/06	48,076	46,685	3,717	1,422	48,828	47,194	(1,634)	-3.3%	45,111	45,772	2,965	913	752	510
2006/07	34,309	34,533	2,148	1,408	34,852	34,983	131	0.4%	32,704	33,575	1,605	957	543	450
2007/08	44,677	47,516	8,721	7,069	47,790	48,332	542	1.1%	39,069	41,263	5,608	6,253	3,113	817
2008/09	36,844	38,024	9,733	4,693	40,389	40,052	(337)	-0.8%	30,655	35,359	6,189	2,665	3,544	2,028
2009/10	61,910	48,899	34,214	6,434	67,809	51,541	(16,268)	-24.0%	33,595	45,107	28,315	3,792	5,899	2,642
2010/11	49,251	44,256	34,780	22,740	57,489	47,737	(9,752)	-17.0%	22,709	24,997	26,542	19,258	8,238	3,482
2011/12	67,997	67,076	39,959	29,357	81,560	76,472	(5,088)	-6.2%	41,601	47,115	26,396	19,961	13,563	9,396
2012/13	64,401	69,600	71,340	67,508	85,164	86,782	1,618	1.9%	13,824	19,274	50,577	50,326	20,763	17,182
2013/14	40,745	44,042	59,911	48,775	70,837	65,170	(5,667)	-8.0%	10,926	16,395	29,819	27,647	30,092	21,128
2014/15	23,219	32,237	65,641	52,973	70,440	65,720	(4,720)	-6.7%	4,799	12,747	18,420	19,490	47,221	33,483
2015/16		28,134		71,219	69,504	79,175	9,671	13.9%		7,956		20,178		51,041
<b>Total</b>	<b>\$1,338,933</b>	<b>\$1,370,655</b>	<b>\$359,718</b>	<b>\$337,018</b>	<b>\$1,547,064</b>	<b>\$1,516,548</b>	<b>(\$30,516)</b>	<b>-2.0%</b>	<b>\$1,117,842</b>	<b>\$1,179,529</b>	<b>\$221,092</b>	<b>\$191,126</b>	<b>\$138,626</b>	<b>\$145,892</b>
Total (ex FY16)	\$1,338,933	\$1,342,522	\$359,718	\$265,799	\$1,477,560	\$1,437,373	(\$40,187)	-2.7%	\$1,117,842	\$1,171,574	\$221,092	\$170,948	\$138,626	\$94,851

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Estimated Outstanding Losses 11/30/15 (6) - (9) (4)	Estimated Outstanding Losses 11/30/16 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/15 (6)	Projected Ultimate Limited Losses 11/30/16 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/15 (9)	Limited Paid Losses 11/30/16 (10)	Limited Case Reserves 11/30/15 (2) - (9) (11)	Limited Case Reserves 11/30/16 (3) - (10) (12)	Estimated IBNR 11/30/15 (4)-(11) (13)	Estimated IBNR 11/30/16 (5)-(12) (14)
to 1996/97	\$41,935	\$45,014	\$1,497	\$1,655	\$42,071	\$45,164	\$3,093	\$40,574	\$43,509	\$1,361	\$1,504	\$136	\$150
1997/98	1,312	1,350	7	0	1,312	1,350	38	1,306	1,350	6	0	1	0
1998/99	2,631	2,783	256	311	2,659	2,840	181	2,403	2,529	228	254	28	57
1999/00	1,655	1,773	0	0	1,655	1,773	117	1,655	1,773	0	0	0	0
2000/01	1,438	1,536	42	0	1,444	1,536	92	1,402	1,536	37	0	6	0
2001/02	1,110	1,191	17	24	1,112	1,200	88	1,095	1,176	15	15	2	9
2002/03	2,858	3,020	134	130	2,880	3,060	180	2,746	2,930	112	89	22	40
2003/04	1,801	1,890	175	177	1,834	1,950	116	1,659	1,773	143	116	33	60
2004/05	2,868	3,134	940	966	3,000	3,300	300	2,060	2,334	808	800	132	166
2005/06	1,629	1,743	16	17	1,635	1,750	115	1,619	1,733	10	10	6	7
2006/07	2,087	2,107	210	33	2,130	2,120	(10)	1,920	2,087	168	20	43	13
2007/08	1,826	1,924	285	228	1,890	1,970	80	1,605	1,742	221	182	64	46
2008/09	1,802	2,045	405	200	1,900	2,120	220	1,495	1,920	307	125	98	75
2009/10	2,172	2,201	820	771	2,400	2,480	80	1,580	1,709	593	493	228	279
2010/11	1,788	1,957	719	556	2,000	2,150	150	1,281	1,594	507	363	212	193
2011/12	1,844	2,116	747	670	2,115	2,425	310	1,368	1,755	475	362	271	309
2012/13	1,979	2,336	1,246	1,189	2,425	2,900	475	1,179	1,711	800	625	446	564
2013/14	1,764	2,308	1,344	1,464	2,375	3,150	775	1,031	1,686	733	622	611	842
2014/15	760	1,419	1,317	1,619	1,600	2,500	900	283	881	477	538	840	1,081
2015/16		1,623		2,778	2,279	3,500	1,221		722		900		1,877
Total	\$75,259	\$83,470	\$10,177	\$12,788	\$80,717	\$89,238	\$8,521	\$68,261	\$76,450	\$6,999	\$7,019	\$3,178	\$5,768
Total (ex FY16)	\$75,259	\$81,847	\$10,177	\$10,010	\$78,438	\$85,738	\$7,300	\$68,261	\$75,728	\$6,999	\$6,119	\$3,178	\$3,891

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Estimated Outstanding Losses 11/30/15 (6) - (9)	Estimated Outstanding Losses 11/30/16 (7) - (10)	Projected Ultimate Limited Losses 11/30/15 (6)	Projected Ultimate Limited Losses 11/30/16 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/15 (9)	Limited Paid Losses 11/30/16 (10)	Limited Case Reserves 11/30/15 (2) - (9) (11)	Limited Case Reserves 11/30/16 (3) - (10) (12)	Estimated IBNR 11/30/15 (4)-(11) (13)	Estimated IBNR 11/30/16 (5)-(12) (14)
to 1996/97	\$13,337	\$10,747	\$430	\$480	\$13,376	\$10,790	(\$2,586)	\$12,946	\$10,310	\$391	\$436	\$39	\$44
1997/98	428	415	0	0	428	415	(13)	428	415	0	0	0	0
1998/99	761	678	45	45	765	682	(83)	720	637	40	41	4	4
1999/00	949	831	0	0	949	831	(117)	949	831	0	0	0	0
2000/01	835	711	0	0	835	711	(124)	835	711	0	0	0	0
2001/02	702	620	0	0	702	620	(82)	702	620	0	0	0	0
2002/03	1,076	919	21	22	1,078	921	(157)	1,057	899	19	20	2	2
2003/04	1,430	1,330	358	356	1,463	1,362	(101)	1,105	1,006	325	324	33	32
2004/05	1,443	1,272	8	25	1,444	1,274	(170)	1,436	1,250	7	23	1	2
2005/06	877	764	0	0	877	764	(114)	877	764	0	0	0	0
2006/07	1,033	925	0	0	1,033	925	(108)	1,033	925	0	0	0	0
2007/08	872	777	24	34	876	780	(96)	852	746	20	31	4	3
2008/09	799	711	27	36	805	720	(85)	778	684	22	27	6	9
2009/10	778	775	45	92	788	790	2	743	698	35	78	10	15
2010/11	787	763	67	118	801	780	(21)	734	662	53	101	14	17
2011/12	1,104	1,004	150	136	1,147	1,030	(117)	997	894	107	111	43	26
2012/13	977	969	228	236	1,039	1,010	(29)	811	774	167	195	62	41
2013/14	1,088	886	595	354	1,317	945	(372)	722	591	366	295	229	59
2014/15	758	615	1,060	539	1,300	850	(450)	240	311	518	304	542	235
2015/16		1,379		2,012	1,235	2,150	915		138		1,241		771
Total	\$30,035	\$27,092	\$3,058	\$4,484	\$32,259	\$28,351	(\$3,907)	\$27,966	\$23,867	\$2,069	\$3,225	\$988	\$1,259
Total (ex FY16)	\$30,035	\$25,713	\$3,058	\$2,472	\$31,024	\$26,201	(\$4,822)	\$27,966	\$23,729	\$2,069	\$1,984	\$988	\$488

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Estimated Outstanding Losses 11/30/15 (6) - (9)	Estimated Outstanding Losses 11/30/16 (7) - (10)	Projected Ultimate Limited Losses 11/30/15 (6)	Projected Ultimate Limited Losses 11/30/16 (7)	Change in Ultimate (7) - (6)	Limited Paid Losses 11/30/15 (9)	Limited Paid Losses 11/30/16 (10)	Limited Case Reserves 11/30/15 (2) - (9)	Limited Case Reserves 11/30/16 (3) - (10)	Estimated IBNR 11/30/15 (4)-(11)	Estimated IBNR 11/30/16 (5)-(12)
to 1996/97	\$8,259	\$8,259	\$0	\$0	\$8,259	\$8,259	\$0	\$8,259	\$8,259	\$0	\$0	\$0	\$0
1997/98	503	503	0	0	503	503	0	503	503	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	1,213	0	0	1,213	1,213	0	1,213	1,213	0	0	0	0
2002/03	22	22	0	0	22	22	0	22	22	0	0	0	0
2003/04	3,409	3,409	0	0	3,409	3,409	0	3,409	3,409	0	0	0	0
2004/05	18	18	0	0	18	18	0	18	18	0	0	0	0
2005/06	1,028	1,028	0	0	1,028	1,028	0	1,028	1,028	0	0	0	0
2006/07	16	16	0	0	16	16	0	16	16	0	0	0	0
2007/08	1,125	1,125	0	0	1,125	1,125	0	1,125	1,125	0	0	0	0
2008/09	0	0	0	0	0	0	0	0	0	0	0	0	0
2009/10	1,795	1,310	955	0	2,000	1,310	(690)	1,045	1,310	750	0	205	0
2010/11	3	3	497	97	500	100	(400)	3	3	0	0	497	97
2011/12	15	10	750	240	750	250	(500)	0	10	15	0	735	240
2012/13	400	0	1,250	250	1,250	250	(1,000)	0	0	400	0	850	250
2013/14	0	0	1,500	250	1,500	250	(1,250)	0	0	0	0	1,500	250
2014/15	0	200	1,750	1,000	1,750	1,000	(750)	0	0	0	200	1,750	800
2015/16		50		1,000	1,184	1,000	(184)		0		50		950
Total	\$21,056	\$20,416	\$6,702	\$2,837	\$27,777	\$23,003	(\$4,774)	\$19,891	\$20,166	\$1,165	\$250	\$5,537	\$2,587
Total (ex FY16)	\$21,056	\$20,366	\$6,702	\$1,837	\$26,593	\$22,003	(\$4,590)	\$19,891	\$20,166	\$1,165	\$200	\$5,537	\$1,637



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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Estimated Outstanding Losses 11/30/15 (6) - (9) (4)	Estimated Outstanding Losses 11/30/16 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/15 (6)	Projected Ultimate Limited Losses 11/30/16 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/15 (9)	Limited Paid Losses 11/30/16 (10)	Limited Case Reserves 11/30/15 (2) - (9) (11)	Limited Case Reserves 11/30/16 (3) - (10) (12)	Estimated IBNR 11/30/15 (4)-(11) (13)	Estimated IBNR 11/30/16 (5)-(12) (14)
to 1996/97	\$167,594	\$167,594	\$0	\$0	\$167,594	\$167,594	\$0	\$167,594	\$167,594	\$0	\$0	\$0	\$0
1997/98	30,084	30,084	0	0	30,084	30,084	0	30,084	30,084	0	0	0	0
1998/99	12,880	15,380	3,300	0	13,180	15,380	2,200	9,880	15,380	3,000	0	300	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	19,607	0	0	19,607	19,607	0	19,607	19,607	0	0	0	0
2005/06	22,575	22,575	0	0	22,575	22,575	0	22,575	22,575	0	0	0	0
2006/07	4,750	4,750	0	0	4,750	4,750	0	4,750	4,750	0	0	0	0
2007/08	7,002	7,002	498	0	7,500	7,002	(498)	7,002	7,002	0	0	498	0
2008/09	7,955	8,105	5,145	1,145	10,000	9,000	(1,000)	4,855	7,855	3,100	250	2,045	895
2009/10	9,793	9,093	2,408	908	11,000	10,000	(1,000)	8,593	9,093	1,200	0	1,208	908
2010/11	11,180	10,670	9,125	6,835	14,000	12,000	(2,000)	4,875	5,165	6,305	5,505	2,820	1,330
2011/12	37,325	36,970	17,475	15,630	41,500	40,000	(1,500)	24,025	24,370	13,300	12,600	4,175	3,030
2012/13	27,150	35,745	34,150	39,680	35,000	42,000	7,000	850	2,320	26,300	33,425	7,850	6,255
2013/14	6,405	5,800	15,500	12,500	15,500	12,500	(3,000)	0	0	6,405	5,800	9,095	6,700
2014/15	6,750	7,775	18,000	15,975	18,000	16,000	(2,000)	0	25	6,750	7,750	11,250	8,225
2015/16		2,640		14,910	17,919	15,000	(2,919)		90		2,550		12,360
Total	\$450,943	\$463,683	\$105,601	\$107,583	\$508,103	\$503,386	(\$4,717)	\$384,583	\$395,803	\$66,360	\$67,880	\$39,241	\$39,703
Total (ex FY16)	\$450,943	\$461,043	\$105,601	\$92,673	\$490,184	\$488,386	(\$1,798)	\$384,583	\$395,713	\$66,360	\$65,330	\$39,241	\$27,343

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Estimated Outstanding Losses 11/30/15 (6) - (9) (4)	Estimated Outstanding Losses 11/30/16 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/15 (6)	Projected Ultimate Limited Losses 11/30/16 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/15 (9)	Limited Paid Losses 11/30/16 (10)	Limited Case Reserves 11/30/15 (2) - (9) (11)	Limited Case Reserves 11/30/16 (3) - (10) (12)	Estimated IBNR 11/30/15 (4)-(11) (13)	Estimated IBNR 11/30/16 (5)-(12) (14)
to 1996/97	\$2,780	\$2,780	\$0	\$0	\$2,780	\$2,780	\$0	\$2,780	\$2,780	\$0	\$0	\$0	\$0
1997/98	0	0	0	0	0	0	0	0	0	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	225	175	59	0	234	175	(59)	175	175	50	0	9	0
2009/10	0	0	50	0	50	0	(50)	0	0	0	0	50	0
2010/11	250	300	300	300	300	300	0	0	0	250	300	50	0
2011/12	0	0	125	100	125	100	(25)	0	0	0	0	125	100
2012/13	0	0	100	65	100	65	(35)	0	0	0	0	100	65
2013/14	0	0	100	70	100	70	(30)	0	0	0	0	100	70
2014/15	0	0	90	70	90	70	(20)	0	0	0	0	90	70
2015/16	0	0	0	75	31	75	44	0	0	0	0	0	75
Total	\$27,300	\$27,300	\$824	\$680	\$27,855	\$27,680	(\$175)	\$27,000	\$27,000	\$300	\$300	\$524	\$380
Total (ex FY16)	\$27,300	\$27,300	\$824	\$605	\$27,824	\$27,605	(\$219)	\$27,000	\$27,000	\$300	\$300	\$524	\$305

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Estimated Outstanding Losses 11/30/15 (6) - (9) (4)	Estimated Outstanding Losses 11/30/16 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/15 (6)	Projected Ultimate Limited Losses 11/30/16 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/15 (9)	Limited Paid Losses 11/30/16 (10)	Limited Case Reserves 11/30/15 (2) - (9) (11)	Limited Case Reserves 11/30/16 (3) - (10) (12)	Estimated IBNR 11/30/15 (4)-(11) (13)	Estimated IBNR 11/30/16 (5)-(12) (14)
to 1996/97	\$7,235	\$7,235	\$0	\$0	\$7,235	\$7,235	\$0	\$7,235	\$7,235	\$0	\$0	\$0	\$0
1997/98	3,255	3,255	0	0	3,255	3,255	0	3,255	3,255	0	0	0	0
1998/99	1,245	1,245	0	0	1,245	1,245	0	1,245	1,245	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	2,000	425	2,200	0	2,200	425	(1,775)	0	425	2,000	0	200	0
2006/07	0	0	0	0	0	0	0	0	0	0	0	0	0
2007/08	300	300	25	0	325	300	(25)	300	300	0	0	25	0
2008/09	300	300	50	0	350	300	(50)	300	300	0	0	50	0
2009/10	800	800	100	0	900	800	(100)	800	800	0	0	100	0
2010/11	0	0	300	100	300	100	(200)	0	0	0	0	300	100
2011/12	2,115	2,065	2,135	435	2,500	2,250	(250)	365	1,815	1,750	250	385	185
2012/13	1,600	3,510	2,100	4,240	2,100	4,250	2,150	0	10	1,600	3,500	500	740
2013/14	750	600	1,300	1,000	1,300	1,000	(300)	0	0	750	600	550	400
2014/15	250	250	1,000	850	1,000	850	(150)	0	0	250	250	750	600
2015/16		2,500		4,000	1,184	4,000	2,816		0		2,500		1,500
Total	\$31,855	\$34,490	\$9,210	\$10,625	\$35,899	\$38,015	\$2,116	\$25,505	\$27,390	\$6,350	\$7,100	\$2,860	\$3,525
Total (ex FY16)	\$31,855	\$31,990	\$9,210	\$6,625	\$34,715	\$34,015	(\$700)	\$25,505	\$27,390	\$6,350	\$4,600	\$2,860	\$2,025

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Estimated Outstanding Losses 11/30/15 (6) - (9) (4)	Estimated Outstanding Losses 11/30/16 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/15 (6)	Projected Ultimate Limited Losses 11/30/16 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/15 (9)	Limited Paid Losses 11/30/16 (10)	Limited Case Reserves 11/30/15 (2) - (9) (11)	Limited Case Reserves 11/30/16 (3) - (10) (12)	Estimated IBNR 11/30/15 (4)-(11) (13)	Estimated IBNR 11/30/16 (5)-(12) (14)
to 1996/97	\$35,223	\$35,223	\$0	\$0	\$35,223	\$35,223	\$0	\$35,223	\$35,223	\$0	\$0	\$0	\$0
1997/98	8,500	8,500	0	0	8,500	8,500	0	8,500	8,500	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	1	0	0	1	1	0	1	1	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	25	20	25	20	(5)	0	0	0	0	25	20
2011/12	0	0	50	25	50	25	(25)	0	0	0	0	50	25
2012/13	0	0	50	25	50	25	(25)	0	0	0	0	50	25
2013/14	0	0	75	25	75	25	(50)	0	0	0	0	75	25
2014/15	0	50	100	100	100	100	0	0	0	0	50	100	50
2015/16	0	0	0	50	24	50	26	0	0	0	0	0	50
Total	\$45,274	\$45,324	\$300	\$245	\$45,598	\$45,519	(\$79)	\$45,274	\$45,274	\$0	\$50	\$300	\$195
Total (ex FY16)	\$45,274	\$45,324	\$300	\$195	\$45,574	\$45,469	(\$105)	\$45,274	\$45,274	\$0	\$50	\$300	\$145



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

Summary Exhibit 19

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Estimated Outstanding Losses 11/30/15 (6) - (9) (4)	Estimated Outstanding Losses 11/30/16 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/15 (6)	Projected Ultimate Limited Losses 11/30/16 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/15 (9)	Limited Paid Losses 11/30/16 (10)	Limited Case Reserves 11/30/15 (2) - (9) (11)	Limited Case Reserves 11/30/16 (3) - (10) (12)	Estimated IBNR 11/30/15 (4)-(11) (13)	Estimated IBNR 11/30/16 (5)-(12) (14)
to 1996/97	\$60,333	\$63,511	\$1,244	\$1,146	\$60,486	\$63,615	\$3,129	\$59,242	\$62,469	\$1,091	\$1,042	\$153	\$104
1997/98	3,844	3,999	178	138	3,876	4,020	144	3,698	3,882	146	117	32	21
1998/99	4,263	4,429	0	0	4,263	4,429	166	4,263	4,429	0	0	0	0
1999/00	6,125	6,241	239	34	6,175	6,250	75	5,936	6,216	189	25	50	9
2000/01	8,086	8,574	751	665	8,150	8,630	480	7,399	7,965	687	609	64	56
2001/02	8,752	9,098	1,411	1,097	8,950	9,280	330	7,539	8,183	1,213	915	198	182
2002/03	8,071	8,504	493	424	8,175	8,590	415	7,682	8,166	389	338	104	86
2003/04	8,502	8,831	1,344	1,060	8,750	9,060	310	7,406	8,000	1,095	831	248	229
2004/05	8,045	8,609	757	675	8,200	8,740	540	7,443	8,065	602	544	155	131
2005/06	8,374	8,795	432	417	8,535	8,920	385	8,103	8,503	271	292	161	125
2006/07	10,794	11,739	1,426	975	11,150	12,050	900	9,724	11,075	1,070	665	356	311
2007/08	11,696	16,602	1,599	910	12,000	16,800	4,800	10,401	15,890	1,295	711	304	198
2008/09	13,048	13,735	2,804	2,016	14,000	14,400	400	11,196	12,384	1,852	1,351	952	665
2009/10	12,760	13,215	4,016	2,744	13,750	14,000	250	9,734	11,256	3,026	1,959	990	785
2010/11	9,585	10,509	3,381	2,180	11,100	11,400	300	7,719	9,220	1,866	1,289	1,515	891
2011/12	11,328	12,770	6,840	4,837	14,000	14,750	750	7,160	9,913	4,168	2,856	2,672	1,980
2012/13	8,606	9,982	7,058	4,856	12,350	12,600	250	5,292	7,744	3,314	2,237	3,744	2,618
2013/14	8,444	11,564	10,142	8,419	14,500	16,250	1,750	4,358	7,831	4,086	3,732	6,056	4,686
2014/15	5,499	11,396	12,235	9,985	14,500	17,500	3,000	2,265	7,515	3,234	3,881	9,001	6,104
2015/16		9,516		15,960	15,317	20,500	5,183		4,540		4,976		10,984
Total	\$216,156	\$251,618	\$56,351	\$58,537	\$258,227	\$281,784	\$23,557	\$186,559	\$223,247	\$29,597	\$28,371	\$26,754	\$30,166
Total (ex FY16)	\$216,156	\$242,102	\$56,351	\$42,576	\$242,910	\$261,284	\$18,374	\$186,559	\$218,707	\$29,597	\$23,395	\$26,754	\$19,181

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Estimated Outstanding Losses 11/30/15 (6) - (9) (4)	Estimated Outstanding Losses 11/30/16 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/15 (6)	Projected Ultimate Limited Losses 11/30/16 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/15 (9)	Limited Paid Losses 11/30/16 (10)	Limited Case Reserves 11/30/15 (2) - (9) (11)	Limited Case Reserves 11/30/16 (3) - (10) (12)	Estimated IBNR 11/30/15 (4)-(11) (13)	Estimated IBNR 11/30/16 (5)-(12) (14)
to 1996/97	\$24,287	\$21,240	\$189	\$212	\$24,305	\$21,260	(\$3,045)	\$24,116	\$21,048	\$172	\$193	\$17	\$20
1997/98	1,790	1,694	12	28	1,791	1,700	(91)	1,780	1,672	11	23	1	6
1998/99	2,504	2,366	0	0	2,504	2,366	(138)	2,504	2,366	0	0	0	0
1999/00	2,951	2,607	72	5	2,957	2,610	(347)	2,886	2,605	65	2	7	3
2000/01	5,017	4,553	144	112	5,030	4,563	(467)	4,886	4,451	130	102	13	10
2001/02	4,547	4,134	4	31	4,547	4,140	(407)	4,543	4,109	4	26	0	6
2002/03	4,547	4,130	0	18	4,547	4,131	(416)	4,547	4,113	0	17	0	2
2003/04	4,352	3,846	222	108	4,384	3,860	(524)	4,162	3,752	190	94	32	14
2004/05	12,189	11,693	26	30	12,193	11,700	(493)	12,167	11,670	22	22	4	7
2005/06	4,402	4,055	108	86	4,422	4,070	(352)	4,314	3,984	88	71	20	15
2006/07	5,469	4,796	179	121	5,506	4,820	(686)	5,327	4,699	142	98	37	24
2007/08	10,662	6,216	321	338	10,739	6,280	(4,459)	10,418	5,942	244	274	77	64
2008/09	6,990	6,621	741	681	7,126	6,750	(376)	6,385	6,069	605	552	136	129
2009/10	7,192	6,775	874	767	7,396	6,910	(486)	6,522	6,143	670	633	204	135
2010/11	5,288	4,820	745	464	5,516	4,940	(576)	4,771	4,476	517	344	228	120
2011/12	5,846	4,792	1,425	829	6,223	5,010	(1,213)	4,798	4,181	1,048	611	377	218
2012/13	5,613	4,510	2,405	1,311	6,450	4,900	(1,550)	4,045	3,589	1,568	921	837	390
2013/14	7,672	5,891	5,744	2,723	10,020	6,800	(3,220)	4,276	4,077	3,396	1,814	2,348	909
2014/15	8,228	6,243	10,699	4,950	12,500	8,350	(4,150)	1,801	3,400	6,426	2,843	4,272	2,107
2015/16		8,185		10,305	10,092	12,500	2,408		2,195		5,990		4,315
Total	\$129,547	\$119,169	\$23,909	\$23,119	\$148,249	\$127,661	(\$20,588)	\$114,248	\$104,541	\$15,299	\$14,628	\$8,610	\$8,491
Total (ex FY16)	\$129,547	\$110,984	\$23,909	\$12,815	\$138,157	\$115,161	(\$22,996)	\$114,248	\$102,346	\$15,299	\$8,638	\$8,610	\$4,176

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Estimated Outstanding Losses 11/30/15 (6) - (9) (4)	Estimated Outstanding Losses 11/30/16 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/15 (6)	Projected Ultimate Limited Losses 11/30/16 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/15 (9)	Limited Paid Losses 11/30/16 (10)	Limited Case Reserves 11/30/15 (2) - (9) (11)	Limited Case Reserves 11/30/16 (3) - (10) (12)	Estimated IBNR 11/30/15 (4)-(11) (13)	Estimated IBNR 11/30/16 (5)-(12) (14)
to 1996/97	\$3,207	\$3,207	\$0	\$0	\$3,207	\$3,207	\$0	\$3,207	\$3,207	\$0	\$0	\$0	\$0
1997/98	1,096	1,096	0	0	1,096	1,096	0	1,096	1,096	0	0	0	0
1998/99	256	256	0	0	256	256	0	256	256	0	0	0	0
1999/00	1,636	1,636	0	0	1,636	1,636	0	1,636	1,636	0	0	0	0
2000/01	693	693	0	0	693	693	0	693	693	0	0	0	0
2001/02	243	243	0	0	243	243	0	243	243	0	0	0	0
2002/03	429	429	0	0	429	429	0	429	429	0	0	0	0
2003/04	35	35	0	0	35	35	0	35	35	0	0	0	0
2004/05	222	222	0	0	222	222	0	222	222	0	0	0	0
2005/06	170	170	0	0	170	170	0	170	170	0	0	0	0
2006/07	118	118	0	0	118	118	0	118	118	0	0	0	0
2007/08	447	447	0	0	447	447	0	447	447	0	0	0	0
2008/09	152	152	0	0	152	152	0	152	152	0	0	0	0
2009/10	313	313	0	0	313	313	0	313	313	0	0	0	0
2010/11	139	139	0	0	139	139	0	139	139	0	0	0	0
2011/12	395	170	360	60	450	200	(250)	90	140	305	30	55	30
2012/13	384	356	285	144	600	500	(100)	315	356	69	0	216	144
2013/14	223	258	420	332	500	430	(70)	80	98	143	160	277	172
2014/15	84	411	391	573	400	600	200	9	27	75	385	316	189
2015/16		113		388	402	400	(2)		12		101		287
Total	\$ 10,242	\$ 10,465	\$ 1,456	\$ 1,497	\$ 11,508	\$ 11,286	\$ (222)	\$ 9,651	\$ 9,789	\$ 591	\$ 676	\$ 865	\$ 822
Total (ex FY16)	\$ 10,242	\$ 10,352	\$ 1,456	\$ 1,109	\$ 11,106	\$ 10,886	\$ (220)	\$ 9,651	\$ 9,777	\$ 591	\$ 575	\$ 865	\$ 534

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Estimated Outstanding Losses 11/30/15 (6) - (9) (4)	Estimated Outstanding Losses 11/30/16 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/15 (6)	Projected Ultimate Limited Losses 11/30/16 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/15 (9)	Limited Paid Losses 11/30/16 (10)	Limited Case Reserves 11/30/15 (2) - (9) (11)	Limited Case Reserves 11/30/16 (3) - (10) (12)	Estimated IBNR 11/30/15 (4)-(11) (13)	Estimated IBNR 11/30/16 (5)-(12) (14)
to 1996/97	\$3,937	\$3,937	\$0	\$0	\$3,937	\$3,937	\$0	\$3,937	\$3,937	\$0	\$0	\$0	\$0
1997/98	188	188	0	0	188	188	0	188	188	0	0	0	0
1998/99	479	479	0	0	479	479	0	479	479	0	0	0	0
1999/00	559	559	0	0	559	559	0	559	559	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	385	0	0	385	385	0	385	385	0	0	0	0
2004/05	2,833	2,833	0	0	2,833	2,833	0	2,833	2,833	0	0	0	0
2005/06	171	171	0	0	171	171	0	171	171	0	0	0	0
2006/07	634	634	0	0	634	634	0	634	634	0	0	0	0
2007/08	128	128	0	0	128	128	0	128	128	0	0	0	0
2008/09	175	175	0	0	175	175	0	175	175	0	0	0	0
2009/10	6,848	6,828	6,172	0	7,000	6,828	(172)	828	6,828	6,020	0	152	0
2010/11	809	809	0	0	809	809	0	809	809	0	0	0	0
2011/12	462	432	498	0	700	432	(268)	202	432	260	0	238	0
2012/13	272	282	628	0	800	282	(518)	172	282	100	0	528	0
2013/14	1,306	3,408	1,432	3,344	1,650	3,750	2,100	218	406	1,088	3,002	344	342
2014/15	137	242	1,165	828	1,200	900	(300)	35	72	102	170	1,063	658
2015/16		980		1,946	1,563	2,000	437		54		926		1,020
Total	\$ 31,806	\$ 34,953	\$ 9,894	\$ 6,118	\$ 35,693	\$ 36,973	\$ 1,279	\$ 24,236	\$ 30,855	\$ 7,570	\$ 4,098	\$ 2,325	\$ 2,020
Total (ex FY16)	\$ 31,806	\$ 33,973	\$ 9,894	\$ 4,172	\$ 34,130	\$ 34,973	\$ 842	\$ 24,236	\$ 30,801	\$ 7,570	\$ 3,172	\$ 2,325	\$ 1,000



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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Estimated Outstanding Losses 11/30/15 (6) - (9) (4)	Estimated Outstanding Losses 11/30/16 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/15 (6)	Projected Ultimate Limited Losses 11/30/16 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/15 (9)	Limited Paid Losses 11/30/16 (10)	Limited Case Reserves 11/30/15 (2) - (9) (11)	Limited Case Reserves 11/30/16 (3) - (10) (12)	Estimated IBNR 11/30/15 (4)-(11) (13)	Estimated IBNR 11/30/16 (5)-(12) (14)
to 1996/97	\$ 41,495	\$ 41,495	\$ 0	\$ 0	\$ 41,495	\$ 41,495	\$ 0	\$ 41,495	\$41,495	\$ 0	\$ 0	\$ 0	\$ 0
1997/98	2,765	2,765	0	0	2,765	2,765	0	2,765	2,765	0	0	0	0
1998/99	5,106	4,752	550	0	5,156	4,752	(404)	4,606	4,752	500	0	50	0
1999/00	2,713	2,713	0	0	2,713	2,713	0	2,713	2,713	0	0	0	0
2000/01	7,363	7,363	110	110	7,373	7,373	0	7,263	7,263	100	100	10	10
2001/02	12,626	12,626	11	14	12,627	12,630	3	12,616	12,616	10	10	1	4
2002/03	6,184	6,184	0	0	6,184	6,184	0	6,184	6,184	0	0	0	0
2003/04	66,113	65,618	752	7	66,365	65,620	(745)	65,613	65,613	500	5	252	2
2004/05	15,733	15,733	13,817	13,317	18,500	18,000	(500)	4,683	4,683	11,050	11,050	2,767	2,267
2005/06	6,228	6,338	960	902	6,593	6,700	107	5,633	5,798	595	540	365	362
2006/07	9,407	9,447	333	278	9,515	9,550	35	9,182	9,272	225	175	108	103
2007/08	10,619	12,995	5,969	5,561	12,760	13,500	740	6,791	7,940	3,828	5,055	2,141	506
2008/09	5,397	6,006	503	614	5,647	6,260	613	5,144	5,646	253	360	250	254
2009/10	19,458	7,589	18,774	1,152	22,212	8,110	(14,102)	3,438	6,958	16,020	630	2,754	521
2010/11	19,422	14,285	19,621	12,071	22,000	15,000	(7,000)	2,379	2,929	17,044	11,356	2,578	715
2011/12	7,564	6,747	9,404	6,395	12,000	10,000	(2,000)	2,596	3,605	4,968	3,142	4,436	3,253
2012/13	17,420	11,910	21,839	15,512	23,000	18,000	(5,000)	1,161	2,488	16,259	9,422	5,580	6,090
2013/14	13,094	13,326	21,759	18,295	22,000	20,000	(2,000)	241	1,705	12,853	11,621	8,906	6,674
2014/15	753	3,635	17,835	16,484	18,000	17,000	(1,000)	165	516	588	3,119	17,247	13,365
2015/16		1,148		17,796	18,274	18,000	(274)		204	0	944		16,852
Total	\$ 269,461	\$ 252,676	\$ 132,238	\$ 108,506	\$ 335,180	\$ 303,653	\$ (31,527)	\$ 184,669	\$ 195,147	\$ 84,792	\$ 57,529	\$ 47,446	\$ 50,977
Total (ex FY16)	\$ 269,461	\$ 251,528	\$ 132,238	\$ 90,710	\$ 316,906	\$ 285,653	\$ (31,253)	\$ 184,669	\$ 194,943	\$ 84,792	\$ 56,585	\$ 47,446	\$ 34,125

Data Summary as of November 30, 2016  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Payroll (000) (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Limited Paid Losses 11/30/16 (8)	Limited Case Reserves 11/30/16 (9)	Limited Reported Incurred Losses 11/30/16 (10)
to 1996/97	See Note	None	240.0	Not Provided	4,783	15	\$43,509,375	\$1,504,237	\$45,013,613
1997/98	Unlimited	None	228.0	Not Provided	623	0	1,350,430	0	1,350,430
1998/99	Unlimited	None	216.0	Not Provided	747	2	2,529,139	254,103	2,783,242
1999/00	Unlimited	None	204.0	Not Provided	635	0	1,772,683	0	1,772,683
2000/01	9,500,000	None	192.0	425,788	625	0	1,535,829	0	1,535,829
2001/02	9,500,000	None	180.0	434,846	490	1	1,176,100	15,000	1,191,100
2002/03	9,500,000	None	168.0	441,142	514	3	2,930,313	89,406	3,019,719
2003/04	Unlimited	None	156.0	453,644	593	4	1,773,157	116,405	1,889,563
2004/05	Unlimited	None	144.0	458,776	518	2	2,334,103	800,209	3,134,312
2005/06	Unlimited	None	132.0	464,619	510	1	1,732,797	10,000	1,742,797
2006/07	Unlimited	None	120.0	448,051	318	4	2,086,766	20,000	2,106,766
2007/08	Unlimited	None	108.0	445,664	274	9	1,742,145	181,775	1,923,921
2008/09	Unlimited	None	96.0	501,624	280	8	1,919,584	125,033	2,044,617
2009/10	Unlimited	None	84.0	526,535	214	14	1,708,799	492,619	2,201,419
2010/11	Unlimited	None	72.0	489,053	202	22	1,594,321	362,827	1,957,148
2011/12	Unlimited	None	60.0	515,084	169	16	1,754,513	361,696	2,116,209
2012/13	Unlimited	None	48.0	482,783	143	35	1,711,198	625,242	2,336,440
2013/14	Unlimited	None	36.0	482,783	158	48	1,686,126	622,373	2,308,499
2014/15	Unlimited	None	24.0	468,483	155	56	880,728	538,050	1,418,779
2015/16	Unlimited	None	12.0	497,031	169	124	722,360	900,414	1,622,774
<b>Total</b>					<b>12,120</b>	<b>364</b>	<b>\$76,450,468</b>	<b>\$7,019,391</b>	<b>\$83,469,858</b>

\* 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, 2016  
Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Payroll (000) (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Unlimited Paid Losses 11/30/16 (8)	Unlimited Case Reserves 11/30/16 (9)	Unlimited Reported Incurred Losses 11/30/16 (10)
to 1996/97	Unlimited	None	240.0	Not Provided	4,783	15	\$43,509,375	\$1,504,237	\$45,013,613
1997/98	Unlimited	None	228.0	Not Provided	623	0	1,350,430	0	1,350,430
1998/99	Unlimited	None	216.0	Not Provided	747	2	2,529,139	254,103	2,783,242
1999/00	Unlimited	None	204.0	Not Provided	635	0	1,772,683	0	1,772,683
2000/01	Unlimited	None	192.0	425,788	625	0	1,535,829	0	1,535,829
2001/02	Unlimited	None	180.0	434,846	490	1	1,176,100	15,000	1,191,100
2002/03	Unlimited	None	168.0	441,142	514	3	2,930,313	89,406	3,019,719
2003/04	Unlimited	None	156.0	453,644	593	4	1,773,157	116,405	1,889,563
2004/05	Unlimited	None	144.0	458,776	518	2	2,334,103	800,209	3,134,312
2005/06	Unlimited	None	132.0	464,619	510	1	1,732,797	10,000	1,742,797
2006/07	Unlimited	None	120.0	448,051	318	4	2,086,766	20,000	2,106,766
2007/08	Unlimited	None	108.0	445,664	274	9	1,742,145	181,775	1,923,921
2008/09	Unlimited	None	96.0	501,624	280	8	1,919,584	125,033	2,044,617
2009/10	Unlimited	None	84.0	526,535	214	14	1,708,799	492,619	2,201,419
2010/11	Unlimited	None	72.0	489,053	202	22	1,594,321	362,827	1,957,148
2011/12	Unlimited	None	60.0	515,084	169	16	1,754,513	361,696	2,116,209
2012/13	Unlimited	None	48.0	482,783	143	35	1,711,198	625,242	2,336,440
2013/14	Unlimited	None	36.0	482,783	158	48	1,686,126	622,373	2,308,499
2014/15	Unlimited	None	24.0	468,483	155	56	880,728	538,050	1,418,779
2015/16	Unlimited	None	12.0	497,031	169	124	722,360	900,414	1,622,774
<b>Total</b>					<b>12,120</b>	<b>364</b>	<b>\$76,450,468</b>	<b>\$7,019,391</b>	<b>\$83,469,858</b>

(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).





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

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	
Claim Period																					
to 1/996/97																					
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																					

II. Reported Claim Development

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	
Claim Period																					
to 1/996/97																					
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																					
Average All	1.037	1.020	1.006	1.004	1.005	1.003	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Wtd 3	1.047	1.029	1.018	1.012	1.015	1.011	1.005	1.001	1.000	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Last 3	1.046	1.028	1.016	1.011	1.013	1.010	1.004	1.001	1.000	1.001	1.001	1.001	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	
Last 5 x-Hilow	1.034	1.013	1.004	1.001	1.003	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	
Similar	1.131	1.019	1.010	1.007	1.007	1.005	1.005	1.006	1.000	1.001	1.001	1.001	1.001	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	
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	
Cumulative 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%	

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	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1/996/07																					
1997/08																					
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																					
Average																					
All	45.2%	63.5%	71.6%	78.4%	80.9%	84.7%	83.9%	85.6%	86.2%	87.4%	87.6%	92.4%	94.9%	95.7%	96.7%	97.3%	97.1%	96.1%	99.0%	96.7%	
Last 3	40.8%	58.2%	66.2%	70.7%	72.5%	76.7%	80.9%	91.1%	93.5%	89.3%	87.7%	88.5%	96.2%	97.7%	98.4%	96.6%	97.0%	96.1%	96.1%	96.7%	
Last 5	48.6%	69.9%	74.8%	81.0%	83.9%	85.6%	85.5%	93.4%	95.7%	98.9%	96.7%	97.0%	98.2%	97.7%	98.4%	99.0%	97.0%	96.1%	96.1%	96.7%	
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%	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 11/30/16 (2)	Limited Paid Losses 11/30/16 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1996/97	240.0	\$43,509,375	98.5%	\$44,162,016
1997/98	228.0	1,350,430	98.4%	1,372,057
1998/99	216.0	2,529,139	98.3%	2,572,213
1999/00	204.0	1,772,683	98.1%	1,806,479
2000/01	192.0	1,535,829	97.9%	1,568,240
2001/02	180.0	1,176,100	97.7%	1,203,321
2002/03	168.0	2,930,313	97.5%	3,004,133
2003/04	156.0	1,773,157	97.2%	1,825,098
2004/05	144.0	2,334,103	96.8%	2,412,084
2005/06	132.0	1,732,797	96.3%	1,799,643
2006/07	120.0	2,086,766	95.3%	2,188,939
2007/08	108.0	1,742,145	93.7%	1,858,511
2008/09	96.0	1,919,584	90.3%	2,125,619
2009/10	84.0	1,708,799	86.0%	1,986,820
2010/11	72.0	1,594,321	78.2%	2,039,088
2011/12	60.0	1,754,513	70.4%	2,490,806
2012/13	48.0	1,711,198	60.2%	2,842,296
2013/14	36.0	1,686,126	48.6%	3,472,808
2014/15	24.0	880,728	32.6%	2,702,831
2015/16	12.0	722,360	14.8%	4,877,008
Total		\$76,450,468		\$88,310,011

(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 11/30/16 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1996/97	240.0	\$45,013,613	99.9%	\$45,058,626
1997/98	228.0	1,350,430	99.8%	1,353,132
1998/99	216.0	2,783,242	99.7%	2,791,601
1999/00	204.0	1,772,683	99.6%	1,779,784
2000/01	192.0	1,535,829	99.5%	1,543,523
2001/02	180.0	1,191,100	99.4%	1,198,265
2002/03	168.0	3,019,719	99.2%	3,043,959
2003/04	156.0	1,889,563	99.0%	1,908,540
2004/05	144.0	3,134,312	98.8%	3,172,122
2005/06	132.0	1,742,797	98.5%	1,769,112
2006/07	120.0	2,106,766	98.1%	2,147,131
2007/08	108.0	1,923,921	97.7%	1,968,626
2008/09	96.0	2,044,617	96.5%	2,119,324
2009/10	84.0	2,201,419	94.6%	2,327,492
2010/11	72.0	1,957,148	92.3%	2,120,963
2011/12	60.0	2,116,209	86.5%	2,446,991
2012/13	48.0	2,336,440	79.7%	2,931,287
2013/14	36.0	2,308,499	70.4%	3,281,430
2014/15	24.0	1,418,779	57.7%	2,460,413
2015/16	12.0	1,622,774	34.9%	4,643,391
Total		\$83,469,858		\$90,065,713

(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 11/30/16 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/16 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/16 (6)	Limited Case Reserves 11/30/16 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1996/97	240.0	98.5%	99.9%	93.2%	\$43,509,375	\$1,504,237	\$45,122,670
1997/98	228.0	98.4%	99.8%	87.3%	1,350,430	0	1,350,430
1998/99	216.0	98.3%	99.7%	82.1%	2,529,139	254,103	2,838,565
1999/00	204.0	98.1%	99.6%	78.7%	1,772,683	0	1,772,683
2000/01	192.0	97.9%	99.5%	75.9%	1,535,829	0	1,535,829
2001/02	180.0	97.7%	99.4%	73.6%	1,176,100	15,000	1,196,489
2002/03	168.0	97.5%	99.2%	67.6%	2,930,313	89,406	3,062,583
2003/04	156.0	97.2%	99.0%	65.1%	1,773,157	116,405	1,952,074
2004/05	144.0	96.8%	98.8%	63.1%	2,334,103	800,209	3,601,630
2005/06	132.0	96.3%	98.5%	60.0%	1,732,797	10,000	1,749,477
2006/07	120.0	95.3%	98.1%	59.7%	2,086,766	20,000	2,120,253
2007/08	108.0	93.7%	97.7%	63.7%	1,742,145	181,775	2,027,367
2008/09	96.0	90.3%	96.5%	63.6%	1,919,584	125,033	2,116,076
2009/10	84.0	86.0%	94.6%	61.3%	1,708,799	492,619	2,512,543
2010/11	72.0	78.2%	92.3%	64.6%	1,594,321	362,827	2,156,058
2011/12	60.0	70.4%	86.5%	54.3%	1,754,513	361,696	2,420,986
2012/13	48.0	60.2%	79.7%	49.0%	1,711,198	625,242	2,987,036
2013/14	36.0	48.6%	70.4%	42.4%	1,686,126	622,373	3,155,044
2014/15	24.0	32.6%	57.7%	37.2%	880,728	538,050	2,327,064
2015/16	12.0	14.8%	34.9%	23.6%	722,360	900,414	4,531,607
<b>Total</b>					<b>\$76,450,468</b>	<b>\$7,019,391</b>	<b>\$90,536,465</b>

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

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



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

Exhibit WC-HC-Indem-6

Preliminary Projected Ultimate Limited Losses to 2015/16

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 1996/97	\$44,162,016	\$45,058,626	\$45,122,670	\$45,164,037
1997/98	1,372,057	1,353,132	1,350,430	1,350,430
1998/99	2,572,213	2,791,601	2,838,565	2,838,565
1999/00	1,806,479	1,779,784	1,772,683	1,772,683
2000/01	1,568,240	1,543,523	1,535,829	1,535,829
2001/02	1,203,321	1,198,265	1,196,489	1,196,489
2002/03	3,004,133	3,043,959	3,062,583	3,062,583
2003/04	1,825,098	1,908,540	1,952,074	1,952,074
2004/05	2,412,084	3,172,122	3,601,630	3,601,630
2005/06	1,799,643	1,769,112	1,749,477	1,749,477
2006/07	2,188,939	2,147,131	2,120,253	2,120,253
2007/08	1,858,511	1,968,626	2,027,367	2,027,367
2008/09	2,125,619	2,119,324	2,116,076	2,116,401
2009/10	1,986,820	2,327,492	2,512,543	2,475,533
2010/11	2,039,088	2,120,963	2,156,058	2,145,530
2011/12	2,490,806	2,446,991	2,420,986	2,431,388
2012/13	2,842,296	2,931,287	2,987,036	2,950,262
2013/14	3,472,808	3,281,430	3,155,044	3,269,151
2014/15	2,702,831	2,460,413	2,327,064	2,455,557
2015/16	4,877,008	4,643,391	4,531,607	4,645,401
<b>Total</b>	<b>\$88,310,011</b>	<b>\$90,065,713</b>	<b>\$90,536,465</b>	<b>\$90,860,640</b>

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

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

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

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



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

Exhibit WC-HC-Indem-7

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Payroll (000) (3)	Limited Loss Rate per \$100 of Payroll (2)/(3)/10 (4)	Loss Rate Trend (2016/17 = 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)
2006/07	\$2,120,253	\$448,051	\$0.47	1.165	\$0.55	\$0.51
2007/08	2,027,367	445,664	0.45	1.140	0.52	0.52
2008/09	2,116,401	501,624	0.42	1.116	0.47	0.53
2009/10	2,475,533	526,535	0.47	1.092	0.51	0.54
2010/11	2,145,530	489,053	0.44	1.083	0.48	0.54
2011/12	2,431,388	515,084	0.47	1.087	0.51	0.54
2012/13	2,950,262	482,783	0.61	1.070	0.65	0.55
2013/14	3,269,151	482,783	0.68	1.052	0.71	0.56
2014/15	2,455,557	468,483	0.52	1.033	0.54	0.57
2015/16	4,645,401	497,031	0.93	1.015	0.95	0.58

(7) Projected 2016/17 a-priori loss rate per \$100 of Payroll \$0.59

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/16 (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)
2011/12	\$1,754,513	70.4%	\$0.54	\$515,084	\$826,249	\$2,580,762
2012/13	1,711,198	60.2%	0.55	482,783	1,059,541	2,770,739
2013/14	1,686,126	48.6%	0.56	482,783	1,392,585	3,078,711
2014/15	880,728	32.6%	0.57	468,483	1,803,553	2,684,281
2015/16	722,360	14.8%	0.58	497,031	2,460,686	3,183,046

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (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)
2011/12	\$2,116,209	86.5%	\$0.54	\$515,084	\$377,842	\$2,494,051
2012/13	2,336,440	79.7%	0.55	482,783	540,298	2,876,738
2013/14	2,308,499	70.4%	0.56	482,783	802,554	3,111,053
2014/15	1,418,779	57.7%	0.57	468,483	1,132,615	2,551,393
2015/16	1,622,774	34.9%	0.58	497,031	1,879,039	3,501,813

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

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

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

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

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

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

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



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

Exhibit WC-HC-Indem-8

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/16 (2)	Reported Claims 11/30/16 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2006/07	120.0	318	100.0%	318	\$448,051	0.71
2007/08	108.0	274	100.0%	274	445,664	0.61
2008/09	96.0	280	100.0%	280	501,624	0.56
2009/10	84.0	214	99.9%	214	526,535	0.41
2010/11	72.0	202	99.8%	202	489,053	0.41
2011/12	60.0	169	99.7%	170	515,084	0.33
2012/13	48.0	143	99.6%	144	482,783	0.30
2013/14	36.0	158	99.3%	159	482,783	0.33
2014/15	24.0	155	98.9%	157	468,483	0.34
2015/16	12.0	169	96.5%	175	497,031	0.35

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2016/17 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2016/17 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2006/07	\$2,120,253	318	\$6,667	1.566	\$10,441	\$11,023	\$3,505,356
2007/08	2,027,367	274	7,399	1.487	11,005	11,607	3,180,184
2008/09	2,116,401	280	7,559	1.414	10,685	12,211	3,419,031
2009/10	2,475,533	214	11,568	1.343	15,541	12,849	2,749,735
2010/11	2,145,530	202	10,621	1.293	13,735	13,349	2,696,597
2011/12	2,431,388	170	14,302	1.260	18,023	13,699	2,328,773
2012/13	2,950,262	144	20,488	1.204	24,664	14,339	2,064,859
2013/14	3,269,151	159	20,561	1.150	23,638	15,015	2,387,430
2014/15	2,455,557	157	15,640	1.096	17,140	15,752	2,473,137
2015/16	4,645,401	175	26,545	1.045	27,752	16,512	2,889,580

(7) Projected 2016/17 average claim severity

\$17,262

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 2015/16

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 1996/97	\$44,162,016	\$45,058,626	\$45,122,670				\$42,071,000	\$45,164,037
1997/98	1,372,057	1,353,132	1,350,430				1,312,491	1,350,430
1998/99	2,572,213	2,791,601	2,838,565				2,659,000	2,840,000
1999/00	1,806,479	1,779,784	1,772,683				1,655,358	1,772,683
2000/01	1,568,240	1,543,523	1,535,829				1,444,000	1,535,829
2001/02	1,203,321	1,198,265	1,196,489				1,112,000	1,200,000
2002/03	3,004,133	3,043,959	3,062,583				2,880,000	3,060,000
2003/04	1,825,098	1,908,540	1,952,074				1,834,000	1,950,000
2004/05	2,412,084	3,172,122	3,601,630				3,000,000	3,300,000
2005/06	1,799,643	1,769,112	1,749,477				1,635,000	1,750,000
2006/07	2,188,939	2,147,131	2,120,253				2,130,000	2,120,000
2007/08	1,858,511	1,968,626	2,027,367				1,890,000	1,970,000
2008/09	2,125,619	2,119,324	2,116,076				1,900,000	2,120,000
2009/10	1,986,820	2,327,492	2,512,543				2,400,000	2,480,000
2010/11	2,039,088	2,120,963	2,156,058				2,000,000	2,150,000
2011/12	2,490,806	2,446,991	2,420,986	2,580,762	2,494,051	2,328,773	2,115,000	2,425,000
2012/13	2,842,296	2,931,287	2,987,036	2,770,739	2,876,738	2,064,859	2,425,000	2,900,000
2013/14	3,472,808	3,281,430	3,155,044	3,078,711	3,111,053	2,387,430	2,375,000	3,150,000
2014/15	2,702,831	2,460,413	2,327,064	2,684,281	2,551,393	2,473,137	1,600,000	2,500,000
2015/16	4,877,008	4,643,391	4,531,607	3,183,046	3,501,813	2,889,580	2,279,000	3,500,000
<b>Total</b>	<b>\$88,310,011</b>	<b>\$90,065,713</b>	<b>\$90,536,465</b>				<b>\$80,716,849</b>	<b>\$89,237,978</b>
2011/12 - 2015/16	16,385,749	15,763,513	15,421,737	14,297,539	14,535,049	12,143,778	10,794,000	14,475,000
to 2010/11	71,924,262	74,302,200	75,114,727				69,922,849	74,762,978
						<b>Change</b>		
						All years		\$8,521,129
						2011/12 - 2015/16		3,681,000
						to 2010/11		4,840,129

(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 2016/17 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 (2016/17 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2006/07	\$2,120,000	\$448,051	\$0.47	1.165	\$0.55
2007/08	1,970,000	445,664	0.44	1.140	0.50
2008/09	2,120,000	501,624	0.42	1.116	0.47
2009/10	2,480,000	526,535	0.47	1.092	0.51
2010/11	2,150,000	489,053	0.44	1.083	0.48
2011/12	2,425,000	515,084	0.47	1.087	0.51
2012/13	2,900,000	482,783	0.60	1.070	0.64
2013/14	3,150,000	482,783	0.65	1.052	0.69
2014/15	2,500,000	468,483	0.53	1.033	0.55
2015/16	3,500,000	497,031	0.70	1.015	0.71
<b>Total</b>	<b>\$25,315,000</b>	<b>\$4,857,091</b>	<b>\$0.52</b>		<b>\$0.56</b>

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)
2016/17	\$0.56	\$526,891	\$2,960,000	0.95	\$0.53	\$2,810,000
2017/18	0.57	526,891	3,010,000	0.95	0.54	2,860,000
2018/19	0.58	526,891	3,050,000	0.95	0.55	2,900,000

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

(3) was provided by the County.

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

(7) 2016/17 is based on (6) and actuarial judgment.

Other period(s) based on 2016/17 plus the trend in Exhibit WC-HC-Indem-15.

(8) to 2016/17 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.31% 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, 2016

Claim Period (1)	Limited Paid Losses 11/30/16 (2)	Limited Case Reserves 11/30/16 (3)	Limited Reported Incurred Losses 11/30/16 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR (5)-(4) (6)	Estimated Outstanding Losses 11/30/16 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/16 (7)X(8) (9)
to 1996/97	\$43,509,375	\$1,504,237	\$45,013,613	\$45,164,037	\$150,424	\$1,654,661	0.97	\$1,596,975
1997/98	1,350,430	0	1,350,430	1,350,430	0	0	0.96	0
1998/99	2,529,139	254,103	2,783,242	2,840,000	56,758	310,861	0.95	294,022
1999/00	1,772,683	0	1,772,683	1,772,683	0	0	0.94	0
2000/01	1,535,829	0	1,535,829	1,535,829	0	0	0.93	0
2001/02	1,176,100	15,000	1,191,100	1,200,000	8,900	23,900	0.93	22,181
2002/03	2,930,313	89,406	3,019,719	3,060,000	40,281	129,687	0.92	119,601
2003/04	1,773,157	116,405	1,889,563	1,950,000	60,437	176,842	0.92	162,989
2004/05	2,334,103	800,209	3,134,312	3,300,000	165,688	965,897	0.92	888,409
2005/06	1,732,797	10,000	1,742,797	1,750,000	7,203	17,203	0.92	15,809
2006/07	2,086,766	20,000	2,106,766	2,120,000	13,234	33,234	0.92	30,733
2007/08	1,742,145	181,775	1,923,921	1,970,000	46,079	227,854	0.93	212,664
2008/09	1,919,584	125,033	2,044,617	2,120,000	75,383	200,416	0.95	189,763
2009/10	1,708,799	492,619	2,201,419	2,480,000	278,581	771,200	0.95	734,727
2010/11	1,594,321	362,827	1,957,148	2,150,000	192,852	555,679	0.96	533,136
2011/12	1,754,513	361,696	2,116,209	2,425,000	308,791	670,487	0.96	643,138
2012/13	1,711,198	625,242	2,336,440	2,900,000	563,560	1,188,802	0.96	1,139,847
2013/14	1,686,126	622,373	2,308,499	3,150,000	841,501	1,463,874	0.96	1,401,055
2014/15	880,728	538,050	1,418,779	2,500,000	1,081,221	1,619,271	0.96	1,548,461
2015/16	722,360	900,414	1,622,774	3,500,000	1,877,226	2,777,640	0.95	2,650,578
<b>Total</b>	<b>\$76,450,468</b>	<b>\$7,019,391</b>	<b>\$83,469,858</b>	<b>\$89,237,978</b>	<b>\$5,768,119</b>	<b>\$12,787,508</b>		<b>\$12,184,088</b>

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

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

(8) is based on a 1.31% 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, 2016 to November 30, 2017

Claim Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Months of Development 11/30/17 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/16 to 11/30/17 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/16 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/17 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/17 (9)X(10) (11)
to 1996/97	240.0	98.5%	252.0	99.0%	30.0%	\$1,654,661	\$496,398	\$1,158,263	0.97	\$1,118,257
1997/98	228.0	98.4%	240.0	98.5%	6.2%	0	0	0	0.97	0
1998/99	216.0	98.3%	228.0	98.4%	5.9%	310,861	18,253	292,608	0.96	279,502
1999/00	204.0	98.1%	216.0	98.3%	10.5%	0	0	0	0.95	0
2000/01	192.0	97.9%	204.0	98.1%	9.5%	0	0	0	0.94	0
2001/02	180.0	97.7%	192.0	97.9%	8.6%	23,900	2,065	21,835	0.93	20,393
2002/03	168.0	97.5%	180.0	97.7%	7.9%	129,687	10,296	119,391	0.93	110,804
2003/04	156.0	97.2%	168.0	97.5%	13.7%	176,842	24,148	152,694	0.92	140,818
2004/05	144.0	96.8%	156.0	97.2%	12.0%	965,897	115,643	850,254	0.92	783,649
2005/06	132.0	96.3%	144.0	96.8%	13.0%	17,203	2,230	14,973	0.92	13,772
2006/07	120.0	95.3%	132.0	96.3%	20.4%	33,234	6,788	26,446	0.92	24,303
2007/08	108.0	93.7%	120.0	95.3%	25.5%	227,854	57,991	169,863	0.92	157,080
2008/09	96.0	90.3%	108.0	93.7%	35.4%	200,416	70,955	129,461	0.93	120,831
2009/10	84.0	86.0%	96.0	90.3%	30.7%	771,200	237,001	534,199	0.95	505,804
2010/11	72.0	78.2%	84.0	86.0%	35.8%	555,679	199,190	356,489	0.95	339,629
2011/12	60.0	70.4%	72.0	78.2%	26.2%	670,487	175,748	494,739	0.96	474,668
2012/13	48.0	60.2%	60.0	70.4%	25.7%	1,188,802	305,744	883,058	0.96	847,038
2013/14	36.0	48.6%	48.0	60.2%	22.6%	1,463,874	331,557	1,132,317	0.96	1,085,688
2014/15	24.0	32.6%	36.0	48.6%	23.7%	1,619,271	383,517	1,235,754	0.96	1,182,725
2015/16	12.0	14.8%	24.0	32.6%	20.9%	2,777,640	579,531	2,198,109	0.96	2,101,986
2016/17	0.0	0.0%	12.0	14.8%	14.8%	2,960,000	438,422	2,521,578	0.95	2,406,230
Total						\$15,747,508	\$3,455,477	\$12,292,031		\$11,713,177

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

(7) to 2015/16 is from Exhibit WC-HC-Indem-11. The amount for 2016/17 is from Exhibit WC-HC-Indem-10.

(10) is based on a 1.31% 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, 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 1996/97	252.0	99.0%	264.0	99.3%	30.0%	\$1,158,263	\$347,479	\$810,784	0.97	\$783,159
1997/98	240.0	98.5%	252.0	99.0%	30.0%	0	0	0	0.97	0
1998/99	228.0	98.4%	240.0	98.5%	6.2%	292,608	18,271	274,337	0.97	264,773
1999/00	216.0	98.3%	228.0	98.4%	5.9%	0	0	0	0.96	0
2000/01	204.0	98.1%	216.0	98.3%	10.5%	0	0	0	0.95	0
2001/02	192.0	97.9%	204.0	98.1%	9.5%	21,835	2,069	19,766	0.94	18,578
2002/03	180.0	97.7%	192.0	97.9%	8.6%	119,391	10,317	109,074	0.93	101,872
2003/04	168.0	97.5%	180.0	97.7%	7.9%	152,694	12,123	140,571	0.93	130,461
2004/05	156.0	97.2%	168.0	97.5%	13.7%	850,254	116,105	734,149	0.92	677,052
2005/06	144.0	96.8%	156.0	97.2%	12.0%	14,973	1,793	13,180	0.92	12,148
2006/07	132.0	96.3%	144.0	96.8%	13.0%	26,446	3,428	23,018	0.92	21,171
2007/08	120.0	95.3%	132.0	96.3%	20.4%	169,863	34,692	135,171	0.92	124,220
2008/09	108.0	93.7%	120.0	95.3%	25.5%	129,461	32,949	96,512	0.92	89,249
2009/10	96.0	90.3%	108.0	93.7%	35.4%	534,199	189,127	345,072	0.93	322,068
2010/11	84.0	86.0%	96.0	90.3%	30.7%	356,489	109,554	246,935	0.95	233,809
2011/12	72.0	78.2%	84.0	86.0%	35.8%	494,739	177,345	317,394	0.95	302,383
2012/13	60.0	70.4%	72.0	78.2%	26.2%	883,058	231,467	651,591	0.96	625,157
2013/14	48.0	60.2%	60.0	70.4%	25.7%	1,132,317	291,217	841,100	0.96	806,792
2014/15	36.0	48.6%	48.0	60.2%	22.6%	1,235,754	279,889	955,865	0.96	916,502
2015/16	24.0	32.6%	36.0	48.6%	23.7%	2,198,109	520,612	1,677,497	0.96	1,605,511
2016/17	12.0	14.8%	24.0	32.6%	20.9%	2,521,578	526,106	1,995,472	0.96	1,908,211
2017/18	0.0	0.0%	12.0	14.8%	14.8%	3,010,000	445,827	2,564,173	0.95	2,446,876
<b>Total</b>						<b>\$15,302,031</b>	<b>\$3,350,370</b>	<b>\$11,951,661</b>		<b>\$11,389,992</b>

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

(7) to 2016/17 is from Exhibit WC-HC-Indem-12, (9). The amount for 2017/18 is from Exhibit WC-HC-Indem-10.

(10) is based on a 1.31% 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, 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 1996/97	264.0	99.3%	276.0	99.5%	30.0%	\$810,784	\$243,235	\$567,549	0.97	\$548,595
1997/98	252.0	99.0%	264.0	99.3%	30.0%	0	0	0	0.97	0
1998/99	240.0	98.5%	252.0	99.0%	30.0%	274,337	82,301	192,036	0.97	185,403
1999/00	228.0	98.4%	240.0	98.5%	6.2%	0	0	0	0.97	0
2000/01	216.0	98.3%	228.0	98.4%	5.9%	0	0	0	0.96	0
2001/02	204.0	98.1%	216.0	98.3%	10.5%	19,766	2,074	17,692	0.95	16,734
2002/03	192.0	97.9%	204.0	98.1%	9.5%	109,074	10,337	98,737	0.94	92,802
2003/04	180.0	97.7%	192.0	97.9%	8.6%	140,571	12,147	128,424	0.93	119,944
2004/05	168.0	97.5%	180.0	97.7%	7.9%	734,149	58,285	675,864	0.93	627,256
2005/06	156.0	97.2%	168.0	97.5%	13.7%	13,180	1,800	11,380	0.92	10,495
2006/07	144.0	96.8%	156.0	97.2%	12.0%	23,018	2,756	20,262	0.92	18,675
2007/08	132.0	96.3%	144.0	96.8%	13.0%	135,171	17,520	117,651	0.92	108,213
2008/09	120.0	95.3%	132.0	96.3%	20.4%	96,512	19,711	76,801	0.92	70,579
2009/10	108.0	93.7%	120.0	95.3%	25.5%	345,072	87,825	257,247	0.92	237,889
2010/11	96.0	90.3%	108.0	93.7%	35.4%	246,935	87,424	159,511	0.93	148,877
2011/12	84.0	86.0%	96.0	90.3%	30.7%	317,394	97,540	219,854	0.95	208,168
2012/13	72.0	78.2%	84.0	86.0%	35.8%	651,591	233,571	418,020	0.95	398,250
2013/14	60.0	70.4%	72.0	78.2%	26.2%	841,100	220,469	620,631	0.96	595,453
2014/15	48.0	60.2%	60.0	70.4%	25.7%	955,865	245,836	710,029	0.96	681,067
2015/16	36.0	48.6%	48.0	60.2%	22.6%	1,677,497	379,941	1,297,556	0.96	1,244,122
2016/17	24.0	32.6%	36.0	48.6%	23.7%	1,995,472	472,618	1,522,854	0.96	1,457,505
2017/18	12.0	14.8%	24.0	32.6%	20.9%	2,564,173	534,993	2,029,180	0.96	1,940,445
2018/19	0.0	0.0%	12.0	14.8%	14.8%	3,050,000	451,752	2,598,248	0.95	2,479,392
Total						\$15,001,661	\$3,262,135	\$11,739,526		\$11,189,864

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

(7) to 2017/18 is from Exhibit WC-HC-Indem-13, (9). The amount for 2018/19 is from Exhibit WC-HC-Indem-10.

(10) is based on a 1.31% 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)
01/15/07	1.003	1.003
07/01/07	1.002	1.005
07/15/07	1.002	1.007
01/15/08	1.003	1.010
07/01/08	1.003	1.013
07/15/08	1.002	1.015
01/15/09	1.002	1.017
07/01/09	1.001	1.018
07/15/09	1.002	1.020
01/15/10	1.004	1.024
07/01/10	1.001	1.025
07/15/10	1.002	1.027
06/28/11	0.989	1.016
07/01/11	1.001	1.017
09/01/11	0.983	1.000
01/15/13	1.001	1.001
07/15/13	1.001	1.002
01/15/14	1.001	1.003

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2016/17 = 1.000) (2)	Residual Trend (2016/17 = 1.000) (3)	Retention Index (2016/17 = 1.000) (4)	Loss Rate Trend (2016/17 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2016/17 = 1.000) (6)	Severity Trend (2016/17 = 1.000) (5)X(6) (7)
2006/07	1.004	1.161	1.000	1.165	1.344	1.566
2007/08	0.997	1.143	1.000	1.140	1.305	1.487
2008/09	0.991	1.126	1.000	1.116	1.267	1.414
2009/10	0.984	1.110	1.000	1.092	1.230	1.343
2010/11	0.990	1.093	1.000	1.083	1.194	1.293
2011/12	1.009	1.077	1.000	1.087	1.159	1.260
2012/13	1.008	1.061	1.000	1.070	1.126	1.204
2013/14	1.006	1.046	1.000	1.052	1.093	1.150
2014/15	1.003	1.030	1.000	1.033	1.061	1.096
2015/16	1.000	1.015	1.000	1.015	1.030	1.045
2016/17	1.000	1.000	1.000	1.000	1.000	1.000
2017/18	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 11/30/16 (5)	Unlimited Case Reserves 11/30/16 (6)	Unlimited Reported Incurred Losses 11/30/16 (7)
880192	9/15/1987	to 1996/97	Unlimited	\$807,270	\$244,575	\$1,051,845
20050890	5/8/2005	2004/05	Unlimited	556,631	794,356	1,350,987

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)	2011/12 (3)	2012/13 (4)	2013/14 (5)	2014/15 (6)	2015/16 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	4,758	38	12	2	4	3	4,817		
0.01 - 5,000	4,689	77	85	111	103	100	5,165	5,165	70.7%
5,000 - 10,000	615	10	12	9	13	12	671	5,836	79.9%
10,000 - 25,000	623	21	12	8	18	23	705	6,541	89.6%
25,000 - 50,000	316	13	10	6	10	29	384	6,925	94.8%
50,000 - 100,000	198	4	6	17	5	2	232	7,157	98.0%
100,000 - 250,000	95	6	5	5	2	0	113	7,270	99.5%
250,000 - 500,000	19	0	1	0	0	0	20	7,290	99.8%
500,000 - 750,000	8	0	0	0	0	0	8	7,298	99.9%
750,000 - 1,000,000	3	0	0	0	0	0	3	7,301	100.0%
Over 1,000,000	2	0	0	0	0	0	2	7,303	100.0%
<b>Total</b>	<b>11,326</b>	<b>169</b>	<b>143</b>	<b>158</b>	<b>155</b>	<b>169</b>	<b>12,120</b>	<b>7,303</b>	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2011/12 (3)	2012/13 (4)	2013/14 (5)	2014/15 (6)	2015/16 (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	4,875,950	80,899	56,114	64,797	59,257	55,460	5,192,478	5,192,478	6.2%
5,000 - 10,000	4,429,382	70,650	74,475	62,304	88,901	81,000	4,806,713	9,999,191	12.0%
10,000 - 25,000	9,782,613	316,789	189,848	130,053	319,109	429,631	11,168,042	21,167,233	25.4%
25,000 - 50,000	10,777,044	457,038	368,030	186,464	362,849	921,569	13,072,994	34,240,227	41.0%
50,000 - 100,000	13,462,939	223,880	525,655	1,157,644	380,609	135,114	15,885,841	50,126,068	60.1%
100,000 - 250,000	14,345,406	966,953	806,818	707,237	208,053	0	17,034,466	67,160,534	80.5%
250,000 - 500,000	6,151,531	0	315,500	0	0	0	6,467,031	73,627,565	88.2%
500,000 - 750,000	5,001,042	0	0	0	0	0	5,001,042	78,628,607	94.2%
750,000 - 1,000,000	2,438,420	0	0	0	0	0	2,438,420	81,067,027	97.1%
Over 1,000,000	2,402,831	0	0	0	0	0	2,402,831	83,469,858	100.0%
<b>Total</b>	<b>\$73,667,158</b>	<b>\$2,116,209</b>	<b>\$2,336,440</b>	<b>\$2,308,499</b>	<b>\$1,418,779</b>	<b>\$1,622,774</b>	<b>\$83,469,858</b>	<b>\$83,469,858</b>	

Amounts are gross of excess insurance.

Data was provided by the County.

Data Summary as of November 30, 2016  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Payroll (000) (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Limited Paid Losses 11/30/16 (8)	Limited Case Reserves 11/30/16 (9)	Limited Reported Incurred Losses 11/30/16 (10)
to 1996/97	See Note	None	240.0	Not Provided	4,783	15	\$10,310,467	\$436,140	\$10,746,607
1997/98	Unlimited	None	228.0	Not Provided	623	0	414,671	0	414,671
1998/99	Unlimited	None	216.0	Not Provided	747	2	637,373	40,500	677,874
1999/00	Unlimited	None	204.0	Not Provided	635	0	831,292	0	831,292
2000/01	9,500,000	None	192.0	425,788	625	0	710,937	0	710,937
2001/02	9,500,000	None	180.0	434,846	490	1	620,425	0	620,425
2002/03	9,500,000	None	168.0	441,142	514	3	899,025	20,056	919,081
2003/04	Unlimited	None	156.0	453,644	593	4	1,006,381	323,698	1,330,079
2004/05	Unlimited	None	144.0	458,776	518	2	1,249,554	22,613	1,272,167
2005/06	Unlimited	None	132.0	464,619	510	1	763,576	0	763,576
2006/07	Unlimited	None	120.0	448,051	318	4	925,319	0	925,319
2007/08	Unlimited	None	108.0	445,664	274	9	746,248	30,652	776,900
2008/09	Unlimited	None	96.0	501,624	280	8	684,159	27,219	711,378
2009/10	Unlimited	None	84.0	526,535	214	14	697,571	77,584	775,155
2010/11	Unlimited	None	72.0	489,053	202	22	662,184	101,196	763,380
2011/12	Unlimited	None	60.0	515,084	169	16	893,556	110,588	1,004,144
2012/13	Unlimited	None	48.0	482,783	143	35	773,891	194,742	968,634
2013/14	Unlimited	None	36.0	482,783	158	48	591,128	294,825	885,954
2014/15	Unlimited	None	24.0	468,483	155	56	311,265	304,194	615,459
2015/16	Unlimited	None	12.0	497,031	169	124	138,290	1,240,819	1,379,109
<b>Total</b>					<b>12,120</b>	<b>364</b>	<b>\$23,867,312</b>	<b>\$3,224,827</b>	<b>\$27,092,139</b>

\* 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, 2016  
Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Payroll (000) (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Unlimited Paid Losses 11/30/16 (8)	Unlimited Case Reserves 11/30/16 (9)	Unlimited Reported Incurred Losses 11/30/16 (10)
to 1996/97	Unlimited	None	240.0	Not Provided	4,783	15	\$10,310,467	\$436,140	\$10,746,607
1997/98	Unlimited	None	228.0	Not Provided	623	0	414,671	0	414,671
1998/99	Unlimited	None	216.0	Not Provided	747	2	637,373	40,500	677,874
1999/00	Unlimited	None	204.0	Not Provided	635	0	831,292	0	831,292
2000/01	Unlimited	None	192.0	425,788	625	0	710,937	0	710,937
2001/02	Unlimited	None	180.0	434,846	490	1	620,425	0	620,425
2002/03	Unlimited	None	168.0	441,142	514	3	899,025	20,056	919,081
2003/04	Unlimited	None	156.0	453,644	593	4	1,006,381	323,698	1,330,079
2004/05	Unlimited	None	144.0	458,776	518	2	1,249,554	22,613	1,272,167
2005/06	Unlimited	None	132.0	464,619	510	1	763,576	0	763,576
2006/07	Unlimited	None	120.0	448,051	318	4	925,319	0	925,319
2007/08	Unlimited	None	108.0	445,664	274	9	746,248	30,652	776,900
2008/09	Unlimited	None	96.0	501,624	280	8	684,159	27,219	711,378
2009/10	Unlimited	None	84.0	526,535	214	14	697,571	77,584	775,155
2010/11	Unlimited	None	72.0	489,053	202	22	662,184	101,196	763,380
2011/12	Unlimited	None	60.0	515,084	169	16	893,556	110,588	1,004,144
2012/13	Unlimited	None	48.0	482,783	143	35	773,891	194,742	968,634
2013/14	Unlimited	None	36.0	482,783	158	48	591,128	294,825	885,954
2014/15	Unlimited	None	24.0	468,483	155	56	311,265	304,194	615,459
2015/16	Unlimited	None	12.0	497,031	169	124	138,290	1,240,819	1,379,109
<b>Total</b>					<b>12,120</b>	<b>364</b>	<b>\$23,867,312</b>	<b>\$3,224,827</b>	<b>\$27,092,139</b>

(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 (MEDICAL)

Exhibit WC-HC-Med-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	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).

COOK COUNTY, ILLINOIS  
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (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 1996/97																					
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																					

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 1996/97																					
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																					

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

2.840	1.213	1.096	1.013	1.022	1.004	1.002	0.991	0.995	0.990	0.984	0.991	0.981	0.985	0.971	0.970	0.964	0.986	0.802		
2.894	1.176	1.087	0.971	1.001	0.986	0.992	0.982	0.973	0.970	0.949	0.956	0.939	0.967	0.950	0.944	0.899	0.966	0.802		
3.652	1.210	1.057	0.962	1.002	0.985	0.986	0.958	0.970	0.960	0.958	0.971	0.950	0.961	0.950	0.959	0.964	0.966	0.802		
2.923	1.340	1.076	1.005	1.025	1.003	1.016	1.016	1.004	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.001	1.035
2.342	1.323	1.165	1.097	1.057	1.036	1.022	1.013	1.010	1.008	1.005	1.005	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.001	1.035
2.750	1.250	1.090	1.040	1.033	1.015	1.015	1.010	1.009	1.006	1.006	1.005	1.004	1.003	1.002	1.002	1.001	1.001	1.001	1.001	1.035
2.750	1.250	1.090	1.040	1.033	1.015	1.015	1.010	1.009	1.006	1.006	1.005	1.004	1.003	1.002	1.002	1.001	1.001	1.001	1.001	1.035
4.512	1.641	1.312	1.204	1.158	1.121	1.104	1.088	1.077	1.068	1.061	1.055	1.050	1.046	1.042	1.040	1.038	1.042	1.037	1.036	1.035
22.2%	61.0%	76.2%	83.1%	86.4%	89.2%	90.6%	91.9%	92.8%	93.7%	94.2%	94.9%	95.3%	95.7%	95.9%	96.1%	96.3%	96.4%	96.5%	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 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		
Claim Period																						
to 1/996/97																						
1997/98																						
1998/99																						
1999/00																						
2000/01																						
2001/02																						
2002/03																						
2003/04																						
2004/05																						
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2007/08																						
2008/09																						
2009/10																						
2010/11																						
2011/12																						
2012/13																						
2013/14																						
2014/15																						
2015/16																						

II. Reported Claim Development

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		
Claim Period																						
to 1/996/97																						
1997/98																						
1998/99																						
1999/00																						
2000/01																						
2001/02																						
2002/03																						
2003/04																						
2004/05																						
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2007/08																						
2008/09																						
2009/10																						
2010/11																						
2011/12																						
2012/13																						
2013/14																						
2014/15																						
2015/16																						
Average All	1,037	1,020	1,006	1,004	1,005	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	1,047	1,029	1,018	1,012	1,015	1,011	1,005	0,999	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	
Last 3	1,046	1,028	1,016	1,011	1,013	1,010	1,004	0,999	1,001	1,001	1,001	1,001	1,000	1,000	1,000	1,001	1,000	1,000	1,000	1,000	1,000	
Last 5 x-tiltlow	1,034	1,013	1,004	1,001	1,003	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
to 1/996/07																				
1997/08																				
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																				
Average																				
All	32.7%	64.7%	74.0%	82.5%	84.6%	85.7%	86.2%	86.3%	86.9%	89.9%	93.7%	95.2%	94.6%	98.0%	98.5%	98.3%	97.9%	96.9%	98.3%	95.9%
Last 3	26.1%	63.1%	79.5%	87.7%	92.1%	92.9%	95.8%	98.0%	98.7%	99.6%	99.8%	99.7%	99.3%	99.3%	99.8%	98.2%	98.2%	96.9%	98.3%	96.9%
Last 5	30.3%	72.5%	86.6%	93.6%	95.2%	97.3%	99.1%	98.3%	99.2%	99.8%	99.8%	99.3%	99.4%	99.3%	99.8%	99.0%	98.2%	96.9%	98.3%	96.9%
x-high																				
Implicit	39.7%	75.3%	80.8%	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 11/30/16 (2)	Limited Paid Losses 11/30/16 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1996/97	240.0	\$10,310,467	96.6%	\$10,671,334
1997/98	228.0	414,671	96.5%	429,614
1998/99	216.0	637,373	96.4%	661,002
1999/00	204.0	831,292	96.3%	862,971
2000/01	192.0	710,937	96.1%	739,505
2001/02	180.0	620,425	95.9%	646,647
2002/03	168.0	899,025	95.7%	939,833
2003/04	156.0	1,006,381	95.3%	1,056,270
2004/05	144.0	1,249,554	94.8%	1,318,056
2005/06	132.0	763,576	94.2%	810,268
2006/07	120.0	925,319	93.7%	987,793
2007/08	108.0	746,248	92.8%	803,802
2008/09	96.0	684,159	91.9%	744,293
2009/10	84.0	697,571	90.6%	770,268
2010/11	72.0	662,184	89.2%	742,161
2011/12	60.0	893,556	86.4%	1,034,526
2012/13	48.0	773,891	83.1%	931,822
2013/14	36.0	591,128	76.2%	775,820
2014/15	24.0	311,265	61.0%	510,645
2015/16	12.0	138,290	22.2%	623,897
Total		\$23,867,312		\$26,060,527

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

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



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

Exhibit WC-HC-Med-4

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/16 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1996/97	240.0	\$10,746,607	100.0%	\$10,746,607
1997/98	228.0	414,671	100.0%	414,671
1998/99	216.0	677,874	100.0%	677,874
1999/00	204.0	831,292	100.0%	831,292
2000/01	192.0	710,937	100.0%	710,937
2001/02	180.0	620,425	100.0%	620,425
2002/03	168.0	919,081	100.0%	919,081
2003/04	156.0	1,330,079	100.0%	1,330,079
2004/05	144.0	1,272,167	99.9%	1,273,439
2005/06	132.0	763,576	99.7%	765,868
2006/07	120.0	925,319	99.5%	929,953
2007/08	108.0	776,900	99.3%	782,353
2008/09	96.0	711,378	99.1%	717,803
2009/10	84.0	775,155	98.6%	786,067
2010/11	72.0	763,380	98.1%	777,997
2011/12	60.0	1,004,144	97.6%	1,028,488
2012/13	48.0	968,634	96.2%	1,006,998
2013/14	36.0	885,954	94.3%	939,464
2014/15	24.0	615,459	80.9%	760,316
2015/16	12.0	1,379,109	55.8%	2,470,370
Total		\$27,092,139		\$28,490,081

(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 11/30/16 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/16 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/16 (6)	Limited Case Reserves 11/30/16 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1996/97	240.0	96.6%	100.0%	100.0%	\$10,310,467	\$436,140	\$10,746,607
1997/98	228.0	96.5%	100.0%	100.0%	414,671	0	414,671
1998/99	216.0	96.4%	100.0%	100.0%	637,373	40,500	677,874
1999/00	204.0	96.3%	100.0%	100.0%	831,292	0	831,292
2000/01	192.0	96.1%	100.0%	100.0%	710,937	0	710,937
2001/02	180.0	95.9%	100.0%	100.0%	620,425	0	620,425
2002/03	168.0	95.7%	100.0%	100.0%	899,025	20,056	919,081
2003/04	156.0	95.3%	100.0%	100.0%	1,006,381	323,698	1,330,079
2004/05	144.0	94.8%	99.9%	98.1%	1,249,554	22,613	1,272,167
2005/06	132.0	94.2%	99.7%	94.8%	763,576	0	763,576
2006/07	120.0	93.7%	99.5%	92.1%	925,319	0	925,319
2007/08	108.0	92.8%	99.3%	90.3%	746,248	30,652	780,205
2008/09	96.0	91.9%	99.1%	88.9%	684,159	27,219	714,770
2009/10	84.0	90.6%	98.6%	85.3%	697,571	77,584	788,535
2010/11	72.0	89.2%	98.1%	82.6%	662,184	101,196	784,749
2011/12	60.0	86.4%	97.6%	82.6%	893,556	110,588	1,027,391
2012/13	48.0	83.1%	96.2%	77.5%	773,891	194,742	1,025,102
2013/14	36.0	76.2%	94.3%	76.1%	591,128	294,825	978,680
2014/15	24.0	61.0%	80.9%	51.2%	311,265	304,194	905,345
2015/16	12.0	22.2%	55.8%	43.2%	138,290	1,240,819	3,007,484
Total					\$23,867,312	\$3,224,827	\$29,224,731

(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 2015/16

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 1996/97	\$10,671,334	\$10,746,607	\$10,746,607	\$10,790,221
1997/98	429,614	414,671	414,671	414,671
1998/99	661,002	677,874	677,874	681,924
1999/00	862,971	831,292	831,292	831,292
2000/01	739,505	710,937	710,937	710,937
2001/02	646,647	620,425	620,425	620,425
2002/03	939,833	919,081	919,081	921,087
2003/04	1,056,270	1,330,079	1,330,079	1,362,448
2004/05	1,318,056	1,273,439	1,272,610	1,274,428
2005/06	810,268	765,868	763,576	763,576
2006/07	987,793	929,953	925,319	925,319
2007/08	803,802	782,353	780,205	780,205
2008/09	744,293	717,803	714,770	715,073
2009/10	770,268	786,067	788,535	788,041
2010/11	742,161	777,997	784,749	782,723
2011/12	1,034,526	1,028,488	1,027,391	1,027,830
2012/13	931,822	1,006,998	1,025,102	1,008,533
2013/14	775,820	939,464	978,680	922,422
2014/15	510,645	760,316	905,345	768,394
2015/16	623,897	2,470,370	3,007,484	2,315,921
<b>Total</b>	<b>\$26,060,527</b>	<b>\$28,490,081</b>	<b>\$29,224,731</b>	<b>\$28,405,469</b>

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

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

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

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



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 (2016/17 = 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)
2006/07	\$925,319	\$448,051	\$0.21	1.446	\$0.30	\$0.17
2007/08	780,205	445,664	0.18	1.368	0.24	0.18
2008/09	715,073	501,624	0.14	1.231	0.18	0.20
2009/10	788,041	526,535	0.15	1.180	0.18	0.21
2010/11	782,723	489,053	0.16	1.163	0.19	0.21
2011/12	1,027,830	515,084	0.20	1.244	0.25	0.20
2012/13	1,008,533	482,783	0.21	1.192	0.25	0.21
2013/14	922,422	482,783	0.19	1.137	0.22	0.22
2014/15	768,394	468,483	0.16	1.083	0.18	0.23
2015/16	2,315,921	497,031	0.47	1.040	0.48	0.24

(7) Projected 2016/17 a-priori loss rate per \$100 of Payroll \$0.25

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/16 (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)
2011/12	\$893,556	86.4%	\$0.20	\$515,084	\$138,393	\$1,031,948
2012/13	773,891	83.1%	0.21	482,783	168,401	942,292
2013/14	591,128	76.2%	0.22	482,783	247,986	839,114
2014/15	311,265	61.0%	0.23	468,483	414,504	725,768
2015/16	138,290	22.2%	0.24	497,031	912,481	1,050,771

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (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)
2011/12	\$1,004,144	97.6%	\$0.20	\$515,084	\$24,039	\$1,028,183
2012/13	968,634	96.2%	0.21	482,783	37,854	1,006,488
2013/14	885,954	94.3%	0.22	482,783	59,334	945,287
2014/15	615,459	80.9%	0.23	468,483	202,261	817,719
2015/16	1,379,109	55.8%	0.24	497,031	517,867	1,896,977

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 11/30/16 (2)	Reported Claims 11/30/16 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2006/07	120.0	318	100.0%	318	\$448,051	0.71
2007/08	108.0	274	100.0%	274	445,664	0.61
2008/09	96.0	280	100.0%	280	501,624	0.56
2009/10	84.0	214	99.9%	214	526,535	0.41
2010/11	72.0	202	99.8%	202	489,053	0.41
2011/12	60.0	169	99.7%	170	515,084	0.33
2012/13	48.0	143	99.6%	144	482,783	0.30
2013/14	36.0	158	99.3%	159	482,783	0.33
2014/15	24.0	155	98.9%	157	468,483	0.34
2015/16	12.0	169	96.5%	175	497,031	0.35

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2016/17 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2016/17 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2006/07	\$925,319	318	\$2,910	1.944	\$5,656	\$3,630	\$1,154,345
2007/08	780,205	274	2,847	1.785	5,084	3,953	1,083,000
2008/09	715,073	280	2,554	1.559	3,981	4,526	1,267,385
2009/10	788,041	214	3,682	1.451	5,344	4,862	1,040,559
2010/11	782,723	202	3,875	1.389	5,381	5,082	1,026,538
2011/12	1,027,830	170	6,046	1.442	8,720	4,893	831,767
2012/13	1,008,533	144	7,004	1.342	9,395	5,260	757,462
2013/14	922,422	159	5,801	1.242	7,207	5,680	903,156
2014/15	768,394	157	4,894	1.148	5,621	6,144	964,684
2015/16	2,315,921	175	13,234	1.071	14,176	6,587	1,152,812

(7) Projected 2016/17 average claim severity

\$7,057

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 2015/16

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 1996/97	\$10,671,334	\$10,746,607	\$10,746,607				\$13,376,473	\$10,790,221
1997/98	429,614	414,671	414,671				427,573	414,671
1998/99	661,002	677,874	677,874				765,000	681,924
1999/00	862,971	831,292	831,292				948,616	831,292
2000/01	739,505	710,937	710,937				835,144	710,937
2001/02	646,647	620,425	620,425				701,979	620,425
2002/03	939,833	919,081	919,081				1,078,000	921,087
2003/04	1,056,270	1,330,079	1,330,079				1,463,000	1,362,448
2004/05	1,318,056	1,273,439	1,272,610				1,444,000	1,274,428
2005/06	810,268	765,868	763,576				877,479	763,576
2006/07	987,793	929,953	925,319				1,033,335	925,319
2007/08	803,802	782,353	780,205				876,000	780,000
2008/09	744,293	717,803	714,770				805,000	720,000
2009/10	770,268	786,067	788,535				788,000	790,000
2010/11	742,161	777,997	784,749				801,000	780,000
2011/12	1,034,526	1,028,488	1,027,391	1,031,948	1,028,183	831,767	1,147,000	1,030,000
2012/13	931,822	1,006,998	1,025,102	942,292	1,006,488	757,462	1,039,000	1,010,000
2013/14	775,820	939,464	978,680	839,114	945,287	903,156	1,317,000	945,000
2014/15	510,645	760,316	905,345	725,768	817,719	964,684	1,300,000	850,000
2015/16	623,897	2,470,370	3,007,484	1,050,771	1,896,977	1,152,812	1,235,000	2,150,000
<b>Total</b>	<b>\$26,060,527</b>	<b>\$28,490,081</b>	<b>\$29,224,731</b>				<b>\$32,258,599</b>	<b>\$28,351,327</b>
2011/12 - 2015/16	3,876,710	6,205,636	6,944,003	4,589,894	5,694,653	4,609,881	6,038,000	5,985,000
to 2010/11	22,183,817	22,284,445	22,280,728				26,220,599	22,366,327
						<b>Change</b>		
						All years		-\$3,907,272
						2011/12 - 2015/16		-53,000
						to 2010/11		-3,854,272

(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 2016/17 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 (2016/17 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2006/07	\$925,319	\$448,051	\$0.21	1.446	\$0.30
2007/08	780,000	445,664	0.18	1.368	0.24
2008/09	720,000	501,624	0.14	1.231	0.18
2009/10	790,000	526,535	0.15	1.180	0.18
2010/11	780,000	489,053	0.16	1.163	0.19
2011/12	1,030,000	515,084	0.20	1.244	0.25
2012/13	1,010,000	482,783	0.21	1.192	0.25
2013/14	945,000	482,783	0.20	1.137	0.22
2014/15	850,000	468,483	0.18	1.083	0.20
2015/16	2,150,000	497,031	0.43	1.040	0.45
<b>Total</b>	<b>\$9,980,319</b>	<b>\$4,857,091</b>	<b>\$0.21</b>		<b>\$0.24</b>

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)
2016/17	\$0.24	\$526,891	\$1,290,000	0.96	\$0.24	\$1,240,000
2017/18	0.25	526,891	1,340,000	0.96	0.24	1,290,000
2018/19	0.26	526,891	1,390,000	0.96	0.25	1,340,000

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

(3) was provided by the County.

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

(7) 2016/17 is based on (6) and actuarial judgment.  
Other period(s) based on 2016/17 plus the trend in Exhibit WC-HC-Med-15.

(8) to 2016/17 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.31% 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, 2016

Claim Period (1)	Limited Paid Losses 11/30/16 (2)	Limited Case Reserves 11/30/16 (3)	Limited Reported Incurred Losses 11/30/16 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/16 (5)-(4) (6)	Estimated Outstanding Losses 11/30/16 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/16 (7)X(8) (9)
to 1996/97	\$10,310,467	\$436,140	\$10,746,607	\$10,790,221	\$43,614	\$479,754	0.97	\$463,029
1997/98	414,671	0	414,671	414,671	0	0	0.95	0
1998/99	637,373	40,500	677,874	681,924	4,050	44,550	0.94	42,005
1999/00	831,292	0	831,292	831,292	0	0	0.93	0
2000/01	710,937	0	710,937	710,937	0	0	0.92	0
2001/02	620,425	0	620,425	620,425	0	0	0.92	0
2002/03	899,025	20,056	919,081	921,087	2,006	22,062	0.91	20,074
2003/04	1,006,381	323,698	1,330,079	1,362,448	32,370	356,068	0.91	322,536
2004/05	1,249,554	22,613	1,272,167	1,274,428	2,261	24,874	0.90	22,466
2005/06	763,576	0	763,576	763,576	0	0	0.90	0
2006/07	925,319	0	925,319	925,319	0	0	0.90	0
2007/08	746,248	30,652	776,900	780,000	3,100	33,752	0.90	30,371
2008/09	684,159	27,219	711,378	720,000	8,622	35,841	0.90	32,263
2009/10	697,571	77,584	775,155	790,000	14,845	92,429	0.90	83,522
2010/11	662,184	101,196	763,380	780,000	16,620	117,816	0.90	106,573
2011/12	893,556	110,588	1,004,144	1,030,000	25,856	136,444	0.91	124,699
2012/13	773,891	194,742	968,634	1,010,000	41,366	236,108	0.92	217,225
2013/14	591,128	294,825	885,954	945,000	59,046	353,871	0.93	330,063
2014/15	311,265	304,194	615,459	850,000	234,541	538,735	0.95	511,311
2015/16	138,290	1,240,819	1,379,109	2,150,000	770,891	2,011,710	0.97	1,941,451
<b>Total</b>	<b>\$23,867,312</b>	<b>\$3,224,827</b>	<b>\$27,092,139</b>	<b>\$28,351,327</b>	<b>\$1,259,188</b>	<b>\$4,484,014</b>		<b>\$4,247,588</b>

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

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

(8) is based on a 1.31% interest rate and the payout pattern in Exhibit WC-HC-Med-2.



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

Exhibit WC-HC-Med-12

Projected Losses Paid December 1, 2016 to November 30, 2017

Claim Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Months of Development 11/30/17 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/16 to 11/30/17 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/16 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/17 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/17 (9)X(10) (11)
to 1996/97	240.0	96.6%	252.0	97.6%	30.0%	\$479,754	\$143,926	\$335,828	0.97	\$324,229
1997/98	228.0	96.5%	240.0	96.6%	2.8%	0	0	0	0.97	0
1998/99	216.0	96.4%	228.0	96.5%	2.7%	44,550	1,202	43,348	0.95	41,345
1999/00	204.0	96.3%	216.0	96.4%	2.6%	0	0	0	0.94	0
2000/01	192.0	96.1%	204.0	96.3%	5.0%	0	0	0	0.93	0
2001/02	180.0	95.9%	192.0	96.1%	4.7%	0	0	0	0.92	0
2002/03	168.0	95.7%	180.0	95.9%	6.6%	22,062	1,458	20,604	0.92	18,870
2003/04	156.0	95.3%	168.0	95.7%	8.1%	356,068	28,731	327,337	0.91	297,843
2004/05	144.0	94.8%	156.0	95.3%	9.1%	24,874	2,269	22,605	0.91	20,476
2005/06	132.0	94.2%	144.0	94.8%	9.8%	0	0	0	0.90	0
2006/07	120.0	93.7%	132.0	94.2%	8.9%	0	0	0	0.90	0
2007/08	108.0	92.8%	120.0	93.7%	11.7%	33,752	3,939	29,813	0.90	26,804
2008/09	96.0	91.9%	108.0	92.8%	11.4%	35,841	4,078	31,763	0.90	28,581
2009/10	84.0	90.6%	96.0	91.9%	14.4%	92,429	13,304	79,125	0.90	71,226
2010/11	72.0	89.2%	84.0	90.6%	12.4%	117,816	14,632	103,184	0.90	93,241
2011/12	60.0	86.4%	72.0	89.2%	20.9%	136,444	28,541	107,903	0.90	97,606
2012/13	48.0	83.1%	60.0	86.4%	19.6%	236,108	46,279	189,829	0.91	173,489
2013/14	36.0	76.2%	48.0	83.1%	28.8%	353,871	101,934	251,937	0.92	231,788
2014/15	24.0	61.0%	36.0	76.2%	39.0%	538,735	210,263	328,472	0.93	306,373
2015/16	12.0	22.2%	24.0	61.0%	49.8%	2,011,710	1,002,557	1,009,153	0.95	957,782
2016/17	0.0	0.0%	12.0	22.2%	22.2%	1,290,000	285,935	1,004,065	0.97	968,998
Total						\$5,774,014	\$1,889,048	\$3,884,966		\$3,658,651

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

(7) to 2015/16 is from Exhibit WC-HC-Med-11. The amount for 2016/17 is from Exhibit WC-HC-Med-10.

(10) is based on a 1.31% 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 1996/97	252.0	97.6%	264.0	98.3%	30.0%	\$335,828	\$100,748	\$235,080	0.97	\$227,070
1997/98	240.0	96.6%	252.0	97.6%	30.0%	0	0	0	0.97	0
1998/99	228.0	96.5%	240.0	96.6%	2.8%	43,348	1,203	42,145	0.97	40,676
1999/00	216.0	96.4%	228.0	96.5%	2.7%	0	0	0	0.95	0
2000/01	204.0	96.3%	216.0	96.4%	2.6%	0	0	0	0.94	0
2001/02	192.0	96.1%	204.0	96.3%	5.0%	0	0	0	0.93	0
2002/03	180.0	95.9%	192.0	96.1%	4.7%	20,604	975	19,629	0.92	18,135
2003/04	168.0	95.7%	180.0	95.9%	6.6%	327,337	21,634	305,703	0.92	279,970
2004/05	156.0	95.3%	168.0	95.7%	8.1%	22,605	1,824	20,781	0.91	18,909
2005/06	144.0	94.8%	156.0	95.3%	9.1%	0	0	0	0.91	0
2006/07	132.0	94.2%	144.0	94.8%	9.8%	0	0	0	0.90	0
2007/08	120.0	93.7%	132.0	94.2%	8.9%	29,813	2,649	27,164	0.90	24,489
2008/09	108.0	92.8%	120.0	93.7%	11.7%	31,763	3,707	28,056	0.90	25,224
2009/10	96.0	91.9%	108.0	92.8%	11.4%	79,125	9,002	70,123	0.90	63,098
2010/11	84.0	90.6%	96.0	91.9%	14.4%	103,184	14,852	88,332	0.90	79,514
2011/12	72.0	89.2%	84.0	90.6%	12.4%	107,903	13,401	94,502	0.90	85,396
2012/13	60.0	86.4%	72.0	89.2%	20.9%	189,829	39,707	150,122	0.90	135,795
2013/14	48.0	83.1%	60.0	86.4%	19.6%	251,937	49,382	202,555	0.91	185,120
2014/15	36.0	76.2%	48.0	83.1%	28.8%	328,472	94,618	233,854	0.92	215,151
2015/16	24.0	61.0%	36.0	76.2%	39.0%	1,009,153	393,862	615,291	0.93	573,895
2016/17	12.0	22.2%	24.0	61.0%	49.8%	1,004,065	500,387	503,678	0.95	478,038
2017/18	0.0	0.0%	12.0	22.2%	22.2%	1,340,000	297,018	1,042,982	0.97	1,006,556
<b>Total</b>						<b>\$5,224,966</b>	<b>\$1,544,969</b>	<b>\$3,679,997</b>		<b>\$3,457,036</b>

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

(7) to 2016/17 is from Exhibit WC-HC-Med-12, (9). The amount for 2017/18 is from Exhibit WC-HC-Med-10.

(10) is based on a 1.31% interest rate and the payout pattern in Exhibit WC-HC-Med-2.



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

Exhibit WC-HC-Med-14

Projected Losses Paid December 1, 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 1996/97	264.0	98.3%	276.0	98.8%	30.0%	\$235,080	\$70,524	\$164,556	0.97	\$159,060
1997/98	252.0	97.6%	264.0	98.3%	30.0%	0	0	0	0.97	0
1998/99	240.0	96.6%	252.0	97.6%	30.0%	42,145	12,644	29,501	0.97	28,482
1999/00	228.0	96.5%	240.0	96.6%	2.8%	0	0	0	0.97	0
2000/01	216.0	96.4%	228.0	96.5%	2.7%	0	0	0	0.95	0
2001/02	204.0	96.3%	216.0	96.4%	2.6%	0	0	0	0.94	0
2002/03	192.0	96.1%	204.0	96.3%	5.0%	19,629	977	18,652	0.93	17,390
2003/04	180.0	95.9%	192.0	96.1%	4.7%	305,703	14,466	291,237	0.92	269,077
2004/05	168.0	95.7%	180.0	95.9%	6.6%	20,781	1,373	19,408	0.92	17,774
2005/06	156.0	95.3%	168.0	95.7%	8.1%	0	0	0	0.91	0
2006/07	144.0	94.8%	156.0	95.3%	9.1%	0	0	0	0.91	0
2007/08	132.0	94.2%	144.0	94.8%	9.8%	27,164	2,665	24,499	0.90	22,127
2008/09	120.0	93.7%	132.0	94.2%	8.9%	28,056	2,493	25,563	0.90	23,045
2009/10	108.0	92.8%	120.0	93.7%	11.7%	70,123	8,183	61,940	0.90	55,688
2010/11	96.0	91.9%	108.0	92.8%	11.4%	88,332	10,050	78,282	0.90	70,440
2011/12	84.0	90.6%	96.0	91.9%	14.4%	94,502	13,602	80,900	0.90	72,824
2012/13	72.0	89.2%	84.0	90.6%	12.4%	150,122	18,644	131,478	0.90	118,809
2013/14	60.0	86.4%	72.0	89.2%	20.9%	202,555	42,369	160,186	0.90	144,899
2014/15	48.0	83.1%	60.0	86.4%	19.6%	233,854	45,837	188,017	0.91	171,833
2015/16	36.0	76.2%	48.0	83.1%	28.8%	615,291	177,238	438,053	0.92	403,018
2016/17	24.0	61.0%	36.0	76.2%	39.0%	503,678	196,580	307,098	0.93	286,437
2017/18	12.0	22.2%	24.0	61.0%	49.8%	1,042,982	519,781	523,201	0.95	496,567
2018/19	0.0	0.0%	12.0	22.2%	22.2%	1,390,000	308,101	1,081,899	0.97	1,044,114
<b>Total</b>						<b>\$5,069,997</b>	<b>\$1,445,527</b>	<b>\$3,624,470</b>		<b>\$3,401,584</b>

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

(7) to 2017/18 is from Exhibit WC-HC-Med-13, (9). The amount for 2018/19 is from Exhibit WC-HC-Med-10.

(10) is based on a 1.31% 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)
01/01/07	1.026	1.026
01/01/08	1.018	1.044
01/01/09	1.029	1.075
02/01/09	1.048	1.126
01/01/10	0.992	1.117
01/01/11	1.015	1.134
09/01/11	0.853	0.967
01/01/12	1.015	0.982
11/20/12	0.994	0.976
01/01/13	1.009	0.985
01/01/14	1.008	0.993
01/01/15	1.010	1.003

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2016/17 = 1.000) (2)	Residual Trend (2016/17 = 1.000) (3)	Retention Index (2016/17 = 1.000) (4)	Loss Rate Trend (2016/17 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2016/17 = 1.000) (6)	Severity Trend (2016/17 = 1.000) (5)X(6) (7)
2006/07	0.977	1.480	1.000	1.446	1.344	1.944
2007/08	0.961	1.423	1.000	1.368	1.305	1.785
2008/09	0.899	1.369	1.000	1.231	1.267	1.559
2009/10	0.897	1.316	1.000	1.180	1.230	1.451
2010/11	0.919	1.265	1.000	1.163	1.194	1.389
2011/12	1.023	1.217	1.000	1.244	1.159	1.442
2012/13	1.019	1.170	1.000	1.192	1.126	1.342
2013/14	1.011	1.125	1.000	1.137	1.093	1.242
2014/15	1.001	1.082	1.000	1.083	1.061	1.148
2015/16	1.000	1.040	1.000	1.040	1.030	1.071
2016/17	1.000	1.000	1.000	1.000	1.000	1.000
2017/18	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 11/30/16 (5)	Unlimited Case Reserves 11/30/16 (6)	Unlimited Reported Incurred Losses 11/30/16 (7)
894134	7/23/1991	to 1996/97	Unlimited	\$1,105,204	\$94,796	\$1,200,000

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)	2011/12 (3)	2012/13 (4)	2013/14 (5)	2014/15 (6)	2015/16 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	7,142	100	84	91	81	40	7,538		
0.01 - 5,000	3,449	39	33	35	44	84	3,684	3,684	80.4%
5,000 - 10,000	280	11	4	8	12	11	326	4,010	87.5%
10,000 - 25,000	277	11	10	11	12	10	331	4,341	94.7%
25,000 - 50,000	113	1	7	12	4	21	158	4,499	98.2%
50,000 - 100,000	44	5	4	0	2	3	58	4,557	99.5%
100,000 - 250,000	15	2	1	1	0	0	19	4,576	99.9%
250,000 - 500,000	3	0	0	0	0	0	3	4,579	99.9%
500,000 - 750,000	2	0	0	0	0	0	2	4,581	100.0%
750,000 - 1,000,000	0	0	0	0	0	0	0	4,581	100.0%
Over 1,000,000	1	0	0	0	0	0	1	4,582	100.0%
<b>Total</b>	<b>11,326</b>	<b>169</b>	<b>143</b>	<b>158</b>	<b>155</b>	<b>169</b>	<b>12,120</b>	<b>4,582</b>	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2011/12 (3)	2012/13 (4)	2013/14 (5)	2014/15 (6)	2015/16 (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	3,407,686	40,856	38,762	57,272	93,596	168,178	3,806,350	3,806,350	14.0%
5,000 - 10,000	2,020,527	72,261	29,667	55,884	80,784	93,070	2,352,194	6,158,544	22.7%
10,000 - 25,000	4,400,367	175,676	170,514	191,622	194,293	212,362	5,344,834	11,503,378	42.5%
25,000 - 50,000	3,999,871	39,762	250,852	431,175	126,357	731,000	5,579,018	17,082,396	63.1%
50,000 - 100,000	2,960,638	339,196	288,537	0	120,428	174,500	3,883,300	20,965,695	77.4%
100,000 - 250,000	1,987,959	336,392	190,301	150,000	0	0	2,664,652	23,630,347	87.2%
250,000 - 500,000	1,123,840	0	0	0	0	0	1,123,840	24,754,187	91.4%
500,000 - 750,000	1,137,952	0	0	0	0	0	1,137,952	25,892,139	95.6%
750,000 - 1,000,000	0	0	0	0	0	0	0	25,892,139	95.6%
Over 1,000,000	1,200,000	0	0	0	0	0	1,200,000	27,092,139	100.0%
<b>Total</b>	<b>\$22,238,840</b>	<b>\$1,004,144</b>	<b>\$968,634</b>	<b>\$885,954</b>	<b>\$615,459</b>	<b>\$1,379,109</b>	<b>\$27,092,139</b>	<b>\$27,092,139</b>	

Amounts are gross of excess insurance.

Data was provided by the County.



COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Data Summary as of November 30, 2016  
 Losses Limited to Self-Insured Retention

Occurrence Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Limited Paid Losses 11/30/16 (8)	Limited Case Reserves 11/30/16 (9)	Limited Reported Incurred Losses 11/30/16 (10)
to 1996/97	See Note	None	240.0	Not Provided	9	0	\$8,258,600	\$0	\$8,258,600
1997/98	Unlimited	None	228.0	Not Provided	3	0	503,400	0	503,400
1998/99	Unlimited	None	216.0	Not Provided	2	0	50,000	0	50,000
1999/00	Unlimited	None	204.0	Not Provided	4	0	2,250,000	0	2,250,000
2000/01	10,000,000	25,000,000	192.0	Not Provided	11	0	950,000	0	950,000
2001/02	15,000,000	50,000,000	180.0	Not Provided	21	0	1,213,000	0	1,213,000
2002/03	20,000,000	80,000,000	168.0	Not Provided	10	0	22,000	0	22,000
2003/04	20,000,000	None	156.0	813	12	0	3,408,500	0	3,408,500
2004/05	20,000,000	None	144.0	775	12	0	18,000	0	18,000
2005/06	20,000,000	None	132.0	752	22	0	1,028,000	0	1,028,000
2006/07	20,000,000	None	120.0	625	16	0	16,100	0	16,100
2007/08	20,000,000	None	108.0	Not Provided	11	0	1,125,000	0	1,125,000
2008/09	20,000,000	None	96.0	Not Provided	0	0	0	0	0
2009/10	40,000,000	None	84.0	Not Provided	3	0	1,310,000	0	1,310,000
2010/11	40,000,000	None	72.0	Not Provided	1	0	3,000	0	3,000
2011/12	40,000,000	None	60.0	959	2	0	10,000	0	10,000
2012/13	30,000,000	None	48.0	892	7	0	0	0	0
2013/14	30,000,000	None	36.0	892	0	0	0	0	0
2014/15	25,000,000	80,000,000	24.0	912	2	2	0	200,000	200,000
2015/16	25,000,000	80,000,000 *	12.0	999	1	1	0	50,000	50,000
<b>Total</b>					<b>149</b>	<b>3</b>	<b>\$20,165,600</b>	<b>\$250,000</b>	<b>\$20,415,600</b>

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

\* 2015/16 aggregate effective 7/1/15.

(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, 2016  
 Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Unlimited Paid Losses 11/30/16 (8)	Unlimited Case Reserves 11/30/16 (9)	Unlimited Reported Incurred Losses 11/30/16 (10)
to 1996/97	Unlimited	None	240.0	Not Provided	9	0	\$8,258,600	\$0	\$8,258,600
1997/98	Unlimited	None	228.0	Not Provided	3	0	503,400	0	503,400
1998/99	Unlimited	None	216.0	Not Provided	2	0	50,000	0	50,000
1999/00	Unlimited	None	204.0	Not Provided	4	0	2,250,000	0	2,250,000
2000/01	Unlimited	25,000,000	192.0	Not Provided	11	0	950,000	0	950,000
2001/02	Unlimited	50,000,000	180.0	Not Provided	21	0	1,213,000	0	1,213,000
2002/03	Unlimited	80,000,000	168.0	Not Provided	10	0	22,000	0	22,000
2003/04	Unlimited	None	156.0	813	12	0	3,408,500	0	3,408,500
2004/05	Unlimited	None	144.0	775	12	0	18,000	0	18,000
2005/06	Unlimited	None	132.0	752	22	0	1,028,000	0	1,028,000
2006/07	Unlimited	None	120.0	625	16	0	16,100	0	16,100
2007/08	Unlimited	None	108.0	Not Provided	11	0	1,125,000	0	1,125,000
2008/09	Unlimited	None	96.0	Not Provided	0	0	0	0	0
2009/10	Unlimited	None	84.0	Not Provided	3	0	1,310,000	0	1,310,000
2010/11	Unlimited	None	72.0	Not Provided	1	0	3,000	0	3,000
2011/12	Unlimited	None	60.0	959	2	0	10,000	0	10,000
2012/13	Unlimited	None	48.0	892	7	0	0	0	0
2013/14	Unlimited	None	36.0	892	0	0	0	0	0
2014/15	Unlimited	80,000,000	24.0	912	2	2	0	200,000	200,000
2015/16	Unlimited	80,000,000	12.0	999	1	1	0	50,000	50,000
<b>Total</b>					<b>149</b>	<b>3</b>	<b>\$20,165,600</b>	<b>\$250,000</b>	<b>\$20,415,600</b>

(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).



COOK COUNTY, ILLINOIS  
MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

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	
10/1996/97																					
1997/98	4	7	172	4,517	7,992	15,987	19,217	22,987	25,717	29,592	32,242	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842	
1998/99	0	0	0	0	2,205	3,980	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	
1999/00	0	12,065	12,065	17,115	17,650	23,630	27,830	37,830	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	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	
2001/02	0	0	30	9,351	12,349	16,054	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	4,988	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,316	
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	528	6,778	9,908	9,908	11,533	11,603	11,603	11,603	11,603	11,603	11,603	11,603	11,603	11,603	11,603	11,603	11,603	
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	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	
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	0	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	5,168	
2011/12	0	20,100	20,825	24,390	26,195																
2012/13	0	850	850	2,330																	
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																				

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	
10/1996/97																					
1997/98	1,971	24,913	26,276	1,769	1,998	1,204	1,195	1,120	1,151	1,093	1,046	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
1998/99		1,000	1,419	1,031	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			3,532	1,898	4,212	1,068	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			311,700	1,321	1,300	1,561	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	
2002/03	1,150	109,565	1,002	2,572	1,382	1,089	1,028	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	1,095	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	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2005/06		103,000	1,023	12,837	1,361	1,074	1,164	1,006	1,053	1,018	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2006/07		1,000	1,621	77,245	1,000	2,364	1,000	1,000	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	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	
2008/09		1,000	1,290	1,000	1,396	1,170	1,582	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2009/10				3,302	1,364	1,073															
2010/11				1,712	1,059																
2011/12		1,036	1,171	1,074																	
2012/13		1,000	2,741																		
2013/14																					
2014/15																					
2015/16																					
Average All	1,561	130,300	36,225	8,013	1,625	1,236	1,130	1,025	1,287	1,012	1,006	1,000	1,000	1,000	1,000	1,000	1,246	1,000	1,000	1,000	
Wtd 3		1,035	1,364	1,310	1,276	1,065	1,164	1,003	1,371	1,007	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Last 3				2,029	1,273	1,081	1,194	1,002	1,363	1,006	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Last 5				1,475	1,273	1,106	1,055	1,000	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-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	1,022,717	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 1/996/97																						
1997/98	7,954	13,007	19,422	30,967	33,617	33,617	33,617	34,067	33,667	32,767	32,942	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842	
1998/99	1,500	17,850	20,160	17,620	16,230	16,230	15,975	15,925	13,275	11,175	11,175	11,175	11,175	11,175	14,175	14,175	14,175	14,175	14,175	14,175	14,175	
1999/00	15,495	25,610	35,730	44,165	46,475	46,530	40,930	46,530	46,225	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	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	11,706	
2001/02	33,740	25,655	29,908	24,761	25,134	21,305	25,861	25,861	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	26,711	16,022	5,770	8,413	8,248	6,248	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	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	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	19,715	
2005/06	14,276	35,957	22,631	24,828	17,228	16,758	13,858	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	
2006/07	11,046	13,126	8,721	5,787	4,726	5,496	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	4,766	
2007/08	24,827	12,544	17,152	18,477	12,927	10,005	8,255	8,405	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	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	
2009/10	5,095	8,253	15,550	16,368	13,503	12,388	11,203															
2010/11	770	3,900	8,530	11,105	10,183	10,673																
2011/12	23,923	34,253	39,927	39,455	39,045																	
2012/13	6,925	12,000	29,150	39,255																		
2013/14	1,560	7,155	6,400																			
2014/15	7,000	8,225																				
2015/16	5,190																					

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 1/996/97																						
1997/98	1,769	1,493	1,594	1,086	0,999	0,997	1,016	0,988	0,973	1,005	1,027	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
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	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
1999/00	1,666	1,364	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	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	1,000	
2001/02	0,600	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	1,000	
2002/03	0,600	0,360	1,458	0,980	0,823	0,838	0,938	0,996	1,000	1,000	1,000	1,000	1,000	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	0,961	0,995	1,000	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	0,981	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	1,000	
2005/06	2,519	0,629	1,097	0,694	0,973	0,827	1,126	1,641	1,000	0,938	1,000	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	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	0,894	0,771	1,000	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	1,316	1,419	1,049	0,932	1,047	0,825	1,018															
2009/10	1,620	1,884	1,053	0,825	0,917	0,904																
2010/11	5,065	2,187	1,302	1,007	0,954																	
2011/12	1,432	1,166	0,988	0,990																		
2012/13	1,733	2,429	1,347																			
2013/14	4,587	0,894																				
2014/15	1,175																					
2015/16																						

Average All  
Wtd 3  
Last 3  
Last 5  
x-tillow

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	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	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	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%	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

I. Historical Reported Claims

Claim Period	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1/996/97																					
1997/98	12	24	27	27	27	27	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
1998/99	9	40	43	46	47	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
1999/00	12	32	37	38	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
2000/01	76	94	102	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
2001/02	99	129	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
2002/03	87	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
2003/04	89	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129
2004/05	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
2005/06	82	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
2006/07	55	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
2007/08	31	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2008/09	31	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
2009/10	32	32	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2010/11	31	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
2011/12	35	36	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
2012/13	40	41	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
2013/14	33	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2014/15	29	31																			
2015/16	34																				

II. 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 1/996/97																				
1997/98	2,000	1,125	1,000	1,000	1,074	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
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	1,000	1,000	1,000	1,000	1,000	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																		
2014/15	1,069																			
2015/16																				
Average All	1,456	1,036	1,008	1,003	1,007	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Wtd 3	1,039	1,027	1,000	1,000	1,000	1,000	1,000	1,000	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	1,041	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
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%

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 1/996/07																						
1997/08	0.0%	0.1%	0.9%	14.6%	23.8%	47.5%	57.3%	67.4%	76.4%	90.3%	98.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1998/09	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%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1999/00	0.0%	4.7%	33.6%	38.6%	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%	68.1%	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%	78.1%	78.1%	96.1%	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%	2.1%	39.3%	55.1%	71.5%	73.9%	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%	
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%	100.0%	100.0%	100.0%	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	0.0%	58.7%	52.2%	61.8%	67.1%	48.4%	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%	
2012/13	0.0%	7.1%	2.9%	5.9%																		
2013/14	0.0%	0.0%	0.0%																			
2014/15	0.0%	0.0%	0.0%																			
2015/16	1.7%																					
Average																						
All	0.1%	6.4%	8.4%	20.0%	42.5%	55.0%	75.3%	82.5%	82.2%	98.2%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Last 3	0.6%	2.5%	18.4%	31.1%	55.8%	58.9%	79.9%	99.0%	81.8%	97.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Last 5	0.0%	2.5%	1.0%	23.5%	49.0%	53.8%	78.4%	97.3%	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%	98.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	



COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-3

Developed Limited Paid Losses

Occurrence Period (1)	Months of Development 11/30/16 (2)	Limited Paid Losses 11/30/16 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1996/97	240.0	\$8,258,600	100.0%	\$8,258,600
1997/98	228.0	503,400	100.0%	503,400
1998/99	216.0	50,000	100.0%	50,000
1999/00	204.0	2,250,000	100.0%	2,250,000
2000/01	192.0	950,000	100.0%	950,000
2001/02	180.0	1,213,000	100.0%	1,213,000
2002/03	168.0	22,000	100.0%	22,000
2003/04	156.0	3,408,500	100.0%	3,408,500
2004/05	144.0	18,000	100.0%	18,000
2005/06	132.0	1,028,000	98.0%	1,048,560
2006/07	120.0	16,100	94.3%	17,079
2007/08	108.0	1,125,000	89.8%	1,253,070
2008/09	96.0	0	80.2%	0
2009/10	84.0	1,310,000	67.9%	1,928,387
2010/11	72.0	3,000	56.6%	5,299
2011/12	60.0	10,000	28.3%	35,329
2012/13	48.0	0	10.9%	0
2013/14	36.0	0	2.2%	0
2014/15	24.0	0	0.0%	0
2015/16	12.0	0	0.0%	0
Total		\$20,165,600		\$20,961,224

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

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



COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-4

Developed Limited Reported Incurred Losses

Occurrence Period (1)	Months of Development 11/30/16 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1996/97	240.0	\$8,258,600	100.0%	\$8,258,600
1997/98	228.0	503,400	100.0%	503,400
1998/99	216.0	50,000	100.0%	50,000
1999/00	204.0	2,250,000	100.0%	2,250,000
2000/01	192.0	950,000	100.0%	950,000
2001/02	180.0	1,213,000	100.0%	1,213,000
2002/03	168.0	22,000	100.0%	22,000
2003/04	156.0	3,408,500	100.0%	3,408,500
2004/05	144.0	18,000	100.0%	18,000
2005/06	132.0	1,028,000	100.0%	1,028,000
2006/07	120.0	16,100	100.0%	16,100
2007/08	108.0	1,125,000	99.0%	1,136,250
2008/09	96.0	0	97.1%	0
2009/10	84.0	1,310,000	95.2%	1,376,553
2010/11	72.0	3,000	93.3%	3,215
2011/12	60.0	10,000	88.9%	11,254
2012/13	48.0	0	82.7%	0
2013/14	36.0	0	75.1%	0
2014/15	24.0	200,000	60.1%	332,700
2015/16	12.0	50,000	37.6%	133,080
Total		\$20,415,600		\$20,710,652

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

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

Developed Limited Case Reserves

Occurrence Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/16 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/16 (6)	Limited Case Reserves 11/30/16 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1996/97	240.0	100.0%	100.0%	100.0%	\$8,258,600	\$0	\$8,258,600
1997/98	228.0	100.0%	100.0%	100.0%	503,400	0	503,400
1998/99	216.0	100.0%	100.0%	100.0%	50,000	0	50,000
1999/00	204.0	100.0%	100.0%	100.0%	2,250,000	0	2,250,000
2000/01	192.0	100.0%	100.0%	100.0%	950,000	0	950,000
2001/02	180.0	100.0%	100.0%	100.0%	1,213,000	0	1,213,000
2002/03	168.0	100.0%	100.0%	100.0%	22,000	0	22,000
2003/04	156.0	100.0%	100.0%	100.0%	3,408,500	0	3,408,500
2004/05	144.0	100.0%	100.0%	100.0%	18,000	0	18,000
2005/06	132.0	98.0%	100.0%	100.0%	1,028,000	0	1,028,000
2006/07	120.0	94.3%	100.0%	100.0%	16,100	0	16,100
2007/08	108.0	89.8%	99.0%	90.3%	1,125,000	0	1,125,000
2008/09	96.0	80.2%	97.1%	85.2%	0	0	0
2009/10	84.0	67.9%	95.2%	84.9%	1,310,000	0	1,310,000
2010/11	72.0	56.6%	93.3%	84.6%	3,000	0	3,000
2011/12	60.0	28.3%	88.9%	84.5%	10,000	0	10,000
2012/13	48.0	10.9%	82.7%	80.5%	0	0	0
2013/14	36.0	2.2%	75.1%	74.6%	0	0	0
2014/15	24.0	0.0%	60.1%	60.1%	0	200,000	332,740
2015/16	12.0	0.0%	37.6%	37.6%	0	50,000	133,100
<b>Total</b>					<b>\$20,165,600</b>	<b>\$250,000</b>	<b>\$20,631,440</b>

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

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

Preliminary Projected Ultimate Limited Losses to 2015/16

Occurrence 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 1996/97	\$8,258,600	\$8,258,600	\$8,258,600	\$8,258,600
1997/98	503,400	503,400	503,400	503,400
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	1,213,000	1,213,000	1,213,000	1,213,000
2002/03	22,000	22,000	22,000	22,000
2003/04	3,408,500	3,408,500	3,408,500	3,408,500
2004/05	18,000	18,000	18,000	18,000
2005/06	1,048,560	1,028,000	1,028,000	1,028,000
2006/07	17,079	16,100	16,100	16,100
2007/08	1,253,070	1,136,250	1,125,000	1,125,000
2008/09	0	0	0	0
2009/10	1,928,387	1,376,553	1,310,000	1,310,000
2010/11	5,299	3,215	3,000	3,000
2011/12	35,329	11,254	10,000	10,000
2012/13	0	0	0	0
2013/14	0	0	0	0
2014/15	0	332,700	332,740	266,176
2015/16	0	133,080	133,100	106,472
<b>Total</b>	<b>\$20,961,224</b>	<b>\$20,710,652</b>	<b>\$20,631,440</b>	<b>\$20,538,248</b>

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

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

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

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



Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Occurrence 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 (2016/17 = 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)
2006/07	\$16,100	625	\$25.77	1.495	\$38.53	\$390.05
2007/08	1,125,000	792	1,420.74	1.438	2,042.38	405.65
2008/09	0	792	0.00	1.382	0.00	421.88
2009/10	1,310,000	792	1,654.37	1.295	2,142.40	450.30
2010/11	3,000	792	3.79	1.234	4.68	472.39
2011/12	10,000	959	10.43	1.187	12.38	491.28
2012/13	0	892	0.00	1.154	0.00	505.28
2013/14	0	892	0.00	1.114	0.00	523.59
2014/15	266,176	912	291.91	1.075	313.91	542.26
2015/16	106,472	999	106.58	1.040	110.84	560.71

(7) Projected 2016/17 a-priori loss rate per Occupied Bed Equivalent \$583.14

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Occurrence Period (1)	Limited Paid Losses 11/30/16 (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)
2011/12	\$10,000	28.3%	\$491.28	959	\$337,778	\$347,778
2012/13	0	10.9%	505.28	892	401,514	401,514
2013/14	0	2.2%	523.59	892	456,732	456,732
2014/15	0	0.0%	542.26	912	494,371	494,371
2015/16	0	0.0%	560.71	999	560,090	560,090

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

Occurrence Period (1)	Limited Reported Incurred Losses 11/30/16 (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)
2011/12	\$10,000	88.9%	\$491.28	959	\$52,501	\$62,501
2012/13	0	82.7%	505.28	892	78,141	78,141
2013/14	0	75.1%	523.59	892	116,057	116,057
2014/15	200,000	60.1%	542.26	912	197,219	397,219
2015/16	50,000	37.6%	560.71	999	349,688	399,688

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

Occurrence Period (1)	Months of Development 11/30/16 (2)	Reported Claims 11/30/16 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2006/07	120.0	16	100.0%	16	625	0.03
2007/08	108.0	11	100.0%	11	792	0.01
2008/09	96.0	0	100.0%	0	792	0.00
2009/10	84.0	3	100.0%	3	792	0.00
2010/11	72.0	1	100.0%	1	792	0.00
2011/12	60.0	2	100.0%	2	959	0.00
2012/13	48.0	7	100.0%	7	892	0.01
2013/14	36.0	0	99.0%	0	892	0.00
2014/15	24.0	2	96.1%	2	912	0.00
2015/16	12.0	1	81.8%	1	999	0.00

II. Frequency Times Severity

Occurrence Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2016/17 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2016/17 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2006/07	\$16,100	16	\$1,006	1.495	\$1,504	\$81,728	\$1,307,646
2007/08	1,125,000	11	102,273	1.438	147,022	84,997	934,967
2008/09	0	0	0	1.382	0	88,397	0
2009/10	1,310,000	3	436,667	1.295	565,481	94,353	283,060
2010/11	3,000	1	3,000	1.234	3,703	98,980	98,980
2011/12	10,000	2	5,000	1.187	5,935	102,940	205,879
2012/13	0	7	0	1.154	0	105,872	741,107
2013/14	0	0	0	1.114	0	109,710	0
2014/15	266,176	2	133,088	1.075	143,120	113,622	227,244
2015/16	106,472	1	106,472	1.040	110,731	117,488	117,488
						(7) Projected 2016/17 average claim severity \$122,187	

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

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

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

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

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

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

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

Projected Ultimate Limited Losses to 2015/16

Occurrence 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 1996/97	\$8,258,600	\$8,258,600	\$8,258,600				\$8,258,600	\$8,258,600
1997/98	503,400	503,400	503,400				503,400	503,400
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	1,213,000	1,213,000	1,213,000				1,213,000	1,213,000
2002/03	22,000	22,000	22,000				22,000	22,000
2003/04	3,408,500	3,408,500	3,408,500				3,408,500	3,408,500
2004/05	18,000	18,000	18,000				18,000	18,000
2005/06	1,048,560	1,028,000	1,028,000				1,028,000	1,028,000
2006/07	17,079	16,100	16,100				16,100	16,100
2007/08	1,253,070	1,136,250	1,125,000				1,125,000	1,125,000
2008/09	0	0	0				0	0
2009/10	1,928,387	1,376,553	1,310,000				2,000,000	1,310,000
2010/11	5,299	3,215	3,000				500,000	100,000
2011/12	35,329	11,254	10,000	347,778	62,501	205,879	750,000	250,000
2012/13	0	0	0	401,514	78,141	741,107	1,250,000	250,000
2013/14	0	0	0	456,732	116,057		1,500,000	250,000
2014/15	0	332,700	332,740	494,371	397,219	227,244	1,750,000	1,000,000
2015/16	0	133,080	133,100	560,090	399,688	117,488	1,184,000	1,000,000
<b>Total</b>	<b>\$20,961,224</b>	<b>\$20,710,652</b>	<b>\$20,631,440</b>				<b>\$27,776,600</b>	<b>\$23,002,600</b>
2011/12 - 2015/16	35,329	477,034	475,840	2,260,485	1,053,607	1,291,718	6,434,000	2,750,000
to 2010/11	20,925,895	20,233,619	20,155,600				21,342,600	20,252,600
						<b>Change</b>		
						All years		-\$4,774,000
						2011/12 - 2015/16		-3,684,000
						to 2010/11		-1,090,000

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

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

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

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

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

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

Projected Ultimate Limited Losses for 2016/17 and Subsequent

Occurrence Period (1)	Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2016/17 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2006/07	\$16,100	625	\$25.77	1.495	\$38.53
2007/08	1,125,000	792	1,420.74	1.438	2,042.38
2008/09	0	792	0.00	1.382	0.00
2009/10	1,310,000	792	1,654.37	1.295	2,142.40
2010/11	100,000	792	126.29	1.234	155.90
2011/12	250,000	959	260.69	1.187	309.44
2012/13	250,000	892	280.36	1.154	323.56
2013/14	250,000	892	280.36	1.114	312.24
2014/15	1,000,000	912	1,096.68	1.075	1,179.35
2015/16	1,000,000	999	1,001.02	1.040	1,041.06
<b>Total</b>	<b>\$5,301,100</b>	<b>8,445</b>	<b>\$627.70</b>		<b>\$754.48</b>

Occurrence 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)
2016/17	\$863.63	999	\$860,000	0.92	\$796.76	\$800,000
2017/18	898.18	999	900,000	0.92	828.63	830,000
2018/19	934.10	999	930,000	0.92	861.78	860,000

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

(3) 2006/07, 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 and adjusted for change in retention.

(7) 2016/17 is based on (6) and actuarial judgment.  
 Other period(s) based on 2016/17 plus a 4% trend.

(8) to 2016/17 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.31% 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, 2016

Occurrence Period (1)	Limited Paid Losses 11/30/16 (2)	Limited Case Reserves 11/30/16 (3)	Limited Reported Incurred Losses 11/30/16 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/16 (5)-(4) (6)	Estimated Outstanding Reported Losses 11/30/16 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/16 (7)X(8) (9)
to 1996/97	\$8,258,600	\$0	\$8,258,600	\$8,258,600	\$0	\$0	1.00	\$0
1997/98	503,400	0	503,400	503,400	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	1,213,000	0	1,213,000	1,213,000	0	0	1.00	0
2002/03	22,000	0	22,000	22,000	0	0	1.00	0
2003/04	3,408,500	0	3,408,500	3,408,500	0	0	1.00	0
2004/05	18,000	0	18,000	18,000	0	0	1.00	0
2005/06	1,028,000	0	1,028,000	1,028,000	0	0	0.99	0
2006/07	16,100	0	16,100	16,100	0	0	0.99	0
2007/08	1,125,000	0	1,125,000	1,125,000	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	0.98	0
2010/11	3,000	0	3,000	100,000	97,000	97,000	0.97	94,390
2011/12	10,000	0	10,000	250,000	240,000	240,000	0.97	233,649
2012/13	0	0	0	250,000	250,000	250,000	0.97	241,829
2013/14	0	0	0	250,000	250,000	250,000	0.96	239,563
2014/15	0	200,000	200,000	1,000,000	800,000	1,000,000	0.95	946,891
2015/16	0	50,000	50,000	1,000,000	950,000	1,000,000	0.93	934,653
<b>Total</b>	<b>\$20,165,600</b>	<b>\$250,000</b>	<b>\$20,415,600</b>	<b>\$23,002,600</b>	<b>\$2,587,000</b>	<b>\$2,837,000</b>		<b>\$2,690,975</b>

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

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

(8) is based on a 1.31% 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, 2016 to November 30, 2017

Occurrence Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Months of Development 11/30/17 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/16 to 11/30/17 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/16 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/17 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/17 (9)X(10) (11)
to 1996/97	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1997/98	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1998/99	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2007/08	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2008/09	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2009/10	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.98	0
2010/11	72.0	56.6%	84.0	67.9%	26.1%	97,000	25,311	71,689	0.98	70,150
2011/12	60.0	28.3%	72.0	56.6%	39.5%	240,000	94,752	145,248	0.97	141,339
2012/13	48.0	10.9%	60.0	28.3%	19.5%	250,000	48,866	201,134	0.97	195,812
2013/14	36.0	2.2%	48.0	10.9%	8.9%	250,000	22,258	227,742	0.97	220,298
2014/15	24.0	0.0%	36.0	2.2%	2.2%	1,000,000	21,596	978,404	0.96	937,558
2015/16	12.0	0.0%	24.0	0.0%	0.0%	1,000,000	91	999,909	0.95	946,805
2016/17	0.0	0.0%	12.0	0.0%	0.0%	860,000	78	859,922	0.93	803,728
<b>Total</b>						<b>\$3,697,000</b>	<b>\$212,952</b>	<b>\$3,484,048</b>		<b>\$3,315,690</b>

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

(7) to 2015/16 is from Exhibit MM-Cermak-11. The amount for 2016/17 is from Exhibit MM-Cermak-10.

(10) is based on a 1.31% interest rate and the payout pattern in Exhibit MM-Cermak-2.

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

Occurrence 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 1996/97	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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	0.99	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%	71,689	27,336	44,353	0.98	43,554
2011/12	72.0	56.6%	84.0	67.9%	26.1%	145,248	37,901	107,347	0.98	105,042
2012/13	60.0	28.3%	72.0	56.6%	39.5%	201,134	79,408	121,726	0.97	118,450
2013/14	48.0	10.9%	60.0	28.3%	19.5%	227,742	44,516	183,226	0.97	178,377
2014/15	36.0	2.2%	48.0	10.9%	8.9%	978,404	87,109	891,295	0.97	862,163
2015/16	24.0	0.0%	36.0	2.2%	2.2%	999,909	21,594	978,315	0.96	937,473
2016/17	12.0	0.0%	24.0	0.0%	0.0%	859,922	78	859,844	0.95	814,179
2017/18	0.0	0.0%	12.0	0.0%	0.0%	900,000	82	899,918	0.93	841,111
<b>Total</b>						<b>\$4,384,048</b>	<b>\$298,024</b>	<b>\$4,086,024</b>		<b>\$3,900,349</b>

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

(7) to 2016/17 is from Exhibit MM-Cermak-12, (9). The amount for 2017/18 is from Exhibit MM-Cermak-10.

(10) is based on a 1.31% interest rate and the payout pattern in Exhibit MM-Cermak-2.

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

Occurrence 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 1996/97	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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	0.99	0
2010/11	96.0	80.2%	108.0	89.8%	48.5%	44,353	21,504	22,849	0.98	22,481
2011/12	84.0	67.9%	96.0	80.2%	38.1%	107,347	40,933	66,414	0.98	65,218
2012/13	72.0	56.6%	84.0	67.9%	26.1%	121,726	31,763	89,963	0.98	88,032
2013/14	60.0	28.3%	72.0	56.6%	39.5%	183,226	72,338	110,888	0.97	107,904
2014/15	48.0	10.9%	60.0	28.3%	19.5%	891,295	174,217	717,078	0.97	698,103
2015/16	36.0	2.2%	48.0	10.9%	8.9%	978,315	87,101	891,214	0.97	862,084
2016/17	24.0	0.0%	36.0	2.2%	2.2%	859,844	18,569	841,275	0.96	806,154
2017/18	12.0	0.0%	24.0	0.0%	0.0%	899,918	82	899,836	0.95	852,047
2018/19	0.0	0.0%	12.0	0.0%	0.0%	930,000	84	929,916	0.93	869,148
<b>Total</b>						<b>\$5,016,024</b>	<b>\$446,591</b>	<b>\$4,569,433</b>		<b>\$4,371,171</b>

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

(7) to 2017/18 is from Exhibit MM-Cermak-13, (9). The amount for 2018/19 is from Exhibit MM-Cermak-10.

(10) is based on a 1.31% 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)	Occurrence Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/16 (5)	Unlimited Case Reserves 11/30/16 (6)	Unlimited Reported Incurred Losses 11/30/16 (7)
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

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.

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 1996/97							
1997/98							0
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	813
2004/05	584	33,691	47,114	37,977	1,057	33	775
2005/06	592	31,496	50,948	32,574	1,105	23	752
2006/07	512	22,505	43,250	28,912	802	14	625
2007/08							0
2008/09							0
2009/10							0
2010/11							0
2011/12	773	24,144	62,000	43,000		35	959
2012/13	713	23,909	28,000	60,000		35	892
2013/14	713	23,909	28,000	60,000		35	892
2014/15	713	29,765	29,186	34,544		41	912
2015/16	779	35,708	29,444	35,555		45	999
2016/17	779	35,708	29,444	35,555		45	999

(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 2015. 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
Physicians	2.750
Housestaff	0.800 (residents and interns)

Data Summary as of November 30, 2016  
 Losses Limited to Self-Insured Retention

Occurrence Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Limited Paid Losses 11/30/16 (8)	Limited Case Reserves 11/30/16 (9)	Limited Reported Incurred Losses 11/30/16 (10)
to 1996/97	See Note	None	240.0	Not Provided	N/A	0	\$167,593,618	\$0	\$167,593,618
1997/98	Unlimited	None	228.0	2,380	19	0	30,083,500	0	30,083,500
1998/99	Unlimited	None	216.0	2,328	34	0	15,380,000	0	15,380,000
1999/00	Unlimited	None	204.0	2,272	30	0	33,190,000	0	33,190,000
2000/01	10,000,000	25,000,000	192.0	2,352	85	0	10,411,000	0	10,411,000
2001/02	15,000,000	50,000,000	180.0	2,442	102	0	23,647,540	0	23,647,540
2002/03	20,000,000	80,000,000	168.0	2,379	78	0	4,268,500	0	4,268,500
2003/04	20,000,000	None	156.0	2,401	106	0	8,377,500	0	8,377,500
2004/05	20,000,000	None	144.0	2,370	72	0	19,606,850	0	19,606,850
2005/06	20,000,000	None	132.0	2,282	63	0	22,575,000	0	22,575,000
2006/07	20,000,000	None	120.0	2,131	42	0	4,750,000	0	4,750,000
2007/08	20,000,000	None	108.0	2,195	29	0	7,002,000	0	7,002,000
2008/09	20,000,000	None	96.0	2,280	30	1	7,855,000	250,000	8,105,000
2009/10	40,000,000	None	84.0	2,137	27	0	9,092,500	0	9,092,500
2010/11	40,000,000	None	72.0	2,171	36	3	5,165,000	5,505,000	10,670,000
2011/12	40,000,000	None	60.0	2,171	31	7	24,369,999	12,600,000	36,969,999
2012/13	30,000,000	None	48.0	2,208	33	19	2,320,000	33,425,000	35,745,000
2013/14	30,000,000	None	36.0	2,208	32	11	0	5,800,000	5,800,000
2014/15	25,000,000	None	24.0	2,085	28	28	25,000	7,750,000	7,775,000
2015/16	25,000,000	80,000,000 *	12.0	2,144	32	31	90,000	2,550,000	2,640,000
<b>Total</b>					<b>909</b>	<b>100</b>	<b>\$395,803,007</b>	<b>\$67,880,000</b>	<b>\$463,683,007</b>

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

\* 2015/16 aggregate effective 7/1/15.

(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, 2016  
 Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Unlimited Paid Losses 11/30/16 (8)	Unlimited Case Reserves 11/30/16 (9)	Unlimited Reported Incurred Losses 11/30/16 (10)
to 1996/97	Unlimited	None	240.0	Not Provided	N/A	0	\$167,593,618	\$0	\$167,593,618
1997/98	Unlimited	None	228.0	2,380	19	0	30,083,500	0	30,083,500
1998/99	Unlimited	None	216.0	2,328	34	0	15,380,000	0	15,380,000
1999/00	Unlimited	None	204.0	2,272	30	0	33,190,000	0	33,190,000
2000/01	Unlimited	25,000,000	192.0	2,352	85	0	10,411,000	0	10,411,000
2001/02	Unlimited	50,000,000	180.0	2,442	102	0	23,647,540	0	23,647,540
2002/03	Unlimited	80,000,000	168.0	2,379	78	0	4,268,500	0	4,268,500
2003/04	Unlimited	None	156.0	2,401	106	0	8,377,500	0	8,377,500
2004/05	Unlimited	None	144.0	2,370	72	0	19,606,850	0	19,606,850
2005/06	Unlimited	None	132.0	2,282	63	0	22,575,000	0	22,575,000
2006/07	Unlimited	None	120.0	2,131	42	0	4,750,000	0	4,750,000
2007/08	Unlimited	None	108.0	2,195	29	0	7,002,000	0	7,002,000
2008/09	Unlimited	None	96.0	2,280	30	1	7,855,000	250,000	8,105,000
2009/10	Unlimited	None	84.0	2,137	27	0	9,092,500	0	9,092,500
2010/11	Unlimited	None	72.0	2,171	36	3	5,165,000	5,505,000	10,670,000
2011/12	Unlimited	None	60.0	2,171	31	7	24,369,999	12,600,000	36,969,999
2012/13	Unlimited	None	48.0	2,208	33	19	2,320,000	33,425,000	35,745,000
2013/14	Unlimited	None	36.0	2,208	32	11	0	5,800,000	5,800,000
2014/15	Unlimited	None	24.0	2,085	28	28	25,000	7,750,000	7,775,000
2015/16	Unlimited	80,000,000	12.0	2,144	32	31	90,000	2,550,000	2,640,000
<b>Total</b>					<b>909</b>	<b>100</b>	<b>\$395,803,007</b>	<b>\$67,880,000</b>	<b>\$463,683,007</b>

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

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	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).

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	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
10/1996/97																				
1997/98	4	7	172	4,517	7,992	15,967	19,217	22,967	25,717	29,592	32,242	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842
1998/99	0	0	0	0	2,205	3,980	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
1999/00	0	12,065	12,065	17,115	17,650	23,630	27,630	37,630	37,630	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	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
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	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	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	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	528	6,778	9,908	9,908	11,533	11,603	23,603	24,028	24,028	24,028	24,028	24,028	24,028	24,028	24,028	24,028	24,028
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	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	2,445	2,445	3,155	3,155	4,405	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155
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	5,168	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
2011/12	0	20,100	20,825	24,390	26,195															
2012/13	0	850	850	2,330																
2013/14	0	0	0	0																
2014/15	0	0	0	0																
2015/16	90																			

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
10/1996/97																				
1997/98	1,971	24,913	26,276	1,769	1,998	1,204	1,195	1,120	1,151	1,093	1,046	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1998/99		1,000	1,419	1,031	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		3,532	3,532	1,898	4,212	1,068	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		1,150	1,002	1,321	1,300	1,089	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
2001/02		1,189	1,897	1,897	1,382	1,089	1,020	1,068	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		103,000	1,223	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
2003/04		1,000	1,621	12,837	1,361	1,074	1,164	1,006	1,000	1,018	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2004/05		1,000	77,245	77,245	1,000	2,364	1,000	1,000	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	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
2006/07		1,000	1,290	3,302	1,364	1,170	1,582	1,000	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		1,036	1,171	1,074	1,059	1,073														
2008/09		1,000	2,741																	
2009/10		1,000																		
2010/11		1,000																		
2011/12		1,000																		
2012/13		1,000																		
2013/14		1,000																		
2014/15		1,000																		
2015/16		1,000																		
Average All	1,561	130,300	36,225	8,013	1,625	1,236	1,130	1,025	1,287	1,012	1,006	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Wtd 3		1,035	1,364	1,310	1,276	1,065	1,164	1,003	1,371	1,007	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Last 3				2,029	1,273	1,081	1,194	1,002	1,363	1,066	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Last 5				1,475	1,273	1,106	1,055	1,000	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-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	1,022,717	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 - JOHN H. STROGER, JR. 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 1/996/97																					
1997/98	7,954	13,007	19,422	30,967	33,642	33,617	33,617	34,067	33,667	32,767	32,942	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842	
1998/99	1,500	17,850	20,160	17,620	17,205	16,230	15,975	15,925	13,275	11,175	11,175	11,175	11,175	11,175	14,175	14,175	14,175	14,175	14,175	14,175	33,842
1999/00	15,485	25,610	35,730	44,165	46,475	46,930	40,630	46,930	46,225	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	37,925	16,675
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	25,655	29,908	24,761	25,134	31,305	25,861	25,861	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	11,706
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	5,316	5,316	
2003/04	28,331	39,505	26,840	38,771	29,756	28,646	20,246	20,246	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	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	
2005/06	14,276	35,957	22,631	24,828	17,228	16,758	13,858	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	
2006/07	11,046	13,126	8,721	5,787	4,726	5,496	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	24,827	12,544	17,152	18,477	12,927	10,005	8,255	8,405	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	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	
2009/10	5,095	8,253	15,550	16,368	13,503	12,388	13,503	12,388	12,388	12,388	12,388	12,388	12,388	12,388	12,388	12,388	12,388	12,388	12,388	12,388	
2010/11	770	3,900	8,530	11,105	11,183	10,673	11,183	10,673	10,673	10,673	10,673	10,673	10,673	10,673	10,673	10,673	10,673	10,673	10,673	10,673	
2011/12	23,923	34,253	39,927	39,455	39,045																
2012/13	6,925	12,000	29,150	39,255																	
2013/14	1,560	7,155	6,400																		
2014/15	7,000	8,225																			
2015/16	5,190																				

**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 1/996/97																					
1997/98	1,769	1,493	1,594	1,086	0,999	0,997	1,016	0,988	0,973	1,005	1,027	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
1998/99	11,900	1,129	0,874	0,976	0,943	0,984	0,972	0,855	0,642	0,820	0,820	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
1999/00	1,666	1,364	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	1,010	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	0,600	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	0,360	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	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	0,963	0,996	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	0,981	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	0,938	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	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	1,316	1,419	1,049	0,932	1,047	0,825	1,018														
2009/10	1,620	1,884	1,053	0,825	0,917	0,904															
2010/11	5,065	2,187	1,302	1,007	0,954																
2011/12	1,432	1,166	0,988	0,990																	
2012/13	1,733	2,429	1,347																		
2013/14	4,587	0,894																			
2014/15	1,175																				
2015/16																					

Average All	2,388	1,215	1,142	0,914	1,097	0,873	0,993	1,031	0,943	0,994	1,003	1,000	1,000	1,045	1,000	1,000	1,088	1,000	1,000	1,000	1,000
Wtd 3	1,768	1,413	1,157	0,962	0,966	0,878	0,875	1,347	1,000	0,976	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Last 3	2,498	1,496	1,212	0,941	0,973	0,874	0,866	1,214	1,000	0,979	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-til low	2,564	1,746	1,135	0,915	0,962	0,875	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	1,000	1,000
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	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	1,000
Cumulative	2,662	1,331	1,125	1,210	1,072	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	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%	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	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1/996/97																					
1997/98	12	24	27	27	27	27	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
1998/99	9	40	43	46	47	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
1999/00	12	32	37	38	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
2000/01	76	94	102	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
2001/02	99	129	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
2002/03	87	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
2003/04	89	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129
2004/05	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
2005/06	82	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
2006/07	55	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
2007/08	31	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2008/09	31	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
2009/10	32	32	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2010/11	31	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
2011/12	35	36	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
2012/13	40	41	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
2013/14	33	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2014/15	29	31																			
2015/16	34																				

II. 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 1/996/97																					
1997/98	2,000	1,125	1,000	1,000	1,074	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
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	1,000	1,000	1,000	1,000	1,000	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																			
2014/15	1,069																				
2015/16																					
Average All	1,456	1,036	1,008	1,003	1,007	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Wtd 3	1,039	1,027	1,000	1,000	1,000	1,000	1,000	1,000	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	1,041	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	
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%	

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 1/996/07																						
1997/08	0.0%	0.1%	0.9%	14.6%	23.8%	47.5%	57.3%	67.4%	76.4%	90.3%	98.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1998/09	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%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1999/00	0.0%	4.7%	33.6%	38.6%	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%	68.1%	85.9%	96.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2002/03	0.0%	0.0%	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%	78.1%	78.1%	96.1%	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%	2.1%	39.3%	55.1%	71.5%	73.9%	45.3%	92.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
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%	100.0%	100.0%	100.0%	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	0.0%	58.7%	52.2%	61.8%	67.1%	48.4%	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%	
2012/13	0.0%	7.1%	2.9%	5.9%																		
2013/14	0.0%	0.0%	0.0%																			
2014/15	0.0%	0.0%	0.0%																			
2015/16	1.7%																					
Average																						
All	0.1%	6.4%	8.4%	20.0%	42.5%	55.0%	75.3%	82.5%	82.2%	98.2%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	92.9%	100.0%	100.0%	100.0%	100.0%	
Last 3	0.6%	2.5%	18.4%	31.1%	55.8%	58.9%	79.9%	99.0%	81.8%	97.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	92.9%	100.0%	100.0%	100.0%	100.0%	
Last 5	0.0%	2.5%	1.0%	23.5%	49.0%	53.8%	78.4%	97.3%	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%	98.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Developed Limited Paid Losses

Occurrence Period (1)	Months of Development 11/30/16 (2)	Limited Paid Losses 11/30/16 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1996/97	240.0	\$167,593,618	100.0%	\$167,593,618
1997/98	228.0	30,083,500	100.0%	30,083,500
1998/99	216.0	15,380,000	100.0%	15,380,000
1999/00	204.0	33,190,000	100.0%	33,190,000
2000/01	192.0	10,411,000	100.0%	10,411,000
2001/02	180.0	23,647,540	100.0%	23,647,540
2002/03	168.0	4,268,500	100.0%	4,268,500
2003/04	156.0	8,377,500	100.0%	8,377,500
2004/05	144.0	19,606,850	100.0%	19,606,850
2005/06	132.0	22,575,000	98.0%	23,026,500
2006/07	120.0	4,750,000	94.3%	5,038,800
2007/08	108.0	7,002,000	89.8%	7,799,108
2008/09	96.0	7,855,000	80.2%	9,799,119
2009/10	84.0	9,092,500	67.9%	13,384,623
2010/11	72.0	5,165,000	56.6%	9,123,772
2011/12	60.0	24,369,999	28.3%	35,438,867 *
2012/13	48.0	2,320,000	10.9%	21,310,587
2013/14	36.0	0	2.2%	0
2014/15	24.0	25,000	0.0%	137,783,968
2015/16	12.0	90,000	0.0%	992,044,572
Total		\$395,803,007		\$1,567,308,424

\* - 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

Occurrence Period (1)	Months of Development 11/30/16 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1996/97	240.0	\$167,593,618	100.0%	\$167,593,618
1997/98	228.0	30,083,500	100.0%	30,083,500
1998/99	216.0	15,380,000	100.0%	15,380,000
1999/00	204.0	33,190,000	100.0%	33,190,000
2000/01	192.0	10,411,000	100.0%	10,411,000
2001/02	180.0	23,647,540	100.0%	23,647,540
2002/03	168.0	4,268,500	100.0%	4,268,500
2003/04	156.0	8,377,500	100.0%	8,377,500
2004/05	144.0	19,606,850	100.0%	19,606,850
2005/06	132.0	22,575,000	100.0%	22,575,000
2006/07	120.0	4,750,000	100.0%	4,750,000
2007/08	108.0	7,002,000	99.0%	7,072,020
2008/09	96.0	8,105,000	97.1%	8,349,771
2009/10	84.0	9,092,500	95.2%	9,554,435
2010/11	72.0	10,670,000	93.3%	11,436,320
2011/12	60.0	36,969,999	88.9%	39,098,225 *
2012/13	48.0	35,745,000	82.7%	43,244,906
2013/14	36.0	5,800,000	75.1%	7,718,632
2014/15	24.0	7,775,000	60.1%	12,933,699
2015/16	12.0	2,640,000	37.6%	7,026,617
Total		\$463,683,007		\$486,318,133

\* - 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

Occurrence Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/16 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/16 (6)	Limited Case Reserves 11/30/16 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1996/97	240.0	100.0%	100.0%	100.0%	\$167,593,618	\$0	\$167,593,618
1997/98	228.0	100.0%	100.0%	100.0%	30,083,500	0	30,083,500
1998/99	216.0	100.0%	100.0%	100.0%	15,380,000	0	15,380,000
1999/00	204.0	100.0%	100.0%	100.0%	33,190,000	0	33,190,000
2000/01	192.0	100.0%	100.0%	100.0%	10,411,000	0	10,411,000
2001/02	180.0	100.0%	100.0%	100.0%	23,647,540	0	23,647,540
2002/03	168.0	100.0%	100.0%	100.0%	4,268,500	0	4,268,500
2003/04	156.0	100.0%	100.0%	100.0%	8,377,500	0	8,377,500
2004/05	144.0	100.0%	100.0%	100.0%	19,606,850	0	19,606,850
2005/06	132.0	98.0%	100.0%	100.0%	22,575,000	0	22,575,000
2006/07	120.0	94.3%	100.0%	100.0%	4,750,000	0	4,750,000
2007/08	108.0	89.8%	99.0%	90.3%	7,002,000	0	7,002,000
2008/09	96.0	80.2%	97.1%	85.2%	7,855,000	250,000	8,148,344
2009/10	84.0	67.9%	95.2%	84.9%	9,092,500	0	9,092,500
2010/11	72.0	56.6%	93.3%	84.6%	5,165,000	5,505,000	11,675,418
2011/12	60.0	28.3%	88.9%	84.5%	24,369,999	12,600,000	39,288,847
2012/13	48.0	10.9%	82.7%	80.5%	2,320,000	33,425,000	43,821,926
2013/14	36.0	2.2%	75.1%	74.6%	0	5,800,000	7,775,885
2014/15	24.0	0.0%	60.1%	60.1%	25,000	7,750,000	12,918,664
2015/16	12.0	0.0%	37.6%	37.6%	90,000	2,550,000	6,878,096
<b>Total</b>					<b>\$395,803,007</b>	<b>\$67,880,000</b>	<b>\$486,485,189</b>

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

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

Preliminary Projected Ultimate Limited Losses to 2015/16

Occurrence 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 1996/97	\$167,593,618	\$167,593,618	\$167,593,618	\$167,593,618
1997/98	30,083,500	30,083,500	30,083,500	30,083,500
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	19,606,850	19,606,850	19,606,850
2005/06	23,026,500	22,575,000	22,575,000	22,575,000
2006/07	5,038,800	4,750,000	4,750,000	4,750,000
2007/08	7,799,108	7,072,020	7,002,000	7,002,000
2008/09	9,799,119	8,349,771	8,148,344	8,168,486
2009/10	13,384,623	9,554,435	9,092,500	9,092,500
2010/11	9,123,772	11,436,320	11,675,418	11,603,689
2011/12	35,438,867	39,098,225	39,288,847	39,212,598
2012/13	21,310,587	43,244,906	43,821,926	41,339,984
2013/14	0	7,718,632	7,775,885	6,380,000
2014/15	137,783,968	12,933,699	12,918,664	12,926,181
2015/16	992,044,572	7,026,617	6,878,096	6,952,356
<b>Total</b>	<b>\$1,567,308,424</b>	<b>\$486,318,133</b>	<b>\$486,485,189</b>	<b>\$482,561,304</b>
exc 2014& 2015	437,479,883	466,357,817	466,688,429	462,682,766

(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

Occurrence 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 (2016/17 = 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)
2006/07	\$4,750,000	2,131	\$2,228.77	1.495	\$3,332.12	\$5,437.11
2007/08	7,002,000	2,195	3,190.58	1.438	4,586.61	5,654.60
2008/09	8,168,486	2,280	3,582.65	1.382	4,952.13	5,880.78
2009/10	9,092,500	2,137	4,254.31	1.295	5,509.30	6,277.04
2010/11	11,603,689	2,171	5,345.10	1.234	6,598.29	6,584.86
2011/12	39,212,598	2,171	18,062.80	1.187	21,440.15	6,848.26
2012/13	41,339,984	2,208	18,725.49	1.154	21,611.02	7,043.38
2013/14	6,380,000	2,208	2,889.91	1.114	3,218.56	7,298.68
2014/15	12,926,181	2,085	6,199.81	1.075	6,667.15	7,558.94
2015/16	6,952,356	2,144	3,242.31	1.040	3,372.00	7,816.09

(7) Projected 2016/17 a-priori loss rate per Occupied Bed Equivalent \$8,128.73

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Occurrence Period (1)	Limited Paid Losses 11/30/16 (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)
2011/12	\$24,369,999	28.3%	\$6,848.26	2,171	\$10,658,805	\$35,028,804
2012/13	2,320,000	10.9%	7,043.38	2,208	13,856,738	16,176,738
2013/14	0	2.2%	7,298.68	2,208	15,762,350	15,762,350
2014/15	25,000	0.0%	7,558.94	2,085	15,757,013	15,782,013
2015/16	90,000	0.0%	7,816.09	2,144	16,758,223	16,848,223

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

Occurrence Period (1)	Limited Reported Incurred Losses 11/30/16 (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)
2011/12	\$36,969,999	88.9%	\$6,848.26	2,171	\$1,656,706	\$38,626,705
2012/13	35,745,000	82.7%	7,043.38	2,208	2,696,739	38,441,739
2013/14	5,800,000	75.1%	7,298.68	2,208	4,005,279	9,805,279
2014/15	7,775,000	60.1%	7,558.94	2,085	6,285,939	14,060,939
2015/16	2,640,000	37.6%	7,816.09	2,144	10,462,869	13,102,869

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

Occurrence Period (1)	Months of Development 11/30/16 (2)	Reported Claims 11/30/16 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2006/07	120.0	42	100.0%	42	2,131	0.02
2007/08	108.0	29	100.0%	29	2,195	0.01
2008/09	96.0	30	100.0%	30	2,280	0.01
2009/10	84.0	27	100.0%	27	2,137	0.01
2010/11	72.0	36	100.0%	36	2,171	0.02
2011/12	60.0	31	100.0%	31	2,171	0.01
2012/13	48.0	33	100.0%	33	2,208	0.01
2013/14	36.0	32	99.0%	32	2,208	0.01
2014/15	24.0	28	96.1%	29	2,085	0.01
2015/16	12.0	32	81.8%	39	2,144	0.02

II. Frequency Times Severity

Occurrence Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2016/17 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2016/17 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2006/07	\$4,750,000	42	\$113,095	1.495	\$169,083	\$371,929	\$15,621,027
2007/08	7,002,000	29	241,448	1.438	347,093	386,806	11,217,385
2008/09	8,168,486	30	272,283	1.382	376,364	402,279	12,068,359
2009/10	9,092,500	27	336,759	1.295	436,101	429,385	11,593,400
2010/11	11,603,689	36	322,325	1.234	397,896	450,442	16,215,912
2011/12	39,212,598	31	1,264,923	1.187	1,501,436	468,460	14,522,250
2012/13	41,339,984	33	1,252,727	1.154	1,445,767	481,807	15,899,628
2013/14	6,380,000	32	199,375	1.114	222,049	499,271	15,976,674
2014/15	12,926,181	29	445,730	1.075	479,330	517,074	14,995,159
2015/16	6,952,356	39	178,266	1.040	185,396	534,665	20,851,933
						(7) Projected 2016/17 average claim severity \$556,052	

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 2015/16

Occurrence 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 1996/97	\$167,593,618	\$167,593,618	\$167,593,618				\$167,593,618	\$167,593,618
1997/98	30,083,500	30,083,500	30,083,500				30,083,500	30,083,500
1998/99	15,380,000	15,380,000	15,380,000				13,180,000	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	19,606,850	19,606,850				19,606,850	19,606,850
2005/06	23,026,500	22,575,000	22,575,000				22,575,000	22,575,000
2006/07	5,038,800	4,750,000	4,750,000				4,750,000	4,750,000
2007/08	7,799,108	7,072,020	7,002,000				7,500,000	7,002,000
2008/09	9,799,119	8,349,771	8,148,344				10,000,000	9,000,000
2009/10	13,384,623	9,554,435	9,092,500				11,000,000	10,000,000
2010/11	9,123,772	11,436,320	11,675,418				14,000,000	12,000,000
2011/12	35,438,867	39,098,225	39,288,847	35,028,804	38,626,705	14,522,250	41,500,000	40,000,000
2012/13	21,310,587	43,244,906	43,821,926	16,176,738	38,441,739	15,899,628	35,000,000	42,000,000
2013/14	0	7,718,632	7,775,885	15,762,350	9,805,279	15,976,674	15,500,000	12,500,000
2014/15	137,783,968	12,933,699	12,918,664	15,782,013	14,060,939	14,995,159	18,000,000	16,000,000
2015/16	992,044,572	7,026,617	6,878,096	16,848,223	13,102,869	20,851,933	17,919,000	15,000,000
<b>Total</b>	<b>\$1,567,308,424</b>	<b>\$486,318,133</b>	<b>\$486,485,189</b>				<b>\$508,102,508</b>	<b>\$503,385,508</b>
2011/12 - 2015/16	1,186,577,994	110,022,078	110,683,418	99,598,128	114,037,530	82,245,644	127,919,000	125,500,000
to 2010/11	380,730,430	376,296,055	375,801,771				380,183,508	377,885,508
						<b>Change</b>		
						All years		-\$4,717,000
						2011/12 - 2015/16		-2,419,000
						to 2010/11		-2,298,000

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

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

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

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

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

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



Projected Ultimate Limited Losses for 2016/17 and Subsequent

Occurrence Period (1)	Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2016/17 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)	
2006/07	\$4,750,000	2,131	\$2,228.77	1.495	\$3,332.12	
2007/08	7,002,000	2,195	3,190.58	1.438	4,586.61	
2008/09	9,000,000	2,280	3,947.35	1.382	5,456.24	
2009/10	10,000,000	2,137	4,678.92	1.295	6,059.17	
2010/11	12,000,000	2,171	5,527.65	1.234	6,823.65	
2011/12	40,000,000	2,171	18,425.50	1.187	21,870.68	
2012/13	42,000,000	2,208	19,024.45	1.154	21,956.05	
2013/14	12,500,000	2,208	5,662.04	1.114	6,305.96	
2014/15	16,000,000	2,085	7,674.11	1.075	8,252.59	
2015/16	15,000,000	2,144	6,995.42	1.040	7,275.23	
<b>Total</b>	<b>\$168,252,000</b>	<b>21,729</b>	<b>\$7,743.05</b>		<b>\$9,191.83</b>	

Occurrence 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)
2016/17	\$9,191.83	2,144	\$19,710,000	0.92	\$8,480.14	\$18,180,000
2017/18	9,559.50	2,144	20,500,000	0.92	8,819.34	18,910,000
2018/19	9,941.88	2,144	21,320,000	0.92	9,172.12	19,670,000

(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) 2016/17 is based on (6) and actuarial judgment.  
 Other period(s) based on 2016/17 plus a 4% trend.

(8) to 2016/17 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.31% interest rate and the payout pattern in Exhibit MM-Stroger-2.



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

Exhibit MM-Stroger-11

Estimated Outstanding Losses as of November 30, 2016

Occurrence Period (1)	Limited Paid Losses 11/30/16 (2)	Limited Case Reserves 11/30/16 (3)	Limited Reported Incurred Losses 11/30/16 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/16 (5)-(4) (6)	Estimated Outstanding Losses 11/30/16 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/16 (7)X(8) (9)
to 1996/97	\$167,593,618	\$0	\$167,593,618	\$167,593,618	\$0	\$0	1.00	\$0
1997/98	30,083,500	0	30,083,500	30,083,500	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	0	19,606,850	19,606,850	0	0	1.00	0
2005/06	22,575,000	0	22,575,000	22,575,000	0	0	0.99	0
2006/07	4,750,000	0	4,750,000	4,750,000	0	0	0.99	0
2007/08	7,002,000	0	7,002,000	7,002,000	0	0	0.98	0
2008/09	7,855,000	250,000	8,105,000	9,000,000	895,000	1,145,000	0.98	1,124,385
2009/10	9,092,500	0	9,092,500	10,000,000	907,500	907,500	0.98	888,017
2010/11	5,165,000	5,505,000	10,670,000	12,000,000	1,330,000	6,835,000	0.97	6,651,067
2011/12	24,369,999	12,600,000	36,969,999	40,000,000	3,030,001	15,630,001	0.97	15,216,400
2012/13	2,320,000	33,425,000	35,745,000	42,000,000	6,255,000	39,680,000	0.97	38,383,048
2013/14	0	5,800,000	5,800,000	12,500,000	6,700,000	12,500,000	0.96	11,978,161
2014/15	25,000	7,750,000	7,775,000	16,000,000	8,225,000	15,975,000	0.95	15,126,586
2015/16	90,000	2,550,000	2,640,000	15,000,000	12,360,000	14,910,000	0.93	13,935,671
<b>Total</b>	<b>\$395,803,007</b>	<b>\$67,880,000</b>	<b>\$463,683,007</b>	<b>\$503,385,508</b>	<b>\$39,702,501</b>	<b>\$107,582,501</b>		<b>\$103,303,335</b>

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

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

(8) is based on a 1.31% 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, 2016 to November 30, 2017

Occurrence Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Months of Development 11/30/17 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/16 to 11/30/17 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/16 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/17 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/17 (9)X(10) (11)
to 1996/97	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1997/98	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1998/99	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2007/08	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2008/09	96.0	80.2%	108.0	89.8%	48.5%	1,145,000	555,150	589,850	0.98	580,340
2009/10	84.0	67.9%	96.0	80.2%	38.1%	907,500	346,043	561,457	0.98	551,348
2010/11	72.0	56.6%	84.0	67.9%	26.1%	6,835,000	1,783,522	5,051,478	0.98	4,943,030
2011/12	60.0	28.3%	72.0	56.6%	39.5%	15,630,001	6,170,739	9,459,262	0.97	9,204,709
2012/13	48.0	10.9%	60.0	28.3%	19.5%	39,680,000	7,756,061	31,923,939	0.97	31,079,168
2013/14	36.0	2.2%	48.0	10.9%	8.9%	12,500,000	1,112,892	11,387,108	0.97	11,014,917
2014/15	24.0	0.0%	36.0	2.2%	2.2%	15,975,000	344,991	15,630,009	0.96	14,977,501
2015/16	12.0	0.0%	24.0	0.0%	0.0%	14,910,000	1,353	14,908,647	0.95	14,116,866
2016/17	0.0	0.0%	12.0	0.0%	0.0%	19,710,000	1,788	19,708,212	0.93	18,420,332
Total						\$127,292,501	\$18,072,539	\$109,219,962		\$104,888,211

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

(7) to 2015/16 is from Exhibit MM-Stroger-11. The amount for 2016/17 is from Exhibit MM-Stroger-10.

(10) is based on a 1.31% interest rate and the payout pattern in Exhibit MM-Stroger-2.

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

Occurrence 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 1996/97	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	589,850	259,070	330,780	0.99	327,181
2009/10	96.0	80.2%	108.0	89.8%	48.5%	561,457	272,221	289,236	0.98	284,573
2010/11	84.0	67.9%	96.0	80.2%	38.1%	5,051,478	1,926,203	3,125,275	0.98	3,069,005
2011/12	72.0	56.6%	84.0	67.9%	26.1%	9,459,262	2,468,295	6,990,967	0.98	6,840,881
2012/13	60.0	28.3%	72.0	56.6%	39.5%	31,923,939	12,603,600	19,320,339	0.97	18,800,420
2013/14	48.0	10.9%	60.0	28.3%	19.5%	11,387,108	2,225,784	9,161,324	0.97	8,918,897
2014/15	36.0	2.2%	48.0	10.9%	8.9%	15,630,009	1,391,561	14,238,448	0.97	13,773,060
2015/16	24.0	0.0%	36.0	2.2%	2.2%	14,908,647	321,963	14,586,684	0.96	13,977,732
2016/17	12.0	0.0%	24.0	0.0%	0.0%	19,708,212	1,788	19,706,424	0.95	18,659,839
2017/18	0.0	0.0%	12.0	0.0%	0.0%	20,500,000	1,860	20,498,140	0.93	19,158,640
<b>Total</b>						<b>\$129,719,962</b>	<b>\$21,472,345</b>	<b>\$108,247,617</b>		<b>\$103,810,228</b>

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

(7) to 2016/17 is from Exhibit MM-Stroger-12, (9). The amount for 2017/18 is from Exhibit MM-Stroger-10.

(10) is based on a 1.31% interest rate and the payout pattern in Exhibit MM-Stroger-2.



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

Exhibit MM-Stroger-14

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

Occurrence 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 1996/97	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	330,780	217,618	113,162	0.99	112,428
2009/10	108.0	89.8%	120.0	94.3%	43.9%	289,236	127,036	162,200	0.99	160,435
2010/11	96.0	80.2%	108.0	89.8%	48.5%	3,125,275	1,515,280	1,609,995	0.98	1,584,036
2011/12	84.0	67.9%	96.0	80.2%	38.1%	6,990,967	2,665,759	4,325,208	0.98	4,247,334
2012/13	72.0	56.6%	84.0	67.9%	26.1%	19,320,339	5,041,440	14,278,899	0.98	13,972,352
2013/14	60.0	28.3%	72.0	56.6%	39.5%	9,161,324	3,616,899	5,544,425	0.97	5,395,222
2014/15	48.0	10.9%	60.0	28.3%	19.5%	14,238,448	2,783,122	11,455,326	0.97	11,152,195
2015/16	36.0	2.2%	48.0	10.9%	8.9%	14,586,684	1,298,672	13,288,012	0.97	12,853,690
2016/17	24.0	0.0%	36.0	2.2%	2.2%	19,706,424	425,574	19,280,850	0.96	18,475,930
2017/18	12.0	0.0%	24.0	0.0%	0.0%	20,498,140	1,860	20,496,280	0.95	19,407,746
2018/19	0.0	0.0%	12.0	0.0%	0.0%	21,320,000	1,934	21,318,066	0.93	19,924,986
<b>Total</b>						<b>\$129,567,617</b>	<b>\$17,695,194</b>	<b>\$111,872,423</b>		<b>\$107,286,354</b>

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

(7) to 2017/18 is from Exhibit MM-Stroger-13, (9). The amount for 2018/19 is from Exhibit MM-Stroger-10.

(10) is based on a 1.31% 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)	Occurrence Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/16 (5)	Unlimited Case Reserves 11/30/16 (6)	Unlimited Reported Incurred Losses 11/30/16 (7)
97009089	5/9/1976	to 1996/97	Unlimited	\$5,000,000	\$0	\$5,000,000
97005676	1/21/1990	to 1996/97	Unlimited	6,500,000	0	6,500,000
97004522	11/25/1996	to 1996/97	Unlimited	1,500,000	0	1,500,000
97002438	10/21/1997	to 1996/97	Unlimited	6,750,000	0	6,750,000
97002232	4/9/1998	1997/98	Unlimited	19,250,000	0	19,250,000
97004204	8/28/1998	1997/98	Unlimited	1,500,000	0	1,500,000
97009808	5/4/1999	1998/99	Unlimited	5,500,000	0	5,500,000
97003451	3/6/2001	2000/01	10,000,000	7,000,000	0	7,000,000
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
97004808	12/19/2003	2003/04	20,000,000	3,750,000	0	3,750,000
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
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
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
97009210	9/19/2011	2010/11	40,000,000	0	1,000,000	1,000,000
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 *
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	0	5,000,000	5,000,000
97009669	6/25/2012	2011/12	40,000,000	0	4,000,000	4,000,000
97011081	12/26/2012	2012/13	40,000,000	0	6,000,000	6,000,000
97010090	3/4/2013	2012/13	30,000,000	0	1,000,000	1,000,000
97011785	3/19/2013	2012/13	30,000,000	0	1,500,000	1,500,000
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	1,000,000	1,000,000
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
97011355	10/30/2013	2012/13	30,000,000	0	2,500,000	2,500,000
97012538	11/15/2013	2012/13	30,000,000	0	1,500,000	1,500,000
97010481	11/28/2013	2012/13	30,000,000	0	5,000,000	5,000,000
97011865	4/11/2014	2013/14	30,000,000	0	3,000,000	3,000,000
97011291	9/1/2014	2013/14	30,000,000	0	1,000,000	1,000,000
97011952	5/22/2015	2014/15	30,000,000	0	1,000,000	1,000,000
97011950	5/27/2015	2014/15	30,000,000	0	1,000,000	1,000,000
97012011	6/30/2015	2014/15	30,000,000	0	1,500,000	1,500,000
97012405	9/14/2015	2014/15	25,000,000	0	1,000,000	1,000,000
97012583	11/30/2015	2014/15	25,000,000	0	1,000,000	1,000,000
97012546	12/1/2015	2015/16	25,000,000	0	1,000,000	1,000,000

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.

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 1996/97							
1997/98	393	153,602	479,152	64,814	376	535	2,380
1998/99	367	148,324	480,902	87,850	365	541	2,328
1999/00	363	141,013	485,066	141,276	358	490	2,272
2000/01	360	136,073	481,095	269,485	381	465	2,352
2001/02	388	141,693	502,382	189,599	414	444	2,442
2002/03	345	150,271	498,328	172,516	400	457	2,379
2003/04	353	148,568	520,088	174,789	401	463	2,401
2004/05	352	141,500	511,426	173,667	397	461	2,370
2005/06	338	135,358	512,883	152,169	378	460	2,282
2006/07	317	128,643	415,673	136,033	355	450	2,131
2007/08	314	127,998	392,825	128,266	389	433	2,195
2008/09	313	155,000	432,529	143,627	389	446	2,280
2009/10	313	155,000	127,500	64,000	389	460	2,137
2010/11	313	131,000	127,500	64,000	420	455	2,171
2011/12	313	131,000	127,500	64,000	420	455	2,171
2012/13	302	137,000	175,000	64,000	433	433	2,208
2013/14	302	137,000	175,000	64,000	433	433	2,208
2014/15	281	116,583	153,407	43,077	420	420	2,085
2015/16	281	123,158	258,721	52,714	420	421	2,144
2016/17	281	123,158	258,721	52,714	420	421	2,144

(2) through (7) were provided by the County. (4) is for Fantus. (5) is for CORE.

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 2015. 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
Physicians	2.750
Housestaff	0.800 (residents and interns)

Data Summary as of November 30, 2016  
Losses Limited to Self-Insured Retention

Occurrence Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Limited Paid Losses 11/30/16 (8)	Limited Case Reserves 11/30/16 (9)	Limited Reported Incurred Losses 11/30/16 (10)
to 1996/97	See Note	None	240.0	Not Provided	9	0	\$2,780,000	\$0	\$2,780,000
1997/98	Unlimited	None	228.0	410	2	0	0	0	0
1998/99	Unlimited	None	216.0	406	0	0	0	0	0
1999/00	Unlimited	None	204.0	352	1	0	0	0	0
2000/01	10,000,000	25,000,000	192.0	336	0	0	0	0	0
2001/02	15,000,000	50,000,000	180.0	331	2	0	100,000	0	100,000
2002/03	20,000,000	80,000,000	168.0	341	3	0	1,050,000	0	1,050,000
2003/04	20,000,000	None	156.0	387	4	0	20,375,000	0	20,375,000
2004/05	20,000,000	None	144.0	392	3	0	1,900,000	0	1,900,000
2005/06	20,000,000	None	132.0	384	8	0	620,000	0	620,000
2006/07	20,000,000	None	120.0	353	4	0	0	0	0
2007/08	20,000,000	None	108.0	283	1	0	0	0	0
2008/09	20,000,000	None	96.0	348	2	0	175,000	0	175,000
2009/10	40,000,000	None	84.0	222	1	0	0	0	0
2010/11	40,000,000	None	72.0	233	1	1	0	300,000	300,000
2011/12	40,000,000	None	60.0	174	1	0	0	0	0
2012/13	30,000,000	None	48.0	62	0	0	0	0	0
2013/14	30,000,000	None	36.0	62	0	0	0	0	0
2014/15	25,000,000	None	24.0	19	0	0	0	0	0
2015/16	25,000,000	80,000,000 *	12.0	4	0	0	0	0	0
<b>Total</b>					<b>42</b>	<b>1</b>	<b>\$27,000,000</b>	<b>\$300,000</b>	<b>\$27,300,000</b>

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

\* 2015/16 aggregate effective 7/1/15.

(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, 2016  
Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Unlimited Paid Losses 11/30/16 (8)	Unlimited Case Reserves 11/30/16 (9)	Unlimited Reported Incurred Losses 11/30/16 (10)
to 1996/97	Unlimited	None	240.0	Not Provided	9	0	\$2,780,000	\$0	\$2,780,000
1997/98	Unlimited	None	228.0	410	2	0	0	0	0
1998/99	Unlimited	None	216.0	406	0	0	0	0	0
1999/00	Unlimited	None	204.0	352	1	0	0	0	0
2000/01	Unlimited	25,000,000	192.0	336	0	0	0	0	0
2001/02	Unlimited	50,000,000	180.0	331	2	0	100,000	0	100,000
2002/03	Unlimited	80,000,000	168.0	341	3	0	1,050,000	0	1,050,000
2003/04	Unlimited	None	156.0	387	4	0	20,375,000	0	20,375,000
2004/05	Unlimited	None	144.0	392	3	0	1,900,000	0	1,900,000
2005/06	Unlimited	None	132.0	384	8	0	620,000	0	620,000
2006/07	Unlimited	None	120.0	353	4	0	0	0	0
2007/08	Unlimited	None	108.0	283	1	0	0	0	0
2008/09	Unlimited	None	96.0	348	2	0	175,000	0	175,000
2009/10	Unlimited	None	84.0	222	1	0	0	0	0
2010/11	Unlimited	None	72.0	233	1	1	0	300,000	300,000
2011/12	Unlimited	None	60.0	174	1	0	0	0	0
2012/13	Unlimited	None	48.0	62	0	0	0	0	0
2013/14	Unlimited	None	36.0	62	0	0	0	0	0
2014/15	Unlimited	None	24.0	19	0	0	0	0	0
2015/16	Unlimited	80,000,000	12.0	4	0	0	0	0	0
<b>Total</b>					<b>42</b>	<b>1</b>	<b>\$27,000,000</b>	<b>\$300,000</b>	<b>\$27,300,000</b>

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

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	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).

COOK COUNTY, ILLINOIS  
MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

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

I. Historical Limited Paid Losses (\$000)

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
10/1996/97																					
1997/98	4	7	172	4,517	7,992	15,987	19,217	22,987	25,717	29,592	32,342	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842	
1998/99	0	0	0	0	2,205	3,980	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	
1999/00	0	12,065	12,065	17,115	17,650	23,630	27,830	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	
2000/01	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	
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	25,061	
2002/03	10	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	
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	0	16	516	6,778	6,778	9,908	11,533	11,603	23,603	24,028	24,028	24,028	24,028	24,028	24,028	24,028	24,028	24,028	24,028	
2006/07	0	127	127	3,677	6,027	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	0	2,445	3,155	3,155	4,405	5,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	
2008/09	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	
2009/10	0	0	0	0	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	5,168	
2010/11	0	0	0	0	20,825	24,390	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	
2011/12	0	20,100	20,825	24,390	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	
2012/13	0	850	850	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

II. Limited Paid Loss Development

Claim Period	Months of Development:																				
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult	
10/1996/97																					
1997/98	1,971	24,913	26,276	1,769	1,998	1,204	1,195	1,120	1,151	1,093	1,046	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
1998/99			1,419	1,031	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	3,532	1,898	4,212	1,068	1,359	1,000	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			311,700	1,321	1,300	1,561	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	
2002/03	1,150	109,565	1,002	2,572	1,382	1,089	1,028	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	1,995	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											
2006/07		1,000	1,621	77,245	1,000	2,364	1,000	1,000	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	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	
2008/09		1,000	1,290	3,302	1,364	1,170	1,582	1,000	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				1,712	1,059	1,073															
2010/11		1,036	1,171	1,074																	
2011/12		1,000	2,741																		
2012/13																					
2013/14																					
2014/15																					
2015/16																					
Average																					
All	1,561	130,300	36,225	8,013	1,625	1,236	1,130	1,025	1,287	1,012	1,006	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Wtd 3		1,035	1,364	1,310	1,276	1,065	1,164	1,003	1,371	1,007	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Last 3				2,029	1,273	1,081	1,194	1,002	1,363	1,006	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Last 5				1,475	1,273	1,106	1,055	1,000	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-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	1,022,717	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 - 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 1/996/97																					
1997/98	7,954	13,007	19,422	30,967	33,642	33,617	33,617	34,067	33,667	32,767	32,942	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842	
1998/99	1,500	17,850	20,160	17,620	17,205	16,230	15,975	15,925	13,275	11,175	11,175	11,175	11,175	14,175	14,175	14,175	14,175	14,175	14,175	14,175	
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	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	25,655	29,908	24,761	25,134	31,305	25,861	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	26,711	16,022	5,770	8,413	8,248	6,248	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	28,646	20,246	20,146	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	19,646	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	15,603	25,603	25,603	25,603	25,603	25,603	25,603	25,603	25,603	25,603	25,603	25,603	
2006/07	11,046	17,126	8,721	5,787	4,726	5,496	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	24,827	12,544	17,152	18,477	12,927	10,005	8,255	8,405	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	10,005	8,255	8,405	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	
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	770	3,900	8,530	11,105	11,183	10,673	10,673	10,673	10,673	10,673	10,673	10,673	10,673	10,673	10,673	10,673	10,673	10,673	10,673	10,673	
2011/12	23,923	34,253	39,927	39,455	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	
2012/13	6,925	12,000	29,150	39,255	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	
2013/14	1,560	7,155	6,400	6,400	6,400	6,400	6,400	6,400	6,400	6,400	6,400	6,400	6,400	6,400	6,400	6,400	6,400	6,400	6,400	6,400	
2014/15	7,000	8,225	8,225	8,225	8,225	8,225	8,225	8,225	8,225	8,225	8,225	8,225	8,225	8,225	8,225	8,225	8,225	8,225	8,225	8,225	
2015/16	5,190	5,190	5,190	5,190	5,190	5,190	5,190	5,190	5,190	5,190	5,190	5,190	5,190	5,190	5,190	5,190	5,190	5,190	5,190	5,190	

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 1/996/97																					
1997/98	1,769	1,493	1,594	1,086	0,999	0,997	1,016	0,988	0,973	1,005	1,027	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
1998/99	11,900	1,129	0,874	0,976	0,943	0,984	0,972	0,855	0,842	0,855	0,855	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
1999/00	1,666	1,364	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	1,010	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	0,600	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	1,458	0,980	0,823	0,838	0,938	0,996	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	0,963	0,996	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	0,938	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	1,126	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	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	1,316	1,419	1,049	0,932	1,047	0,825	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,018	
2009/10	1,620	1,884	1,053	0,825	0,917	0,904	0,904	0,904	0,904	0,904	0,904	0,904	0,904	0,904	0,904	0,904	0,904	0,904	0,904	0,904	
2010/11	5,065	2,187	1,302	1,007	0,954	0,954	0,954	0,954	0,954	0,954	0,954	0,954	0,954	0,954	0,954	0,954	0,954	0,954	0,954	0,954	
2011/12	1,432	1,166	0,988	0,990	0,990	0,990	0,990	0,990	0,990	0,990	0,990	0,990	0,990	0,990	0,990	0,990	0,990	0,990	0,990	0,990	
2012/13	1,733	2,429	1,347	1,347	1,347	1,347	1,347	1,347	1,347	1,347	1,347	1,347	1,347	1,347	1,347	1,347	1,347	1,347	1,347	1,347	
2013/14	4,587	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	0,894	0,894	
2014/15	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	
2015/16	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	
Average	2,388	1,215	1,142	0,914	1,097	0,873	0,993	1,031	0,943	0,994	1,003	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
All	1,768	1,413	1,157	0,952	0,966	0,878	0,875	1,347	1,000	0,876	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Wtd 3	2,498	1,496	1,212	0,941	0,973	0,874	0,866	1,214	1,000	0,979	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Last 3	2,564	1,746	1,135	0,915	0,962	0,875	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	1,000	
x-Hilow																					
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	1,072	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	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, Stroger and Provident combined.

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

I. Historical Reported Claims

Claim Period	12	24	Months of Development:			60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
			36	48																	
to 1/996/97																					
1997/98	12	24	27	27	27	27	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
1998/99	9	40	43	46	47	47	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
1999/00	12	32	37	38	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
2000/01	76	94	102	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
2001/02	99	129	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
2002/03	87	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
2003/04	89	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129
2004/05	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
2005/06	82	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
2006/07	55	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
2007/08	31	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2008/09	31	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
2009/10	32	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2010/11	31	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
2011/12	35	36	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
2012/13	40	41	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
2013/14	33	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2014/15	29	31																			
2015/16	34																				

II. Reported Claim Development

Claim Period	12-24	24-36	Months of Development:			60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult
			36-48	48-60																	
to 1/996/97																					
1997/98	2,000	1,125	1,000	1,000	1,074	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
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
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
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
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
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
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
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	1,122	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
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
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
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
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
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	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
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
2013/14	1,030	1,000																			
2014/15	1,069																				
2015/16																					
Average All	1,456	1,036	1,008	1,003	1,007	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Wtd 3	1,039	1,027	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,041	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
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
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	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
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
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 - 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 1/996/07																						
1997/08	0.0%	0.1%	0.9%	14.6%	23.8%	47.5%	57.3%	67.4%	76.4%	90.3%	98.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1998/09	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%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1999/00	0.0%	4.7%	33.6%	38.6%	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%	68.1%	86.9%	96.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2002/03	0.0%	0.0%	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%	78.1%	78.1%	96.1%	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%	2.1%	39.3%	55.1%	71.5%	73.9%	45.3%	92.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
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%	100.0%	100.0%	100.0%	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	0.0%	58.7%	52.2%	61.8%	67.1%	48.4%	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%	
2012/13	0.0%	7.1%	2.9%	5.9%																		
2013/14	0.0%	0.0%	0.0%																			
2014/15	0.0%	0.0%	0.0%																			
2015/16	1.7%																					
Average																						
All	0.1%	6.4%	8.4%	20.0%	42.5%	55.0%	75.3%	82.5%	82.2%	98.2%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Last 3	0.6%	2.5%	18.4%	31.1%	55.8%	58.9%	79.9%	99.0%	81.8%	97.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Last 5	0.0%	2.5%	1.0%	23.5%	49.0%	53.8%	78.4%	97.3%	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-th,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%	100.0%	

Developed Limited Paid Losses

Occurrence Period (1)	Months of Development 11/30/16 (2)	Limited Paid Losses 11/30/16 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1996/97	240.0	\$2,780,000	100.0%	\$2,780,000
1997/98	228.0	0	100.0%	0
1998/99	216.0	0	100.0%	0
1999/00	204.0	0	100.0%	0
2000/01	192.0	0	100.0%	0
2001/02	180.0	100,000	100.0%	100,000
2002/03	168.0	1,050,000	100.0%	1,050,000
2003/04	156.0	20,375,000	100.0%	20,375,000
2004/05	144.0	1,900,000	100.0%	1,900,000
2005/06	132.0	620,000	98.0%	632,400
2006/07	120.0	0	94.3%	0
2007/08	108.0	0	89.8%	0
2008/09	96.0	175,000	80.2%	218,313
2009/10	84.0	0	67.9%	0
2010/11	72.0	0	56.6%	0
2011/12	60.0	0	28.3%	0
2012/13	48.0	0	10.9%	0
2013/14	36.0	0	2.2%	0
2014/15	24.0	0	0.0%	0
2015/16	12.0	0	0.0%	0
<b>Total</b>		<b>\$27,000,000</b>		<b>\$27,055,713</b>

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

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

Developed Limited Reported Incurred Losses

Occurrence Period (1)	Months of Development 11/30/16 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1996/97	240.0	\$2,780,000	100.0%	\$2,780,000
1997/98	228.0	0	100.0%	0
1998/99	216.0	0	100.0%	0
1999/00	204.0	0	100.0%	0
2000/01	192.0	0	100.0%	0
2001/02	180.0	100,000	100.0%	100,000
2002/03	168.0	1,050,000	100.0%	1,050,000
2003/04	156.0	20,375,000	100.0%	20,375,000
2004/05	144.0	1,900,000	100.0%	1,900,000
2005/06	132.0	620,000	100.0%	620,000
2006/07	120.0	0	100.0%	0
2007/08	108.0	0	99.0%	0
2008/09	96.0	175,000	97.1%	180,285
2009/10	84.0	0	95.2%	0
2010/11	72.0	300,000	93.3%	321,546
2011/12	60.0	0	88.9%	0
2012/13	48.0	0	82.7%	0
2013/14	36.0	0	75.1%	0
2014/15	24.0	0	60.1%	0
2015/16	12.0	0	37.6%	0
<b>Total</b>		<b>\$27,300,000</b>		<b>\$27,326,831</b>

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

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



Developed Limited Case Reserves

Occurrence Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/16 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/16 (6)	Limited Case Reserves 11/30/16 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1996/97	240.0	100.0%	100.0%	100.0%	\$2,780,000	\$0	\$2,780,000
1997/98	228.0	100.0%	100.0%	100.0%	0	0	0
1998/99	216.0	100.0%	100.0%	100.0%	0	0	0
1999/00	204.0	100.0%	100.0%	100.0%	0	0	0
2000/01	192.0	100.0%	100.0%	100.0%	0	0	0
2001/02	180.0	100.0%	100.0%	100.0%	100,000	0	100,000
2002/03	168.0	100.0%	100.0%	100.0%	1,050,000	0	1,050,000
2003/04	156.0	100.0%	100.0%	100.0%	20,375,000	0	20,375,000
2004/05	144.0	100.0%	100.0%	100.0%	1,900,000	0	1,900,000
2005/06	132.0	98.0%	100.0%	100.0%	620,000	0	620,000
2006/07	120.0	94.3%	100.0%	100.0%	0	0	0
2007/08	108.0	89.8%	99.0%	90.3%	0	0	0
2008/09	96.0	80.2%	97.1%	85.2%	175,000	0	175,000
2009/10	84.0	67.9%	95.2%	84.9%	0	0	0
2010/11	72.0	56.6%	93.3%	84.6%	0	300,000	354,791
2011/12	60.0	28.3%	88.9%	84.5%	0	0	0
2012/13	48.0	10.9%	82.7%	80.5%	0	0	0
2013/14	36.0	2.2%	75.1%	74.6%	0	0	0
2014/15	24.0	0.0%	60.1%	60.1%	0	0	0
2015/16	12.0	0.0%	37.6%	37.6%	0	0	0
<b>Total</b>					<b>\$27,000,000</b>	<b>\$300,000</b>	<b>\$27,354,791</b>

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

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



COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Exhibit MM-Oak Forest-6

Preliminary Projected Ultimate Limited Losses to 2015/16

Occurrence 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 1996/97	\$2,780,000	\$2,780,000	\$2,780,000	\$2,780,000
1997/98	0	0	0	0
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	632,400	620,000	620,000	620,000
2006/07	0	0	0	0
2007/08	0	0	0	0
2008/09	218,313	180,285	175,000	175,000
2009/10	0	0	0	0
2010/11	0	321,546	354,791	344,818
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
<b>Total</b>	<b>\$27,055,713</b>	<b>\$27,326,831</b>	<b>\$27,354,791</b>	<b>\$27,344,818</b>

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

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

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

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

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Occurrence 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 (2016/17 = 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)
2006/07	\$0	353	\$0.00	1.495	\$0.00	\$844.82
2007/08	0	283	0.00	1.438	0.00	878.61
2008/09	175,000	348	503.15	1.382	695.49	913.75
2009/10	0	222	0.00	1.295	0.00	975.32
2010/11	344,818	233	1,482.91	1.234	1,830.59	1,023.15
2011/12	0	174	0.00	1.187	0.00	1,064.08
2012/13	0	62	0.00	1.154	0.00	1,094.40
2013/14	0	62	0.00	1.114	0.00	1,134.07
2014/15	0	19	0.00	1.075	0.00	1,174.50
2015/16	0	4	0.00	1.040	0.00	1,214.46

(7) Projected 2016/17 a-priori loss rate per Occupied Bed Equivalent \$1,263.04

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Occurrence Period (1)	Limited Paid Losses 11/30/16 (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)
2011/12	\$0	28.3%	\$1,064.08	174	\$132,438	\$132,438
2012/13	0	10.9%	1,094.40	62	60,344	60,344
2013/14	0	2.2%	1,134.07	62	68,642	68,642
2014/15	0	0.0%	1,174.50	19	22,319	22,319
2015/16	0	0.0%	1,214.46	4	5,415	5,415

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

Occurrence Period (1)	Limited Reported Incurred Losses 11/30/16 (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)
2011/12	\$0	88.9%	\$1,064.08	174	\$20,585	\$20,585
2012/13	0	82.7%	1,094.40	62	11,744	11,744
2013/14	0	75.1%	1,134.07	62	17,442	17,442
2014/15	0	60.1%	1,174.50	19	8,904	8,904
2015/16	0	37.6%	1,214.46	4	3,381	3,381

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

Occurrence Period (1)	Months of Development 11/30/16 (2)	Reported Claims 11/30/16 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2006/07	120.0	4	100.0%	4	353	0.01
2007/08	108.0	1	100.0%	1	283	0.00
2008/09	96.0	2	100.0%	2	348	0.01
2009/10	84.0	1	100.0%	1	222	0.00
2010/11	72.0	1	100.0%	1	233	0.00
2011/12	60.0	1	100.0%	1	174	0.01
2012/13	48.0	0	100.0%	0	62	0.00
2013/14	36.0	0	99.0%	0	62	0.00
2014/15	24.0	0	96.1%	0	19	0.00
2015/16	12.0	0	81.8%	0	4	0.00

II. Frequency Times Severity

Occurrence Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2016/17 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2016/17 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2006/07	\$0	4	\$0	1.495	\$0	\$182,807	\$731,228
2007/08	0	1	0	1.438	0	190,119	190,119
2008/09	175,000	2	87,500	1.382	120,947	197,724	395,448
2009/10	0	1	0	1.295	0	211,047	211,047
2010/11	344,818	1	344,818	1.234	425,663	221,397	221,397
2011/12	0	1	0	1.187	0	230,253	230,253
2012/13	0	0	0	1.154	0	236,813	0
2013/14	0	0	0	1.114	0	245,397	0
2014/15	0	0	0	1.075	0	254,147	0
2015/16	0	0	0	1.040	0	262,793	0
						(7) Projected 2016/17 average claim severity \$273,305	

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 2015/16

Occurrence 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 1996/97	\$2,780,000	\$2,780,000	\$2,780,000				\$2,780,000	\$2,780,000
1997/98	0	0	0					0
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	632,400	620,000	620,000				620,000	620,000
2006/07	0	0	0					0
2007/08	0	0	0					0
2008/09	218,313	180,285	175,000				233,500	175,000
2009/10	0	0	0				50,000	0
2010/11	0	321,546	354,791				300,000	300,000
2011/12	0	0	0	132,438	20,585	230,253	125,000	100,000
2012/13	0	0	0	60,344	11,744		100,000	65,000
2013/14	0	0	0	68,642	17,442		100,000	70,000
2014/15	0	0	0	22,319	8,904		90,000	70,000
2015/16	0	0	0	5,415	3,381		31,000	75,000
<b>Total</b>	<b>\$27,055,713</b>	<b>\$27,326,831</b>	<b>\$27,354,791</b>				<b>\$27,854,500</b>	<b>\$27,680,000</b>
2011/12 - 2015/16	0	0	0	289,158	62,056	230,253	446,000	380,000
to 2010/11	27,055,713	27,326,831	27,354,791				27,408,500	27,300,000
						<b>Change</b>		
						All years		-\$174,500
						2011/12 - 2015/16		-66,000
						to 2010/11		-108,500

(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 2016/17 and Subsequent

Occurrence Period (1)	Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2016/17 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2006/07	\$0	353	\$0.00	1.495	\$0.00
2007/08	0	283	0.00	1.438	0.00
2008/09	175,000	348	503.15	1.382	695.49
2009/10	0	222	0.00	1.295	0.00
2010/11	300,000	233	1,290.17	1.234	1,592.66
2011/12	100,000	174	576.04	1.187	683.74
2012/13	65,000	62	1,050.51	1.154	1,212.38
2013/14	70,000	62	1,131.31	1.114	1,259.97
2014/15	70,000	19	3,682.97	1.075	3,960.59
2015/16	75,000	4	16,819.16	1.040	17,491.93
<b>Total</b>	<b>\$855,000</b>	<b>1,759</b>	<b>\$486.17</b>		<b>\$2,689.68</b>

Occurrence 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)
2016/17	\$1,144.07	4	\$10,000	0.92	\$1,055.49	\$5,000
2017/18	1,189.84	4	10,000	0.92	1,097.71	5,000
2018/19	1,237.43	4	10,000	0.92	1,141.62	5,000

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

(3) was provided by the County.

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

(7) 2016/17 is based on (6) and actuarial judgment.  
Other period(s) based on 2016/17 plus a 4% trend.

(8) to 2016/17 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.31% 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, 2016

Occurrence Period (1)	Limited Paid Losses 11/30/16 (2)	Limited Case Reserves 11/30/16 (3)	Limited Reported Incurred Losses 11/30/16 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/16 (5)-(4) (6)	Estimated Outstanding Losses 11/30/16 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/16 (7)X(8) (9)
to 1996/97	\$2,780,000	\$0	\$2,780,000	\$2,780,000	\$0	\$0	1.00	\$0
1997/98	0	0	0	0	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	0.99	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	0.98	0
2010/11	0	300,000	300,000	300,000	0	300,000	0.97	291,927
2011/12	0	0	0	100,000	100,000	100,000	0.97	97,354
2012/13	0	0	0	65,000	65,000	65,000	0.97	62,875
2013/14	0	0	0	70,000	70,000	70,000	0.96	67,078
2014/15	0	0	0	70,000	70,000	70,000	0.95	66,282
2015/16	0	0	0	75,000	75,000	75,000	0.93	70,099
<b>Total</b>	<b>\$27,000,000</b>	<b>\$300,000</b>	<b>\$27,300,000</b>	<b>\$27,680,000</b>	<b>\$380,000</b>	<b>\$680,000</b>		<b>\$655,615</b>

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

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

(8) is based on a 1.31% 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, 2016 to November 30, 2017

Occurrence Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Months of Development 11/30/17 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/16 to 11/30/17 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/16 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/17 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/17 (9)X(10) (11)
to 1996/97	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1997/98	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1998/99	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2007/08	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2008/09	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2009/10	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.98	0
2010/11	72.0	56.6%	84.0	67.9%	26.1%	300,000	78,282	221,718	0.98	216,958
2011/12	60.0	28.3%	72.0	56.6%	39.5%	100,000	39,480	60,520	0.97	58,891
2012/13	48.0	10.9%	60.0	28.3%	19.5%	65,000	12,705	52,295	0.97	50,911
2013/14	36.0	2.2%	48.0	10.9%	8.9%	70,000	6,232	63,768	0.97	61,684
2014/15	24.0	0.0%	36.0	2.2%	2.2%	70,000	1,512	68,488	0.96	65,629
2015/16	12.0	0.0%	24.0	0.0%	0.0%	75,000	7	74,993	0.95	71,010
2016/17	0.0	0.0%	12.0	0.0%	0.0%	10,000	1	9,999	0.93	9,346
<b>Total</b>						<b>\$690,000</b>	<b>\$138,219</b>	<b>\$551,781</b>		<b>\$534,429</b>

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

(7) to 2015/16 is from Exhibit MM-Oak Forest-11. The amount for 2016/17 is from Exhibit MM-Oak Forest-10.

(10) is based on a 1.31% interest rate and the payout pattern in Exhibit MM-Oak Forest-2.



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

Occurrence 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 1996/97	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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	0.99	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%	221,718	84,544	137,174	0.98	134,704
2011/12	72.0	56.6%	84.0	67.9%	26.1%	60,520	15,792	44,728	0.98	43,768
2012/13	60.0	28.3%	72.0	56.6%	39.5%	52,295	20,646	31,649	0.97	30,797
2013/14	48.0	10.9%	60.0	28.3%	19.5%	63,768	12,464	51,304	0.97	49,946
2014/15	36.0	2.2%	48.0	10.9%	8.9%	68,488	6,098	62,390	0.97	60,351
2015/16	24.0	0.0%	36.0	2.2%	2.2%	74,993	1,620	73,373	0.96	70,310
2016/17	12.0	0.0%	24.0	0.0%	0.0%	9,999	1	9,998	0.95	9,467
2017/18	0.0	0.0%	12.0	0.0%	0.0%	10,000	1	9,999	0.93	9,346
<b>Total</b>						<b>\$561,781</b>	<b>\$141,166</b>	<b>\$420,615</b>		<b>\$408,689</b>

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

(7) to 2016/17 is from Exhibit MM-Oak Forest-12, (9). The amount for 2017/18 is from Exhibit MM-Oak Forest-10.

(10) is based on a 1.31% 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, 2018 to November 30, 2019

Occurrence 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 1996/97	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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	0.99	0
2010/11	96.0	80.2%	108.0	89.8%	48.5%	137,174	66,508	70,666	0.98	69,527
2011/12	84.0	67.9%	96.0	80.2%	38.1%	44,728	17,055	27,673	0.98	27,175
2012/13	72.0	56.6%	84.0	67.9%	26.1%	31,649	8,258	23,391	0.98	22,889
2013/14	60.0	28.3%	72.0	56.6%	39.5%	51,304	20,255	31,049	0.97	30,213
2014/15	48.0	10.9%	60.0	28.3%	19.5%	62,390	12,195	50,195	0.97	48,867
2015/16	36.0	2.2%	48.0	10.9%	8.9%	73,373	6,532	66,841	0.97	64,656
2016/17	24.0	0.0%	36.0	2.2%	2.2%	9,998	216	9,782	0.96	9,374
2017/18	12.0	0.0%	24.0	0.0%	0.0%	9,999	1	9,998	0.95	9,467
2018/19	0.0	0.0%	12.0	0.0%	0.0%	10,000	1	9,999	0.93	9,346
<b>Total</b>						<b>\$430,615</b>	<b>\$131,021</b>	<b>\$299,594</b>		<b>\$291,514</b>

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

(7) to 2017/18 is from Exhibit MM-Oak Forest-13, (9). The amount for 2018/19 is from Exhibit MM-Oak Forest-10.

(10) is based on a 1.31% interest rate and the payout pattern in Exhibit MM-Oak Forest-2.

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

Claim Number (1)	Date of Loss (2)	Occurrence Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/16 (5)	Unlimited Case Reserves 11/30/16 (6)	Unlimited Reported Incurred Losses 11/30/16 (7)
97005031	5/19/2004	2003/04	\$20,000,000	\$20,000,000	\$0	\$20,000,000

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.

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 1996/97							
1997/98	108	6,255	77,308			94	410
1998/99	108	10,103	82,779			89	406
1999/00	106	12,612	91,090			67	352
2000/01	78	14,340	91,232			70	336
2001/02	61	20,542	84,449			71	331
2002/03	67	23,156	88,763			70	341
2003/04	67	25,006	92,054			85	387
2004/05	67	31,162	85,787			83	392
2005/06	56	30,249	90,702			84	384
2006/07	39	29,012	75,083			82	353
2007/08	42	28,768	59,543			58	283
2008/09	46	27,785	72,464			79	348
2009/10	46	27,785	64,819			34	222
2010/11	46	33,000	64,819			34	233
2011/12	46	16,500	0			34	174
2012/13	0	0	0			23	62
2013/14	0	0	0			23	62
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	11,148	0	4

(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 2015. 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
Physicians	2.750
Housestaff	0.800 (residents and interns)

Data Summary as of November 30, 2016  
 Losses Limited to Self-Insured Retention

Occurrence Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Limited Paid Losses 11/30/16 (8)	Limited Case Reserves 11/30/16 (9)	Limited Reported Incurred Losses 11/30/16 (10)
to 1996/97	See Note	None	240.0	Not Provided	27	0	\$7,235,000	\$0	\$7,235,000
1997/98	Unlimited	None	228.0	272	7	0	3,255,000	0	3,255,000
1998/99	Unlimited	None	216.0	298	12	0	1,245,000	0	1,245,000
1999/00	Unlimited	None	204.0	315	6	0	2,485,000	0	2,485,000
2000/01	10,000,000	25,000,000	192.0	314	7	0	345,000	0	345,000
2001/02	15,000,000	50,000,000	180.0	379	9	0	200,000	0	200,000
2002/03	20,000,000	80,000,000	168.0	390	11	0	1,025,000	0	1,025,000
2003/04	20,000,000	None	156.0	385	11	0	7,860,000	0	7,860,000
2004/05	20,000,000	None	144.0	391	11	0	90,000	0	90,000
2005/06	20,000,000	None	132.0	381	7	0	425,000	0	425,000
2006/07	20,000,000	None	120.0	375	2	0	0	0	0
2007/08	20,000,000	None	108.0	389	2	0	300,000	0	300,000
2008/09	20,000,000	None	96.0	525	3	0	300,000	0	300,000
2009/10	40,000,000	None	84.0	373	4	0	800,000	0	800,000
2010/11	40,000,000	None	72.0	373	0	0	0	0	0
2011/12	40,000,000	None	60.0	363	4	1	1,815,000	250,000	2,065,000
2012/13	30,000,000	None	48.0	238	3	3	10,000	3,500,000	3,510,000
2013/14	30,000,000	None	36.0	238	2	2	0	600,000	600,000
2014/15	25,000,000	None	24.0	213	1	1	0	250,000	250,000
2015/16	25,000,000	80,000,000 *	12.0	221	1	1	0	2,500,000	2,500,000
<b>Total</b>					<b>130</b>	<b>8</b>	<b>\$27,390,000</b>	<b>\$7,100,000</b>	<b>\$34,490,000</b>

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

\* 2015/16 aggregate effective 7/1/15.

(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, 2016  
 Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Unlimited Paid Losses 11/30/16 (8)	Unlimited Case Reserves 11/30/16 (9)	Unlimited Reported Incurred Losses 11/30/16 (10)
to 1996/97	Unlimited	None	240.0	Not Provided	27	0	\$7,235,000	\$0	\$7,235,000
1997/98	Unlimited	None	228.0	272	7	0	3,255,000	0	3,255,000
1998/99	Unlimited	None	216.0	298	12	0	1,245,000	0	1,245,000
1999/00	Unlimited	None	204.0	315	6	0	2,485,000	0	2,485,000
2000/01	Unlimited	25,000,000	192.0	314	7	0	345,000	0	345,000
2001/02	Unlimited	50,000,000	180.0	379	9	0	200,000	0	200,000
2002/03	Unlimited	80,000,000	168.0	390	11	0	1,025,000	0	1,025,000
2003/04	Unlimited	None	156.0	385	11	0	7,860,000	0	7,860,000
2004/05	Unlimited	None	144.0	391	11	0	90,000	0	90,000
2005/06	Unlimited	None	132.0	381	7	0	425,000	0	425,000
2006/07	Unlimited	None	120.0	375	2	0	0	0	0
2007/08	Unlimited	None	108.0	389	2	0	300,000	0	300,000
2008/09	Unlimited	None	96.0	525	3	0	300,000	0	300,000
2009/10	Unlimited	None	84.0	373	4	0	800,000	0	800,000
2010/11	Unlimited	None	72.0	373	0	0	0	0	0
2011/12	Unlimited	None	60.0	363	4	1	1,815,000	250,000	2,065,000
2012/13	Unlimited	None	48.0	238	3	3	10,000	3,500,000	3,510,000
2013/14	Unlimited	None	36.0	238	2	2	0	600,000	600,000
2014/15	Unlimited	None	24.0	213	1	1	0	250,000	250,000
2015/16	Unlimited	80,000,000	12.0	221	1	1	0	2,500,000	2,500,000
<b>Total</b>					<b>130</b>	<b>8</b>	<b>\$27,390,000</b>	<b>\$7,100,000</b>	<b>\$34,490,000</b>

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

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	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).

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
10/1996/97	4	7	172	4,517	7,992	15,967	19,217	22,967	25,717	29,592	32,342	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842
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	23,630	27,350	37,650	37,925	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	0	0	0	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	1,260	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
2003/04	0	0	0	0	5,775	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
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	0	16	516	6,778	9,908	9,908	11,533	11,603	23,603	24,028	24,028	24,028	24,028	24,028	24,028	24,028	24,028	24,028	24,028
2006/07	0	0	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
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	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155
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	5,168	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
2011/12	0	20,100	20,825	24,390	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195	26,195
2012/13	0	850	850	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330	2,330
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	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
10/1996/97	1,971	24,913	26,276	1,769	1,998	1,204	1,195	1,120	1,151	1,093	1,046	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1997/98	1,986	1,000	1,419	1,031	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
1998/99	1,989	1,000	3,532	1,898	4,212	1,068	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
1999/00	2,001	1,000	311,700	1,321	1,300	1,561	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
2000/01	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	1,000	1,000	1,000	1,000	1,000	1,000
2002/03	0	0	0	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	0	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	0	103,000	1,023	12,837	1,361	1,074	1,164	1,006	2,034	1,018	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2005/06	0	1,000	1,621	77,245	1,000	2,364	1,000	1,000	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	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	0	1,000	1,290	3,302	1,364	1,170	1,582	1,000	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	1,036	1,171	1,074	1,059	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073
2009/10	0	1,036	1,171	1,074	1,059	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073
2010/11	0	1,036	1,171	1,074	1,059	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073
2011/12	0	1,036	1,171	1,074	1,059	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073
2012/13	0	1,000	2,741	1,074	1,059	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073
2013/14	0	1,000	2,741	1,074	1,059	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073
2014/15	0	1,000	2,741	1,074	1,059	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073
2015/16	0	1,000	2,741	1,074	1,059	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073	1,073
Average	1,561	130,300	36,225	8,013	1,625	1,236	1,130	1,025	1,287	1,012	1,006	1,000	1,000	1,000	1,000	1,000	1,246	1,000	1,000	1,000
Std 3	1,035	1,035	1,364	1,310	1,276	1,065	1,164	1,003	1,371	1,007	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Last 3	2,029	1,081	1,273	1,081	1,081	1,081	1,194	1,002	1,363	1,066	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Last 5	1,475	1,106	1,273	1,081	1,081	1,081	1,055	1,000	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-hi/low	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
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	1,022,717	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

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

Claim Period	Months of Development:					180-192	192-204	204-216	216-228	228-240	240
	12	24	36	48	60						
to 1/996/97											
1997/98	7,954	13,007	19,422	30,967	33,642	33,617	33,667	33,942	33,842	33,842	33,842
1998/99	1,500	17,850	20,160	17,620	17,205	16,230	15,975	15,925	14,175	14,175	14,175
1999/00	15,485	25,610	35,730	44,165	46,475	46,930	46,530	46,225	37,925	37,925	37,925
2000/01	8,668	7,778	8,093	8,911	8,706	21,206	15,706	11,706	11,706	11,706	11,706
2001/02	33,740	25,655	29,908	24,761	25,134	21,305	25,061	25,061	25,061	25,061	25,061
2002/03	26,711	16,022	5,770	8,413	8,248	6,788	5,668	5,316	5,316	5,316	5,316
2003/04	28,331	39,505	26,840	38,771	29,756	20,246	20,146	19,646	19,646	19,646	19,646
2004/05	9,450	27,041	20,842	24,110	21,345	19,465	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	13,858	25,603	25,603	25,603
2006/07	11,046	13,126	8,721	5,787	4,726	12,227	10,927	4,766	4,766	4,766	4,766
2007/08	24,827	12,544	17,152	18,477	9,555	10,005	8,255	8,405			
2008/09	5,235	6,890	9,775	10,255	13,503	12,388	11,203				
2009/10	5,095	8,253	15,550	16,368	13,503	12,388	11,203				
2010/11	770	3,900	8,530	11,105	11,183	10,673					
2011/12	23,923	34,253	39,927	39,455	39,045						
2012/13	6,925	12,000	29,150	39,255							
2013/14	1,560	7,155	6,400								
2014/15	7,000	8,225									
2015/16	5,190										

II. Limited Reported Incurred Loss Development

Claim Period	Months of Development:					180-192	192-204	204-216	216-228	228-240	240-Ult
	12-24	24-36	36-48	48-60	60-72						
to 1/996/97											
1997/98	1,769	1,493	1,594	1,086	0,999	0,997	1,016	0,988	0,973	1,005	1,027
1998/99	11,900	1,129	0,874	0,976	0,943	0,984	0,972	0,855	0,842	1,000	1,000
1999/00	1,666	1,364	1,236	1,052	1,010	0,866	1,148	0,891	0,820	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
2001/02	0,760	1,162	0,831	1,015	1,246	0,826	1,008	0,962	1,000	1,000	1,000
2002/03	0,600	0,360	1,458	0,980	0,823	0,838	0,938	0,996	1,000	1,000	1,000
2003/04	1,394	0,679	1,445	0,767	0,963	0,707	0,995	0,975	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
2005/06	2,519	0,629	1,097	0,694	0,973	0,827	1,126	1,641	1,000	0,938	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
2007/08	0,505	1,367	1,077	0,700	0,946	0,894	0,771	1,000	1,000	1,000	1,000
2008/09	1,316	1,419	1,049	0,932	1,047	0,825	1,018				
2009/10	1,620	1,884	1,053	0,825	0,917	0,904					
2010/11	5,065	2,187	1,302	1,007	0,954						
2011/12	1,432	1,166	0,988	0,990							
2012/13	1,733	2,429	1,347								
2013/14	4,587	0,894									
2014/15	1,175										
2015/16											
Average											
All	2,388	1,215	1,142	0,914	1,097	0,873	0,993	1,031	0,943	0,994	1,003
Wtd 3	1,768	1,413	1,157	0,952	0,966	0,878	0,875	1,347	1,000	0,876	1,000
Last 3	2,498	1,496	1,212	0,941	0,973	0,874	0,866	1,214	1,000	0,979	1,000
Last 5	2,564	1,746	1,135	0,915	0,962	0,875	0,980	1,000	1,000	1,000	1,000
x-tillow											
Previous	1,600	1,250	1,100	1,075	1,050	1,020	1,020	1,020	1,010	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
Cumulative	2,662	1,331	1,125	1,210	1,072	1,051	1,030	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%

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 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 1/996/97																					
1997/98	12	24	27	27	27	27	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
1998/99	9	40	43	46	47	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
1999/00	12	32	37	38	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
2000/01	76	94	102	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
2001/02	99	129	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
2002/03	87	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
2003/04	89	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129
2004/05	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
2005/06	82	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
2006/07	55	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
2007/08	31	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2008/09	31	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
2009/10	32	32	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2010/11	31	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
2011/12	35	36	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
2012/13	40	41	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
2013/14	33	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2014/15	29	31																			
2015/16	34																				

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 1/996/97																						
1997/98	2,000	1,125	1,000	1,000	1,074	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
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	
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	
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	
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	
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	
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	
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	1,122	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	
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	
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	
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	
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	
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	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	
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	
2013/14	1,030	1,000																				
2014/15	1,069																					
2015/16																						
Average All	1,456	1,036	1,008	1,003	1,007	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Wtd 3	1,039	1,027	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,041	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	
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	
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	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	
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	
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 - 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 1/996/07																					
1997/08	0.0%	0.1%	0.9%	14.6%	23.8%	47.5%	57.3%	67.4%	76.4%	90.3%	98.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1998/09	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%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1999/00	0.0%	4.7%	33.6%	38.6%	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%	68.1%	85.9%	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%	0.0%	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%	
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%	78.1%	78.1%	96.1%	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%	
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%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
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%	
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%	84.3%	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%	100.0%	100.0%	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	0.0%	58.7%	52.2%	61.8%	67.1%	48.4%	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%	
2012/13	0.0%	7.1%	2.9%	5.9%																	
2013/14	0.0%	0.0%	0.0%																		
2014/15	0.0%	0.0%	0.0%																		
2015/16	1.7%																				
Average																					
All	0.1%	6.4%	8.4%	20.0%	42.5%	55.0%	75.3%	82.5%	82.2%	98.2%	99.8%	100.0%	100.0%	96.5%	95.8%	94.7%	92.9%	100.0%	100.0%	100.0%	
Last 3	0.6%	2.5%	18.4%	31.1%	55.8%	58.9%	79.9%	99.0%	81.8%	97.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	92.9%	100.0%	100.0%	100.0%	
Last 5	0.0%	2.5%	1.0%	23.5%	49.0%	53.8%	78.4%	97.3%	98.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	92.9%	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%	98.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Developed Limited Paid Losses

Occurrence Period (1)	Months of Development 11/30/16 (2)	Limited Paid Losses 11/30/16 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1996/97	240.0	\$7,235,000	100.0%	\$7,235,000
1997/98	228.0	3,255,000	100.0%	3,255,000
1998/99	216.0	1,245,000	100.0%	1,245,000
1999/00	204.0	2,485,000	100.0%	2,485,000
2000/01	192.0	345,000	100.0%	345,000
2001/02	180.0	200,000	100.0%	200,000
2002/03	168.0	1,025,000	100.0%	1,025,000
2003/04	156.0	7,860,000	100.0%	7,860,000
2004/05	144.0	90,000	100.0%	90,000
2005/06	132.0	425,000	98.0%	433,500
2006/07	120.0	0	94.3%	0
2007/08	108.0	300,000	89.8%	334,152
2008/09	96.0	300,000	80.2%	374,250
2009/10	84.0	800,000	67.9%	1,177,641
2010/11	72.0	0	56.6%	0
2011/12	60.0	1,815,000	28.3%	6,412,254
2012/13	48.0	10,000	10.9%	91,856
2013/14	36.0	0	2.2%	0
2014/15	24.0	0	0.0%	0
2015/16	12.0	0	0.0%	0
<b>Total</b>		<b>\$27,390,000</b>		<b>\$32,563,653</b>

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

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

Developed Limited Reported Incurred Losses

Occurrence Period (1)	Months of Development 11/30/16 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1996/97	240.0	\$7,235,000	100.0%	\$7,235,000
1997/98	228.0	3,255,000	100.0%	3,255,000
1998/99	216.0	1,245,000	100.0%	1,245,000
1999/00	204.0	2,485,000	100.0%	2,485,000
2000/01	192.0	345,000	100.0%	345,000
2001/02	180.0	200,000	100.0%	200,000
2002/03	168.0	1,025,000	100.0%	1,025,000
2003/04	156.0	7,860,000	100.0%	7,860,000
2004/05	144.0	90,000	100.0%	90,000
2005/06	132.0	425,000	100.0%	425,000
2006/07	120.0	0	100.0%	0
2007/08	108.0	300,000	99.0%	303,000
2008/09	96.0	300,000	97.1%	309,060
2009/10	84.0	800,000	95.2%	840,643
2010/11	72.0	0	93.3%	0
2011/12	60.0	2,065,000	88.9%	2,323,974
2012/13	48.0	3,510,000	82.7%	4,246,457
2013/14	36.0	600,000	75.1%	798,479
2014/15	24.0	250,000	60.1%	415,875
2015/16	12.0	2,500,000	37.6%	6,653,993
<b>Total</b>		<b>\$34,490,000</b>		<b>\$40,056,481</b>

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

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

Developed Limited Case Reserves

Occurrence Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/16 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/16 (6)	Limited Case Reserves 11/30/16 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1996/97	240.0	100.0%	100.0%	100.0%	\$7,235,000	\$0	\$7,235,000
1997/98	228.0	100.0%	100.0%	100.0%	3,255,000	0	3,255,000
1998/99	216.0	100.0%	100.0%	100.0%	1,245,000	0	1,245,000
1999/00	204.0	100.0%	100.0%	100.0%	2,485,000	0	2,485,000
2000/01	192.0	100.0%	100.0%	100.0%	345,000	0	345,000
2001/02	180.0	100.0%	100.0%	100.0%	200,000	0	200,000
2002/03	168.0	100.0%	100.0%	100.0%	1,025,000	0	1,025,000
2003/04	156.0	100.0%	100.0%	100.0%	7,860,000	0	7,860,000
2004/05	144.0	100.0%	100.0%	100.0%	90,000	0	90,000
2005/06	132.0	98.0%	100.0%	100.0%	425,000	0	425,000
2006/07	120.0	94.3%	100.0%	100.0%	0	0	0
2007/08	108.0	89.8%	99.0%	90.3%	300,000	0	300,000
2008/09	96.0	80.2%	97.1%	85.2%	300,000	0	300,000
2009/10	84.0	67.9%	95.2%	84.9%	800,000	0	800,000
2010/11	72.0	56.6%	93.3%	84.6%	0	0	0
2011/12	60.0	28.3%	88.9%	84.5%	1,815,000	250,000	2,111,009
2012/13	48.0	10.9%	82.7%	80.5%	10,000	3,500,000	4,355,751
2013/14	36.0	2.2%	75.1%	74.6%	0	600,000	804,402
2014/15	24.0	0.0%	60.1%	60.1%	0	250,000	415,925
2015/16	12.0	0.0%	37.6%	37.6%	0	2,500,000	6,654,996
<b>Total</b>					<b>\$27,390,000</b>	<b>\$7,100,000</b>	<b>\$39,907,083</b>

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

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

Preliminary Projected Ultimate Limited Losses to 2015/16

Occurrence 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 1996/97	\$7,235,000	\$7,235,000	\$7,235,000	\$7,235,000
1997/98	3,255,000	3,255,000	3,255,000	3,255,000
1998/99	1,245,000	1,245,000	1,245,000	1,245,000
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	433,500	425,000	425,000	425,000
2006/07	0	0	0	0
2007/08	334,152	303,000	300,000	300,000
2008/09	374,250	309,060	300,000	300,000
2009/10	1,177,641	840,643	800,000	800,000
2010/11	0	0	0	0
2011/12	6,412,254	2,323,974	2,111,009	2,196,195
2012/13	91,856	4,246,457	4,355,751	3,885,644
2013/14	0	798,479	804,402	660,000
2014/15	0	415,875	415,925	332,720
2015/16	0	6,653,993	6,654,996	5,323,596
<b>Total</b>	<b>\$32,563,653</b>	<b>\$40,056,481</b>	<b>\$39,907,083</b>	<b>\$37,963,155</b>

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

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

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

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

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Occurrence 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 (2016/17 = 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)
2006/07	\$0	375	\$0.00	1.495	\$0.00	\$3,378.30
2007/08	300,000	389	770.48	1.438	1,107.60	3,513.43
2008/09	300,000	525	570.92	1.382	789.16	3,653.96
2009/10	800,000	373	2,145.73	1.295	2,778.70	3,900.18
2010/11	0	373	0.00	1.234	0.00	4,091.44
2011/12	2,196,195	363	6,052.89	1.187	7,184.65	4,255.10
2012/13	3,885,644	238	16,318.75	1.154	18,833.41	4,376.33
2013/14	660,000	238	2,771.84	1.114	3,087.07	4,534.96
2014/15	332,720	213	1,558.65	1.075	1,676.14	4,696.67
2015/16	5,323,596	221	24,086.58	1.040	25,050.04	4,856.45

(7) Projected 2016/17 a-priori loss rate per Occupied Bed Equivalent \$5,050.71

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Occurrence Period (1)	Limited Paid Losses 11/30/16 (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)
2011/12	\$1,815,000	28.3%	\$4,255.10	363	\$1,106,893	\$2,921,893
2012/13	10,000	10.9%	4,376.33	238	928,602	938,602
2013/14	0	2.2%	4,534.96	238	1,056,305	1,056,305
2014/15	0	0.0%	4,696.67	213	1,002,402	1,002,402
2015/16	0	0.0%	4,856.45	221	1,073,272	1,073,272

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

Occurrence Period (1)	Limited Reported Incurred Losses 11/30/16 (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)
2011/12	\$2,065,000	88.9%	\$4,255.10	363	\$172,045	\$2,237,045
2012/13	3,510,000	82.7%	4,376.33	238	180,720	3,690,720
2013/14	600,000	75.1%	4,534.96	238	268,412	868,412
2014/15	250,000	60.1%	4,696.67	213	399,888	649,888
2015/16	2,500,000	37.6%	4,856.45	221	670,089	3,170,089

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

Occurrence Period (1)	Months of Development 11/30/16 (2)	Reported Claims 11/30/16 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2006/07	120.0	2	100.0%	2	375	0.01
2007/08	108.0	2	100.0%	2	389	0.01
2008/09	96.0	3	100.0%	3	525	0.01
2009/10	84.0	4	100.0%	4	373	0.01
2010/11	72.0	0	100.0%	0	373	0.00
2011/12	60.0	4	100.0%	4	363	0.01
2012/13	48.0	3	100.0%	3	238	0.01
2013/14	36.0	2	99.0%	2	238	0.01
2014/15	24.0	1	96.1%	1	213	0.00
2015/16	12.0	1	81.8%	1	221	0.00

II. Frequency Times Severity

Occurrence Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2016/17 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2016/17 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2006/07	\$0	2	\$0	1.495	\$0	\$440,259	\$880,517
2007/08	300,000	2	150,000	1.438	215,632	457,869	915,738
2008/09	300,000	3	100,000	1.382	138,225	476,184	1,428,551
2009/10	800,000	4	200,000	1.295	258,999	508,270	2,033,080
2010/11	0	0	0	1.234	0	533,195	0
2011/12	2,196,195	4	549,049	1.187	651,709	554,523	2,218,093
2012/13	3,885,644	3	1,295,215	1.154	1,494,803	570,323	1,710,968
2013/14	660,000	2	330,000	1.114	367,530	590,995	1,181,990
2014/15	332,720	1	332,720	1.075	357,800	612,069	612,069
2015/16	5,323,596	1	5,323,596	1.040	5,536,540	632,891	632,891
						(7) Projected 2016/17 average claim severity \$658,207	

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 2015/16

Occurrence 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 1996/97	\$7,235,000	\$7,235,000	\$7,235,000				\$7,235,000	\$7,235,000
1997/98	3,255,000	3,255,000	3,255,000				3,255,000	3,255,000
1998/99	1,245,000	1,245,000	1,245,000				1,245,000	1,245,000
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	433,500	425,000	425,000				2,200,000	425,000
2006/07	0	0	0					0
2007/08	334,152	303,000	300,000				325,000	300,000
2008/09	374,250	309,060	300,000				350,000	300,000
2009/10	1,177,641	840,643	800,000				900,000	800,000
2010/11	0	0	0				300,000	100,000
2011/12	6,412,254	2,323,974	2,111,009	2,921,893	2,237,045	2,218,093	2,500,000	2,250,000
2012/13	91,856	4,246,457	4,355,751	938,602	3,690,720	1,710,968	2,100,000	4,250,000
2013/14	0	798,479	804,402	1,056,305	868,412	1,181,990	1,300,000	1,000,000
2014/15	0	415,875	415,925	1,002,402	649,888	612,069	1,000,000	850,000
2015/16	0	6,653,993	6,654,996	1,073,272	3,170,089	632,891	1,184,000	4,000,000
<b>Total</b>	<b>\$32,563,653</b>	<b>\$40,056,481</b>	<b>\$39,907,083</b>				<b>\$35,899,000</b>	<b>\$38,015,000</b>
2011/12 - 2015/16	6,504,110	14,438,778	14,342,083	6,992,474	10,616,154	6,356,011	8,084,000	12,350,000
to 2010/11	26,059,543	25,617,703	25,565,000				27,815,000	25,665,000
						<b>Change</b>		
						All years		\$2,116,000
						2011/12 - 2015/16		4,266,000
						to 2010/11		-2,150,000

(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 2016/17 and Subsequent

Occurrence Period (1)	Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2016/17 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2006/07	\$0	375	\$0.00	1.495	\$0.00
2007/08	300,000	389	770.48	1.438	1,107.60
2008/09	300,000	525	570.92	1.382	789.16
2009/10	800,000	373	2,145.73	1.295	2,778.70
2010/11	100,000	373	268.22	1.234	331.10
2011/12	2,250,000	363	6,201.18	1.187	7,360.67
2012/13	4,250,000	238	17,848.95	1.154	20,599.41
2013/14	1,000,000	238	4,199.75	1.114	4,677.38
2014/15	850,000	213	3,981.89	1.075	4,282.04
2015/16	4,000,000	221	18,097.98	1.040	18,821.89
<b>Total</b>	<b>\$13,850,000</b>	<b>3,309</b>	<b>\$4,185.89</b>		<b>\$6,074.79</b>

Occurrence 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)
2016/17	\$5,403.90	221	\$1,190,000	0.92	\$4,985.49	\$1,100,000
2017/18	5,620.05	221	1,240,000	0.92	5,184.91	1,150,000
2018/19	5,844.85	221	1,290,000	0.92	5,392.31	1,190,000

(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) 2016/17 is based on (6) and actuarial judgment.  
Other period(s) based on 2016/17 plus a 4% trend.

(8) to 2016/17 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.31% 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, 2016

Occurrence Period (1)	Limited Paid Losses 11/30/16 (2)	Limited Case Reserves 11/30/16 (3)	Limited Reported Incurred Losses 11/30/16 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/16 (5)-(4) (6)	Estimated Outstanding Reported Losses 11/30/16 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/16 (7)X(8) (9)
to 1996/97	\$7,235,000	\$0	\$7,235,000	\$7,235,000	\$0	\$0	1.00	\$0
1997/98	3,255,000	0	3,255,000	3,255,000	0	0	1.00	0
1998/99	1,245,000	0	1,245,000	1,245,000	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	0.99	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	0.98	0
2010/11	0	0	0	100,000	100,000	100,000	0.97	97,309
2011/12	1,815,000	250,000	2,065,000	2,250,000	185,000	435,000	0.97	423,489
2012/13	10,000	3,500,000	3,510,000	4,250,000	740,000	4,240,000	0.97	4,101,414
2013/14	0	600,000	600,000	1,000,000	400,000	1,000,000	0.96	958,253
2014/15	0	250,000	250,000	850,000	600,000	850,000	0.95	804,857
2015/16	0	2,500,000	2,500,000	4,000,000	1,500,000	4,000,000	0.93	3,738,610
<b>Total</b>	<b>\$27,390,000</b>	<b>\$7,100,000</b>	<b>\$34,490,000</b>	<b>\$38,015,000</b>	<b>\$3,525,000</b>	<b>\$10,625,000</b>		<b>\$10,123,932</b>

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

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

(8) is based on a 1.31% interest rate and the payout pattern in Exhibit MM-Provident-2.



COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Exhibit MM-Provident-12

Projected Losses Paid December 1, 2016 to November 30, 2017

Occurrence Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Months of Development 11/30/17 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/16 to 11/30/17 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/16 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/17 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/17 (9)X(10) (11)
to 1996/97	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1997/98	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1998/99	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2007/08	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2008/09	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2009/10	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.98	0
2010/11	72.0	56.6%	84.0	67.9%	26.1%	100,000	26,094	73,906	0.98	72,319
2011/12	60.0	28.3%	72.0	56.6%	39.5%	435,000	171,738	263,262	0.97	256,178
2012/13	48.0	10.9%	60.0	28.3%	19.5%	4,240,000	828,773	3,411,227	0.97	3,320,959
2013/14	36.0	2.2%	48.0	10.9%	8.9%	1,000,000	89,031	910,969	0.97	881,194
2014/15	24.0	0.0%	36.0	2.2%	2.2%	850,000	18,356	831,644	0.96	796,925
2015/16	12.0	0.0%	24.0	0.0%	0.0%	4,000,000	363	3,999,637	0.95	3,787,221
2016/17	0.0	0.0%	12.0	0.0%	0.0%	1,190,000	108	1,189,892	0.93	1,112,136
Total						\$11,815,000	\$1,134,463	\$10,680,537		\$10,226,932

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

(7) to 2015/16 is from Exhibit MM-Provident-11. The amount for 2016/17 is from Exhibit MM-Provident-10.

(10) is based on a 1.31% interest rate and the payout pattern in Exhibit MM-Provident-2.

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

Occurrence 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 1996/97	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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	0.99	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%	73,906	28,181	45,725	0.98	44,902
2011/12	72.0	56.6%	84.0	67.9%	26.1%	263,262	68,695	194,567	0.98	190,390
2012/13	60.0	28.3%	72.0	56.6%	39.5%	3,411,227	1,346,756	2,064,471	0.97	2,008,915
2013/14	48.0	10.9%	60.0	28.3%	19.5%	910,969	178,063	732,906	0.97	713,512
2014/15	36.0	2.2%	48.0	10.9%	8.9%	831,644	74,042	757,602	0.97	732,840
2015/16	24.0	0.0%	36.0	2.2%	2.2%	3,999,637	86,375	3,913,262	0.96	3,749,895
2016/17	12.0	0.0%	24.0	0.0%	0.0%	1,189,892	108	1,189,784	0.95	1,126,596
2017/18	0.0	0.0%	12.0	0.0%	0.0%	1,240,000	112	1,239,888	0.93	1,158,865
<b>Total</b>						<b>\$11,920,537</b>	<b>\$1,782,332</b>	<b>\$10,138,205</b>		<b>\$9,725,915</b>

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

(7) to 2016/17 is from Exhibit MM-Provident-12, (9). The amount for 2017/18 is from Exhibit MM-Provident-10.

(10) is based on a 1.31% 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, 2018 to November 30, 2019

Occurrence 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 1996/97	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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	0.99	0
2010/11	96.0	80.2%	108.0	89.8%	48.5%	45,725	22,170	23,555	0.98	23,175
2011/12	84.0	67.9%	96.0	80.2%	38.1%	194,567	74,191	120,376	0.98	118,209
2012/13	72.0	56.6%	84.0	67.9%	26.1%	2,064,471	538,702	1,525,769	0.98	1,493,013
2013/14	60.0	28.3%	72.0	56.6%	39.5%	732,906	289,352	443,554	0.97	431,618
2014/15	48.0	10.9%	60.0	28.3%	19.5%	757,602	148,085	609,517	0.97	593,388
2015/16	36.0	2.2%	48.0	10.9%	8.9%	3,913,262	348,403	3,564,859	0.97	3,448,341
2016/17	24.0	0.0%	36.0	2.2%	2.2%	1,189,784	25,694	1,164,090	0.96	1,115,493
2017/18	12.0	0.0%	24.0	0.0%	0.0%	1,239,888	112	1,239,776	0.95	1,173,933
2018/19	0.0	0.0%	12.0	0.0%	0.0%	1,290,000	117	1,289,883	0.93	1,205,593
<b>Total</b>						<b>\$11,428,205</b>	<b>\$1,446,826</b>	<b>\$9,981,379</b>		<b>\$9,602,763</b>

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

(7) to 2017/18 is from Exhibit MM-Provident-13, (9). The amount for 2018/19 is from Exhibit MM-Provident-10.

(10) is based on a 1.31% 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)	Occurrence Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/16 (5)	Unlimited Case Reserves 11/30/16 (6)	Unlimited Reported Incurred Losses 11/30/16 (7)
97006011	2/20/2004	2003/04	\$20,000,000	\$1,500,000	\$0	\$1,500,000
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	1,500,000	1,500,000
97010465	11/5/2013	2012/13	30,000,000	0	1,500,000	1,500,000
97012730	12/30/2015	2015/16	25,000,000	0	2,500,000	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.



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 1996/97							
1997/98	70	52,833	47,555	998	401	28	272
1998/99	71	57,364	57,720	1,348	595	32	298
1999/00	71	57,449	59,353	1,304	644	38	315
2000/01	71	53,876	59,623	1,646	852	40	314
2001/02	75	52,325	62,898	1,652	950	63	379
2002/03	80	50,888	64,367	2,233	702	66	390
2003/04	78	51,988	50,698	2,371	450	66	385
2004/05	72	50,678	46,053	2,012	925	72	391
2005/06	76	47,949	45,248	1,853	656	69	381
2006/07	60	43,563	36,774	2,053	705	77	375
2007/08	57	40,370	42,204	1,885	604	85	389
2008/09	53	39,647	44,955	1,627	605	136	525
2009/10	45	40,000	49,663	1,505	605	83	373
2010/11	45	40,000	49,663	1,505	605	83	373
2011/12	45	35,000	49,663	1,505	605	83	363
2012/13	25	38,450	49,663	1,505	605	42	238
2013/14	25	38,450	49,663	1,505	605	42	238
2014/15	25	22,650	49,663	1,505	605	45	213
2015/16	25	22,260	49,663	1,505	605	48	221
2016/17	25	22,260	49,663	1,505	605	48	221

(2) through (7) were provided by the County. (4) through (6) assumes no change from 2009/10.

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 2015. 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
Physicians	2.750
Housestaff	0.800 (residents and interns)

Data Summary as of November 30, 2016  
 Losses Limited to Self-Insured Retention

Occurrence Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Limited Paid Losses 11/30/16 (8)	Limited Case Reserves 11/30/16 (9)	Limited Reported Incurred Losses 11/30/16 (10)
to 1996/97	See Note	None	240.0	Not Provided	122	0	\$35,222,608	\$0	\$35,222,608
1997/98	Unlimited	None	228.0	Not Provided	2	0	8,500,000	0	8,500,000
1998/99	Unlimited	None	216.0	Not Provided	1	0	0	0	0
1999/00	Unlimited	None	204.0	Not Provided	0	0	0	0	0
2000/01	10,000,000	25,000,000	192.0	Not Provided	1	0	0	0	0
2001/02	15,000,000	50,000,000	180.0	Not Provided	6	0	750,000	0	750,000
2002/03	20,000,000	80,000,000	168.0	Not Provided	7	0	800,000	0	800,000
2003/04	20,000,000	None	156.0	Not Provided	8	0	0	0	0
2004/05	20,000,000	None	144.0	Not Provided	3	0	0	0	0
2005/06	20,000,000	None	132.0	Not Provided	4	0	1,320	0	1,320
2006/07	20,000,000	None	120.0	Not Provided	0	0	0	0	0
2007/08	20,000,000	None	108.0	Not Provided	0	0	0	0	0
2008/09	20,000,000	None	96.0	Not Provided	0	0	0	0	0
2009/10	40,000,000	None	84.0	443	1	0	0	0	0
2010/11	40,000,000	None	72.0	443	2	0	0	0	0
2011/12	40,000,000	None	60.0	443	1	0	0	0	0
2012/13	30,000,000	None	48.0	408	2	0	0	0	0
2013/14	30,000,000	None	36.0	408	0	0	0	0	0
2014/15	25,000,000	None	24.0	249	1	1	0	50,000	50,000
2015/16	25,000,000	80,000,000 *	12.0	247	0	0	0	0	0
<b>Total</b>					<b>161</b>	<b>1</b>	<b>\$45,273,928</b>	<b>\$50,000</b>	<b>\$45,323,928</b>

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

\* 2015/16 aggregate effective 7/1/15.

(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, 2016  
Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Unlimited Paid Losses 11/30/16 (8)	Unlimited Case Reserves 11/30/16 (9)	Unlimited Reported Incurred Losses 11/30/16 (10)
to 1996/97	Unlimited	None	240.0	Not Provided	122	0	\$35,222,608	\$0	\$35,222,608
1997/98	Unlimited	None	228.0	Not Provided	2	0	8,500,000	0	8,500,000
1998/99	Unlimited	None	216.0	Not Provided	1	0	0	0	0
1999/00	Unlimited	None	204.0	Not Provided	0	0	0	0	0
2000/01	Unlimited	25,000,000	192.0	Not Provided	1	0	0	0	0
2001/02	Unlimited	50,000,000	180.0	Not Provided	6	0	750,000	0	750,000
2002/03	Unlimited	80,000,000	168.0	Not Provided	7	0	800,000	0	800,000
2003/04	Unlimited	None	156.0	Not Provided	8	0	0	0	0
2004/05	Unlimited	None	144.0	Not Provided	3	0	0	0	0
2005/06	Unlimited	None	132.0	Not Provided	4	0	1,320	0	1,320
2006/07	Unlimited	None	120.0	Not Provided	0	0	0	0	0
2007/08	Unlimited	None	108.0	Not Provided	0	0	0	0	0
2008/09	Unlimited	None	96.0	Not Provided	0	0	0	0	0
2009/10	Unlimited	None	84.0	443	1	0	0	0	0
2010/11	Unlimited	None	72.0	443	2	0	0	0	0
2011/12	Unlimited	None	60.0	443	1	0	0	0	0
2012/13	Unlimited	None	48.0	408	2	0	0	0	0
2013/14	Unlimited	None	36.0	408	0	0	0	0	0
2014/15	Unlimited	None	24.0	249	1	1	0	50,000	50,000
2015/16	Unlimited	80,000,000	12.0	247	0	0	0	0	0
<b>Total</b>					<b>161</b>	<b>1</b>	<b>\$45,273,928</b>	<b>\$50,000</b>	<b>\$45,323,928</b>

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

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	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).

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

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

I. Historical Limited Paid Losses (\$000)

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
10/1996/97																					
1997/98	4	7	172	4,517	7,992	15,987	19,217	22,987	25,717	29,592	32,342	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842
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	11,175	11,175	11,175	11,175
1999/00	0	12,065	12,065	17,115	17,650	23,630	27,830	37,630	37,925	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	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	11,706
2001/02	0	0	30	9,351	12,349	16,054	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
2002/03	10	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	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	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	18,715
2005/06	0	1	516	528	6,778	9,908	9,908	11,533	11,603	23,603	24,028	24,028	24,028	24,028	24,028	24,028	24,028	24,028	24,028	24,028	24,028
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	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	8,427
2008/09	0	0	2,445	3,155	3,155	4,405	5,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155	8,155
2009/10	0	0	0	2,318	7,653	10,438	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203
2010/11	0	0	0	2,850	4,878	5,168	5,168	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	5,168
2011/12	0	20,100	20,825	24,390	26,195																
2012/13	0	850	850	2,330																	
2013/14	0	0	0	0																	
2014/15	0	0	0	0																	
2015/16	90																				

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	
10/1996/97																					
1997/98	1,971	24,913	26,276	1,769	1,998	1,204	1,195	1,120	1,151	1,093	1,046	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1998/99		1,000	1,419	1,031	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	1,000
1999/00			3,532	1,898	4,212	1,068	1,359	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
2000/01			311,700	1,321	1,300	1,000	1,000	1,000	1,000	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	1,150	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	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2003/04				1,897	1,995	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	1,000
2004/05		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	1,000
2005/06		103,000	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	1,000
2006/07		1,000	1,621	77,245	1,000	2,364	1,000	1,000	1,000	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	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	1,000
2008/09		1,000	1,290	1,000	1,396	1,170	1,582	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2009/10				3,302	1,364	1,073															
2010/11		1,036	1,171	1,712	1,059																
2011/12				1,074																	
2012/13		1,000	2,741																		
2013/14																					
2014/15																					
2015/16																					
Average All	1,561	130,300	36,225	8,013	1,625	1,236	1,130	1,025	1,287	1,012	1,006	1,000	1,000	1,000	1,000	1,000	1,246	1,000	1,000	1,000	1,000
Wtd 3		1,035	1,364	1,310	1,276	1,065	1,164	1,003	1,371	1,007	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Last 3				2,029	1,273	1,081	1,194	1,002	1,363	1,006	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Last 5				1,475	1,273	1,106	1,055	1,000	1,018	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
x-hi/low																					
Previous	2,000	120,000	5,000	2,600	2,000	1,200	1,180	1,120	1,050	1,040	1,020	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Selected	2,000	120,000	5,000	2,600	2,000	1,200	1,180	1,120	1,050	1,040	1,020	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Cumulative	1,022,717	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	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%	100.0%

Amounts are limited (net of excess insurance).

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

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

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

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 1/996/97																					
1997/98	7,954	13,007	19,422	30,967	33,642	33,617	33,617	34,067	33,667	32,767	32,942	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842	33,842	
1998/99	1,500	17,850	20,160	17,620	17,205	16,230	15,975	15,925	13,275	11,175	11,175	11,175	11,175	14,175	14,175	14,175	14,175	14,175	14,175	14,175	
1999/00	15,485	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	8,083	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	25,655	29,908	24,761	25,134	21,305	25,861	25,861	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	26,711	16,022	5,770	8,413	8,248	6,248	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	28,646	20,246	20,246	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	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	15,603	
2006/07	11,046	13,126	8,721	5,787	4,726	5,446	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	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	8,405	8,405	8,405	8,405	8,405	8,405	8,405	8,405	8,405	8,405	8,405	8,405	
2009/10	5,095	8,253	15,550	16,368	13,503	12,388	13,503	12,388	12,388	12,388	12,388	12,388	12,388	12,388	12,388	12,388	12,388	12,388	12,388	12,388	
2010/11	770	3,900	8,530	11,105	11,183	10,673	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	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	39,045	
2012/13	6,925	12,000	29,150	39,255	39,255	39,255	39,255	39,255	39,255	39,255	39,255	39,255	39,255	39,255	39,255	39,255	39,255	39,255	39,255	39,255	
2013/14	1,560	7,155	6,400																		
2014/15	7,000	8,225																			
2015/16	5,190																				

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 1/996/97																					
1997/98	1,769	1,493	1,594	1,086	0,999	0,997	1,016	0,988	0,973	1,005	1,027	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
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	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
1999/00	1,666	1,364	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	1,010	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	0,600	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	0,360	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	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	0,961	0,995	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	0,981	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	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	1,316	1,419	1,049	0,932	1,047	0,825	1,018														
2009/10	1,620	1,884	1,053	0,825	0,917	0,904															
2010/11	5,065	2,187	1,302	1,007	0,954																
2011/12	1,432	1,166	0,988	0,990																	
2012/13	1,733	2,429	1,347																		
2013/14	4,587	0,894																			
2014/15	1,175																				
2015/16																					
Average	2,388	1,215	1,142	0,914	1,097	0,873	0,993	1,031	0,943	0,994	1,003	1,000	1,000	1,000	1,000	1,000	1,088	1,000	1,000	1,000	
All	1,768	1,413	1,157	0,952	0,966	0,878	0,875	1,347	1,000	0,876	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Wtd 3	2,498	1,496	1,212	0,941	0,973	0,874	0,866	1,214	1,000	0,979	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Last 3	2,584	1,746	1,135	0,915	0,962	0,875	0,980	1,000	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-Hilow																					
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	1,072	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	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, Stroger and Provident combined.

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

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 1/996/97																					
1997/98	12	24	27	27	27	27	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
1998/99	9	40	43	46	47	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
1999/00	12	32	37	38	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
2000/01	76	94	102	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
2001/02	99	129	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
2002/03	87	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
2003/04	89	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129
2004/05	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
2005/06	82	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
2006/07	55	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
2007/08	31	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2008/09	31	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
2009/10	32	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2010/11	31	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
2011/12	35	36	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
2012/13	40	41	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
2013/14	33	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2014/15	29	31																			
2015/16	34																				

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 1/996/97																						
1997/98	2,000	1,125	1,000	1,000	1,074	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
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	
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	
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	
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	
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	
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	
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	1,122	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	
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	
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	
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	
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	
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	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	
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	
2013/14	1,030	1,000																				
2014/15	1,069																					
2015/16																						
Average All	1,456	1,036	1,008	1,003	1,007	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Wtd 3	1,039	1,027	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	1,041	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	
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	
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	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	
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	
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 1/996/07																						
1997/08	0.0%	0.1%	0.9%	14.6%	23.8%	47.5%	57.3%	67.4%	76.4%	90.3%	98.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1998/09	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%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1999/00	0.0%	4.7%	33.6%	38.6%	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%	68.1%	85.9%	96.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2002/03	0.0%	0.0%	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%	96.1%	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%	2.1%	39.3%	55.1%	71.5%	73.9%	45.3%	92.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
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%	100.0%	100.0%	100.0%	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	0.0%	58.7%	52.2%	61.8%	67.1%	48.4%	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%	
2012/13	0.0%	7.1%	2.9%	5.9%																		
2013/14	0.0%	0.0%	0.0%																			
2014/15	0.0%	0.0%	0.0%																			
2015/16	1.7%																					
Average																						
All	0.1%	6.4%	8.4%	20.0%	42.5%	55.0%	75.3%	82.5%	82.2%	98.2%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Last 3	0.6%	2.5%	18.4%	31.1%	55.8%	58.9%	79.9%	99.0%	81.8%	97.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Last 5	0.0%	2.5%	1.0%	23.5%	49.0%	53.8%	78.4%	97.3%	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%	98.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	



Developed Limited Paid Losses

Occurrence Period (1)	Months of Development 11/30/16 (2)	Limited Paid Losses 11/30/16 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1996/97	240.0	\$35,222,608	100.0%	\$35,222,608
1997/98	228.0	8,500,000	100.0%	8,500,000
1998/99	216.0	0	100.0%	0
1999/00	204.0	0	100.0%	0
2000/01	192.0	0	100.0%	0
2001/02	180.0	750,000	100.0%	750,000
2002/03	168.0	800,000	100.0%	800,000
2003/04	156.0	0	100.0%	0
2004/05	144.0	0	100.0%	0
2005/06	132.0	1,320	98.0%	1,346
2006/07	120.0	0	94.3%	0
2007/08	108.0	0	89.8%	0
2008/09	96.0	0	80.2%	0
2009/10	84.0	0	67.9%	0
2010/11	72.0	0	56.6%	0
2011/12	60.0	0	28.3%	0
2012/13	48.0	0	10.9%	0
2013/14	36.0	0	2.2%	0
2014/15	24.0	0	0.0%	0
2015/16	12.0	0	0.0%	0
<b>Total</b>		<b>\$45,273,928</b>		<b>\$45,273,954</b>

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

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

Developed Limited Reported Incurred Losses

Occurrence Period (1)	Months of Development 11/30/16 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1996/97	240.0	\$35,222,608	100.0%	\$35,222,608
1997/98	228.0	8,500,000	100.0%	8,500,000
1998/99	216.0	0	100.0%	0
1999/00	204.0	0	100.0%	0
2000/01	192.0	0	100.0%	0
2001/02	180.0	750,000	100.0%	750,000
2002/03	168.0	800,000	100.0%	800,000
2003/04	156.0	0	100.0%	0
2004/05	144.0	0	100.0%	0
2005/06	132.0	1,320	100.0%	1,320
2006/07	120.0	0	100.0%	0
2007/08	108.0	0	99.0%	0
2008/09	96.0	0	97.1%	0
2009/10	84.0	0	95.2%	0
2010/11	72.0	0	93.3%	0
2011/12	60.0	0	88.9%	0
2012/13	48.0	0	82.7%	0
2013/14	36.0	0	75.1%	0
2014/15	24.0	50,000	60.1%	83,175
2015/16	12.0	0	37.6%	0
<b>Total</b>		<b>\$45,323,928</b>		<b>\$45,357,103</b>

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

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



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

Exhibit MM-Unspecified-5

Developed Limited Case Reserves

Occurrence Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/16 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/16 (6)	Limited Case Reserves 11/30/16 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1996/97	240.0	100.0%	100.0%	100.0%	\$35,222,608	\$0	\$35,222,608
1997/98	228.0	100.0%	100.0%	100.0%	8,500,000	0	8,500,000
1998/99	216.0	100.0%	100.0%	100.0%	0	0	0
1999/00	204.0	100.0%	100.0%	100.0%	0	0	0
2000/01	192.0	100.0%	100.0%	100.0%	0	0	0
2001/02	180.0	100.0%	100.0%	100.0%	750,000	0	750,000
2002/03	168.0	100.0%	100.0%	100.0%	800,000	0	800,000
2003/04	156.0	100.0%	100.0%	100.0%	0	0	0
2004/05	144.0	100.0%	100.0%	100.0%	0	0	0
2005/06	132.0	98.0%	100.0%	100.0%	1,320	0	1,320
2006/07	120.0	94.3%	100.0%	100.0%	0	0	0
2007/08	108.0	89.8%	99.0%	90.3%	0	0	0
2008/09	96.0	80.2%	97.1%	85.2%	0	0	0
2009/10	84.0	67.9%	95.2%	84.9%	0	0	0
2010/11	72.0	56.6%	93.3%	84.6%	0	0	0
2011/12	60.0	28.3%	88.9%	84.5%	0	0	0
2012/13	48.0	10.9%	82.7%	80.5%	0	0	0
2013/14	36.0	2.2%	75.1%	74.6%	0	0	0
2014/15	24.0	0.0%	60.1%	60.1%	0	50,000	83,185
2015/16	12.0	0.0%	37.6%	37.6%	0	0	0
<b>Total</b>					<b>\$45,273,928</b>	<b>\$50,000</b>	<b>\$45,357,113</b>

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

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

Preliminary Projected Ultimate Limited Losses to 2015/16

Occurrence 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 1996/97	\$35,222,608	\$35,222,608	\$35,222,608	\$35,222,608
1997/98	8,500,000	8,500,000	8,500,000	8,500,000
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	1,346	1,320	1,320	1,320
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	83,175	83,185	66,544
2015/16	0	0	0	0
<b>Total</b>	<b>\$45,273,954</b>	<b>\$45,357,103</b>	<b>\$45,357,113</b>	<b>\$45,340,472</b>

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

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

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

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

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Occurrence 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 (2016/17 = 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)
2006/07	\$0	443	\$0.00	1.495	\$0.00	\$19.23
2007/08	0	443	0.00	1.438	0.00	20.00
2008/09	0	443	0.00	1.382	0.00	20.80
2009/10	0	443	0.00	1.295	0.00	22.20
2010/11	0	443	0.00	1.234	0.00	23.29
2011/12	0	443	0.00	1.187	0.00	24.22
2012/13	0	408	0.00	1.154	0.00	24.92
2013/14	0	408	0.00	1.114	0.00	25.82
2014/15	66,544	249	267.39	1.075	287.54	26.74
2015/16	0	247	0.00	1.040	0.00	27.65

(7) Projected 2016/17 a-priori loss rate per Occupied Bed Equivalent \$28.75

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Occurrence Period (1)	Limited Paid Losses 11/30/16 (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)
2011/12	\$0	28.3%	\$24.22	443	\$7,694	\$7,694
2012/13	0	10.9%	24.92	408	9,048	9,048
2013/14	0	2.2%	25.82	408	10,292	10,292
2014/15	0	0.0%	26.74	249	6,653	6,653
2015/16	0	0.0%	27.65	247	6,829	6,829

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

Occurrence Period (1)	Limited Reported Incurred Losses 11/30/16 (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)
2011/12	\$0	88.9%	\$24.22	443	\$1,196	\$1,196
2012/13	0	82.7%	24.92	408	1,761	1,761
2013/14	0	75.1%	25.82	408	2,615	2,615
2014/15	50,000	60.1%	26.74	249	2,654	52,654
2015/16	0	37.6%	27.65	247	4,264	4,264

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

Occurrence Period (1)	Months of Development 11/30/16 (2)	Reported Claims 11/30/16 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2006/07	120.0	0	100.0%	0	443	0.00
2007/08	108.0	0	100.0%	0	443	0.00
2008/09	96.0	0	100.0%	0	443	0.00
2009/10	84.0	1	100.0%	1	443	0.00
2010/11	72.0	2	100.0%	2	443	0.00
2011/12	60.0	1	100.0%	1	443	0.00
2012/13	48.0	2	100.0%	2	408	0.00
2013/14	36.0	0	99.0%	0	408	0.00
2014/15	24.0	1	96.1%	1	249	0.00
2015/16	12.0	0	81.8%	0	247	0.00

II. Frequency Times Severity

Occurrence Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2016/17 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2016/17 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2006/07	\$0	0	\$0	1.495	\$0	\$4,786	\$0
2007/08	0	0	0	1.438	0	4,978	0
2008/09	0	0	0	1.382	0	5,177	0
2009/10	0	1	0	1.295	0	5,526	5,526
2010/11	0	2	0	1.234	0	5,797	11,594
2011/12	0	1	0	1.187	0	6,029	6,029
2012/13	0	2	0	1.154	0	6,201	12,401
2013/14	0	0	0	1.114	0	6,425	0
2014/15	66,544	1	66,544	1.075	71,560	6,654	6,654
2015/16	0	0	0	1.040	0	6,881	0
					(7) Projected 2016/17 average claim severity	\$7,156	

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.



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Exhibit MM-Unspecified-9

Projected Ultimate Limited Losses to 2015/16

Occurrence 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 1996/97	\$35,222,608	\$35,222,608	\$35,222,608				\$35,222,608	\$35,222,608
1997/98	8,500,000	8,500,000	8,500,000				8,500,000	8,500,000
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	1,346	1,320	1,320				1,320	1,320
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				25,000	20,000
2011/12	0	0	0	7,694	1,196	6,029	50,000	25,000
2012/13	0	0	0	9,048	1,761	12,401	50,000	25,000
2013/14	0	0	0	10,292	2,615		75,000	25,000
2014/15	0	83,175	83,185	6,653	52,654	6,654	100,000	100,000
2015/16	0	0	0	6,829	4,264		24,000	50,000
<b>Total</b>	<b>\$45,273,954</b>	<b>\$45,357,103</b>	<b>\$45,357,113</b>				<b>\$45,597,928</b>	<b>\$45,518,928</b>
2011/12 - 2015/16	0	83,175	83,185	40,516	62,490	25,084	299,000	225,000
to 2010/11	45,273,954	45,273,928	45,273,928				45,298,928	45,293,928
						<b>Change</b>		
						All years		-\$79,000
						2011/12 - 2015/16		-74,000
						to 2010/11		-5,000

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

Projected Ultimate Limited Losses for 2016/17 and Subsequent

Occurrence Period (1)	Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2016/17 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)
2006/07	\$0	443	\$0.00	1.495	\$0.00
2007/08	0	443	0.00	1.438	0.00
2008/09	0	443	0.00	1.382	0.00
2009/10	0	443	0.00	1.295	0.00
2010/11	20,000	443	45.15	1.234	55.73
2011/12	25,000	443	56.43	1.187	66.99
2012/13	25,000	408	61.35	1.154	70.80
2013/14	25,000	408	61.35	1.114	68.33
2014/15	100,000	249	401.82	1.075	432.11
2015/16	50,000	247	202.42	1.040	210.51
<b>Total</b>	<b>\$245,000</b>	<b>3,969</b>	<b>\$61.73</b>		<b>\$90.45</b>

Occurrence 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)
2016/17	\$90.45	247	\$20,000	0.92	\$83.44	\$20,000
2017/18	94.07	247	20,000	0.92	86.78	20,000
2018/19	97.83	247	20,000	0.92	90.25	20,000

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

(3) 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 and adjusted for change in retention.

(7) 2016/17 is based on (6) and actuarial judgment.  
 Other period(s) based on 2016/17 plus a 4% trend.

(8) to 2016/17 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.31% interest rate and the payout pattern in Exhibit MM-Unspecified-2.





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Exhibit MM-Unspecified-11

Estimated Outstanding Losses as of November 30, 2016

Occurrence Period (1)	Limited Paid Losses 11/30/16 (2)	Limited Case Reserves 11/30/16 (3)	Limited Reported Incurred Losses 11/30/16 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/16 (5)-(4) (6)	Estimated Outstanding Losses 11/30/16 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/16 (7)X(8) (9)
to 1996/97	\$35,222,608	\$0	\$35,222,608	\$35,222,608	\$0	\$0	1.00	\$0
1997/98	8,500,000	0	8,500,000	8,500,000	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	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	1,320	0	1,320	1,320	0	0	0.99	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	0.98	0
2010/11	0	0	0	20,000	20,000	20,000	0.97	19,462
2011/12	0	0	0	25,000	25,000	25,000	0.97	24,338
2012/13	0	0	0	25,000	25,000	25,000	0.97	24,183
2013/14	0	0	0	25,000	25,000	25,000	0.96	23,956
2014/15	0	50,000	50,000	100,000	50,000	100,000	0.95	94,689
2015/16	0	0	0	50,000	50,000	50,000	0.93	46,733
<b>Total</b>	<b>\$45,273,928</b>	<b>\$50,000</b>	<b>\$45,323,928</b>	<b>\$45,518,928</b>	<b>\$195,000</b>	<b>\$245,000</b>		<b>\$233,361</b>

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

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

(8) is based on a 1.31% 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, 2016 to November 30, 2017

Occurrence Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Months of Development 11/30/17 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/16 to 11/30/17 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/16 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/17 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/17 (9)X(10) (11)
to 1996/97	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1997/98	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1998/99	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2007/08	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2008/09	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2009/10	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.98	0
2010/11	72.0	56.6%	84.0	67.9%	26.1%	20,000	5,219	14,781	0.98	14,464
2011/12	60.0	28.3%	72.0	56.6%	39.5%	25,000	9,870	15,130	0.97	14,723
2012/13	48.0	10.9%	60.0	28.3%	19.5%	25,000	4,887	20,113	0.97	19,581
2013/14	36.0	2.2%	48.0	10.9%	8.9%	25,000	2,226	22,774	0.97	22,030
2014/15	24.0	0.0%	36.0	2.2%	2.2%	100,000	2,160	97,840	0.96	93,755
2015/16	12.0	0.0%	24.0	0.0%	0.0%	50,000	5	49,995	0.95	47,340
2016/17	0.0	0.0%	12.0	0.0%	0.0%	20,000	2	19,998	0.93	18,691
<b>Total</b>						<b>\$265,000</b>	<b>\$24,369</b>	<b>\$240,631</b>		<b>\$230,584</b>

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

(7) to 2015/16 is from Exhibit MM-Unspecified-11. The amount for 2016/17 is from Exhibit MM-Unspecified-10.

(10) is based on a 1.31% interest rate and the payout pattern in Exhibit MM-Unspecified-2.

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

Occurrence 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 1996/97	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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	0.99	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%	14,781	5,636	9,145	0.98	8,980
2011/12	72.0	56.6%	84.0	67.9%	26.1%	15,130	3,948	11,182	0.98	10,942
2012/13	60.0	28.3%	72.0	56.6%	39.5%	20,113	7,941	12,172	0.97	11,844
2013/14	48.0	10.9%	60.0	28.3%	19.5%	22,774	4,452	18,322	0.97	17,837
2014/15	36.0	2.2%	48.0	10.9%	8.9%	97,840	8,711	89,129	0.97	86,216
2015/16	24.0	0.0%	36.0	2.2%	2.2%	49,995	1,080	48,915	0.96	46,873
2016/17	12.0	0.0%	24.0	0.0%	0.0%	19,998	2	19,996	0.95	18,934
2017/18	0.0	0.0%	12.0	0.0%	0.0%	20,000	2	19,998	0.93	18,691
<b>Total</b>						<b>\$260,631</b>	<b>\$31,772</b>	<b>\$228,859</b>		<b>\$220,317</b>

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

(7) to 2016/17 is from Exhibit MM-Unspecified-12, (9). The amount for 2017/18 is from Exhibit MM-Unspecified-10.

(10) is based on a 1.31% 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, 2018 to November 30, 2019

Occurrence 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 1996/97	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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	0.99	0
2010/11	96.0	80.2%	108.0	89.8%	48.5%	9,145	4,434	4,711	0.98	4,635
2011/12	84.0	67.9%	96.0	80.2%	38.1%	11,182	4,264	6,918	0.98	6,793
2012/13	72.0	56.6%	84.0	67.9%	26.1%	12,172	3,176	8,996	0.98	8,803
2013/14	60.0	28.3%	72.0	56.6%	39.5%	18,322	7,234	11,088	0.97	10,790
2014/15	48.0	10.9%	60.0	28.3%	19.5%	89,129	17,422	71,707	0.97	69,809
2015/16	36.0	2.2%	48.0	10.9%	8.9%	48,915	4,355	44,560	0.97	43,104
2016/17	24.0	0.0%	36.0	2.2%	2.2%	19,996	432	19,564	0.96	18,747
2017/18	12.0	0.0%	24.0	0.0%	0.0%	19,998	2	19,996	0.95	18,934
2018/19	0.0	0.0%	12.0	0.0%	0.0%	20,000	2	19,998	0.93	18,691
<b>Total</b>						<b>\$248,859</b>	<b>\$41,321</b>	<b>\$207,538</b>		<b>\$200,306</b>

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

(7) to 2017/18 is from Exhibit MM-Unspecified-13, (9). The amount for 2018/19 is from Exhibit MM-Unspecified-10.

(10) is based on a 1.31% interest rate and the payout pattern in Exhibit MM-Unspecified-2.

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 1996/97							
1997/98							0
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	443
2010/11			750,000			52	443
2011/12			750,000			52	443
2012/13			620,000			58	408
2013/14			620,000			58	408
2014/15			411,102			31	249
2015/16			399,120			32	247
2016/17			399,120			32	247

(2) through (7) were provided by the County. (4) and (7) are for Ambulatory & Health Network.

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 2015. 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
Physicians	2.750
Housestaff	0.800 (residents and interns)

Data Summary as of November 30, 2016  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Payroll (000) (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Limited Paid Losses 11/30/16 (8)	Limited Case Reserves 11/30/16 (9)	Limited Reported Incurred Losses 11/30/16 (10)
to 1996/97	See Note	None	240.0	Not Provided	12,867	13	\$62,469,029	\$1,041,750	\$63,510,779
1997/98	Unlimited	None	228.0	Not Provided	1,181	3	3,882,437	116,762	3,999,199
1998/99	Unlimited	None	216.0	Not Provided	1,120	0	4,428,723	0	4,428,723
1999/00	Unlimited	None	204.0	Not Provided	1,134	3	6,216,376	25,000	6,241,376
2000/01	9,500,000	None	192.0	719,952	1,183	6	7,964,536	609,110	8,573,647
2001/02	9,500,000	None	180.0	752,457	1,161	3	8,182,822	914,749	9,097,571
2002/03	9,500,000	None	168.0	779,098	1,223	3	8,165,817	338,264	8,504,080
2003/04	Unlimited	None	156.0	810,182	1,218	8	8,000,096	831,019	8,831,115
2004/05	Unlimited	None	144.0	832,363	1,318	6	8,065,307	543,999	8,609,306
2005/06	Unlimited	None	132.0	826,479	1,159	10	8,503,025	291,933	8,794,959
2006/07	Unlimited	None	120.0	859,906	903	11	11,074,620	664,659	11,739,280
2007/08	Unlimited	None	108.0	914,260	777	24	15,890,444	711,488	16,601,932
2008/09	Unlimited	None	96.0	942,707	767	28	12,384,079	1,350,877	13,734,956
2009/10	Unlimited	None	84.0	998,250	862	54	11,256,093	1,959,141	13,215,235
2010/11	Unlimited	None	72.0	928,082	788	45	9,220,253	1,289,077	10,509,331
2011/12	Unlimited	None	60.0	899,082	783	82	9,913,233	2,856,423	12,769,656
2012/13	Unlimited	None	48.0	949,338	719	83	7,744,066	2,237,492	9,981,557
2013/14	Unlimited	None	36.0	988,081	756	138	7,831,231	3,732,382	11,563,613
2014/15	Unlimited	None	24.0	998,567	768	223	7,515,017	3,881,164	11,396,182
2015/16	Unlimited	None	12.0	1,053,931	1,076	759	4,539,900	4,975,626	9,515,526
<b>Total</b>					<b>31,763</b>	<b>1,502</b>	<b>\$223,247,105</b>	<b>\$28,370,918</b>	<b>\$251,618,023</b>

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

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

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

Data was provided by the County.



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

Data Summary as of November 30, 2016  
Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Payroll (000) (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Unlimited Paid Losses 11/30/16 (8)	Unlimited Case Reserves 11/30/16 (9)	Unlimited Reported Incurred Losses 11/30/16 (10)
to 1996/97	Unlimited	None	240.0	Not Provided	12,867	13	\$62,469,029	\$1,041,750	\$63,510,779
1997/98	Unlimited	None	228.0	Not Provided	1,181	3	3,882,437	116,762	3,999,199
1998/99	Unlimited	None	216.0	Not Provided	1,120	0	4,428,723	0	4,428,723
1999/00	Unlimited	None	204.0	Not Provided	1,134	3	6,216,376	25,000	6,241,376
2000/01	Unlimited	None	192.0	719,952	1,183	6	7,964,536	609,110	8,573,647
2001/02	Unlimited	None	180.0	752,457	1,161	3	8,182,822	914,749	9,097,571
2002/03	Unlimited	None	168.0	779,098	1,223	3	8,165,817	338,264	8,504,080
2003/04	Unlimited	None	156.0	810,182	1,218	8	8,000,096	831,019	8,831,115
2004/05	Unlimited	None	144.0	832,363	1,318	6	8,065,307	543,999	8,609,306
2005/06	Unlimited	None	132.0	826,479	1,159	10	8,503,025	291,933	8,794,959
2006/07	Unlimited	None	120.0	859,906	903	11	11,074,620	664,659	11,739,280
2007/08	Unlimited	None	108.0	914,260	777	24	15,890,444	711,488	16,601,932
2008/09	Unlimited	None	96.0	942,707	767	28	12,384,079	1,350,877	13,734,956
2009/10	Unlimited	None	84.0	998,250	862	54	11,256,093	1,959,141	13,215,235
2010/11	Unlimited	None	72.0	928,082	788	45	9,220,253	1,289,077	10,509,331
2011/12	Unlimited	None	60.0	899,082	783	82	9,913,233	2,856,423	12,769,656
2012/13	Unlimited	None	48.0	949,338	719	83	7,744,066	2,237,492	9,981,557
2013/14	Unlimited	None	36.0	988,081	756	138	7,831,231	3,732,382	11,563,613
2014/15	Unlimited	None	24.0	998,567	768	223	7,515,017	3,881,164	11,396,182
2015/16	Unlimited	None	12.0	1,053,931	1,076	759	4,539,900	4,975,626	9,515,526
<b>Total</b>					<b>31,763</b>	<b>1,502</b>	<b>\$223,247,105</b>	<b>\$28,370,918</b>	<b>\$251,618,023</b>

(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%	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-Gov-Indem-2 (page 2).

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

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



**COOK COUNTY, ILLINOIS  
WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)**  
Historical 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 1996/97																				
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																				

**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 1996/97																				
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																				

Average All	Wtd 3	Last 3	Last 5	x-tilt,low	Similar	Selected	Cumulative	Percent
2.229	1.473	1.261	1.194	1.116	1.057	1.057	1.057	70.4%
2.502	1.614	1.307	1.230	1.146	1.110	1.110	1.110	78.2%
2.461	1.604	1.310	1.230	1.146	1.107	1.107	1.107	86.0%
2.091	1.459	1.236	1.166	1.127	1.112	1.112	1.112	93.7%
2.342	1.323	1.165	1.097	1.057	1.036	1.036	1.036	95.3%
2.200	1.490	1.240	1.170	1.110	1.100	1.100	1.100	99.3%
2.200	1.490	1.240	1.170	1.110	1.100	1.100	1.100	99.3%
2.200	1.490	1.240	1.170	1.110	1.100	1.100	1.100	99.3%
6.751	3.069	2.060	1.661	1.420	1.279	1.279	1.279	95.3%
14.8%	32.6%	48.6%	60.2%	70.4%	78.2%	86.0%	90.3%	93.7%

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

Amounts are 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	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1996/97																					
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																					

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 1996/97																					
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																					

Average All  
Wtd 3  
Last 3  
Last 5  
x-tiltlow

Similar Previous  
Selected Cumulative  
Percent

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 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 1996/97																					
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																					

II. Reported Claim Development

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 1996/97																					
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																					

Average All  
Wtd 3  
Last 3  
Last 5  
x-Follow

Similar	1.131	1.019	1.010	1.007	1.007	1.005	1.005	1.006	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
Selected	1.025	1.004	1.003	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
Cumulative	1.025	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 - 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
to 1/06/07																				
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																				
Average																				
All	50.4%	63.9%	72.3%	77.5%	81.6%	84.0%	86.5%	87.2%	89.2%	92.2%	93.8%	94.2%	94.0%	92.5%	93.5%	97.1%	98.1%	96.0%	97.6%	98.4%
Last 3	43.1%	54.3%	62.8%	71.4%	77.9%	80.6%	86.1%	89.7%	93.7%	95.5%	91.9%	91.0%	90.5%	90.8%	92.8%	96.6%	98.1%	98.0%	98.0%	98.0%
Last 5	47.5%	61.4%	73.4%	81.3%	83.9%	87.0%	89.7%	91.8%	94.1%	95.5%	95.0%	94.0%	94.0%	94.3%	95.1%	97.6%	98.1%	98.0%	98.0%	98.0%
x-high																				
Implicit	42.4%	56.5%	69.0%	75.5%	81.4%	84.7%	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%



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

Exhibit WC-Gov-Indem-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/16 (2)	Limited Paid Losses 11/30/16 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1996/97	240.0	\$62,469,029	98.5%	\$63,406,064
1997/98	228.0	3,882,437	98.4%	3,944,615
1998/99	216.0	4,428,723	98.3%	4,504,149
1999/00	204.0	6,216,376	98.1%	6,334,892
2000/01	192.0	7,964,536	97.9%	8,132,613
2001/02	180.0	8,182,822	97.7%	8,372,217
2002/03	168.0	8,165,817	97.5%	8,371,527
2003/04	156.0	8,000,096	97.2%	8,234,438
2004/05	144.0	8,065,307	96.8%	8,334,766
2005/06	132.0	8,503,025	96.3%	8,831,044
2006/07	120.0	11,074,620	95.3%	11,616,861
2007/08	108.0	15,890,444	93.7%	16,951,843
2008/09	96.0	12,384,079	90.3%	13,713,299
2009/10	84.0	11,256,093	86.0%	13,087,456
2010/11	72.0	9,220,253	78.2%	11,792,424
2011/12	60.0	9,913,233	70.4%	14,073,383
2012/13	48.0	7,744,066	60.2%	12,862,877
2013/14	36.0	7,831,231	48.6%	16,129,496
2014/15	24.0	7,515,017	32.6%	23,062,533
2015/16	12.0	4,539,900	14.8%	30,651,095
Total		\$223,247,105		\$292,407,594

(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 11/30/16 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1996/97	240.0	\$63,510,779	99.9%	\$63,574,289
1997/98	228.0	3,999,199	99.8%	4,007,202
1998/99	216.0	4,428,723	99.7%	4,442,023
1999/00	204.0	6,241,376	99.6%	6,266,379
2000/01	192.0	8,573,647	99.5%	8,616,601
2001/02	180.0	9,097,571	99.4%	9,152,293
2002/03	168.0	8,504,080	99.2%	8,572,343
2003/04	156.0	8,831,115	99.0%	8,919,807
2004/05	144.0	8,609,306	98.8%	8,713,162
2005/06	132.0	8,794,959	98.5%	8,927,757
2006/07	120.0	11,739,280	98.1%	11,964,202
2007/08	108.0	16,601,932	97.7%	16,987,702
2008/09	96.0	13,734,956	96.5%	14,236,811
2009/10	84.0	13,215,235	94.6%	13,972,061
2010/11	72.0	10,509,331	92.3%	11,388,972
2011/12	60.0	12,769,656	86.5%	14,765,668
2012/13	48.0	9,981,557	79.7%	12,522,814
2013/14	36.0	11,563,613	70.4%	16,437,171
2014/15	24.0	11,396,182	57.7%	19,762,993
2015/16	12.0	9,515,526	34.9%	27,227,648
Total		\$251,618,023		\$290,457,898

(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 11/30/16 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/16 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/16 (6)	Limited Case Reserves 11/30/16 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1996/97	240.0	98.5%	99.9%	93.2%	\$62,469,029	\$1,041,750	\$63,586,305
1997/98	228.0	98.4%	99.8%	87.3%	3,882,437	116,762	4,016,138
1998/99	216.0	98.3%	99.7%	82.1%	4,428,723	0	4,428,723
1999/00	204.0	98.1%	99.6%	78.7%	6,216,376	25,000	6,248,154
2000/01	192.0	97.9%	99.5%	75.9%	7,964,536	609,110	8,767,272
2001/02	180.0	97.7%	99.4%	73.6%	8,182,822	914,749	9,426,202
2002/03	168.0	97.5%	99.2%	67.6%	8,165,817	338,264	8,666,254
2003/04	156.0	97.2%	99.0%	65.1%	8,000,096	831,019	9,277,389
2004/05	144.0	96.8%	98.8%	63.1%	8,065,307	543,999	8,926,999
2005/06	132.0	96.3%	98.5%	60.0%	8,503,025	291,933	8,989,958
2006/07	120.0	95.3%	98.1%	59.7%	11,074,620	664,659	12,187,503
2007/08	108.0	93.7%	97.7%	63.7%	15,890,444	711,488	17,006,830
2008/09	96.0	90.3%	96.5%	63.6%	12,384,079	1,350,877	14,507,005
2009/10	84.0	86.0%	94.6%	61.3%	11,256,093	1,959,141	14,452,574
2010/11	72.0	78.2%	92.3%	64.6%	9,220,253	1,289,077	11,216,034
2011/12	60.0	70.4%	86.5%	54.3%	9,913,233	2,856,423	15,176,571
2012/13	48.0	60.2%	79.7%	49.0%	7,744,066	2,237,492	12,309,779
2013/14	36.0	48.6%	70.4%	42.4%	7,831,231	3,732,382	16,640,361
2014/15	24.0	32.6%	57.7%	37.2%	7,515,017	3,881,164	17,947,996
2015/16	12.0	14.8%	34.9%	23.6%	4,539,900	4,975,626	25,589,547
<b>Total</b>					<b>\$223,247,105</b>	<b>\$28,370,918</b>	<b>\$289,367,596</b>

(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 2015/16

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 1996/97	\$63,406,064	\$63,574,289	\$63,586,305	\$63,614,954
1997/98	3,944,615	4,007,202	4,016,138	4,016,138
1998/99	4,504,149	4,442,023	4,428,723	4,428,723
1999/00	6,334,892	6,266,379	6,248,154	6,248,154
2000/01	8,132,613	8,616,601	8,767,272	8,767,272
2001/02	8,372,217	9,152,293	9,426,202	9,426,202
2002/03	8,371,527	8,572,343	8,666,254	8,666,254
2003/04	8,234,438	8,919,807	9,277,389	9,277,389
2004/05	8,334,766	8,713,162	8,926,999	8,926,999
2005/06	8,831,044	8,927,757	8,989,958	8,989,958
2006/07	11,616,861	11,964,202	12,187,503	12,187,503
2007/08	16,951,843	16,987,702	17,006,830	17,006,830
2008/09	13,713,299	14,236,811	14,507,005	14,452,966
2009/10	13,087,456	13,972,061	14,452,574	14,308,420
2010/11	11,792,424	11,388,972	11,216,034	11,285,209
2011/12	14,073,383	14,765,668	15,176,571	14,901,891
2012/13	12,862,877	12,522,814	12,309,779	12,471,606
2013/14	16,129,496	16,437,171	16,640,361	16,436,593
2014/15	23,062,533	19,762,993	17,947,996	20,059,902
2015/16	30,651,095	27,227,648	25,589,547	27,748,527
<b>Total</b>	<b>\$292,407,594</b>	<b>\$290,457,898</b>	<b>\$289,367,596</b>	<b>\$293,221,492</b>

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

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

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

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



Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Payroll (000) (3)	Limited Loss Rate per \$100 of Payroll (2)/(3)/10 (4)	Loss Rate Trend (2016/17 = 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)
2006/07	\$12,187,503	\$859,906	\$1.42	1.165	\$1.65	\$1.55
2007/08	17,006,830	914,260	1.86	1.140	2.12	1.59
2008/09	14,452,966	942,707	1.53	1.116	1.71	1.62
2009/10	14,308,420	998,250	1.43	1.092	1.57	1.65
2010/11	11,285,209	928,082	1.22	1.083	1.32	1.67
2011/12	14,901,891	899,082	1.66	1.087	1.80	1.66
2012/13	12,471,606	949,338	1.31	1.070	1.41	1.69
2013/14	16,436,593	988,081	1.66	1.052	1.75	1.72
2014/15	20,059,902	998,567	2.01	1.033	2.08	1.75
2015/16	27,748,527	1,053,931	2.63	1.015	2.67	1.78

(7) Projected 2016/17 a-priori loss rate per \$100 of Payroll \$1.81

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/16 (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)
2011/12	\$9,913,233	70.4%	\$1.66	\$899,082	\$4,418,026	\$14,331,259
2012/13	7,744,066	60.2%	1.69	949,338	6,382,385	14,126,451
2013/14	7,831,231	48.6%	1.72	988,081	8,730,889	16,562,120
2014/15	7,515,017	32.6%	1.75	998,567	11,776,278	19,291,295
2015/16	4,539,900	14.8%	1.78	1,053,931	15,983,826	20,523,726

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (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)
2011/12	\$12,769,656	86.5%	\$1.66	\$899,082	\$2,020,355	\$14,790,011
2012/13	9,981,557	79.7%	1.69	949,338	3,254,608	13,236,165
2013/14	11,563,613	70.4%	1.72	988,081	5,031,657	16,595,270
2014/15	11,396,182	57.7%	1.75	998,567	7,395,394	18,791,576
2015/16	9,515,526	34.9%	1.78	1,053,931	12,205,637	21,721,164

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 11/30/16 (2)	Reported Claims 11/30/16 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2006/07	120.0	903	100.0%	903	\$859,906	1.05
2007/08	108.0	777	100.0%	777	914,260	0.85
2008/09	96.0	767	100.0%	767	942,707	0.81
2009/10	84.0	862	99.9%	863	998,250	0.86
2010/11	72.0	788	99.8%	790	928,082	0.85
2011/12	60.0	783	99.7%	785	899,082	0.87
2012/13	48.0	719	99.6%	722	949,338	0.76
2013/14	36.0	756	99.3%	761	988,081	0.77
2014/15	24.0	768	98.9%	776	998,567	0.78
2015/16	12.0	1,076	96.5%	1,115	1,053,931	1.06

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2016/17 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2016/17 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2006/07	\$12,187,503	903	\$13,497	1.566	\$21,136	\$15,643	\$14,125,477
2007/08	17,006,830	777	21,888	1.487	32,554	16,471	12,797,735
2008/09	14,452,966	767	18,844	1.414	26,639	17,328	13,290,790
2009/10	14,308,420	863	16,580	1.343	22,274	18,234	15,736,139
2010/11	11,285,209	790	14,285	1.293	18,472	18,944	14,965,874
2011/12	14,901,891	785	18,983	1.260	23,922	19,440	15,260,129
2012/13	12,471,606	722	17,274	1.204	20,795	20,349	14,691,818
2013/14	16,436,593	761	21,599	1.150	24,831	21,308	16,215,435
2014/15	20,059,902	776	25,850	1.096	28,328	22,354	17,346,847
2015/16	27,748,527	1,115	24,887	1.045	26,018	23,432	26,126,538

(7) Projected 2016/17 average claim severity

\$24,497

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

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

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

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

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

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

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

Projected Ultimate Limited Losses to 2015/16

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 1996/97	\$63,406,064	\$63,574,289	\$63,586,305				\$60,486,000	\$63,614,954
1997/98	3,944,615	4,007,202	4,016,138				3,876,000	4,020,000
1998/99	4,504,149	4,442,023	4,428,723				4,262,977	4,428,723
1999/00	6,334,892	6,266,379	6,248,154				6,175,000	6,250,000
2000/01	8,132,613	8,616,601	8,767,272				8,150,000	8,630,000
2001/02	8,372,217	9,152,293	9,426,202				8,950,000	9,280,000
2002/03	8,371,527	8,572,343	8,666,254				8,175,000	8,590,000
2003/04	8,234,438	8,919,807	9,277,389				8,750,000	9,060,000
2004/05	8,334,766	8,713,162	8,926,999				8,200,000	8,740,000
2005/06	8,831,044	8,927,757	8,989,958				8,535,000	8,920,000
2006/07	11,616,861	11,964,202	12,187,503				11,150,000	12,050,000
2007/08	16,951,843	16,987,702	17,006,830				12,000,000	16,800,000
2008/09	13,713,299	14,236,811	14,507,005				14,000,000	14,400,000
2009/10	13,087,456	13,972,061	14,452,574				13,750,000	14,000,000
2010/11	11,792,424	11,388,972	11,216,034				11,100,000	11,400,000
2011/12	14,073,383	14,765,668	15,176,571	14,331,259	14,790,011	15,260,129	14,000,000	14,750,000
2012/13	12,862,877	12,522,814	12,309,779	14,126,451	13,236,165	14,691,818	12,350,000	12,600,000
2013/14	16,129,496	16,437,171	16,640,361	16,562,120	16,595,270	16,215,435	14,500,000	16,250,000
2014/15	23,062,533	19,762,993	17,947,996	19,291,295	18,791,576	17,346,847	14,500,000	17,500,000
2015/16	30,651,095	27,227,648	25,589,547	20,523,726	21,721,164	26,126,538	15,317,000	20,500,000
<b>Total</b>	<b>\$292,407,594</b>	<b>\$290,457,898</b>	<b>\$289,367,596</b>				<b>\$258,226,977</b>	<b>\$281,783,677</b>
2011/12 - 2015/16	96,779,384	90,716,295	87,664,254	84,834,851	85,134,185	89,640,768	70,667,000	81,600,000
to 2010/11	195,628,210	199,741,603	201,703,342				187,559,977	200,183,677
						<b>Change</b>		
						All years		\$23,556,699
						2011/12 - 2015/16		10,933,000
						to 2010/11		12,623,699

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

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

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

(5) and (6) are from Exhibit WC-Gov-Indem-7.

(7) is from Exhibit WC-Gov-Indem-8.

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

Projected Ultimate Limited Losses for 2016/17 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 (2016/17 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2006/07	\$12,050,000	\$859,906	\$1.40	1.165	\$1.63
2007/08	16,800,000	914,260	1.84	1.140	2.09
2008/09	14,400,000	942,707	1.53	1.116	1.70
2009/10	14,000,000	998,250	1.40	1.092	1.53
2010/11	11,400,000	928,082	1.23	1.083	1.33
2011/12	14,750,000	899,082	1.64	1.087	1.78
2012/13	12,600,000	949,338	1.33	1.070	1.42
2013/14	16,250,000	988,081	1.64	1.052	1.73
2014/15	17,500,000	998,567	1.75	1.033	1.81
2015/16	20,500,000	1,053,931	1.95	1.015	1.97
<b>Total</b>	<b>\$150,250,000</b>	<b>\$9,532,204</b>	<b>\$1.58</b>		<b>\$1.70</b>

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)
2016/17	\$1.70	\$1,075,720	\$18,300,000	0.95	\$1.62	\$17,380,000
2017/18	1.73	1,075,720	18,570,000	0.95	1.64	17,640,000
2018/19	1.75	1,075,720	18,850,000	0.95	1.66	17,900,000

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

(3) was provided by the County.

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

(7) 2016/17 is based on (6) and actuarial judgment.  
Other period(s) based on 2016/17 plus the trend in Exhibit WC-Gov-Indem-15.

(8) to 2016/17 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.31% 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, 2016

Claim Period (1)	Limited Paid Losses 11/30/16 (2)	Limited Case Reserves 11/30/16 (3)	Limited Reported Incurred Losses 11/30/16 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR (5)-(4) (6)	Estimated Outstanding Losses 11/30/16 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/16 (7)X(8) (9)
to 1996/97	\$62,469,029	\$1,041,750	\$63,510,779	\$63,614,954	\$104,175	\$1,145,925	0.97	\$1,105,975
1997/98	3,882,437	116,762	3,999,199	4,020,000	20,801	137,563	0.96	131,401
1998/99	4,428,723	0	4,428,723	4,428,723	0	0	0.95	0
1999/00	6,216,376	25,000	6,241,376	6,250,000	8,624	33,624	0.94	31,603
2000/01	7,964,536	609,110	8,573,647	8,630,000	56,353	665,463	0.93	621,521
2001/02	8,182,822	914,749	9,097,571	9,280,000	182,429	1,097,178	0.93	1,018,269
2002/03	8,165,817	338,264	8,504,080	8,590,000	85,920	424,184	0.92	391,194
2003/04	8,000,096	831,019	8,831,115	9,060,000	228,885	1,059,904	0.92	976,876
2004/05	8,065,307	543,999	8,609,306	8,740,000	130,694	674,693	0.92	620,566
2005/06	8,503,025	291,933	8,794,959	8,920,000	125,041	416,974	0.92	383,191
2006/07	11,074,620	664,659	11,739,280	12,050,000	310,720	975,379	0.92	901,980
2007/08	15,890,444	711,488	16,601,932	16,800,000	198,068	909,556	0.93	848,921
2008/09	12,384,079	1,350,877	13,734,956	14,400,000	665,044	2,015,921	0.95	1,908,764
2009/10	11,256,093	1,959,141	13,215,235	14,000,000	784,765	2,743,906	0.95	2,614,136
2010/11	9,220,253	1,289,077	10,509,331	11,400,000	890,669	2,179,746	0.96	2,091,316
2011/12	9,913,233	2,856,423	12,769,656	14,750,000	1,980,344	4,836,767	0.96	4,639,478
2012/13	7,744,066	2,237,492	9,981,557	12,600,000	2,618,443	4,855,935	0.96	4,655,966
2013/14	7,831,231	3,732,382	11,563,613	16,250,000	4,686,387	8,418,769	0.96	8,057,498
2014/15	7,515,017	3,881,164	11,396,182	17,500,000	6,103,819	9,984,983	0.96	9,548,342
2015/16	4,539,900	4,975,626	9,515,526	20,500,000	10,984,474	15,960,100	0.95	15,230,013
<b>Total</b>	<b>\$223,247,105</b>	<b>\$28,370,918</b>	<b>\$251,618,023</b>	<b>\$281,783,677</b>	<b>\$30,165,655</b>	<b>\$58,536,570</b>		<b>\$55,777,010</b>

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

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

(8) is based on a 1.31% interest rate and the payout pattern in Exhibit WC-Gov-Indem-2.

Projected Losses Paid December 1, 2016 to November 30, 2017

Claim Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Months of Development 11/30/17 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/16 to 11/30/17 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/16 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/17 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/17 (9)X(10) (11)
to 1996/97	240.0	98.5%	252.0	99.0%	20.0% *	\$1,145,925	\$229,185	\$916,740	0.97	\$885,076
1997/98	228.0	98.4%	240.0	98.5%	6.2% *	137,563	8,590	128,973	0.97	124,477
1998/99	216.0	98.3%	228.0	98.4%	5.9% *	0	0	0	0.96	0
1999/00	204.0	98.1%	216.0	98.3%	10.5% *	33,624	3,527	30,097	0.95	28,467
2000/01	192.0	97.9%	204.0	98.1%	9.5% *	665,463	63,067	602,396	0.94	566,184
2001/02	180.0	97.7%	192.0	97.9%	8.6% *	1,097,178	94,807	1,002,371	0.93	936,182
2002/03	168.0	97.5%	180.0	97.7%	7.9% *	424,184	33,676	390,508	0.93	362,423
2003/04	156.0	97.2%	168.0	97.5%	13.7% *	1,059,904	144,734	915,170	0.92	843,994
2004/05	144.0	96.8%	156.0	97.2%	12.0% *	674,693	80,778	593,915	0.92	547,390
2005/06	132.0	96.3%	144.0	96.8%	13.0% *	416,974	54,045	362,929	0.92	333,813
2006/07	120.0	95.3%	132.0	96.3%	20.0% *	975,379	195,076	780,303	0.92	717,084
2007/08	108.0	93.7%	120.0	95.3%	20.0% *	909,556	181,911	727,645	0.92	672,888
2008/09	96.0	90.3%	108.0	93.7%	20.0% *	2,015,921	403,184	1,612,737	0.93	1,505,224
2009/10	84.0	86.0%	96.0	90.3%	20.0% *	2,743,906	548,781	2,195,125	0.95	2,078,443
2010/11	72.0	78.2%	84.0	86.0%	20.0% *	2,179,746	435,949	1,743,797	0.95	1,661,326
2011/12	60.0	70.4%	72.0	78.2%	20.0% *	4,836,767	967,353	3,869,414	0.96	3,712,435
2012/13	48.0	60.2%	60.0	70.4%	20.0% *	4,855,935	971,187	3,884,748	0.96	3,726,291
2013/14	36.0	48.6%	48.0	60.2%	20.0% *	8,418,769	1,683,754	6,735,015	0.96	6,457,664
2014/15	24.0	32.6%	36.0	48.6%	20.0% *	9,984,983	1,996,997	7,987,986	0.96	7,645,201
2015/16	12.0	14.8%	24.0	32.6%	20.0% *	15,960,100	3,192,020	12,768,080	0.96	12,209,735
2016/17	0.0	0.0%	12.0	14.8%	14.8% *	18,300,000	2,710,512	15,589,488	0.95	14,876,355
Total						\$76,836,570	\$13,999,133	\$62,837,437		\$59,890,652

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

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

(7) to 2015/16 is from Exhibit WC-Gov-Indem-11. The amount for 2016/17 is from Exhibit WC-Gov-Indem-10.

(10) is based on a 1.31% 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 1996/97	252.0	99.0%	264.0	99.3%	20.0% *	\$916,740	\$183,348	\$733,392	0.97	\$708,403
1997/98	240.0	98.5%	252.0	99.0%	20.0% *	128,973	25,795	103,178	0.97	99,614
1998/99	228.0	98.4%	240.0	98.5%	6.2% *	0	0	0	0.97	0
1999/00	216.0	98.3%	228.0	98.4%	5.9% *	30,097	1,767	28,330	0.96	27,061
2000/01	204.0	98.1%	216.0	98.3%	10.5% *	602,396	63,194	539,202	0.95	509,994
2001/02	192.0	97.9%	204.0	98.1%	9.5% *	1,002,371	94,997	907,374	0.94	852,829
2002/03	180.0	97.7%	192.0	97.9%	8.6% *	390,508	33,744	356,764	0.93	333,206
2003/04	168.0	97.5%	180.0	97.7%	7.9% *	915,170	72,656	842,514	0.93	781,920
2004/05	156.0	97.2%	168.0	97.5%	13.7% *	593,915	81,101	512,814	0.92	472,931
2005/06	144.0	96.8%	156.0	97.2%	12.0% *	362,929	43,452	319,477	0.92	294,451
2006/07	132.0	96.3%	144.0	96.8%	13.0% *	780,303	101,137	679,166	0.92	624,681
2007/08	120.0	95.3%	132.0	96.3%	20.0% *	727,645	145,529	582,116	0.92	534,954
2008/09	108.0	93.7%	120.0	95.3%	20.0% *	1,612,737	322,547	1,290,190	0.92	1,193,100
2009/10	96.0	90.3%	108.0	93.7%	20.0% *	2,195,125	439,025	1,756,100	0.93	1,639,030
2010/11	84.0	86.0%	96.0	90.3%	20.0% *	1,743,797	348,759	1,395,038	0.95	1,320,885
2011/12	72.0	78.2%	84.0	86.0%	20.0% *	3,869,414	773,883	3,095,531	0.95	2,949,131
2012/13	60.0	70.4%	72.0	78.2%	20.0% *	3,884,748	776,950	3,107,798	0.96	2,981,717
2013/14	48.0	60.2%	60.0	70.4%	20.0% *	6,735,015	1,347,003	5,388,012	0.96	5,168,238
2014/15	36.0	48.6%	48.0	60.2%	20.0% *	7,987,986	1,597,597	6,390,389	0.96	6,127,230
2015/16	24.0	32.6%	36.0	48.6%	20.0% *	12,768,080	2,553,616	10,214,464	0.96	9,776,136
2016/17	12.0	14.8%	24.0	32.6%	20.0% *	15,589,488	3,117,898	12,471,590	0.96	11,926,211
2017/18	0.0	0.0%	12.0	14.8%	14.8% *	18,570,000	2,750,503	15,819,497	0.95	15,095,842
<b>Total</b>						<b>\$81,407,437</b>	<b>\$14,874,501</b>	<b>\$66,532,936</b>		<b>\$63,417,564</b>

\* - 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-12, (9). The amount for 2017/18 is from Exhibit WC-Gov-Indem-10.

(10) is based on a 1.31% interest rate and the payout pattern in Exhibit WC-Gov-Indem-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 1996/97	264.0	99.3%	276.0	99.5%	20.0% *	\$733,392	\$146,678	\$586,714	0.97	\$567,120
1997/98	252.0	99.0%	264.0	99.3%	20.0% *	103,178	20,636	82,542	0.97	79,730
1998/99	240.0	98.5%	252.0	99.0%	20.0% *	0	0	0	0.97	0
1999/00	228.0	98.4%	240.0	98.5%	6.2% *	28,330	1,769	26,561	0.97	25,635
2000/01	216.0	98.3%	228.0	98.4%	5.9% *	539,202	31,660	507,542	0.96	484,809
2001/02	204.0	98.1%	216.0	98.3%	10.5% *	907,374	95,187	812,187	0.95	768,192
2002/03	192.0	97.9%	204.0	98.1%	9.5% *	356,764	33,811	322,953	0.94	303,539
2003/04	180.0	97.7%	192.0	97.9%	8.6% *	842,514	72,802	769,712	0.93	718,886
2004/05	168.0	97.5%	180.0	97.7%	7.9% *	512,814	40,713	472,101	0.93	438,147
2005/06	156.0	97.2%	168.0	97.5%	13.7% *	319,477	43,626	275,851	0.92	254,397
2006/07	144.0	96.8%	156.0	97.2%	12.0% *	679,166	81,314	597,852	0.92	551,019
2007/08	132.0	96.3%	144.0	96.8%	13.0% *	582,116	75,449	506,667	0.92	466,020
2008/09	120.0	95.3%	132.0	96.3%	20.0% *	1,290,190	258,038	1,032,152	0.92	948,529
2009/10	108.0	93.7%	120.0	95.3%	20.0% *	1,756,100	351,220	1,404,880	0.92	1,299,160
2010/11	96.0	90.3%	108.0	93.7%	20.0% *	1,395,038	279,008	1,116,030	0.93	1,041,630
2011/12	84.0	86.0%	96.0	90.3%	20.0% *	3,095,531	619,106	2,476,425	0.95	2,344,790
2012/13	72.0	78.2%	84.0	86.0%	20.0% *	3,107,798	621,560	2,486,238	0.95	2,368,654
2013/14	60.0	70.4%	72.0	78.2%	20.0% *	5,388,012	1,077,602	4,310,410	0.96	4,135,541
2014/15	48.0	60.2%	60.0	70.4%	20.0% *	6,390,389	1,278,078	5,112,311	0.96	4,903,782
2015/16	36.0	48.6%	48.0	60.2%	20.0% *	10,214,464	2,042,893	8,171,571	0.96	7,835,062
2016/17	24.0	32.6%	36.0	48.6%	20.0% *	12,471,590	2,494,318	9,977,272	0.96	9,549,122
2017/18	12.0	14.8%	24.0	32.6%	20.0% *	15,819,497	3,163,899	12,655,598	0.96	12,102,172
2018/19	0.0	0.0%	12.0	14.8%	14.8% *	18,850,000	2,791,976	16,058,024	0.95	15,323,458
<b>Total</b>						<b>\$85,382,936</b>	<b>\$15,621,343</b>	<b>\$69,761,593</b>		<b>\$66,509,394</b>

\* - 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-13. (9). The amount for 2018/19 is from Exhibit WC-Gov-Indem-10.

(10) is based on a 1.31% 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)
01/15/07	1.003	1.003
07/01/07	1.002	1.005
07/15/07	1.002	1.007
01/15/08	1.003	1.010
07/01/08	1.003	1.013
07/15/08	1.002	1.015
01/15/09	1.002	1.017
07/01/09	1.001	1.018
07/15/09	1.002	1.020
01/15/10	1.004	1.024
07/01/10	1.001	1.025
07/15/10	1.002	1.027
06/28/11	0.989	1.016
07/01/11	1.001	1.017
09/01/11	0.983	1.000
01/15/13	1.001	1.001
07/15/13	1.001	1.002
01/15/14	1.001	1.003

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2016/17 = 1.000) (2)	Residual Trend (2016/17 = 1.000) (3)	Retention Index (2016/17 = 1.000) (4)	Loss Rate Trend (2016/17 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2016/17 = 1.000) (6)	Severity Trend (2016/17 = 1.000) (5)X(6) (7)
2006/07	1.004	1.161	1.000	1.165	1.344	1.566
2007/08	0.997	1.143	1.000	1.140	1.305	1.487
2008/09	0.991	1.126	1.000	1.116	1.267	1.414
2009/10	0.984	1.110	1.000	1.092	1.230	1.343
2010/11	0.990	1.093	1.000	1.083	1.194	1.293
2011/12	1.009	1.077	1.000	1.087	1.159	1.260
2012/13	1.008	1.061	1.000	1.070	1.126	1.204
2013/14	1.006	1.046	1.000	1.052	1.093	1.150
2014/15	1.003	1.030	1.000	1.033	1.061	1.096
2015/16	1.000	1.015	1.000	1.015	1.030	1.045
2016/17	1.000	1.000	1.000	1.000	1.000	1.000
2017/18	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 11/30/16 (5)	Unlimited Case Reserves 11/30/16 (6)	Unlimited Reported Incurred Losses 11/30/16 (7)
950468	2/28/1995	to 1996/97	Unlimited	\$678,829	\$389,035	\$1,067,864
20020274	1/24/2002	2001/02	9,500,000	350,636	754,749	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
20081090	8/1/2008	2007/08	Unlimited	1,219,594	0	1,219,594

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)	2011/12 (3)	2012/13 (4)	2013/14 (5)	2014/15 (6)	2015/16 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	16,126	185	94	38	56	41	16,540		
0.01 - 5,000	7,076	406	446	498	483	692	9,601	9,601	63.1%
5,000 - 10,000	1,280	36	23	33	23	42	1,437	11,038	72.5%
10,000 - 25,000	1,457	43	61	58	51	153	1,823	12,861	84.5%
25,000 - 50,000	840	43	36	55	66	114	1,154	14,015	92.1%
50,000 - 100,000	500	35	29	48	60	33	705	14,720	96.7%
100,000 - 250,000	266	24	24	22	29	1	366	15,086	99.1%
250,000 - 500,000	90	11	6	4	0	0	111	15,197	99.8%
500,000 - 750,000	17	0	0	0	0	0	17	15,214	99.9%
750,000 - 1,000,000	4	0	0	0	0	0	4	15,218	100.0%
Over 1,000,000	5	0	0	0	0	0	5	15,223	100.0%
<b>Total</b>	<b>27,661</b>	<b>783</b>	<b>719</b>	<b>756</b>	<b>768</b>	<b>1,076</b>	<b>31,763</b>	<b>15,223</b>	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2011/12 (3)	2012/13 (4)	2013/14 (5)	2014/15 (6)	2015/16 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	-\$1,167	\$0	\$0	\$0	\$0	\$0	-\$1,167		
0.01 - 5,000	6,905,025	217,043	167,962	231,268	188,577	335,786	8,045,661	8,045,661	3.2%
5,000 - 10,000	9,432,174	253,818	169,929	247,858	155,815	310,417	10,570,011	18,615,671	7.4%
10,000 - 25,000	23,630,392	723,094	1,050,766	972,705	916,344	2,725,818	30,019,119	48,634,791	19.3%
25,000 - 50,000	29,398,428	1,552,435	1,271,840	2,018,386	2,529,584	3,860,215	40,630,888	89,265,679	35.5%
50,000 - 100,000	34,518,619	2,328,733	2,047,090	3,354,858	4,230,814	2,117,290	48,597,405	137,863,083	54.8%
100,000 - 250,000	40,711,228	4,150,767	3,539,751	3,398,596	3,375,049	166,000	55,341,390	193,204,474	76.8%
250,000 - 500,000	30,942,767	3,543,765	1,734,220	1,339,942	0	0	37,560,694	230,765,167	91.7%
500,000 - 750,000	9,897,848	0	0	0	0	0	9,897,848	240,663,015	95.6%
750,000 - 1,000,000	3,254,611	0	0	0	0	0	3,254,611	243,917,625	96.9%
Over 1,000,000	7,701,565	0	0	0	0	0	7,701,565	251,619,190	100.0%
<b>Total</b>	<b>\$196,391,489</b>	<b>\$12,769,656</b>	<b>\$9,981,557</b>	<b>\$11,563,613</b>	<b>\$11,396,182</b>	<b>\$9,515,526</b>	<b>\$251,618,023</b>	<b>\$251,619,190</b>	

Amounts are gross of excess insurance.

Data was provided by the County.



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

Data Summary as of November 30, 2016  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Payroll (000) (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Limited Paid Losses 11/30/16 (8)	Limited Case Reserves 11/30/16 (9)	Limited Reported Incurred Losses 11/30/16 (10)
to 1996/97	See Note	None	240.0	Not Provided	12,867	13	\$21,047,702	\$192,591	\$21,240,293
1997/98	Unlimited	None	228.0	Not Provided	1,181	3	1,671,509	22,879	1,694,388
1998/99	Unlimited	None	216.0	Not Provided	1,120	0	2,366,347	0	2,366,347
1999/00	Unlimited	None	204.0	Not Provided	1,134	3	2,605,405	1,775	2,607,180
2000/01	9,500,000	None	192.0	719,952	1,183	6	4,451,323	101,604	4,552,927
2001/02	9,500,000	None	180.0	752,457	1,161	3	4,108,700	25,568	4,134,268
2002/03	9,500,000	None	168.0	779,098	1,223	3	4,112,867	16,639	4,129,506
2003/04	Unlimited	None	156.0	810,182	1,218	8	3,752,113	94,363	3,846,476
2004/05	Unlimited	None	144.0	832,363	1,318	6	11,670,377	22,252	11,692,629
2005/06	Unlimited	None	132.0	826,479	1,159	10	3,984,190	70,835	4,055,024
2006/07	Unlimited	None	120.0	859,906	903	11	4,698,678	97,759	4,796,437
2007/08	Unlimited	None	108.0	914,260	777	24	5,942,314	273,881	6,216,195
2008/09	Unlimited	None	96.0	942,707	767	28	6,068,781	552,038	6,620,819
2009/10	Unlimited	None	84.0	998,250	862	54	6,142,501	632,572	6,775,073
2010/11	Unlimited	None	72.0	928,082	788	45	4,475,802	344,442	4,820,243
2011/12	Unlimited	None	60.0	899,082	783	82	4,181,201	610,524	4,791,725
2012/13	Unlimited	None	48.0	949,338	719	83	3,588,703	921,328	4,510,031
2013/14	Unlimited	None	36.0	988,081	756	138	4,077,031	1,814,253	5,891,283
2014/15	Unlimited	None	24.0	998,567	768	223	3,400,216	2,843,043	6,243,259
2015/16	Unlimited	None	12.0	1,053,931	1,076	759	2,195,375	5,989,902	8,185,277
<b>Total</b>					<b>31,763</b>	<b>1,502</b>	<b>\$104,541,136</b>	<b>\$14,628,248</b>	<b>\$119,169,384</b>

\* 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, 2016  
Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Payroll (000) (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Unlimited Paid Losses 11/30/16 (8)	Unlimited Case Reserves 11/30/16 (9)	Unlimited Reported Incurred Losses 11/30/16 (10)
to 1996/97	Unlimited	None	240.0	Not Provided	12,867	13	\$21,047,702	\$192,591	\$21,240,293
1997/98	Unlimited	None	228.0	Not Provided	1,181	3	1,671,509	22,879	1,694,388
1998/99	Unlimited	None	216.0	Not Provided	1,120	0	2,366,347	0	2,366,347
1999/00	Unlimited	None	204.0	Not Provided	1,134	3	2,605,405	1,775	2,607,180
2000/01	Unlimited	None	192.0	719,952	1,183	6	4,451,323	101,604	4,552,927
2001/02	Unlimited	None	180.0	752,457	1,161	3	4,108,700	25,568	4,134,268
2002/03	Unlimited	None	168.0	779,098	1,223	3	4,112,867	16,639	4,129,506
2003/04	Unlimited	None	156.0	810,182	1,218	8	3,752,113	94,363	3,846,476
2004/05	Unlimited	None	144.0	832,363	1,318	6	11,670,377	22,252	11,692,629
2005/06	Unlimited	None	132.0	826,479	1,159	10	3,984,190	70,835	4,055,024
2006/07	Unlimited	None	120.0	859,906	903	11	4,698,678	97,759	4,796,437
2007/08	Unlimited	None	108.0	914,260	777	24	5,942,314	273,881	6,216,195
2008/09	Unlimited	None	96.0	942,707	767	28	6,068,781	552,038	6,620,819
2009/10	Unlimited	None	84.0	998,250	862	54	6,142,501	632,572	6,775,073
2010/11	Unlimited	None	72.0	928,082	788	45	4,475,802	344,442	4,820,243
2011/12	Unlimited	None	60.0	899,082	783	82	4,181,201	610,524	4,791,725
2012/13	Unlimited	None	48.0	949,338	719	83	3,588,703	921,328	4,510,031
2013/14	Unlimited	None	36.0	988,081	756	138	4,077,031	1,814,253	5,891,283
2014/15	Unlimited	None	24.0	998,567	768	223	3,400,216	2,843,043	6,243,259
2015/16	Unlimited	None	12.0	1,053,931	1,076	759	2,195,375	5,989,902	8,185,277
<b>Total</b>					<b>31,763</b>	<b>1,502</b>	<b>\$104,541,136</b>	<b>\$14,628,248</b>	<b>\$119,169,384</b>

(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 (MEDICAL)

Exhibit WC-Gov-Med-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	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%	93.7%	99.6%
36.0	71.0%	86.8%	99.3%
24.0	55.9%	74.2%	98.9%
12.0	20.0%	48.5%	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).



COOK COUNTY, ILLINOIS  
WORKERS' COMPENSATION - GENERAL GOVERNMENT (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 1996/97																					
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																					
	8,185	8,228	8,185	8,228	8,185	8,228	8,185	8,228	8,185	8,228	8,185	8,228	8,185	8,228	8,185	8,228	8,185	8,228	8,185	8,228	8,185

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 1996/97																					
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																					
	1,463	1,439	1,463	1,439	1,463	1,439	1,463	1,439	1,463	1,439	1,463	1,439	1,463	1,439	1,463	1,439	1,463	1,439	1,463	1,439	

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

1.463	1.439	1.463	1.439	1.463	1.439	1.463	1.439	1.463	1.439	1.463	1.439	1.463	1.439	1.463	1.439	1.463	1.439	1.463	1.439	1.463	1.439
1.191	1.530	1.191	1.530	1.191	1.530	1.191	1.530	1.191	1.530	1.191	1.530	1.191	1.530	1.191	1.530	1.191	1.530	1.191	1.530	1.191	1.530
1.375	1.348	1.375	1.348	1.375	1.348	1.375	1.348	1.375	1.348	1.375	1.348	1.375	1.348	1.375	1.348	1.375	1.348	1.375	1.348	1.375	1.348
1.622	1.485%	1.622	1.485%	1.622	1.485%	1.622	1.485%	1.622	1.485%	1.622	1.485%	1.622	1.485%	1.622	1.485%	1.622	1.485%	1.622	1.485%	1.622	1.485%
0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971
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	0.984
0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972
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	0.984
0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971
0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953
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	0.962
0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972
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	0.984
0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971
0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953
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	0.962
0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972
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	0.984
0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971
0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953
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	0.962
0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972
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	0.984
0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971
0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953
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	0.962
0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972
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	0.984
0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971
0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953
0.962	0.962	0.962	0.9																		



**COOK COUNTY, ILLINOIS  
WORKERS' COMPENSATION - GENERAL GOVERNMENT (MEDICAL)**  
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 1996/97																					
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																					

II. Reported Claim Development

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 1996/97																					
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																					
Average All	1.024	1.015	1.003	1.002	1.002	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Wtd 3	1.018	1.011	1.007	1.007	1.005	1.004	1.003	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 3	1.018	1.011	1.007	1.007	1.005	1.004	1.003	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 5 x-tiltlow	1.010	1.004	1.003	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Similar	1.131	1.019	1.010	1.007	1.007	1.005	1.005	1.006	1.001	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 - GENERAL GOVERNMENT (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	
to 1/06/07																					
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																					
Average																					
All	39.6%	71.0%	80.4%	85.1%	87.3%	88.8%	87.7%	87.6%	88.0%	92.5%	96.0%	97.8%	98.0%	98.6%	98.6%	98.6%	99.6%	99.6%	99.1%	99.6%	98.1%
Last 3	26.8%	58.7%	77.2%	85.6%	91.1%	93.1%	93.6%	96.0%	97.2%	98.6%	98.9%	98.5%	99.2%	99.1%	98.2%	98.5%	99.6%	99.6%	98.5%	98.6%	98.1%
Last 5	32.0%	68.6%	85.7%	90.2%	94.2%	95.6%	96.3%	98.6%	97.9%	98.9%	98.9%	99.2%	98.4%	99.1%	98.5%	98.4%	99.6%	99.6%	98.5%	98.6%	98.1%
x-high																					
Implicit	41.2%	75.4%	81.8%	85.2%	89.5%	91.8%	93.3%	94.9%	95.9%	96.5%	96.8%	97.0%	97.2%	97.3%	97.3%	97.3%	97.3%	97.4%	97.4%	97.4%	97.4%

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/16 (2)	Limited Paid Losses 11/30/16 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1996/97	240.0	\$21,047,702	97.4%	\$21,615,990
1997/98	228.0	1,671,509	97.4%	1,716,640
1998/99	216.0	2,366,347	97.4%	2,430,239
1999/00	204.0	2,605,405	97.3%	2,678,427
2000/01	192.0	4,451,323	97.2%	4,580,656
2001/02	180.0	4,108,700	97.1%	4,232,307
2002/03	168.0	4,112,867	97.0%	4,240,836
2003/04	156.0	3,752,113	96.8%	3,876,595
2004/05	144.0	11,670,377	96.5%	12,093,731
2005/06	132.0	3,984,190	96.2%	4,141,106
2006/07	120.0	4,698,678	95.7%	4,908,153
2007/08	108.0	5,942,314	95.0%	6,256,890
2008/09	96.0	6,068,781	93.7%	6,479,513
2009/10	84.0	6,142,501	91.8%	6,689,387
2010/11	72.0	4,475,802	89.4%	5,005,902
2011/12	60.0	4,181,201	85.7%	4,877,496
2012/13	48.0	3,588,703	79.9%	4,491,931
2013/14	36.0	4,077,031	71.0%	5,741,060
2014/15	24.0	3,400,216	55.9%	6,080,766
2015/16	12.0	2,195,375	20.0%	10,993,059
Total		\$104,541,136		\$123,130,681

(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 11/30/16 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1996/97	240.0	\$21,240,293	100.0%	\$21,240,293
1997/98	228.0	1,694,388	100.0%	1,694,388
1998/99	216.0	2,366,347	100.0%	2,366,347
1999/00	204.0	2,607,180	100.0%	2,607,180
2000/01	192.0	4,552,927	99.9%	4,557,480
2001/02	180.0	4,134,268	99.8%	4,142,541
2002/03	168.0	4,129,506	99.7%	4,141,907
2003/04	156.0	3,846,476	99.6%	3,861,885
2004/05	144.0	11,692,629	99.5%	11,751,209
2005/06	132.0	4,055,024	99.4%	4,079,415
2006/07	120.0	4,796,437	99.2%	4,834,938
2007/08	108.0	6,216,195	99.0%	6,278,625
2008/09	96.0	6,620,819	98.7%	6,707,375
2009/10	84.0	6,775,073	98.4%	6,884,237
2010/11	72.0	4,820,243	97.4%	4,946,888
2011/12	60.0	4,791,725	95.8%	5,001,220
2012/13	48.0	4,510,031	93.7%	4,810,769
2013/14	36.0	5,891,283	86.8%	6,786,856
2014/15	24.0	6,243,259	74.2%	8,415,036
2015/16	12.0	8,185,277	48.5%	16,879,882
Total		\$119,169,384		\$131,988,474

(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 11/30/16 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/16 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/16 (6)	Limited Case Reserves 11/30/16 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1996/97	240.0	97.4%	100.0%	100.0%	\$21,047,702	\$192,591	\$21,240,293
1997/98	228.0	97.4%	100.0%	100.0%	1,671,509	22,879	1,694,388
1998/99	216.0	97.4%	100.0%	100.0%	2,366,347	0	2,366,347
1999/00	204.0	97.3%	100.0%	100.0%	2,605,405	1,775	2,607,180
2000/01	192.0	97.2%	99.9%	96.5%	4,451,323	101,604	4,556,654
2001/02	180.0	97.1%	99.8%	93.2%	4,108,700	25,568	4,136,145
2002/03	168.0	97.0%	99.7%	90.1%	4,112,867	16,639	4,131,339
2003/04	156.0	96.8%	99.6%	87.6%	3,752,113	94,363	3,859,865
2004/05	144.0	96.5%	99.5%	85.8%	11,670,377	22,252	11,696,324
2005/06	132.0	96.2%	99.4%	84.2%	3,984,190	70,835	4,068,295
2006/07	120.0	95.7%	99.2%	81.3%	4,698,678	97,759	4,818,861
2007/08	108.0	95.0%	99.0%	80.2%	5,942,314	273,881	6,283,713
2008/09	96.0	93.7%	98.7%	79.6%	6,068,781	552,038	6,761,927
2009/10	84.0	91.8%	98.4%	80.6%	6,142,501	632,572	6,927,290
2010/11	72.0	89.4%	97.4%	75.8%	4,475,802	344,442	4,930,065
2011/12	60.0	85.7%	95.8%	70.7%	4,181,201	610,524	5,045,266
2012/13	48.0	79.9%	93.7%	68.9%	3,588,703	921,328	4,925,690
2013/14	36.0	71.0%	86.8%	54.5%	4,077,031	1,814,253	7,407,550
2014/15	24.0	55.9%	74.2%	41.5%	3,400,216	2,843,043	10,258,444
2015/16	12.0	20.0%	48.5%	35.6%	2,195,375	5,989,902	19,003,081
<b>Total</b>					<b>\$104,541,136</b>	<b>\$14,628,248</b>	<b>\$136,718,719</b>

(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 2015/16

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 1996/97	\$21,615,990	\$21,240,293	\$21,240,293	\$21,259,552
1997/98	1,716,640	1,694,388	1,694,388	1,696,676
1998/99	2,430,239	2,366,347	2,366,347	2,366,347
1999/00	2,678,427	2,607,180	2,607,180	2,607,358
2000/01	4,580,656	4,557,480	4,556,654	4,563,088
2001/02	4,232,307	4,142,541	4,136,145	4,136,825
2002/03	4,240,836	4,141,907	4,131,339	4,131,339
2003/04	3,876,595	3,861,885	3,859,865	3,859,865
2004/05	12,093,731	11,751,209	11,696,324	11,696,324
2005/06	4,141,106	4,079,415	4,068,295	4,068,295
2006/07	4,908,153	4,834,938	4,818,861	4,818,861
2007/08	6,256,890	6,278,625	6,283,713	6,283,205
2008/09	6,479,513	6,707,375	6,761,927	6,751,016
2009/10	6,689,387	6,884,237	6,927,290	6,914,374
2010/11	5,005,902	4,946,888	4,930,065	4,936,794
2011/12	4,877,496	5,001,220	5,045,266	5,010,871
2012/13	4,491,931	4,810,769	4,925,690	4,792,970
2013/14	5,741,060	6,786,856	7,407,550	6,763,905
2014/15	6,080,766	8,415,036	10,258,444	8,316,864
2015/16	10,993,059	16,879,882	19,003,081	16,503,520
<b>Total</b>	<b>\$123,130,681</b>	<b>\$131,988,474</b>	<b>\$136,718,719</b>	<b>\$131,478,050</b>

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

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

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

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

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Payroll (000) (3)	Limited Loss Rate per \$100 of Payroll (2)/(3)/10 (4)	Loss Rate Trend (2016/17 = 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)
2006/07	\$4,818,861	\$859,906	\$0.56	1.446	\$0.81	\$0.60
2007/08	6,283,205	914,260	0.69	1.368	0.94	0.63
2008/09	6,751,016	942,707	0.72	1.231	0.88	0.70
2009/10	6,914,374	998,250	0.69	1.180	0.82	0.73
2010/11	4,936,794	928,082	0.53	1.163	0.62	0.75
2011/12	5,010,871	899,082	0.56	1.244	0.69	0.70
2012/13	4,792,970	949,338	0.50	1.192	0.60	0.73
2013/14	6,763,905	988,081	0.68	1.137	0.78	0.76
2014/15	8,316,864	998,567	0.83	1.083	0.90	0.80
2015/16	16,503,520	1,053,931	1.57	1.040	1.63	0.83

(7) Projected 2016/17 a-priori loss rate per \$100 of Payroll \$0.87

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/16 (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)
2011/12	\$4,181,201	85.7%	\$0.70	\$899,082	\$894,638	\$5,075,839
2012/13	3,588,703	79.9%	0.73	949,338	1,388,820	4,977,523
2013/14	4,077,031	71.0%	0.76	988,081	2,184,500	6,261,531
2014/15	3,400,216	55.9%	0.80	998,567	3,526,271	6,926,487
2015/16	2,195,375	20.0%	0.83	1,053,931	7,032,870	9,228,245

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (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)
2011/12	\$4,791,725	95.8%	\$0.70	\$899,082	\$262,512	\$5,054,237
2012/13	4,510,031	93.7%	0.73	949,338	431,773	4,941,804
2013/14	5,891,283	86.8%	0.76	988,081	994,525	6,885,808
2014/15	6,243,259	74.2%	0.80	998,567	2,064,473	8,307,733
2015/16	8,185,277	48.5%	0.83	1,053,931	4,526,508	12,711,784

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 11/30/16 (2)	Reported Claims 11/30/16 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2006/07	120.0	903	100.0%	903	\$859,906	1.05
2007/08	108.0	777	100.0%	777	914,260	0.85
2008/09	96.0	767	100.0%	767	942,707	0.81
2009/10	84.0	862	99.9%	863	998,250	0.86
2010/11	72.0	788	99.8%	790	928,082	0.85
2011/12	60.0	783	99.7%	785	899,082	0.87
2012/13	48.0	719	99.6%	722	949,338	0.76
2013/14	36.0	756	99.3%	761	988,081	0.77
2014/15	24.0	768	98.9%	776	998,567	0.78
2015/16	12.0	1,076	96.5%	1,115	1,053,931	1.06

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2016/17 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2016/17 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2006/07	\$4,818,861	903	\$5,337	1.944	\$10,374	\$5,975	\$5,395,618
2007/08	6,283,205	777	8,086	1.785	14,437	6,506	5,055,262
2008/09	6,751,016	767	8,802	1.559	13,722	7,451	5,714,666
2009/10	6,914,374	863	8,012	1.451	11,627	8,004	6,907,304
2010/11	4,936,794	790	6,249	1.389	8,677	8,365	6,608,389
2011/12	5,010,871	785	6,383	1.442	9,206	8,054	6,322,183
2012/13	4,792,970	722	6,638	1.342	8,906	8,659	6,251,447
2013/14	6,763,905	761	8,888	1.242	11,042	9,350	7,115,335
2014/15	8,316,864	776	10,718	1.148	12,308	10,114	7,848,597
2015/16	16,503,520	1,115	14,801	1.071	15,855	10,843	12,090,383

(7) Projected 2016/17 average claim severity

\$11,615

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 2015/16

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 1996/97	\$21,615,990	\$21,240,293	\$21,240,293				\$24,304,758	\$21,260,000
1997/98	1,716,640	1,694,388	1,694,388				1,791,268	1,700,000
1998/99	2,430,239	2,366,347	2,366,347				2,504,395	2,366,347
1999/00	2,678,427	2,607,180	2,607,180				2,957,385	2,610,000
2000/01	4,580,656	4,557,480	4,556,654				5,030,000	4,563,088
2001/02	4,232,307	4,142,541	4,136,145				4,547,318	4,140,000
2002/03	4,240,836	4,141,907	4,131,339				4,546,835	4,131,170
2003/04	3,876,595	3,861,885	3,859,865				4,384,000	3,860,000
2004/05	12,093,731	11,751,209	11,696,324				12,193,000	11,700,000
2005/06	4,141,106	4,079,415	4,068,295				4,422,000	4,070,000
2006/07	4,908,153	4,834,938	4,818,861				5,506,000	4,820,000
2007/08	6,256,890	6,278,625	6,283,713				10,739,000	6,280,000
2008/09	6,479,513	6,707,375	6,761,927				7,126,000	6,750,000
2009/10	6,689,387	6,884,237	6,927,290				7,396,000	6,910,000
2010/11	5,005,902	4,946,888	4,930,065				5,516,000	4,940,000
2011/12	4,877,496	5,001,220	5,045,266	5,075,839	5,054,237	6,322,183	6,223,000	5,010,000
2012/13	4,491,931	4,810,769	4,925,690	4,977,523	4,941,804	6,251,447	6,450,000	4,900,000
2013/14	5,741,060	6,786,856	7,407,550	6,261,531	6,885,808	7,115,335	10,020,000	6,800,000
2014/15	6,080,766	8,415,036	10,258,444	6,926,487	8,307,733	7,848,597	12,500,000	8,350,000
2015/16	10,993,059	16,879,882	19,003,081	9,228,245	12,711,784	12,090,383	10,092,000	12,500,000
<b>Total</b>	<b>\$123,130,681</b>	<b>\$131,988,474</b>	<b>\$136,718,719</b>				<b>\$148,248,959</b>	<b>\$127,660,605</b>
2011/12 - 2015/16	32,184,311	41,893,765	46,640,031	32,469,624	37,901,367	39,627,945	45,285,000	37,560,000
to 2010/11	90,946,370	90,094,710	90,078,688				102,963,959	90,100,605
						<b>Change</b>		
						All years		-\$20,588,353
						2011/12 - 2015/16		-7,725,000
						to 2010/11		-12,863,353

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

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

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

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

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

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

Projected Ultimate Limited Losses for 2016/17 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 (2016/17 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2006/07	\$4,820,000	\$859,906	\$0.56	1.446	\$0.81
2007/08	6,280,000	914,260	0.69	1.368	0.94
2008/09	6,750,000	942,707	0.72	1.231	0.88
2009/10	6,910,000	998,250	0.69	1.180	0.82
2010/11	4,940,000	928,082	0.53	1.163	0.62
2011/12	5,010,000	899,082	0.56	1.244	0.69
2012/13	4,900,000	949,338	0.52	1.192	0.62
2013/14	6,800,000	988,081	0.69	1.137	0.78
2014/15	8,350,000	998,567	0.84	1.083	0.91
2015/16	12,500,000	1,053,931	1.19	1.040	1.23
<b>Total</b>	<b>\$67,260,000</b>	<b>\$9,532,204</b>	<b>\$0.71</b>		<b>\$0.83</b>

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)
2016/17	\$0.83	\$1,075,720	\$8,930,000	0.96	\$0.80	\$8,590,000
2017/18	0.86	1,075,720	9,280,000	0.96	0.83	8,930,000
2018/19	0.90	1,075,720	9,650,000	0.96	0.86	9,290,000

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

(3) was provided by the County.

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

(7) 2016/17 is based on (6) and actuarial judgment.  
Other period(s) based on 2016/17 plus the trend in Exhibit WC-Gov-Med-15.

(8) to 2016/17 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.31% 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, 2016

Claim Period (1)	Limited Paid Losses 11/30/16 (2)	Limited Case Reserves 11/30/16 (3)	Limited Reported Incurred Losses 11/30/16 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/16 (5)-(4) (6)	Estimated Outstanding Losses 11/30/16 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/16 (7)X(8) (9)
to 1996/97	\$21,047,702	\$192,591	\$21,240,293	\$21,260,000	\$19,707	\$212,298	0.97	\$204,897
1997/98	1,671,509	22,879	1,694,388	1,700,000	5,612	28,491	0.95	27,142
1998/99	2,366,347	0	2,366,347	2,366,347	0	0	0.94	0
1999/00	2,605,405	1,775	2,607,180	2,610,000	2,820	4,595	0.93	4,276
2000/01	4,451,323	101,604	4,552,927	4,563,088	10,160	111,764	0.92	102,942
2001/02	4,108,700	25,568	4,134,268	4,140,000	5,732	31,300	0.91	28,544
2002/03	4,112,867	16,639	4,129,506	4,131,170	1,664	18,303	0.90	16,531
2003/04	3,752,113	94,363	3,846,476	3,860,000	13,524	107,887	0.90	96,843
2004/05	11,670,377	22,252	11,692,629	11,700,000	7,371	29,623	0.89	26,510
2005/06	3,984,190	70,835	4,055,024	4,070,000	14,976	85,811	0.89	76,521
2006/07	4,698,678	97,759	4,796,437	4,820,000	23,563	121,322	0.89	108,330
2007/08	5,942,314	273,881	6,216,195	6,280,000	63,805	337,686	0.90	303,349
2008/09	6,068,781	552,038	6,620,819	6,750,000	129,181	681,219	0.91	619,089
2009/10	6,142,501	632,572	6,775,073	6,910,000	134,927	767,499	0.92	705,113
2010/11	4,475,802	344,442	4,820,243	4,940,000	119,757	464,199	0.93	430,125
2011/12	4,181,201	610,524	4,791,725	5,010,000	218,275	828,799	0.93	774,916
2012/13	3,588,703	921,328	4,510,031	4,900,000	389,969	1,311,297	0.94	1,237,050
2013/14	4,077,031	1,814,253	5,891,283	6,800,000	908,717	2,722,970	0.95	2,587,558
2014/15	3,400,216	2,843,043	6,243,259	8,350,000	2,106,741	4,949,784	0.96	4,736,951
2015/16	2,195,375	5,989,902	8,185,277	12,500,000	4,314,723	10,304,625	0.97	9,960,302
<b>Total</b>	<b>\$104,541,136</b>	<b>\$14,628,248</b>	<b>\$119,169,384</b>	<b>\$127,660,605</b>	<b>\$8,491,224</b>	<b>\$23,119,472</b>		<b>\$22,046,989</b>

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

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

(8) is based on a 1.31% 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, 2016 to November 30, 2017

Claim Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Months of Development 11/30/17 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/16 to 11/30/17 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/16 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/17 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/17 (9)X(10) (11)
to 1996/97	240.0	97.4%	252.0	98.2%	30.0%	\$212,298	\$63,689	\$148,609	0.97	\$143,476
1997/98	228.0	97.4%	240.0	97.4%	100.0%	28,491	28,491	0	0.97	0
1998/99	216.0	97.4%	228.0	97.4%	100.0%	0	0	0	0.95	0
1999/00	204.0	97.3%	216.0	97.4%	3.6%	4,595	164	4,431	0.94	4,167
2000/01	192.0	97.2%	204.0	97.3%	3.4%	111,764	3,847	107,917	0.93	100,418
2001/02	180.0	97.1%	192.0	97.2%	3.3%	31,300	1,040	30,260	0.92	27,871
2002/03	168.0	97.0%	180.0	97.1%	3.2%	18,303	588	17,715	0.91	16,155
2003/04	156.0	96.8%	168.0	97.0%	6.0%	107,887	6,504	101,383	0.90	91,565
2004/05	144.0	96.5%	156.0	96.8%	8.3%	29,623	2,450	27,173	0.90	24,391
2005/06	132.0	96.2%	144.0	96.5%	7.6%	85,811	6,536	79,275	0.89	70,945
2006/07	120.0	95.7%	132.0	96.2%	11.2%	121,322	13,607	107,715	0.89	96,054
2007/08	108.0	95.0%	120.0	95.7%	15.1%	337,686	51,031	286,655	0.89	255,959
2008/09	96.0	93.7%	108.0	95.0%	20.7%	681,219	140,915	540,304	0.90	485,364
2009/10	84.0	91.8%	96.0	93.7%	22.5%	767,499	172,408	595,091	0.91	540,816
2010/11	72.0	89.4%	84.0	91.8%	22.8%	464,199	105,823	358,376	0.92	329,245
2011/12	60.0	85.7%	72.0	89.4%	25.8%	828,799	214,006	614,793	0.93	569,664
2012/13	48.0	79.9%	60.0	85.7%	29.0%	1,311,297	380,333	930,964	0.93	870,439
2013/14	36.0	71.0%	48.0	79.9%	30.6%	2,722,970	833,942	1,889,028	0.94	1,782,069
2014/15	24.0	55.9%	36.0	71.0%	34.2%	4,949,784	1,695,246	3,254,538	0.95	3,092,692
2015/16	12.0	20.0%	24.0	55.9%	44.9%	10,304,625	4,628,551	5,676,074	0.96	5,432,012
2016/17	0.0	0.0%	12.0	20.0%	20.0%	8,930,000	1,783,371	7,146,629	0.97	6,907,828
Total						\$32,049,472	\$10,132,542	\$21,916,930		\$20,841,130

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

(7) to 2015/16 is from Exhibit WC-Gov-Med-11. The amount for 2016/17 is from Exhibit WC-Gov-Med-10.

(10) is based on a 1.31% interest rate and the payout pattern in Exhibit WC-Gov-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 1996/97	252.0	98.2%	264.0	98.7%	30.0%	\$148,609	\$44,583	\$104,026	0.97	\$100,482
1997/98	240.0	97.4%	252.0	98.2%	30.0%	0	0	0	0.97	0
1998/99	228.0	97.4%	240.0	97.4%	100.0%	0	0	0	0.97	0
1999/00	216.0	97.4%	228.0	97.4%	100.0%	4,431	4,431	0	0.95	0
2000/01	204.0	97.3%	216.0	97.4%	3.6%	107,917	3,850	104,067	0.94	97,858
2001/02	192.0	97.2%	204.0	97.3%	3.4%	30,260	1,041	29,219	0.93	27,189
2002/03	180.0	97.1%	192.0	97.2%	3.3%	17,715	589	17,126	0.92	15,774
2003/04	168.0	97.0%	180.0	97.1%	3.2%	101,383	3,258	98,125	0.91	89,486
2004/05	156.0	96.8%	168.0	97.0%	6.0%	27,173	1,638	25,535	0.90	23,062
2005/06	144.0	96.5%	156.0	96.8%	8.3%	79,275	6,556	72,719	0.90	65,275
2006/07	132.0	96.2%	144.0	96.5%	7.6%	107,715	8,205	99,510	0.89	89,053
2007/08	120.0	95.7%	132.0	96.2%	11.2%	286,655	32,149	254,506	0.89	226,953
2008/09	108.0	95.0%	120.0	95.7%	15.1%	540,304	81,650	458,654	0.89	409,539
2009/10	96.0	93.7%	108.0	95.0%	20.7%	595,091	123,099	471,992	0.90	423,998
2010/11	84.0	91.8%	96.0	93.7%	22.5%	358,376	80,504	277,872	0.91	252,529
2011/12	72.0	89.4%	84.0	91.8%	22.8%	614,793	140,154	474,639	0.92	436,058
2012/13	60.0	85.7%	72.0	89.4%	25.8%	930,964	240,386	690,578	0.93	639,886
2013/14	48.0	79.9%	60.0	85.7%	29.0%	1,889,028	547,900	1,341,128	0.93	1,253,937
2014/15	36.0	71.0%	48.0	79.9%	30.6%	3,254,538	996,741	2,257,797	0.94	2,129,958
2015/16	24.0	55.9%	36.0	71.0%	34.2%	5,676,074	1,943,992	3,732,082	0.95	3,546,488
2016/17	12.0	20.0%	24.0	55.9%	44.9%	7,146,629	3,210,067	3,936,562	0.96	3,767,296
2017/18	0.0	0.0%	12.0	20.0%	20.0%	9,280,000	1,853,268	7,426,732	0.97	7,178,572
<b>Total</b>						<b>\$31,196,930</b>	<b>\$9,324,061</b>	<b>\$21,872,869</b>		<b>\$20,773,393</b>

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

(7) to 2016/17 is from Exhibit WC-Gov-Med-12, (9). The amount for 2017/18 is from Exhibit WC-Gov-Med-10.

(10) is based on a 1.31% 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, 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 1996/97	264.0	98.7%	276.0	99.1%	30.0%	\$104,026	\$31,208	\$72,818	0.97	\$70,386
1997/98	252.0	98.2%	264.0	98.7%	30.0%	0	0	0	0.97	0
1998/99	240.0	97.4%	252.0	98.2%	30.0%	0	0	0	0.97	0
1999/00	228.0	97.4%	240.0	97.4%	100.0%	0	0	0	0.97	0
2000/01	216.0	97.4%	228.0	97.4%	100.0%	104,067	104,067	0	0.95	0
2001/02	204.0	97.3%	216.0	97.4%	3.6%	29,219	1,043	28,176	0.94	26,495
2002/03	192.0	97.2%	204.0	97.3%	3.4%	17,126	589	16,537	0.93	15,388
2003/04	180.0	97.1%	192.0	97.2%	3.3%	98,125	3,262	94,863	0.92	87,375
2004/05	168.0	97.0%	180.0	97.1%	3.2%	25,535	821	24,714	0.91	22,538
2005/06	156.0	96.8%	168.0	97.0%	6.0%	72,719	4,384	68,335	0.90	61,718
2006/07	144.0	96.5%	156.0	96.8%	8.3%	99,510	8,229	91,281	0.90	81,937
2007/08	132.0	96.2%	144.0	96.5%	7.6%	254,506	19,386	235,120	0.89	210,413
2008/09	120.0	95.7%	132.0	96.2%	11.2%	458,654	51,440	407,214	0.89	363,128
2009/10	108.0	95.0%	120.0	95.7%	15.1%	471,992	71,327	400,665	0.89	357,760
2010/11	96.0	93.7%	108.0	95.0%	20.7%	277,872	57,480	220,392	0.90	197,982
2011/12	84.0	91.8%	96.0	93.7%	22.5%	474,639	106,621	368,018	0.91	334,453
2012/13	72.0	89.4%	84.0	91.8%	22.8%	690,578	157,431	533,147	0.92	489,810
2013/14	60.0	85.7%	72.0	89.4%	25.8%	1,341,128	346,296	994,832	0.93	921,807
2014/15	48.0	79.9%	60.0	85.7%	29.0%	2,257,797	654,859	1,602,938	0.93	1,498,726
2015/16	36.0	71.0%	48.0	79.9%	30.6%	3,732,082	1,142,995	2,589,087	0.94	2,442,490
2016/17	24.0	55.9%	36.0	71.0%	34.2%	3,936,562	1,348,228	2,588,334	0.95	2,459,618
2017/18	12.0	20.0%	24.0	55.9%	44.9%	7,426,732	3,335,882	4,090,850	0.96	3,914,950
2018/19	0.0	0.0%	12.0	20.0%	20.0%	9,650,000	1,927,159	7,722,841	0.97	7,464,787
<b>Total</b>						<b>\$31,522,869</b>	<b>\$9,372,707</b>	<b>\$22,150,162</b>		<b>\$21,021,761</b>

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

(7) to 2017/18 is from Exhibit WC-Gov-Med-13, (9). The amount for 2018/19 is from Exhibit WC-Gov-Med-10.

(10) is based on a 1.31% 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)
01/01/07	1.026	1.026
01/01/08	1.018	1.044
01/01/09	1.029	1.075
02/01/09	1.048	1.126
01/01/10	0.992	1.117
01/01/11	1.015	1.134
09/01/11	0.853	0.967
01/01/12	1.015	0.982
11/20/12	0.994	0.976
01/01/13	1.009	0.985
01/01/14	1.008	0.993
01/01/15	1.010	1.003

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2016/17 = 1.000) (2)	Residual Trend (2016/17 = 1.000) (3)	Retention Index (2016/17 = 1.000) (4)	Loss Rate Trend (2016/17 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2016/17 = 1.000) (6)	Severity Trend (2016/17 = 1.000) (5)X(6) (7)
2006/07	0.977	1.480	1.000	1.446	1.344	1.944
2007/08	0.961	1.423	1.000	1.368	1.305	1.785
2008/09	0.899	1.369	1.000	1.231	1.267	1.559
2009/10	0.897	1.316	1.000	1.180	1.230	1.451
2010/11	0.919	1.265	1.000	1.163	1.194	1.389
2011/12	1.023	1.217	1.000	1.244	1.159	1.442
2012/13	1.019	1.170	1.000	1.192	1.126	1.342
2013/14	1.011	1.125	1.000	1.137	1.093	1.242
2014/15	1.001	1.082	1.000	1.083	1.061	1.148
2015/16	1.000	1.040	1.000	1.040	1.030	1.071
2016/17	1.000	1.000	1.000	1.000	1.000	1.000
2017/18	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 11/30/16 (5)	Unlimited Case Reserves 11/30/16 (6)	Unlimited Reported Incurred Losses 11/30/16 (7)
20061775	2/5/2005	2004/05	Unlimited	\$1,471,257	\$0	\$1,471,257
20050352	2/5/2005	2004/05	Unlimited	6,171,677	0	6,171,677

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)	2011/12 (3)	2012/13 (4)	2013/14 (5)	2014/15 (6)	2015/16 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	15,630	436	386	379	381	275	17,487		
0.01 - 5,000	9,650	231	215	213	199	459	10,967	10,967	76.8%
5,000 - 10,000	886	30	26	39	32	115	1,128	12,095	84.7%
10,000 - 25,000	762	35	43	58	54	135	1,087	13,182	92.3%
25,000 - 50,000	388	24	26	39	71	79	627	13,809	96.7%
50,000 - 100,000	202	17	15	24	26	12	296	14,105	98.8%
100,000 - 250,000	120	10	7	2	5	1	145	14,250	99.8%
250,000 - 500,000	17	0	1	2	0	0	20	14,270	100.0%
500,000 - 750,000	4	0	0	0	0	0	4	14,274	100.0%
750,000 - 1,000,000	0	0	0	0	0	0	0	14,274	100.0%
Over 1,000,000	2	0	0	0	0	0	2	14,276	100.0%
<b>Total</b>	<b>27,661</b>	<b>783</b>	<b>719</b>	<b>756</b>	<b>768</b>	<b>1,076</b>	<b>31,763</b>	<b>14,276</b>	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2011/12 (3)	2012/13 (4)	2013/14 (5)	2014/15 (6)	2015/16 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	-\$1,479	\$0	\$0	-\$1,479		
0.01 - 5,000	9,650,651	323,436	346,706	318,312	326,789	842,827	11,808,721	11,808,721	9.9%
5,000 - 10,000	6,227,781	226,868	185,547	282,623	222,190	992,500	8,137,508	19,946,229	16.7%
10,000 - 25,000	12,387,267	586,679	695,230	972,218	900,805	2,392,247	17,934,445	37,880,674	31.8%
25,000 - 50,000	13,500,514	842,391	888,257	1,503,189	2,362,054	2,871,203	21,967,610	59,848,284	50.2%
50,000 - 100,000	13,915,192	1,149,777	1,068,318	1,711,217	1,725,922	891,500	20,461,927	80,310,211	67.4%
100,000 - 250,000	18,205,301	1,662,574	1,046,597	405,204	705,500	195,000	22,220,175	102,530,386	86.0%
250,000 - 500,000	5,708,833	0	279,376	700,000	0	0	6,688,210	109,218,596	91.6%
500,000 - 750,000	2,309,334	0	0	0	0	0	2,309,334	111,527,929	93.6%
750,000 - 1,000,000	0	0	0	0	0	0	0	111,527,929	93.6%
Over 1,000,000	7,642,934	0	0	0	0	0	7,642,934	119,170,863	100.0%
<b>Total</b>	<b>\$89,547,808</b>	<b>\$4,791,725</b>	<b>\$4,510,031</b>	<b>\$5,891,283</b>	<b>\$6,243,259</b>	<b>\$8,185,277</b>	<b>\$119,169,384</b>	<b>\$119,170,863</b>	

Amounts are gross of excess insurance.

Data was provided by the County.

Data Summary as of November 30, 2016  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Revenue (000) (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Limited Paid Losses 11/30/16 (8)	Limited Case Reserves 11/30/16 (9)	Limited Reported Incurred Losses 11/30/16 (10)
to 1996/97	See Note	None	240.0	Not Provided	47	0	\$3,206,840	\$0	\$3,206,840
1997/98	Unlimited	None	228.0	953,497	22	0	1,096,413	0	1,096,413
1998/99	Unlimited	None	216.0	958,768	29	0	256,471	0	256,471
1999/00	Unlimited	None	204.0	1,018,542	30	0	1,636,116	0	1,636,116
2000/01	9,500,000	40,000,000	192.0	1,068,809	41	0	692,872	0	692,872
2001/02	9,500,000	40,000,000	180.0	1,057,079	33	0	242,675	0	242,675
2002/03	9,500,000	45,000,000	168.0	1,086,728	34	0	428,613	0	428,613
2003/04	10,000,000	None	156.0	1,199,434	34	0	35,161	0	35,161
2004/05	10,000,000	25,000,000	144.0	1,189,789	65	0	222,376	0	222,376
2005/06	10,000,000	25,000,000	132.0	1,357,723	40	0	170,347	0	170,347
2006/07	10,000,000	None	120.0	1,243,144	49	0	117,830	0	117,830
2007/08	10,000,000	None	108.0	1,207,801	212	0	446,995	0	446,995
2008/09	10,000,000	None	96.0	1,303,812	142	0	152,107	0	152,107
2009/10	10,000,000	None	84.0	1,287,986	68	0	312,995	0	312,995
2010/11	10,000,000	None	72.0	1,293,078	48	1	138,548	0	138,548
2011/12	10,000,000	None	60.0	1,331,769	52	1	140,020	30,000	170,020
2012/13	15,000,000	None	48.0	1,285,791	68	0	356,365	0	356,365
2013/14	15,000,000	None	36.0	1,362,902	222	3	97,933	160,000	257,933
2014/15	15,000,000	None	24.0	1,509,150	41	18	26,623	384,700	411,323
2015/16	15,000,000	None	12.0	Not Provided	30	19	11,570	101,000	112,570
<b>Total</b>					<b>1,307</b>	<b>42</b>	<b>\$9,788,869</b>	<b>\$675,700</b>	<b>\$10,464,569</b>

\* 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, 2016  
Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Revenue (000) (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Unlimited Paid Losses 11/30/16 (8)	Unlimited Case Reserves 11/30/16 (9)	Unlimited Reported Incurred Losses 11/30/16 (10)
to 1996/97	Unlimited	None	240.0	Not Provided	47	0	\$3,206,840	\$0	\$3,206,840
1997/98	Unlimited	None	228.0	953,497	22	0	1,096,413	0	1,096,413
1998/99	Unlimited	None	216.0	958,768	29	0	256,471	0	256,471
1999/00	Unlimited	None	204.0	1,018,542	30	0	1,636,116	0	1,636,116
2000/01	Unlimited	40,000,000	192.0	1,068,809	41	0	692,872	0	692,872
2001/02	Unlimited	40,000,000	180.0	1,057,079	33	0	242,675	0	242,675
2002/03	Unlimited	45,000,000	168.0	1,086,728	34	0	428,613	0	428,613
2003/04	Unlimited	None	156.0	1,199,434	34	0	35,161	0	35,161
2004/05	Unlimited	25,000,000	144.0	1,189,789	65	0	222,376	0	222,376
2005/06	Unlimited	25,000,000	132.0	1,357,723	40	0	170,347	0	170,347
2006/07	Unlimited	None	120.0	1,243,144	49	0	117,830	0	117,830
2007/08	Unlimited	None	108.0	1,207,801	212	0	446,995	0	446,995
2008/09	Unlimited	None	96.0	1,303,812	142	0	152,107	0	152,107
2009/10	Unlimited	None	84.0	1,287,986	68	0	312,995	0	312,995
2010/11	Unlimited	None	72.0	1,293,078	48	1	138,548	0	138,548
2011/12	Unlimited	None	60.0	1,331,769	52	1	140,020	30,000	170,020
2012/13	Unlimited	None	48.0	1,285,791	68	0	356,365	0	356,365
2013/14	Unlimited	None	36.0	1,362,902	222	3	97,933	160,000	257,933
2014/15	Unlimited	None	24.0	1,509,150	41	18	26,623	384,700	411,323
2015/16	Unlimited	None	12.0	Not Provided	30	19	11,570	101,000	112,570
<b>Total</b>					<b>1,307</b>	<b>42</b>	<b>\$9,788,869</b>	<b>\$675,700</b>	<b>\$10,464,569</b>

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

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	100.0%	100.0%	100.0%
120.0	100.0%	100.0%	100.0%
108.0	100.0%	100.0%	100.0%
96.0	100.0%	100.0%	100.0%
84.0	100.0%	100.0%	100.0%
72.0	98.5%	100.0%	100.0%
60.0	94.3%	97.6%	100.0%
48.0	75.4%	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).

COOK COUNTY, ILLINOIS  
GENERAL LIABILITY

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

Claim Period	Months of Development:																				
	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 1996/97				\$2,056	\$2,208	\$2,252	\$2,327	\$2,327	\$3,077	\$3,077	\$3,077	\$3,077	\$3,077	\$3,087	\$3,087	\$3,087	\$3,087	\$3,087	\$3,087	\$3,207	
1997/98	4	66	1,036	1,096	1,096	1,096	1,096	1,096	1,096	1,096	1,096	1,096	1,096	1,096	1,096	1,096	1,096	1,096	1,096	1,096	
1998/99	5	9	154	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	
1999/00	3	20	685	710	710	710	711	711	711	711	711	711	711	711	711	711	711	711	711	711	
2000/01	6	16	515	579	590	685	683	683	683	683	683	683	683	683	683	683	683	683	683	683	
2001/02	13	20	93	93	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	22	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
2004/05	10	24	61	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	
2005/06	4	41	164	164	164	164	170	170	170	170	170	170	170	170	170	170	170	170	170	170	
2006/07	21	118	389	389	389	389	402	402	402	402	402	402	402	402	402	402	402	402	402	402	
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	27	119	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	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	
2014/15	9	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	
2015/16	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	

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 1996/97																					
1997/98	16,013	13,889	11,359	10,74	10,74	10,200	10,33	1,000	1,322	1,000	1,000	1,000	1,000	1,003	1,000	1,000	1,000	1,000	1,039	1,039	
1998/99	1,835	1,285	1,357	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	
1999/00	5,689	1,398	24,971	1,668	1,000	1,000	1,000	1,000	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	1,037	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	
2001/02	1,557	4,709	1,000	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	
2002/03	8,386	2,019	1,199	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	
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	1,009	1,009	1,112	1,000	1,000	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	2,643	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	1,200	5,761	1,000	1,000	1,000	1,000	1,000	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	1,204	1,622	2,301	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	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	
2013/14	3,276	1,225	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	
2014/15	2,893	1,225	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	
2015/16	2,893	1,225	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	
Average All	3,951	4,265	3,922	2,538	1,159	1,013	1,003	1,000	1,029	1,000	1,000	1,000	1,186	1,001	1,000	1,000	1,000	1,039	1,039	1,039	
Wtd 3	1,351	1,081	1,546	1,115	1,218	1,062	1,000	1,000	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	2,402	1,283	3,064	1,185	1,176	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	
Last 5 x-Hi/Low	1,877	1,349	1,717	1,686	1,003	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	
Similar Previous	2,550	1,720	1,380	1,220	1,115	1,070	1,043	1,030	1,025	1,019	1,015	1,011	1,008	1,006	1,005	1,004	1,002	1,006	1,006	1,000	
Selected Cumulative Percent	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	
	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	
	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%	

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

Claim Period	Months of Development:				60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
	36	48	60	72																
to 1996/97					\$3,848	\$3,429	\$2,669	\$2,502	\$2,327	\$3,077	\$3,077	\$3,077	\$3,077	\$3,077	\$3,087	\$3,087	\$3,087	\$3,087	\$2,609	\$3,207
1997/98	240	824	1,142	1,131	1,131	1,131	1,106	1,096	1,096	1,096	1,096	1,096	1,096	1,096	1,096	1,096	1,096	1,096	1,096	1,096
1998/99	180	869	845	775	775	775	756	756	756	756	756	756	756	756	756	756	756	756	756	756
1999/00	564	1,506	1,830	2,261	2,261	2,261	2,211	2,211	2,211	2,211	2,211	2,211	2,211	2,211	2,211	2,211	2,211	2,211	2,211	2,211
2000/01	817	3,536	690	734	734	734	715	715	715	715	715	715	715	715	715	715	715	715	715	715
2001/02	320	2,700	1,108	1,613	1,613	1,613	1,593	1,593	1,593	1,593	1,593	1,593	1,593	1,593	1,593	1,593	1,593	1,593	1,593	1,593
2002/03	125	1,626	12,779	12,979	12,979	12,979	12,979	12,979	12,979	12,979	12,979	12,979	12,979	12,979	12,979	12,979	12,979	12,979	12,979	12,979
2003/04	641	327	337	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982
2004/05	488	751	411	267	267	267	267	267	267	267	267	267	267	267	267	267	267	267	267	267
2005/06	200	214	421	214	184	176	170	170	170	170	170	170	170	170	170	170	170	170	170	170
2006/07	412	421	317	133	133	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118
2007/08	197	638	530	453	453	512	447	447	447	447	447	447	447	447	447	447	447	447	447	447
2008/09	169	127	70	47	47	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152
2009/10	117	211	332	310	310	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
2011/12	205	253	396	395	395	395	395	395	395	395	395	395	395	395	395	395	395	395	395	395
2012/13	383	410	384	366	366	366	366	366	366	366	366	366	366	366	366	366	366	366	366	366
2013/14	135	223	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258
2014/15	84	411																		
2015/16	113																			

II. Limited Reported Incurred Loss Development

Claim Period	Months of Development:				60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult
	36-48	48-60	60-72	72-84																
to 1996/97					0.891	0.778	0.937	0.930	1.322	1.000	1.000	1.000	1.000	1.003	1.000	1.000	1.000	0.845	1.229	
1997/98	3.436	0.994	1.403	0.984	0.990	0.000	0.978	0.891	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1998/99	4.632	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	2.669	1.215	1.235	0.425	1.003	0.741	3.094	0.322	1.000	1.000	1.000	1.226	0.603	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2000/01	4.695	0.180	1.064	0.989	1.000	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	1.455	0.472	0.982	0.684	1.000	1.000	0.802	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	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2008/09	1.805	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	0.935	0.984	1.000	1.026	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
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																
2012/13	1.070	0.936	0.929																	
2013/14	1.658	1.156																		
2014/15	4.905																			
2015/16																				
Average All	2.950	1.491	1.145	0.887	0.894	0.924	1.321	0.937	0.991	0.941	1.234	1.028	0.943	1.001	1.000	1.000	1.000	0.923	1.229	
Wtd 3	1.737	1.172	1.061	0.727	1.013	0.853	1.000	1.000	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	2.544	1.220	1.424	0.805	1.069	0.958	1.000	1.000	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-Hi/low	2.038	1.220	0.954	0.985	1.009	0.969	1.000	1.000	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	1.210	1.110	1.057	1.039	1.023	1.018	1.015	1.012	1.009	1.007	1.005	1.004	1.003	1.002	1.001	1.001	1.004	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	1.857	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%

Amounts are limited (net of excess insurance).  
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 1996/07																						
1997/08	1.7%	8.0%	11.1%	90.2%	53.4%	64.4%	84.4%	83.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1998/09	2.7%	1.3%	11.7%	19.3%	96.0%	96.0%	96.0%	89.1%	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%	
1999/00	0.6%	1.3%	1.5%	30.3%	73.8%	73.8%	73.8%	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%	
2000/01	0.8%	0.4%	74.6%	78.9%	81.4%	98.9%	100.0%	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%	12.2%	54.8%	80.2%	80.2%	81.6%	40.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2002/03	1.0%	0.6%	0.2%	0.2%	97.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2003/04	0.8%	5.5%	6.4%	83.2%	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%	100.0%	100.0%	100.0%	100.0%	100.0%	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%	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%	
2007/08	18.9%	10.8%	15.2%	88.7%	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%	
2008/09	9.0%	31.3%	67.2%	100.0%	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%	
2009/10	16.1%	12.8%	35.9%	66.1%	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%	
2010/11	19.2%	9.1%	40.7%	100.0%	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%	
2011/12	9.8%	9.5%	9.9%	22.8%	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%	
2012/13	79.1%	76.7%	82.1%	100.0%	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%	
2013/14	18.1%	35.8%	38.0%																			
2014/15	11.0%																					
2015/16	10.3%																					
Average																						
All	11.1%	13.2%	27.4%	55.8%	76.7%	90.0%	97.2%	87.4%	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	13.1%	39.7%	45.3%	74.3%	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%	
Last 5	13.1%	18.2%	38.2%	88.7%	90.1%	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 11/30/16 (2)	Limited Paid Losses 11/30/16 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1996/97	240.0	\$3,206,840	100.0%	\$3,206,840
1997/98	228.0	1,096,413	100.0%	1,096,413
1998/99	216.0	256,471	100.0%	256,471
1999/00	204.0	1,636,116	100.0%	1,636,116
2000/01	192.0	692,872	100.0%	692,872
2001/02	180.0	242,675	100.0%	242,675
2002/03	168.0	428,613	100.0%	428,613
2003/04	156.0	35,161	100.0%	35,161
2004/05	144.0	222,376	100.0%	222,376
2005/06	132.0	170,347	100.0%	170,347
2006/07	120.0	117,830	100.0%	117,830
2007/08	108.0	446,995	100.0%	446,995
2008/09	96.0	152,107	100.0%	152,107
2009/10	84.0	312,995	100.0%	312,995
2010/11	72.0	138,548	98.5%	140,626
2011/12	60.0	140,020	94.3%	148,516
2012/13	48.0	356,365	75.4%	472,484
2013/14	36.0	97,933	49.5%	198,011
2014/15	24.0	26,623	20.6%	129,188
2015/16	12.0	11,570	5.4%	213,356
Total		\$9,788,869		\$10,319,992

(3) is from Exhibit GL-1.

(4) is from Exhibit GL-2.

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/16 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1996/97	240.0	\$3,206,840	100.0%	\$3,206,840
1997/98	228.0	1,096,413	100.0%	1,096,413
1998/99	216.0	256,471	100.0%	256,471
1999/00	204.0	1,636,116	100.0%	1,636,116
2000/01	192.0	692,872	100.0%	692,872
2001/02	180.0	242,675	100.0%	242,675
2002/03	168.0	428,613	100.0%	428,613
2003/04	156.0	35,161	100.0%	35,161
2004/05	144.0	222,376	100.0%	222,376
2005/06	132.0	170,347	100.0%	170,347
2006/07	120.0	117,830	100.0%	117,830
2007/08	108.0	446,995	100.0%	446,995
2008/09	96.0	152,107	100.0%	152,107
2009/10	84.0	312,995	100.0%	312,995
2010/11	72.0	138,548	100.0%	138,548
2011/12	60.0	170,020	97.6%	174,271
2012/13	48.0	356,365	92.9%	383,538
2013/14	36.0	257,933	84.5%	305,360
2014/15	24.0	411,323	60.3%	681,736
2015/16	12.0	112,570	32.2%	349,832
Total		\$10,464,569		\$11,051,095

(3) is from Exhibit GL-1.

(4) is from Exhibit GL-2.

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/16 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/16 (6)	Limited Case Reserves 11/30/16 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1996/97	240.0	100.0%	100.0%	100.0%	\$3,206,840	\$0	\$3,206,840
1997/98	228.0	100.0%	100.0%	100.0%	1,096,413	0	1,096,413
1998/99	216.0	100.0%	100.0%	100.0%	256,471	0	256,471
1999/00	204.0	100.0%	100.0%	100.0%	1,636,116	0	1,636,116
2000/01	192.0	100.0%	100.0%	100.0%	692,872	0	692,872
2001/02	180.0	100.0%	100.0%	100.0%	242,675	0	242,675
2002/03	168.0	100.0%	100.0%	100.0%	428,613	0	428,613
2003/04	156.0	100.0%	100.0%	100.0%	35,161	0	35,161
2004/05	144.0	100.0%	100.0%	100.0%	222,376	0	222,376
2005/06	132.0	100.0%	100.0%	100.0%	170,347	0	170,347
2006/07	120.0	100.0%	100.0%	100.0%	117,830	0	117,830
2007/08	108.0	100.0%	100.0%	100.0%	446,995	0	446,995
2008/09	96.0	100.0%	100.0%	100.0%	152,107	0	152,107
2009/10	84.0	100.0%	100.0%	100.0%	312,995	0	312,995
2010/11	72.0	98.5%	100.0%	100.0%	138,548	0	138,548
2011/12	60.0	94.3%	97.6%	57.4%	140,020	30,000	192,319
2012/13	48.0	75.4%	92.9%	71.2%	356,365	0	356,365
2013/14	36.0	49.5%	84.5%	69.3%	97,933	160,000	328,914
2014/15	24.0	20.6%	60.3%	50.0%	26,623	384,700	795,426
2015/16	12.0	5.4%	32.2%	28.3%	11,570	101,000	368,593
<b>Total</b>					<b>\$9,788,869</b>	<b>\$675,700</b>	<b>\$11,197,975</b>

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

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

Preliminary Projected Ultimate Limited Losses to 2015/16

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 1996/97	\$3,206,840	\$3,206,840	\$3,206,840	\$3,206,840
1997/98	1,096,413	1,096,413	1,096,413	1,096,413
1998/99	256,471	256,471	256,471	256,471
1999/00	1,636,116	1,636,116	1,636,116	1,636,116
2000/01	692,872	692,872	692,872	692,872
2001/02	242,675	242,675	242,675	242,675
2002/03	428,613	428,613	428,613	428,613
2003/04	35,161	35,161	35,161	35,161
2004/05	222,376	222,376	222,376	222,376
2005/06	170,347	170,347	170,347	170,347
2006/07	117,830	117,830	117,830	117,830
2007/08	446,995	446,995	446,995	446,995
2008/09	152,107	152,107	152,107	152,107
2009/10	312,995	312,995	312,995	312,995
2010/11	140,626	138,548	138,548	138,548
2011/12	148,516	174,271	192,319	185,099
2012/13	472,484	383,538	356,365	356,365
2013/14	198,011	305,360	328,914	293,312
2014/15	129,188	681,736	795,426	616,703
2015/16	213,356	349,832	368,593	330,041
<b>Total</b>	<b>\$10,319,992</b>	<b>\$11,051,095</b>	<b>\$11,197,975</b>	<b>\$10,937,878</b>

(2) is from Exhibit GL-3.

(3) is from Exhibit GL-4.

(4) is from Exhibit GL-5.

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

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Revenue (000) (3)	Limited Loss Rate per \$1,000 of Revenue (2)/(3) (4)	Loss Rate Trend (2016/17 = 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)
2006/07	\$117,830	\$1,243,144	\$0.09	1.480	\$0.14	\$0.18
2007/08	446,995	1,207,801	0.37	1.423	0.53	0.19
2008/09	152,107	1,303,812	0.12	1.369	0.16	0.20
2009/10	312,995	1,287,986	0.24	1.316	0.32	0.20
2010/11	138,548	1,293,078	0.11	1.265	0.14	0.21
2011/12	185,099	1,331,769	0.14	1.217	0.17	0.22
2012/13	356,365	1,285,791	0.28	1.170	0.32	0.23
2013/14	293,312	1,362,902	0.22	1.125	0.24	0.24
2014/15	616,703	1,509,150	0.41	1.082	0.44	0.25
2015/16	330,041	1,509,150	0.22	1.040	0.23	0.26
(7) Projected 2016/17 a-priori loss rate per \$1,000 of Revenue					\$0.27	

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/16 (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)
2011/12	\$140,020	94.3%	\$0.22	\$1,331,769	\$16,825	\$156,845
2012/13	356,365	75.4%	0.23	1,285,791	72,579	428,944
2013/14	97,933	49.5%	0.24	1,362,902	164,540	262,472
2014/15	26,623	20.6%	0.25	1,509,150	297,646	324,268
2015/16	11,570	5.4%	0.26	1,509,150	368,756	380,327

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (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)
2011/12	\$170,020	97.6%	\$0.22	\$1,331,769	\$7,174	\$177,194
2012/13	356,365	92.9%	0.23	1,285,791	20,923	377,288
2013/14	257,933	84.5%	0.24	1,362,902	50,563	308,496
2014/15	411,323	60.3%	0.25	1,509,150	148,708	560,030
2015/16	112,570	32.2%	0.26	1,509,150	264,437	377,007

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 11/30/16 (2)	Reported Claims 11/30/16 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Revenue (000) (6)	Frequency (per \$1M of Revenue) (5)/(6)X1,000 (7)
2006/07	120.0	49	100.0%	49	\$1,243,144	0.04
2007/08	108.0	212	100.0%	212	1,207,801	0.18
2008/09	96.0	142	100.0%	142	1,303,812	0.11
2009/10	84.0	68	100.0%	68	1,287,986	0.05
2010/11	72.0	48	100.0%	48	1,293,078	0.04
2011/12	60.0	52	100.0%	52	1,331,769	0.04
2012/13	48.0	68	100.0%	68	1,285,791	0.05
2013/14	36.0	222	100.0%	222	1,362,902	0.16
2014/15	24.0	41	100.0%	41	1,509,150	0.03
2015/16	12.0	30	98.0%	31	1,509,150	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 (2016/17 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2016/17 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2006/07	\$117,830	49	\$2,405	1.480	\$3,560	\$3,852	\$188,767
2007/08	446,995	212	2,108	1.423	3,001	4,006	849,376
2008/09	152,107	142	1,071	1.369	1,466	4,167	591,679
2009/10	312,995	68	4,603	1.316	6,057	4,333	294,673
2010/11	138,548	48	2,886	1.265	3,652	4,507	216,324
2011/12	185,099	52	3,560	1.217	4,331	4,687	243,726
2012/13	356,365	68	5,241	1.170	6,131	4,875	331,467
2013/14	293,312	222	1,321	1.125	1,486	5,069	1,125,427
2014/15	616,703	41	15,042	1.082	16,269	5,272	216,163
2015/16	330,041	31	10,646	1.040	11,072	5,483	169,978

(7) Projected 2016/17 average claim severity

\$5,702

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 2015/16

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 1996/97	\$3,206,840	\$3,206,840	\$3,206,840				\$3,206,840	\$3,206,840
1997/98	1,096,413	1,096,413	1,096,413				1,096,413	1,096,413
1998/99	256,471	256,471	256,471				256,471	256,471
1999/00	1,636,116	1,636,116	1,636,116				1,636,116	1,636,116
2000/01	692,872	692,872	692,872				692,872	692,872
2001/02	242,675	242,675	242,675				242,675	242,675
2002/03	428,613	428,613	428,613				428,613	428,613
2003/04	35,161	35,161	35,161				35,161	35,161
2004/05	222,376	222,376	222,376				222,376	222,376
2005/06	170,347	170,347	170,347				170,347	170,347
2006/07	117,830	117,830	117,830				117,830	117,830
2007/08	446,995	446,995	446,995				446,995	446,995
2008/09	152,107	152,107	152,107				152,107	152,107
2009/10	312,995	312,995	312,995				312,995	312,995
2010/11	140,626	138,548	138,548				138,548	138,548
2011/12	148,516	174,271	192,319	156,845	177,194	243,726	450,000	200,000
2012/13	472,484	383,538	356,365	428,944	377,288	331,467	600,000	500,000
2013/14	198,011	305,360	328,914	262,472	308,496	1,125,427	500,000	430,000
2014/15	129,188	681,736	795,426	324,268	560,030	216,163	400,000	600,000
2015/16	213,356	349,832	368,593	380,327	377,007	169,978	402,000	400,000
<b>Total</b>	<b>\$10,319,992</b>	<b>\$11,051,095</b>	<b>\$11,197,975</b>				<b>\$11,508,359</b>	<b>\$11,286,359</b>
2011/12 - 2015/16	1,161,555	1,894,736	2,041,617	1,552,856	1,800,015	2,086,761	2,352,000	2,130,000
to 2010/11	9,158,437	9,156,359	9,156,359				9,156,359	9,156,359
						<b>Change</b>		
						All years		-\$222,000
						2011/12 - 2015/16		-222,000
						to 2010/11		0

(2) is from Exhibit GL-3.

(3) is from Exhibit GL-4.

(4) is from Exhibit GL-5.

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

(7) is from Exhibit GL-8.

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

Projected Ultimate Limited Losses for 2016/17 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 (2016/17 = 1.000) (5)	Trended Limited Loss Rate per \$1,000 of Revenue (4)X(5) (6)	Present Value of Projected Limited Losses (8)X(11) (12)
2006/07	\$117,830	\$1,243,144	\$0.09	1.480	\$0.14	
2007/08	446,995	1,207,801	0.37	1.423	0.53	
2008/09	152,107	1,303,812	0.12	1.369	0.16	
2009/10	312,995	1,287,986	0.24	1.316	0.32	
2010/11	138,548	1,293,078	0.11	1.265	0.14	
2011/12	200,000	1,331,769	0.15	1.217	0.18	
2012/13	500,000	1,285,791	0.39	1.170	0.45	
2013/14	430,000	1,362,902	0.32	1.125	0.35	
2014/15	600,000	1,509,150	0.40	1.082	0.43	
2015/16	400,000	1,509,150	0.27	1.040	0.28	
<b>Total</b>	<b>\$3,298,474</b>	<b>\$13,334,583</b>	<b>\$0.25</b>		<b>\$0.30</b>	

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)
2016/17	\$0.30	\$1,509,150	\$450,000	0.96	\$0.29	\$430,000
2017/18	0.31	1,509,150	470,000	0.96	0.30	450,000
2018/19	0.32	1,509,150	490,000	0.96	0.31	470,000

(2) is from Exhibit GL-9.

(3) 2006/07, 2007/08, 2008/09, 2009/10, 2010/11, 2011/12, 2012/13, 2013/14 and 2014/15 were provided by the County. Other periods assume a 0% trend.

(5) is based on a 4% trend.

(7) 2016/17 is based on (6) and actuarial judgment.  
Other period(s) based on 2016/17 plus a 4% trend.

(8) is based on (3) for 2015/16 and a 0% trend.

(10) is based on a 1.31% interest rate and the payout pattern in Exhibit GL-2.





COOK COUNTY, ILLINOIS  
GENERAL LIABILITY

Exhibit GL-11

Estimated Outstanding Losses as of November 30, 2016

Claim Period (1)	Limited Paid Losses 11/30/16 (2)	Limited Case Reserves 11/30/16 (3)	Limited Reported Incurred Losses 11/30/16 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/16 (5)-(4) (6)	Estimated Outstanding Losses 11/30/16 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/16 (7)X(8) (9)
to 1996/97	\$3,206,840	\$0	\$3,206,840	\$3,206,840	\$0	\$0	1.00	\$0
1997/98	1,096,413	0	1,096,413	1,096,413	0	0	1.00	0
1998/99	256,471	0	256,471	256,471	0	0	1.00	0
1999/00	1,636,116	0	1,636,116	1,636,116	0	0	1.00	0
2000/01	692,872	0	692,872	692,872	0	0	1.00	0
2001/02	242,675	0	242,675	242,675	0	0	1.00	0
2002/03	428,613	0	428,613	428,613	0	0	1.00	0
2003/04	35,161	0	35,161	35,161	0	0	1.00	0
2004/05	222,376	0	222,376	222,376	0	0	1.00	0
2005/06	170,347	0	170,347	170,347	0	0	1.00	0
2006/07	117,830	0	117,830	117,830	0	0	1.00	0
2007/08	446,995	0	446,995	446,995	0	0	1.00	0
2008/09	152,107	0	152,107	152,107	0	0	1.00	0
2009/10	312,995	0	312,995	312,995	0	0	1.00	0
2010/11	138,548	0	138,548	138,548	0	0	0.99	0
2011/12	140,020	30,000	170,020	200,000	29,980	59,980	0.99	59,392
2012/13	356,365	0	356,365	500,000	143,635	143,635	0.99	142,164
2013/14	97,933	160,000	257,933	430,000	172,067	332,067	0.99	327,241
2014/15	26,623	384,700	411,323	600,000	188,677	573,377	0.98	562,069
2015/16	11,570	101,000	112,570	400,000	287,430	388,430	0.97	377,462
<b>Total</b>	<b>\$9,788,869</b>	<b>\$675,700</b>	<b>\$10,464,569</b>	<b>\$11,286,359</b>	<b>\$821,789</b>	<b>\$1,497,489</b>		<b>\$1,468,328</b>

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

(5) is from Exhibit GL-9.

(8) is based on a 1.31% interest rate and the payout pattern in Exhibit GL-2.

Projected Losses Paid December 1, 2016 to November 30, 2017

Claim Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Months of Development 11/30/17 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/16 to 11/30/17 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/16 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/17 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/17 (9)X(10) (11)
to 1996/97	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1997/98	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1998/99	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	84.0	100.0%	96.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	72.0	98.5%	84.0	100.0%	100.0%	0	0	0	1.00	0
2011/12	60.0	94.3%	72.0	98.5%	74.2%	59,980	44,485	15,495	0.99	15,394
2012/13	48.0	75.4%	60.0	94.3%	76.7%	143,635	110,202	33,433	0.99	33,105
2013/14	36.0	49.5%	48.0	75.4%	51.4%	332,067	170,597	161,470	0.99	159,817
2014/15	24.0	20.6%	36.0	49.5%	36.3%	573,377	208,361	365,016	0.99	359,711
2015/16	12.0	5.4%	24.0	20.6%	16.1%	388,430	62,363	326,067	0.98	319,636
2016/17	0.0	0.0%	12.0	5.4%	5.4%	450,000	24,404	425,596	0.97	413,578
Total						\$1,947,489	\$620,412	\$1,327,077		\$1,301,241

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

(7) to 2015/16 is from Exhibit GL-11. The amount for 2016/17 is from Exhibit GL-10.

(10) is based on a 1.31% 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 1996/97	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	15,495	15,495	0	1.00	0
2012/13	60.0	94.3%	72.0	98.5%	74.2%	33,433	24,796	8,637	0.99	8,581
2013/14	48.0	75.4%	60.0	94.3%	76.7%	161,470	123,886	37,584	0.99	37,215
2014/15	36.0	49.5%	48.0	75.4%	51.4%	365,016	187,524	177,492	0.99	175,675
2015/16	24.0	20.6%	36.0	49.5%	36.3%	326,067	118,490	207,577	0.99	204,560
2016/17	12.0	5.4%	24.0	20.6%	16.1%	425,596	68,330	357,266	0.98	350,220
2017/18	0.0	0.0%	12.0	5.4%	5.4%	470,000	25,488	444,512	0.97	431,960
<b>Total</b>						<b>\$1,797,077</b>	<b>\$564,009</b>	<b>\$1,233,068</b>		<b>\$1,208,211</b>

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

(7) to 2016/17 is from Exhibit GL-12, (9). The amount for 2017/18 is from Exhibit GL-10.

(10) is based on a 1.31% 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 1996/97	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	8,637	8,637	0	1.00	0
2013/14	60.0	94.3%	72.0	98.5%	74.2%	37,584	27,874	9,710	0.99	9,647
2014/15	48.0	75.4%	60.0	94.3%	76.7%	177,492	136,179	41,313	0.99	40,908
2015/16	36.0	49.5%	48.0	75.4%	51.4%	207,577	106,641	100,936	0.99	99,903
2016/17	24.0	20.6%	36.0	49.5%	36.3%	357,266	129,828	227,438	0.99	224,132
2017/18	12.0	5.4%	24.0	20.6%	16.1%	444,512	71,367	373,145	0.98	365,786
2018/19	0.0	0.0%	12.0	5.4%	5.4%	490,000	26,573	463,427	0.97	450,341
<b>Total</b>						<b>\$1,723,068</b>	<b>\$507,099</b>	<b>\$1,215,969</b>		<b>\$1,190,717</b>

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

(7) to 2017/18 is from Exhibit GL-13, (9). The amount for 2018/19 is from Exhibit GL-10.

(10) is based on a 1.31% interest rate and the payout pattern in Exhibit GL-2.

List of Large Claims  
Reported Incurred Losses Greater Than \$250,000

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/16 (5)	Unlimited Case Reserves 11/30/16 (6)	Unlimited Reported Incurred Losses 11/30/16 (7)
97003515	6/9/2000	1999/00	Unlimited	\$925,000	\$0	\$925,000

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.

Data Summary as of November 30, 2016  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Vehicles (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Limited Paid Losses 11/30/16 (8)	Limited Case Reserves 11/30/16 (9)	Limited Reported Incurred Losses 11/30/16 (10)
to 1996/97	See Note	None	240.0	Not Provided	80	0	\$3,936,786	\$0	\$3,936,786
1997/98	Unlimited	None	228.0	Not Provided	91	0	187,959	0	187,959
1998/99	Unlimited	None	216.0	Not Provided	104	0	479,494	0	479,494
1999/00	Unlimited	None	204.0	Not Provided	93	0	559,093	0	559,093
2000/01	9,500,000	40,000,000	192.0	Not Provided	93	0	9,770,712	0	9,770,712
2001/02	9,500,000	40,000,000	180.0	2,283	80	0	2,497,705	0	2,497,705
2002/03	9,500,000	45,000,000	168.0	2,283	58	0	213,389	0	213,389
2003/04	10,000,000	None	156.0	1,997	81	0	385,312	0	385,312
2004/05	10,000,000	25,000,000	144.0	1,997	72	0	2,832,890	0	2,832,890
2005/06	10,000,000	25,000,000	132.0	1,780	65	0	171,088	0	171,088
2006/07	10,000,000	None	120.0	Not Provided	72	0	634,042	0	634,042
2007/08	10,000,000	None	108.0	Not Provided	57	0	128,155	0	128,155
2008/09	10,000,000	None	96.0	Not Provided	44	0	175,055	0	175,055
2009/10	10,000,000	None	84.0	Not Provided	55	0	6,828,345	0	6,828,345
2010/11	10,000,000	None	72.0	2,071	61	0	808,599	0	808,599
2011/12	10,000,000	None	60.0	1,837	67	0	431,959	0	431,959
2012/13	15,000,000	None	48.0	1,892	49	0	281,949	0	281,949
2013/14	15,000,000	None	36.0	1,921	69	2	406,197	3,002,000	3,408,197
2014/15	15,000,000	None	24.0	2,022	51	5	72,013	170,000	242,013
2015/16	15,000,000	None	12.0	1,915	58	42	54,245	925,850	980,095
<b>Total</b>					<b>1,400</b>	<b>49</b>	<b>\$30,854,988</b>	<b>\$4,097,850</b>	<b>\$34,952,838</b>

\* 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, 2016  
Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Vehicles (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Unlimited Paid Losses 11/30/16 (8)	Unlimited Case Reserves 11/30/16 (9)	Unlimited Reported Incurred Losses 11/30/16 (10)
to 1996/97	Unlimited	None	240.0	Not Provided	80	0	\$3,936,786	\$0	\$3,936,786
1997/98	Unlimited	None	228.0	Not Provided	91	0	187,959	0	187,959
1998/99	Unlimited	None	216.0	Not Provided	104	0	479,494	0	479,494
1999/00	Unlimited	None	204.0	Not Provided	93	0	559,093	0	559,093
2000/01	Unlimited	40,000,000	192.0	Not Provided	93	0	9,770,712	0	9,770,712
2001/02	Unlimited	40,000,000	180.0	2,283	80	0	2,497,705	0	2,497,705
2002/03	Unlimited	45,000,000	168.0	2,283	58	0	213,389	0	213,389
2003/04	Unlimited	None	156.0	1,997	81	0	385,312	0	385,312
2004/05	Unlimited	25,000,000	144.0	1,997	72	0	2,832,890	0	2,832,890
2005/06	Unlimited	25,000,000	132.0	1,780	65	0	171,088	0	171,088
2006/07	Unlimited	None	120.0	Not Provided	72	0	634,042	0	634,042
2007/08	Unlimited	None	108.0	Not Provided	57	0	128,155	0	128,155
2008/09	Unlimited	None	96.0	Not Provided	44	0	175,055	0	175,055
2009/10	Unlimited	None	84.0	Not Provided	55	0	6,828,345	0	6,828,345
2010/11	Unlimited	None	72.0	2,071	61	0	808,599	0	808,599
2011/12	Unlimited	None	60.0	1,837	67	0	431,959	0	431,959
2012/13	Unlimited	None	48.0	1,892	49	0	281,949	0	281,949
2013/14	Unlimited	None	36.0	1,921	69	2	406,197	3,002,000	3,408,197
2014/15	Unlimited	None	24.0	2,022	51	5	72,013	170,000	242,013
2015/16	Unlimited	None	12.0	1,915	58	42	54,245	925,850	980,095
<b>Total</b>					<b>1,400</b>	<b>49</b>	<b>\$30,854,988</b>	<b>\$4,097,850</b>	<b>\$34,952,838</b>

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

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%
132.0	100.0%	100.0%	100.0%
120.0	100.0%	100.0%	100.0%
108.0	100.0%	100.0%	100.0%
96.0	100.0%	100.0%	100.0%
84.0	99.0%	100.0%	100.0%
72.0	97.1%	100.0%	100.0%
60.0	92.4%	99.0%	100.0%
48.0	86.0%	96.1%	100.0%
36.0	66.2%	85.4%	100.0%
24.0	40.1%	65.7%	100.0%
12.0	13.6%	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).





COOK COUNTY, ILLINOIS  
AUTOMOBILE 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 1996/97					\$3,825	\$4,224	\$3,932	\$3,934	\$4,735	\$3,935	\$3,935	\$3,935	\$3,935	\$3,938	\$3,937	\$3,937	\$3,937	\$3,937	\$3,937	\$3,937	\$3,937
1997/98	224	290	450	295	263	188	188	188	188	188	188	188	188	188	188	188	188	188	188	188	188
1998/99	250	631	701	634	558	479	479	479	479	479	479	479	479	479	479	479	479	479	479	479	479
1999/00	278	312	416	469	507	559	559	559	559	559	559	559	559	559	559	559	559	559	559	559	559
2000/01	2,168	2,406	2,873	3,025	9,780	26,021	26,021	14,021	9,771	9,771	9,771	9,771	9,771	9,771	9,771	9,771	9,771	9,771	9,771	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	238	213	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	984	634	634	634	634	634	634	634	634	634	634	634	634	634	634
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	184	184	173	173	173	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
2009/10	618	381	2,725	6,473	6,573	6,848	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828	6,828
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																
2012/13	213	334	272	282																	
2013/14	740	1,306	3,408																		
2014/15	137	242																			
2015/16	980																				

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 1996/97					1.104	0.931	1.001	1.204	0.831	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1997/98	1,291	1,554	0.634	0.886	0.743	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1998/99	1,113	1,113	0.904	0.861	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	0.897	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
2001/02	1,813	3,158	1.642	1.511	1.605	0.471	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	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	0,938	1.685	0.885	0.802	1.123	0.848	1.000	1.000	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	2,215	4,596	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2005/06	1,229	0,825	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
2006/07	1,645	2,402	1.319	1.000	1.000	1.180	0.644	1.000	1.000	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	1.000	1.000	1.000	1.000	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	0,987															
2010/11	1,659	1,353	1,574	1,000	1,000																
2011/12	2,187	2,098	0,606	0,935																	
2012/13	1,572	0,814	1,037																		
2013/14	1,764	2,610																			
2014/15	1,763																				
2015/16																					

Average All	1,628	1,986	1,153	1,174	1,113	0,977	0,925	0,985	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Wtd 3	1,726	2,217	1,061	1,061	0,984	0,997	0,728	1,000	1,000	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	1,700	1,841	1,072	1,004	0,994	1,002	0,881	1,000	1,000	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-Hi/Low	1,729	2,020	1,164	1,020	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
Similar	1,410	1,165	1,080	1,035	1,012	1,005	1,002	1,001	1,000	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001
Previous	1,725	1,300	1,125	1,030	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Selected	1,725	1,300	1,125	1,030	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Cumulative	2,624	1,521	1,170	1,040	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Percent	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%

Amounts are limited (net of excess insurance).  
Data was provided by the County.

COOK COUNTY, ILLINOIS  
AUTOMOBILE 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 1/9/96/97																						
1997/98	88	99	96	94	93	91	91	80	81	80	80	80	80	80	80	80	80	80	80	80	80	80
1998/99	119	110	106	104	105	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
1999/00	90	89	84	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
2000/01	112	94	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
2001/02	53	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
2002/03	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
2003/04	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
2004/05	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72
2005/06	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
2006/07	59	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72
2007/08	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57
2008/09	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
2009/10	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
2010/11	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
2011/12	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
2012/13	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
2013/14	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
2014/15	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
2015/16	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58

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 1/9/96/97																						
1997/98	1.125	0.970	0.979	0.989	0.976	1.000	1.000	1.013	0.988	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1998/99	0.824	0.962	0.963	1.010	0.990	1.000	1.000	1.000	1.000	1.000	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	0.989	1.056	0.989	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2000/01	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	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	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	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	1.094	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	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	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	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	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	1.220	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	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	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	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	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	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	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	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	1.000
2014/15	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2015/16	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Average All	1.011	1.000	0.995	1.000	0.998	1.000	1.000	1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Wtd 3	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Last 3	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	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-Hilow	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	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	1.077	1.009	1.004	1.002	1.002	1.002	1.002	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
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	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	1.000
Cumulative	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	1.000
Percent	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%

Data was provided by the County.



Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/16 (2)	Limited Paid Losses 11/30/16 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1996/97	240.0	\$3,936,786	100.0%	\$3,936,786
1997/98	228.0	187,959	100.0%	187,959
1998/99	216.0	479,494	100.0%	479,494
1999/00	204.0	559,093	100.0%	559,093
2000/01	192.0	9,770,712	100.0%	9,770,712
2001/02	180.0	2,497,705	100.0%	2,497,705
2002/03	168.0	213,389	100.0%	213,389
2003/04	156.0	385,312	100.0%	385,312
2004/05	144.0	2,832,890	100.0%	2,832,890
2005/06	132.0	171,088	100.0%	171,088
2006/07	120.0	634,042	100.0%	634,042
2007/08	108.0	128,155	100.0%	128,155
2008/09	96.0	175,055	100.0%	175,055
2009/10	84.0	6,828,345	99.0%	6,896,628
2010/11	72.0	808,599	97.1%	833,019
2011/12	60.0	431,959	92.4%	467,255
2012/13	48.0	281,949	86.0%	327,861
2013/14	36.0	406,197	66.2%	614,044
2014/15	24.0	72,013	40.1%	179,622
2015/16	12.0	54,245	13.6%	399,145
Total		\$30,854,988		\$31,689,253

(3) is from Exhibit AL-1.

(4) is from Exhibit AL-2.

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/16 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1996/97	240.0	\$3,936,786	100.0%	\$3,936,786
1997/98	228.0	187,959	100.0%	187,959
1998/99	216.0	479,494	100.0%	479,494
1999/00	204.0	559,093	100.0%	559,093
2000/01	192.0	9,770,712	100.0%	9,770,712
2001/02	180.0	2,497,705	100.0%	2,497,705
2002/03	168.0	213,389	100.0%	213,389
2003/04	156.0	385,312	100.0%	385,312
2004/05	144.0	2,832,890	100.0%	2,832,890
2005/06	132.0	171,088	100.0%	171,088
2006/07	120.0	634,042	100.0%	634,042
2007/08	108.0	128,155	100.0%	128,155
2008/09	96.0	175,055	100.0%	175,055
2009/10	84.0	6,828,345	100.0%	6,828,345
2010/11	72.0	808,599	100.0%	808,599
2011/12	60.0	431,959	99.0%	436,279
2012/13	48.0	281,949	96.1%	293,312
2013/14	36.0	3,408,197	85.4%	3,988,741
2014/15	24.0	242,013	65.7%	368,208
2015/16	12.0	980,095	38.1%	2,572,242
Total		\$34,952,838		\$37,267,406

(3) is from Exhibit AL-1.

(4) is from Exhibit AL-2.

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/16 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/16 (6)	Limited Case Reserves 11/30/16 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1996/97	240.0	100.0%	100.0%	100.0%	\$3,936,786	\$0	\$3,936,786
1997/98	228.0	100.0%	100.0%	100.0%	187,959	0	187,959
1998/99	216.0	100.0%	100.0%	100.0%	479,494	0	479,494
1999/00	204.0	100.0%	100.0%	100.0%	559,093	0	559,093
2000/01	192.0	100.0%	100.0%	100.0%	9,770,712	0	9,770,712
2001/02	180.0	100.0%	100.0%	100.0%	2,497,705	0	2,497,705
2002/03	168.0	100.0%	100.0%	100.0%	213,389	0	213,389
2003/04	156.0	100.0%	100.0%	100.0%	385,312	0	385,312
2004/05	144.0	100.0%	100.0%	100.0%	2,832,890	0	2,832,890
2005/06	132.0	100.0%	100.0%	100.0%	171,088	0	171,088
2006/07	120.0	100.0%	100.0%	100.0%	634,042	0	634,042
2007/08	108.0	100.0%	100.0%	100.0%	128,155	0	128,155
2008/09	96.0	100.0%	100.0%	100.0%	175,055	0	175,055
2009/10	84.0	99.0%	100.0%	100.0%	6,828,345	0	6,828,345
2010/11	72.0	97.1%	100.0%	100.0%	808,599	0	808,599
2011/12	60.0	92.4%	99.0%	86.9%	431,959	0	431,959
2012/13	48.0	86.0%	96.1%	72.3%	281,949	0	281,949
2013/14	36.0	66.2%	85.4%	57.0%	406,197	3,002,000	5,672,742
2014/15	24.0	40.1%	65.7%	42.8%	72,013	170,000	469,289
2015/16	12.0	13.6%	38.1%	28.4%	54,245	925,850	3,317,997
<b>Total</b>					<b>\$30,854,988</b>	<b>\$4,097,850</b>	<b>\$39,782,560</b>

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

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

Preliminary Projected Ultimate Limited Losses to 2015/16

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 1996/97	\$3,936,786	\$3,936,786	\$3,936,786	\$3,936,786
1997/98	187,959	187,959	187,959	187,959
1998/99	479,494	479,494	479,494	479,494
1999/00	559,093	559,093	559,093	559,093
2000/01	9,770,712	9,770,712	9,770,712	9,770,712
2001/02	2,497,705	2,497,705	2,497,705	2,497,705
2002/03	213,389	213,389	213,389	213,389
2003/04	385,312	385,312	385,312	385,312
2004/05	2,832,890	2,832,890	2,832,890	2,832,890
2005/06	171,088	171,088	171,088	171,088
2006/07	634,042	634,042	634,042	634,042
2007/08	128,155	128,155	128,155	128,155
2008/09	175,055	175,055	175,055	175,055
2009/10	6,896,628	6,828,345	6,828,345	6,828,345
2010/11	833,019	808,599	808,599	808,599
2011/12	467,255	436,279	431,959	431,959
2012/13	327,861	293,312	281,949	281,949
2013/14	614,044	3,988,741	5,672,742	3,987,402
2014/15	179,622	368,208	469,289	370,923
2015/16	399,145	2,572,242	3,317,997	2,435,925
<b>Total</b>	<b>\$31,689,253</b>	<b>\$37,267,406</b>	<b>\$39,782,560</b>	<b>\$37,116,782</b>

(2) is from Exhibit AL-3.

(3) is from Exhibit AL-4.

(4) is from Exhibit AL-5.

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



Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Vehicles (3)	Limited Loss Rate per Vehicle (2)/(3) (4)	Loss Rate Trend (2016/17 = 1.000) (5)	Trended Limited Loss Rate per Vehicle (4)X(5) (6)	Projected A-priori Loss Rate per Vehicle (7)/(5) (8)
2006/07	\$634,042	1,926	\$329.29	1.411	\$464.49	\$704.06
2007/08	128,155	1,926	66.56	1.363	90.71	728.70
2008/09	175,055	1,926	90.91	1.317	119.72	754.20
2009/10	6,828,345	1,926	3,546.27	1.272	4,511.85	780.60
2010/11	808,599	2,071	390.44	1.229	479.95	807.92
2011/12	431,959	1,837	235.14	1.188	279.28	836.20
2012/13	281,949	1,892	149.02	1.148	171.01	865.46
2013/14	3,987,402	1,921	2,075.69	1.109	2,301.36	895.76
2014/15	370,923	2,022	183.44	1.071	196.51	927.11
2015/16	2,435,925	1,915	1,272.02	1.035	1,316.54	959.56

(7) Projected 2016/17 a-priori loss rate per Vehicle \$993.14

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/16 (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)
2011/12	\$431,959	92.4%	\$836.20	1,837	\$116,033	\$547,993
2012/13	281,949	86.0%	865.46	1,892	229,302	511,251
2013/14	406,197	66.2%	895.76	1,921	582,453	988,650
2014/15	72,013	40.1%	927.11	2,022	1,123,050	1,195,063
2015/16	54,245	13.6%	959.56	1,915	1,587,820	1,642,065

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (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)
2011/12	\$431,959	99.0%	\$836.20	1,837	\$15,209	\$447,168
2012/13	281,949	96.1%	865.46	1,892	63,433	345,382
2013/14	3,408,197	85.4%	895.76	1,921	250,447	3,658,644
2014/15	242,013	65.7%	927.11	2,022	642,481	884,494
2015/16	980,095	38.1%	959.56	1,915	1,137,393	2,117,488

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 11/30/16 (2)	Reported Claims 11/30/16 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Vehicles (6)	Frequency (per Vehicle) (5)/(6) (7)
2006/07	120.0	72	100.0%	72	1,926	0.04
2007/08	108.0	57	100.0%	57	1,926	0.03
2008/09	96.0	44	100.0%	44	1,926	0.02
2009/10	84.0	55	100.0%	55	1,926	0.03
2010/11	72.0	61	100.0%	61	2,071	0.03
2011/12	60.0	67	100.0%	67	1,837	0.04
2012/13	48.0	49	100.0%	49	1,892	0.03
2013/14	36.0	69	100.0%	69	1,921	0.04
2014/15	24.0	51	100.0%	51	2,022	0.03
2015/16	12.0	58	98.0%	59	1,915	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 (2016/17 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2016/17 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2006/07	\$634,042	72	\$8,806	1.411	\$12,422	\$22,957	\$1,652,896
2007/08	128,155	57	2,248	1.363	3,064	23,760	1,354,342
2008/09	175,055	44	3,979	1.317	5,239	24,592	1,082,048
2009/10	6,828,345	55	124,152	1.272	157,956	25,453	1,399,899
2010/11	808,599	61	13,256	1.229	16,295	26,344	1,606,957
2011/12	431,959	67	6,447	1.188	7,657	27,266	1,826,794
2012/13	281,949	49	5,754	1.148	6,603	28,220	1,382,774
2013/14	3,987,402	69	57,788	1.109	64,071	29,208	2,015,322
2014/15	370,923	51	7,273	1.071	7,791	30,230	1,541,722
2015/16	2,435,925	59	41,287	1.035	42,732	31,288	1,845,985

(7) Projected 2016/17 average claim severity

\$32,383

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 2015/16

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 1996/97	\$3,936,786	\$3,936,786	\$3,936,786				\$3,936,786	\$3,936,786
1997/98	187,959	187,959	187,959				187,959	187,959
1998/99	479,494	479,494	479,494				479,494	479,494
1999/00	559,093	559,093	559,093				559,093	559,093
2000/01	9,770,712	9,770,712	9,770,712				9,770,712	9,770,712
2001/02	2,497,705	2,497,705	2,497,705				2,497,705	2,497,705
2002/03	213,389	213,389	213,389				213,389	213,389
2003/04	385,312	385,312	385,312				385,312	385,312
2004/05	2,832,890	2,832,890	2,832,890				2,832,890	2,832,890
2005/06	171,088	171,088	171,088				171,088	171,088
2006/07	634,042	634,042	634,042				634,042	634,042
2007/08	128,155	128,155	128,155				128,155	128,155
2008/09	175,055	175,055	175,055				175,055	175,055
2009/10	6,896,628	6,828,345	6,828,345				7,000,000	6,828,345
2010/11	833,019	808,599	808,599				808,599	808,599
2011/12	467,255	436,279	431,959	547,993	447,168	1,826,794	700,000	431,959
2012/13	327,861	293,312	281,949	511,251	345,382	1,382,774	800,000	281,949
2013/14	614,044	3,988,741	5,672,742	988,650	3,658,644	2,015,322	1,650,000	3,750,000
2014/15	179,622	368,208	469,289	1,195,063	884,494	1,541,722	1,200,000	900,000
2015/16	399,145	2,572,242	3,317,997	1,642,065	2,117,488	1,845,985	1,563,000	2,000,000
<b>Total</b>	<b>\$31,689,253</b>	<b>\$37,267,406</b>	<b>\$39,782,560</b>				<b>\$35,693,279</b>	<b>\$36,972,532</b>
2011/12 - 2015/16	1,987,927	7,658,782	10,173,937	4,885,022	7,453,177	8,612,597	5,913,000	7,363,909
to 2010/11	29,701,327	29,608,623	29,608,623				29,780,279	29,608,623
						<b>Change</b>		
						All years		\$1,279,253
						2011/12 - 2015/16		1,450,909
						to 2010/11		-171,655

(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 2016/17 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Vehicles (3)	Limited Loss Rate per Vehicle (2)/(3) (4)	Loss Rate Trend (2016/17 = 1.000) (5)	Trended Limited Loss Rate per Vehicle (4)X(5) (6)
2006/07	\$634,042	1,926	\$329.29	1.411	\$464.49
2007/08	128,155	1,926	66.56	1.363	90.71
2008/09	175,055	1,926	90.91	1.317	119.72
2009/10	6,828,345	1,926	3,546.27	1.272	4,511.85
2010/11	808,599	2,071	390.44	1.229	479.95
2011/12	431,959	1,837	235.14	1.188	279.28
2012/13	281,949	1,892	149.02	1.148	171.01
2013/14	3,750,000	1,921	1,952.11	1.109	2,164.34
2014/15	900,000	2,022	445.10	1.071	476.81
2015/16	2,000,000	1,915	1,044.39	1.035	1,080.94
<b>Total</b>	<b>\$15,938,104</b>	<b>19,360</b>	<b>\$823.25</b>		<b>\$983.91</b>

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)
2016/17	\$983.91	1,773	\$1,740,000	0.97	\$951.89	\$1,690,000
2017/18	1,018.34	1,773	1,810,000	0.97	985.21	1,750,000
2018/19	1,053.99	1,773	1,870,000	0.97	1,019.69	1,810,000

(2) is from Exhibit AL-9.

(3) 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 3.5% trend.

(7) 2016/17 is based on (6) and actuarial judgment.  
Other period(s) based on 2016/17 plus a 3% trend.

(8) to 2016/17 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.31% 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, 2016

Claim Period (1)	Limited Paid Losses 11/30/16 (2)	Limited Case Reserves 11/30/16 (3)	Limited Reported Incurred Losses 11/30/16 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/16 (5)-(4) (6)	Estimated Outstanding Losses 11/30/16 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/16 (7)X(8) (9)
to 1996/97	\$3,936,786	\$0	\$3,936,786	\$3,936,786	\$0	\$0	1.00	\$0
1997/98	187,959	0	187,959	187,959	0	0	1.00	0
1998/99	479,494	0	479,494	479,494	0	0	1.00	0
1999/00	559,093	0	559,093	559,093	0	0	1.00	0
2000/01	9,770,712	0	9,770,712	9,770,712	0	0	1.00	0
2001/02	2,497,705	0	2,497,705	2,497,705	0	0	1.00	0
2002/03	213,389	0	213,389	213,389	0	0	1.00	0
2003/04	385,312	0	385,312	385,312	0	0	1.00	0
2004/05	2,832,890	0	2,832,890	2,832,890	0	0	1.00	0
2005/06	171,088	0	171,088	171,088	0	0	1.00	0
2006/07	634,042	0	634,042	634,042	0	0	1.00	0
2007/08	128,155	0	128,155	128,155	0	0	1.00	0
2008/09	175,055	0	175,055	175,055	0	0	1.00	0
2009/10	6,828,345	0	6,828,345	6,828,345	0	0	0.99	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	0.99	0
2012/13	281,949	0	281,949	281,949	0	0	0.98	0
2013/14	406,197	3,002,000	3,408,197	3,750,000	341,803	3,343,803	0.98	3,290,047
2014/15	72,013	170,000	242,013	900,000	657,987	827,987	0.98	812,178
2015/16	54,245	925,850	980,095	2,000,000	1,019,905	1,945,755	0.98	1,899,017
<b>Total</b>	<b>\$30,854,988</b>	<b>\$4,097,850</b>	<b>\$34,952,838</b>	<b>\$36,972,532</b>	<b>\$2,019,695</b>	<b>\$6,117,545</b>		<b>\$6,001,242</b>

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

(5) is from Exhibit AL-9.

(8) is based on a 1.31% interest rate and the payout pattern in Exhibit AL-2.

Projected Losses Paid December 1, 2016 to November 30, 2017

Claim Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Months of Development 11/30/17 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/16 to 11/30/17 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/16 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/17 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/17 (9)X(10) (11)
to 1996/97	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1997/98	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1998/99	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	84.0	99.0%	96.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	72.0	97.1%	84.0	99.0%	66.2%	0	0	0	0.99	0
2011/12	60.0	92.4%	72.0	97.1%	61.2%	0	0	0	0.99	0
2012/13	48.0	86.0%	60.0	92.4%	46.1%	0	0	0	0.99	0
2013/14	36.0	66.2%	48.0	86.0%	58.6%	3,343,803	1,960,448	1,383,355	0.98	1,359,899
2014/15	24.0	40.1%	36.0	66.2%	43.5%	827,987	360,166	467,821	0.98	460,300
2015/16	12.0	13.6%	24.0	40.1%	30.7%	1,945,755	596,749	1,349,006	0.98	1,323,249
2016/17	0.0	0.0%	12.0	13.6%	13.6%	1,740,000	236,472	1,503,528	0.98	1,467,412
<b>Total</b>						<b>\$7,857,545</b>	<b>\$3,153,835</b>	<b>\$4,703,710</b>		<b>\$4,610,860</b>

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

(7) to 2015/16 is from Exhibit AL-11. The amount for 2016/17 is from Exhibit AL-10.

(10) is based on a 1.31% 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 1996/97	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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	0.99	0
2013/14	48.0	86.0%	60.0	92.4%	46.1%	1,383,355	637,145	746,210	0.99	736,409
2014/15	36.0	66.2%	48.0	86.0%	58.6%	467,821	274,280	193,541	0.98	190,259
2015/16	24.0	40.1%	36.0	66.2%	43.5%	1,349,006	586,804	762,202	0.98	749,949
2016/17	12.0	13.6%	24.0	40.1%	30.7%	1,503,528	461,122	1,042,406	0.98	1,022,503
2017/18	0.0	0.0%	12.0	13.6%	13.6%	1,810,000	245,986	1,564,014	0.98	1,526,446
<b>Total</b>						<b>\$6,513,710</b>	<b>\$2,205,337</b>	<b>\$4,308,373</b>		<b>\$4,225,566</b>

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

(7) to 2016/17 is from Exhibit AL-12, (9). The amount for 2017/18 is from Exhibit AL-10.

(10) is based on a 1.31% 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 1996/97	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	746,210	456,621	289,589	0.99	286,454
2014/15	48.0	86.0%	60.0	92.4%	46.1%	193,541	89,141	104,400	0.99	103,029
2015/16	36.0	66.2%	48.0	86.0%	58.6%	762,202	446,874	315,328	0.98	309,981
2016/17	24.0	40.1%	36.0	66.2%	43.5%	1,042,406	453,436	588,970	0.98	579,502
2017/18	12.0	13.6%	24.0	40.1%	30.7%	1,564,014	479,672	1,084,342	0.98	1,063,638
2018/19	0.0	0.0%	12.0	13.6%	13.6%	1,870,000	254,140	1,615,860	0.98	1,577,046
<b>Total</b>						<b>\$6,178,373</b>	<b>\$2,179,884</b>	<b>\$3,998,489</b>		<b>\$3,919,650</b>

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

(7) to 2017/18 is from Exhibit AL-13, (9). The amount for 2018/19 is from Exhibit AL-10.

(10) is based on a 1.31% 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 11/30/16 (5)	Unlimited Case Reserves 11/30/16 (6)	Unlimited Reported Incurred Losses 11/30/16 (7)
97003499	5/28/2001	2000/01	\$9,500,000	\$3,750,000	\$0	\$3,750,000
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	0	3,000,000	3,000,000
201600427	6/10/2016	2015/16	15,000,000	0	750,000	750,000

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.

Data Summary as of November 30, 2016  
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Revenue (000) (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Limited Paid Losses 11/30/16 (8)	Limited Case Reserves 11/30/16 (9)	Limited Reported Incurred Losses 11/30/16 (10)
to 1996/97	See Note	None	240.0	Not Provided	N/A	0	\$41,495,223	\$0	\$41,495,223
1997/98	Unlimited	None	228.0	953,497	61	0	2,765,368	0	2,765,368
1998/99	Unlimited	None	216.0	958,768	68	0	4,751,725	0	4,751,725
1999/00	Unlimited	None	204.0	1,018,542	66	0	2,713,278	0	2,713,278
2000/01	9,500,000	40,000,000	192.0	1,068,809	97	1	7,263,079	100,000	7,363,079
2001/02	9,500,000	40,000,000	180.0	1,057,079	100	1	12,615,943	10,000	12,625,943
2002/03	9,500,000	45,000,000	168.0	1,086,728	112	0	6,184,351	0	6,184,351
2003/04	10,000,000	None	156.0	1,199,434	77	1	65,613,349	5,000	65,618,349
2004/05	10,000,000	25,000,000	144.0	1,189,789	57	3	4,683,438	11,050,000	15,733,438
2005/06	10,000,000	25,000,000	132.0	1,357,723	79	2	5,797,510	540,000	6,337,510
2006/07	10,000,000	None	120.0	1,243,144	133	5	9,272,122	175,000	9,447,122
2007/08	10,000,000	None	108.0	1,207,801	95	3	7,939,513	5,055,000	12,994,513
2008/09	10,000,000	None	96.0	1,303,812	121	5	5,645,542	360,000	6,005,542
2009/10	10,000,000	None	84.0	1,287,986	113	10	6,958,333	630,200	7,588,533
2010/11	10,000,000	None	72.0	1,293,078	66	18	2,929,447	11,355,900	14,285,347
2011/12	10,000,000	None	60.0	1,331,769	155	45	3,605,167	3,141,700	6,746,867
2012/13	15,000,000	None	48.0	1,285,791	222	101	2,488,040	9,422,100	11,910,140
2013/14	15,000,000	None	36.0	1,362,902	324	205	1,705,130	11,621,250	13,326,380
2014/15	15,000,000	None	24.0	1,509,150	202	202	516,290	3,118,600	3,634,890
2015/16	15,000,000	None	12.0	Not Provided	95	91	204,128	944,100	1,148,228
<b>Total</b>					<b>2,243</b>	<b>693</b>	<b>\$195,146,976</b>	<b>\$57,528,850</b>	<b>\$252,675,826</b>

\* 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, 2016  
Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/16 (4)	Revenue (000) (5)	Reported Claims 11/30/16 (6)	Open Claims 11/30/16 (7)	Unlimited Paid Losses 11/30/16 (8)	Unlimited Case Reserves 11/30/16 (9)	Unlimited Reported Incurred Losses 11/30/16 (10)
to 1996/97	Unlimited	None	240.0	Not Provided	N/A	0	\$41,495,223	\$0	\$41,495,223
1997/98	Unlimited	None	228.0	953,497	61	0	2,765,368	0	2,765,368
1998/99	Unlimited	None	216.0	958,768	68	0	4,751,725	0	4,751,725
1999/00	Unlimited	None	204.0	1,018,542	66	0	2,713,278	0	2,713,278
2000/01	Unlimited	40,000,000	192.0	1,068,809	97	1	7,263,079	100,000	7,363,079
2001/02	Unlimited	40,000,000	180.0	1,057,079	100	1	12,615,943	10,000	12,625,943
2002/03	Unlimited	45,000,000	168.0	1,086,728	112	0	6,184,351	0	6,184,351
2003/04	Unlimited	None	156.0	1,199,434	77	1	65,613,349	5,000	65,618,349
2004/05	Unlimited	25,000,000	144.0	1,189,789	57	3	4,683,438	11,050,000	15,733,438
2005/06	Unlimited	25,000,000	132.0	1,357,723	79	2	5,797,510	540,000	6,337,510
2006/07	Unlimited	None	120.0	1,243,144	133	5	9,272,122	175,000	9,447,122
2007/08	Unlimited	None	108.0	1,207,801	95	3	7,939,513	5,055,000	12,994,513
2008/09	Unlimited	None	96.0	1,303,812	121	5	5,645,542	360,000	6,005,542
2009/10	Unlimited	None	84.0	1,287,986	113	10	6,958,333	630,200	7,588,533
2010/11	Unlimited	None	72.0	1,293,078	66	18	2,929,447	11,355,900	14,285,347
2011/12	Unlimited	None	60.0	1,331,769	155	45	3,605,167	3,141,700	6,746,867
2012/13	Unlimited	None	48.0	1,285,791	222	101	2,488,040	9,422,100	11,910,140
2013/14	Unlimited	None	36.0	1,362,902	324	205	1,705,130	11,621,250	13,326,380
2014/15	Unlimited	None	24.0	1,509,150	202	202	516,290	3,118,600	3,634,890
2015/16	Unlimited	None	12.0	Not Provided	95	91	204,128	944,100	1,148,228
<b>Total</b>					<b>2,243</b>	<b>693</b>	<b>\$195,146,976</b>	<b>\$57,528,850</b>	<b>\$252,675,826</b>

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

Data was provided by the County.

Summary of Percent Losses Paid, Losses Reported and Claims Reported

Months of Development (1)	Percent Losses Paid (2)	Percent Losses Reported (3)	Percent Claims Reported (4)
360.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%
168.0	99.5%	100.0%	100.0%
156.0	99.0%	100.0%	100.0%
144.0	98.5%	99.5%	100.0%
132.0	97.5%	99.0%	100.0%
120.0	96.1%	98.5%	100.0%
108.0	92.8%	97.5%	100.0%
96.0	86.8%	94.7%	100.0%
84.0	80.3%	91.5%	100.0%
72.0	65.9%	88.4%	100.0%
60.0	51.7%	82.6%	100.0%
48.0	31.5%	70.9%	100.0%
36.0	14.3%	59.6%	100.0%
24.0	2.7%	31.4%	98.5%
12.0	0.2%	13.1%	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).

COOK COUNTY, ILLINOIS  
OTHER LIABILITY

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

Claim Period	Months of Development:										240-Ult										
	12	24	36	48	60	72	84	96	108	120		132	144	156	168	180	192	204	216	228	240
to 1/996/97																					\$41,495
1997/98	1	67	1,339	1,613	1,642	2,234	2,732	2,760	2,760	2,760	2,760	2,760	2,760	2,765	2,765	2,765	2,765	2,765	2,765	2,765	
1998/99	10	278	773	1,917	2,171	2,616	3,306	3,316	3,786	4,306	4,306	4,606	4,606	4,606	4,606	4,606	4,606	4,606	4,606	4,606	
1999/00	127	287	782	919	1,175	1,606	1,610	2,135	2,163	2,413	2,413	2,713	2,713	2,713	2,713	2,713	2,713	2,713	2,713	2,713	
2000/01	0	33	4,341	5,141	5,204	5,525	6,038	6,238	6,253	6,260	6,260	6,263	6,263	6,263	6,263	6,263	6,263	6,263	6,263	6,263	
2001/02	0	45	591	1,625	3,312	6,371	8,999	8,999	9,004	11,759	12,391	12,391	12,391	12,616	12,616	12,616	12,616	12,616	12,616	12,616	
2002/03	11	79	182	489	795	6,020	6,039	5,734	5,869	5,974	6,079	6,184	6,184	6,184	6,184	6,184	6,184	6,184	6,184	6,184	
2003/04	22	69	389	1,694	8,745	9,335	16,123	6,100	4,683	4,683	4,683	4,683	4,683	4,683	4,683	4,683	4,683	4,683	4,683	4,683	
2004/05	0	86	500	1,742	1,811	2,807	2,807	3,193	3,193	3,193	3,193	3,193	3,193	3,193	3,193	3,193	3,193	3,193	3,193	3,193	
2005/06	14	168	1,304	2,627	2,692	2,733	3,193	3,193	3,193	3,193	3,193	3,193	3,193	3,193	3,193	3,193	3,193	3,193	3,193	3,193	
2006/07	41	426	1,541	3,739	3,861	4,039	7,459	9,059	9,182	9,272	9,272	9,272	9,272	9,272	9,272	9,272	9,272	9,272	9,272	9,272	
2007/08	17	192	637	976	5,549	5,664	6,099	6,099	6,791	7,940	7,940	7,940	7,940	7,940	7,940	7,940	7,940	7,940	7,940	7,940	
2008/09	76	230	1,012	1,382	2,826	3,689	5,144	5,646	5,646	5,646	5,646	5,646	5,646	5,646	5,646	5,646	5,646	5,646	5,646	5,646	
2009/10	4	237	991	1,904	2,818	3,438	3,438	3,438	3,438	3,438	3,438	3,438	3,438	3,438	3,438	3,438	3,438	3,438	3,438	3,438	
2010/11	53	250	1,333	1,712	2,818	2,818	2,818	2,818	2,818	2,818	2,818	2,818	2,818	2,818	2,818	2,818	2,818	2,818	2,818	2,818	
2011/12	100	1,229	1,990	2,596	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	
2012/13	31	246	1,161	2,488	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	
2013/14	22	241	1,705																		
2014/15	165																				
2015/16	204																				

II. Limited Paid Loss 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	240-Ult	
to 1/996/97																						
1997/98	116,399	20,035	1,205	1,018	1,360	1,223	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		
1998/99	28,111	2,779	2,460	1,132	1,297	1,174	1,003	1,142	1,137	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
1999/00	2,097	1,057	3,257	1,278	1,368	1,002	1,326	1,013	1,116	1,000	1,000	1,124	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
2000/01	130,360	1,184	1,184	1,012	1,062	1,093	1,033	1,033	1,001	1,000	1,000	1,160	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
2001/02	17,990	13,154	2,748	2,038	1,923	1,412	1,003	1,000	1,001	1,306	1,054	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
2002/03	7,223	2,295	2,735	1,596	7,568	1,003	9,950	1,024	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,018		
2003/04	3,094	5,617	4,351	5,164	1,067	1,727	3,787	1,074	1,000	1,000	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
2004/05	5,823	3,485	3,485	1,039	1,550	1,525	1,094	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
2005/06	11,769	7,750	2,014	1,025	1,015	1,168	1,000	1,000	1,000	1,029	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010		
2006/07	10,334	3,614	2,427	1,033	1,046	1,846	1,215	1,014	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010		
2007/08	11,576	3,323	1,533	5,684	1,021	1,077	1,113	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169	1,169		
2008/09	3,035	4,397	1,365	2,045	1,305	1,395	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097		
2009/10	67,791	4,175	1,922	1,480	1,220	2,024	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097		
2010/11	4,730	5,324	1,285	1,389	1,232																	
2011/12	12,286	1,620	1,304	1,389																		
2012/13	8,075	4,712	2,144																			
2013/14	10,827	7,068																				
2014/15	3,132																					
2015/16																						
Average																						
All	19,904	13,124	2,215	1,888	1,717	1,359	1,302	1,109	1,059	1,011	1,047	1,003	1,000	1,000	1,000	1,000	1,016	1,000	1,000	1,000		
Wtd 3	4,613	2,830	1,516	1,417	1,254	1,423	1,149	1,195	1,005	1,002	1,002	1,003	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
Last 3	7,345	4,467	1,578	1,419	1,252	1,468	1,142	1,316	1,003	1,010	1,006	1,006	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
Last 5	7,877	4,737	1,530	1,638	1,166	1,470	1,102	1,085	1,003	1,016	1,006	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
x-tiltlow																						
Previous	11,500	5,250	2,250	1,650	1,300	1,200	1,070	1,060	1,040	1,015	1,010	1,005	1,005	1,005	1,000	1,000	1,000	1,000	1,000	1,000		
Selected	11,500	5,250	2,200	1,640	1,275	1,220	1,080	1,070	1,035	1,015	1,010	1,005	1,005	1,005	1,000	1,000	1,000	1,000	1,000	1,000		
Cumulative	421,723	36,672	6,985	3,175	1,936	1,518	1,245	1,152	1,077	1,041	1,025	1,015	1,010	1,005	1,000	1,000	1,000	1,000	1,000	1,000		
Percent	0.2%	2.7%	14.3%	31.5%	51.7%	65.9%	80.3%	86.8%	92.8%	96.1%	97.5%	98.5%	99.0%	99.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

Amounts are limited (net of excess insurance).

Data was provided by the County.

COOK COUNTY, ILLINOIS  
OTHER 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 1/996/97																						
1997/98	410	1,526	3,522	2,975	3,204	3,501	3,090	2,760	2,760	2,760	2,760	2,760	2,760	2,765	2,765	2,765	2,765	2,765	2,765	2,765	\$41,495	
1998/99	197	2,915	5,584	4,757	6,452	5,582	6,277	4,796	4,091	4,606	4,606	4,606	4,606	4,606	4,606	4,606	4,606	4,606	4,606	4,606		
1999/00	4,329	6,421	8,034	6,922	5,610	6,056	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	2,713		
2000/01	3,684	3,812	12,006	9,452	8,360	8,697	8,743	8,143	6,623	6,360	7,260	7,260	7,260	7,263	7,263	7,263	7,263	7,263	7,263	7,263		
2001/02	1,519	2,478	3,950	6,086	9,957	19,611	19,327	14,124	11,889	12,491	12,741	12,741	12,741	12,626	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	6,184		
2003/04	2,287	5,785	18,120	40,102	43,979	64,408	62,263	68,738	65,578	66,003	65,614	66,113	65,618	65,618	65,618	65,618	65,618	65,618	65,618	65,618		
2004/05	2,102	4,813	11,214	8,406	8,298	7,377	8,101	12,858	19,843	20,433	15,733	15,733	15,733	15,733	15,733	15,733	15,733	15,733	15,733	15,733		
2005/06	3,747	7,296	5,992	4,427	3,683	3,521	7,393	5,843	6,329	6,228	6,338	6,338	6,338	6,338	6,338	6,338	6,338	6,338	6,338	6,338		
2006/07	1,767	4,668	4,439	6,087	7,935	9,400	8,815	11,745	9,407	9,447	9,447	9,447	9,447	9,447	9,447	9,447	9,447	9,447	9,447	9,447		
2007/08	1,928	3,878	8,916	10,754	14,495	13,775	12,474	10,619	12,995	12,995	12,995	12,995	12,995	12,995	12,995	12,995	12,995	12,995	12,995	12,995		
2008/09	1,931	2,115	3,581	4,335	4,391	5,435	5,397	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006		
2009/10	972	3,567	6,505	4,332	8,101	19,458	7,589	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006		
2010/11	471	2,406	4,757	5,083	19,422	14,285	7,589	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006	6,006		
2011/12	4,276	6,052	15,539	7,564	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747		
2012/13	1,364	3,956	17,420	11,910	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747	6,747		
2013/14	4,235	13,094	13,326																			
2014/15	753	3,635																				
2015/16	1,148																					

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 1/996/97																						
1997/98	3,727	2,307	0,845	1,077	1,093	0,882	0,893	1,000	1,000	1,000	1,000	1,002	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
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	1,000	1,000	1,000	1,000	1,000		
1999/00	1,418	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	1,000		
2000/01	1,035	2,480	1,270	0,696	1,040	1,005	0,931	0,813	0,960	1,142	1,001	0,999	1,000	1,014	1,000	1,000	1,000	1,000	1,000	1,000		
2001/02	1,631	1,586	1,549	1,636	1,970	1,985	1,970	1,985	1,970	1,985	1,970	1,985	1,970	1,985	1,970	1,985	1,970	1,985	1,970	1,985		
2002/03	2,725	1,670	1,101	2,165	1,790	0,857	0,817	1,005	0,894	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
2003/04	2,520	3,143	2,213	1,097	1,465	0,987	1,104	0,954	1,006	0,994	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
2004/05	2,289	2,330	0,750	0,980	0,896	1,098	1,587	1,543	1,030	0,770	1,000	0,993	1,000	1,000	1,000	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	1,083	0,984	1,018	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
2006/07	2,642	0,951	1,371	1,304	1,185	0,938	1,332	0,801	1,004	1,004	1,004	1,004	1,004	1,004	1,004	1,004	1,004	1,004	1,004	1,004		
2007/08	2,012	2,299	1,206	1,348	0,950	0,906	0,851	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		
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	1,113		
2009/10	3,671	1,824	0,666	1,870	2,402	0,390	0,390	0,390	0,390	0,390	0,390	0,390	0,390	0,390	0,390	0,390	0,390	0,390	0,390	0,390		
2010/11	5,103	1,977	1,071	3,813	0,736	0,736	0,736	0,736	0,736	0,736	0,736	0,736	0,736	0,736	0,736	0,736	0,736	0,736	0,736	0,736		
2011/12	1,415	2,568	0,487	0,892																		
2012/13	2,901	4,404	0,684																			
2013/14	3,092	1,018																				
2014/15	4,830																					
2015/16																						
Average																						
All	3,269	2,013	1,055	1,393	1,190	1,028	0,974	1,019	1,003	0,956	0,981	1,033	0,967	1,003	1,000	1,036	0,965	1,000	1,000	1,000		
Wtd 3	3,257	2,004	0,651	2,017	1,238	0,668	1,063	1,019	1,015	0,946	1,006	1,029	0,894	1,004	1,000	1,036	0,965	1,000	1,000	1,000		
Last 3	3,606	2,663	0,747	2,192	1,456	0,763	1,089	1,035	1,006	0,927	1,003	1,076	0,934	1,005	1,000	1,036	0,965	1,000	1,000	1,000		
Last 5	3,606	2,123	0,807	1,410	1,124	0,945	1,089	1,087	1,087	1,004	1,003	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
x-Hilow																						
Previous	2,350	1,900	1,210	1,165	1,070	1,040	1,035	1,025	1,010	1,005	1,005	1,005	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
Selected	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	1,000		
Cumulative	7,652	3,188	1,678	1,410	1,210	1,131	1,093	1,056	1,025	1,015	1,010	1,005	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
Percent	13.1%	31.4%	58.6%	70.9%	82.6%	88.4%	91.5%	94.7%	97.5%	98.5%	99.0%	99.5%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Amounts are limited (net of excess insurance).

Data was provided by the County.



COOK COUNTY, ILLINOIS  
OTHER LIABILITY  
Historical Ratio of Limited Paid Losses and Limited Reported Incurred Losses

Claim Period	Months of Development:																					
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240		
to 1/996/07																						
1997/08	0.1%	4.4%	38.0%	54.2%	51.2%	63.8%	88.4%	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%	
1998/09	5.0%	9.5%	13.9%	40.3%	33.6%	50.4%	52.7%	68.1%	92.5%	93.5%	98.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1999/00	2.8%	4.2%	3.5%	13.3%	20.9%	28.5%	23.6%	40.8%	41.9%	44.6%	76.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2000/01	0.0%	0.9%	45.9%	42.8%	62.3%	63.5%	69.1%	76.5%	94.4%	96.4%	86.2%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2001/02	0.2%	1.8%	15.0%	26.7%	33.3%	32.5%	46.6%	63.7%	67.0%	96.9%	97.3%	97.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2002/03	1.1%	2.8%	3.8%	9.5%	7.0%	67.4%	78.9%	91.7%	93.4%	96.6%	98.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2003/04	1.0%	1.2%	2.1%	4.2%	19.9%	14.5%	25.9%	88.8%	100.0%	99.3%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2004/05	0.0%	1.8%	4.5%	20.7%	22.0%	38.0%	52.8%	36.4%	23.6%	22.9%	29.8%	99.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2005/06	0.4%	2.3%	21.8%	59.3%	73.1%	77.6%	43.2%	54.6%	89.0%	90.4%	91.5%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2006/07	2.3%	9.1%	34.7%	61.4%	48.7%	41.1%	84.6%	77.1%	97.6%	98.1%	98.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2007/08	0.9%	4.9%	7.1%	9.1%	38.3%	43.0%	48.9%	64.0%	61.1%	61.1%	61.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2008/09	3.9%	10.9%	28.3%	31.9%	64.4%	67.9%	85.3%	94.0%	91.7%	91.7%	91.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2009/10	0.4%	6.7%	15.2%	44.0%	34.8%	17.7%	67.9%	95.3%	95.3%	95.3%	95.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2010/11	11.2%	10.4%	28.0%	33.6%	12.2%	20.5%	91.7%	91.7%	91.7%	91.7%	91.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2011/12	2.3%	20.3%	12.8%	34.3%	53.4%	20.5%	20.5%	20.5%	20.5%	20.5%	20.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2012/13	2.2%	6.2%	6.7%	20.9%																		
2013/14	0.5%	1.8%	12.8%																			
2014/15	21.9%	14.2%																				
2015/16	17.8%																					
Average																						
All	3.9%	6.3%	17.3%	31.6%	38.3%	44.6%	61.7%	71.4%	78.2%	84.3%	85.6%	90.8%	97.2%	100.0%	99.7%	99.7%	96.7%	100.0%	100.0%	100.0%	100.0%	
Last 3	13.4%	7.4%	10.8%	29.8%	33.5%	35.3%	78.6%	78.4%	82.6%	70.5%	73.7%	76.3%	93.4%	100.0%	99.5%	99.5%	96.7%	100.0%	100.0%	100.0%	100.0%	
Last 5	7.5%	10.3%	13.6%	33.3%	42.2%	34.9%	75.1%	65.2%	82.6%	95.1%	96.3%	98.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
x-high																						
Implicit	1.8%	8.7%	24.0%	44.4%	62.5%	74.5%	87.8%	91.6%	95.2%	97.5%	98.5%	99.0%	99.0%	99.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	



Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/16 (2)	Limited Paid Losses 11/30/16 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1996/97	240.0	\$41,495,223	100.0%	\$41,495,223
1997/98	228.0	2,765,368	100.0%	2,765,368
1998/99	216.0	4,751,725	100.0%	4,751,725
1999/00	204.0	2,713,278	100.0%	2,713,278
2000/01	192.0	7,263,079	100.0%	7,263,079
2001/02	180.0	12,615,943	100.0%	12,615,943
2002/03	168.0	6,184,351	99.5%	6,215,273
2003/04	156.0	65,613,349	99.0%	65,816,650 *
2004/05	144.0	4,683,438	98.5%	4,754,041
2005/06	132.0	5,797,510	97.5%	5,943,757
2006/07	120.0	9,272,122	96.1%	9,648,610
2007/08	108.0	7,939,513	92.8%	8,551,057
2008/09	96.0	5,645,542	86.8%	6,506,019
2009/10	84.0	6,958,333	80.3%	8,660,415
2010/11	72.0	2,929,447	65.9%	4,448,145
2011/12	60.0	3,605,167	51.7%	6,979,573
2012/13	48.0	2,488,040	31.5%	7,899,593
2013/14	36.0	1,705,130	14.3%	11,910,431
2014/15	24.0	516,290	2.7%	18,933,157
2015/16	12.0	204,128	0.2%	86,085,302
Total		\$195,146,976		\$323,956,641

\* - 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 11/30/16 (2)	Limited Reported Incurred Losses 11/30/16 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1996/97	240.0	\$41,495,223	100.0%	\$41,495,223
1997/98	228.0	2,765,368	100.0%	2,765,368
1998/99	216.0	4,751,725	100.0%	4,751,725
1999/00	204.0	2,713,278	100.0%	2,713,278
2000/01	192.0	7,363,079	100.0%	7,363,079
2001/02	180.0	12,625,943	100.0%	12,625,943
2002/03	168.0	6,184,351	100.0%	6,184,351
2003/04	156.0	65,618,349	100.0%	65,618,349
2004/05	144.0	15,733,438	99.5%	15,762,105 *
2005/06	132.0	6,337,510	99.0%	6,401,044
2006/07	120.0	9,447,122	98.5%	9,589,539
2007/08	108.0	12,994,513	97.5%	13,196,182 *
2008/09	96.0	6,005,542	94.7%	6,341,748
2009/10	84.0	7,588,533	91.5%	8,293,827
2010/11	72.0	14,285,347	88.4%	14,847,563 *
2011/12	60.0	6,746,867	82.6%	8,166,264
2012/13	48.0	11,910,140	70.9%	14,333,836 *
2013/14	36.0	13,326,380	59.6%	18,971,736 *
2014/15	24.0	3,634,890	31.4%	11,588,815
2015/16	12.0	1,148,228	13.1%	8,785,915
Total		\$252,675,826		\$279,795,889

\* - 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 11/30/16 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/16 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/16 (6)	Limited Case Reserves 11/30/16 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1996/97	240.0	100.0%	100.0%	100.0%	\$41,495,223	\$0	\$41,495,223
1997/98	228.0	100.0%	100.0%	100.0%	2,765,368	0	2,765,368
1998/99	216.0	100.0%	100.0%	100.0%	4,751,725	0	4,751,725
1999/00	204.0	100.0%	100.0%	100.0%	2,713,278	0	2,713,278
2000/01	192.0	100.0%	100.0%	100.0%	7,263,079	100,000	7,363,079
2001/02	180.0	100.0%	100.0%	100.0%	12,615,943	10,000	12,625,943
2002/03	168.0	99.5%	100.0%	100.0%	6,184,351	0	6,184,351
2003/04	156.0	99.0%	100.0%	100.0%	65,613,349	5,000	65,618,349
2004/05	144.0	98.5%	99.5%	66.5%	4,683,438	11,050,000	16,262,378 *
2005/06	132.0	97.5%	99.0%	59.7%	5,797,510	540,000	6,702,624
2006/07	120.0	96.1%	98.5%	61.9%	9,272,122	175,000	9,554,657
2007/08	108.0	92.8%	97.5%	65.6%	7,939,513	5,055,000	13,023,361 *
2008/09	96.0	86.8%	94.7%	59.9%	5,645,542	360,000	6,246,384
2009/10	84.0	80.3%	91.5%	56.7%	6,958,333	630,200	8,069,183
2010/11	72.0	65.9%	88.4%	66.0%	2,929,447	11,355,900	14,982,887 *
2011/12	60.0	51.7%	82.6%	64.0%	3,605,167	3,141,700	8,510,324
2012/13	48.0	31.5%	70.9%	57.5%	2,488,040	9,422,100	14,434,735 *
2013/14	36.0	14.3%	59.6%	52.8%	1,705,130	11,621,250	19,235,080 *
2014/15	24.0	2.7%	31.4%	29.4%	516,290	3,118,600	11,108,844
2015/16	12.0	0.2%	13.1%	12.9%	204,128	944,100	7,544,163
<b>Total</b>					<b>\$195,146,976</b>	<b>\$57,528,850</b>	<b>\$279,191,938</b>

\* - 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 2015/16

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 1996/97	\$41,495,223	\$41,495,223	\$41,495,223	\$41,495,223
1997/98	2,765,368	2,765,368	2,765,368	2,765,368
1998/99	4,751,725	4,751,725	4,751,725	4,751,725
1999/00	2,713,278	2,713,278	2,713,278	2,713,278
2000/01	7,263,079	7,363,079	7,363,079	7,373,079
2001/02	12,615,943	12,625,943	12,625,943	12,626,943
2002/03	6,215,273	6,184,351	6,184,351	6,184,351
2003/04	65,816,650	65,618,349	65,618,349	65,618,849
2004/05	4,754,041	15,762,105	16,262,378	16,838,438
2005/06	5,943,757	6,401,044	6,702,624	6,702,624
2006/07	9,648,610	9,589,539	9,554,657	9,554,657
2007/08	8,551,057	13,196,182	13,023,361	13,500,013
2008/09	6,506,019	6,341,748	6,246,384	6,255,921
2009/10	8,660,415	8,293,827	8,069,183	8,114,111
2010/11	4,448,145	14,847,563	14,982,887	15,420,937
2011/12	6,979,573	8,166,264	8,510,324	8,372,700
2012/13	7,899,593	14,333,836	14,434,735	13,740,861
2013/14	11,910,431	18,971,736	19,235,080	17,664,813
2014/15	18,933,157	11,588,815	11,108,844	12,865,695
2015/16	86,085,302	8,785,915	7,544,163	22,500,000
<b>Total</b>	<b>\$323,956,641</b>	<b>\$279,795,889</b>	<b>\$279,191,938</b>	<b>\$295,059,587</b>
 Exc 2015	 237,871,339	 271,009,974	 271,647,775	 272,559,587

(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 (2016/17 = 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)
2006/07	\$9,554,657	\$1,243,144	\$7.69	1.480	\$11.38	\$7.88
2007/08	13,500,013	1,207,801	11.18	1.423	15.91	8.20
2008/09	6,255,921	1,303,812	4.80	1.369	6.57	8.53
2009/10	8,114,111	1,287,986	6.30	1.316	8.29	8.87
2010/11	15,420,937	1,293,078	11.93	1.265	15.09	9.22
2011/12	8,372,700	1,331,769	6.29	1.217	7.65	9.59
2012/13	13,740,861	1,285,791	10.69	1.170	12.50	9.97
2013/14	17,664,813	1,362,902	12.96	1.125	14.58	10.37
2014/15	12,865,695	1,509,150	8.53	1.082	9.22	10.79
2015/16	22,500,000	1,509,150	14.91	1.040	15.51	11.22

(7) Projected 2016/17 a-priori loss rate per \$1,000 of Revenue \$11.67

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/16 (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)
2011/12	\$3,605,167	51.7%	\$9.59	\$1,331,769	\$6,175,346	\$9,780,513
2012/13	2,488,040	31.5%	9.97	1,285,791	8,785,873	11,273,913
2013/14	1,705,130	14.3%	10.37	1,362,902	12,114,167	13,819,297
2014/15	516,290	2.7%	10.79	1,509,150	15,837,587	16,353,877
2015/16	204,128	0.2%	11.22	1,509,150	16,892,682	17,096,810

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/16 (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)
2011/12	\$6,746,867	82.6%	\$9.59	\$1,331,769	\$2,220,104	\$8,966,970
2012/13	11,910,140	70.9%	9.97	1,285,791	3,729,932	15,640,072
2013/14	13,326,380	59.6%	10.37	1,362,902	5,712,631	19,039,011
2014/15	3,634,890	31.4%	10.79	1,509,150	11,174,775	14,809,665
2015/16	1,148,228	13.1%	11.22	1,509,150	14,719,889	15,868,116

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 11/30/16 (2)	Reported Claims 11/30/16 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Revenue (000) (6)	Frequency (per \$1M of Revenue) (5)/(6)X1,000 (7)
2006/07	120.0	133	100.0%	133	\$1,243,144	0.11
2007/08	108.0	95	100.0%	95	1,207,801	0.08
2008/09	96.0	121	100.0%	121	1,303,812	0.09
2009/10	84.0	113	100.0%	113	1,287,986	0.09
2010/11	72.0	66	100.0%	66	1,293,078	0.05
2011/12	60.0	155	100.0%	155	1,331,769	0.12
2012/13	48.0	222	100.0%	222	1,285,791	0.17
2013/14	36.0	324	100.0%	324	1,362,902	0.24
2014/15	24.0	202	98.5%	205	1,509,150	0.14
2015/16	12.0	95	82.1%	116	1,509,150	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 (2016/17 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2016/17 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2006/07	\$9,554,657	133	\$71,840	1.480	\$106,340	\$83,672	\$11,128,428
2007/08	13,500,013	95	142,105	1.423	202,260	87,019	8,266,833
2008/09	6,255,921	121	51,702	1.369	70,758	90,500	10,950,507
2009/10	8,114,111	113	71,806	1.316	94,492	94,120	10,635,567
2010/11	15,420,937	66	233,651	1.265	295,642	97,885	6,460,401
2011/12	8,372,700	155	54,017	1.217	65,720	101,800	15,779,040
2012/13	13,740,861	222	61,896	1.170	72,409	105,872	23,503,644
2013/14	17,664,813	324	54,521	1.125	61,329	110,107	35,674,721
2014/15	12,865,695	205	62,759	1.082	67,881	114,511	23,474,847
2015/16	22,500,000	116	193,966	1.040	201,724	119,092	13,814,661

(7) Projected 2016/17 average claim severity

\$123,856

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 2015/16

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 1996/97	\$41,495,223	\$41,495,223	\$41,495,223				\$41,495,223	\$41,495,223
1997/98	2,765,368	2,765,368	2,765,368				2,765,368	2,765,368
1998/99	4,751,725	4,751,725	4,751,725				5,156,000	4,751,725
1999/00	2,713,278	2,713,278	2,713,278				2,713,278	2,713,278
2000/01	7,263,079	7,363,079	7,363,079				7,373,079	7,373,079
2001/02	12,615,943	12,625,943	12,625,943				12,627,000	12,630,000
2002/03	6,215,273	6,184,351	6,184,351				6,184,351	6,184,351
2003/04	65,816,650	65,618,349	65,618,349				66,365,000	65,620,000
2004/05	4,754,041	15,762,105	16,262,378				18,500,000	18,000,000
2005/06	5,943,757	6,401,044	6,702,624				6,593,000	6,700,000
2006/07	9,648,610	9,589,539	9,554,657				9,515,000	9,550,000
2007/08	8,551,057	13,196,182	13,023,361				12,760,000	13,500,013
2008/09	6,506,019	6,341,748	6,246,384				5,647,000	6,260,000
2009/10	8,660,415	8,293,827	8,069,183				22,212,000	8,110,000
2010/11	4,448,145	14,847,563	14,982,887				22,000,000	15,000,000
2011/12	6,979,573	8,166,264	8,510,324	9,780,513	8,966,970	15,779,040	12,000,000	10,000,000
2012/13	7,899,593	14,333,836	14,434,735	11,273,913	15,640,072	23,503,644	23,000,000	18,000,000
2013/14	11,910,431	18,971,736	19,235,080	13,819,297	19,039,011	35,674,721	22,000,000	20,000,000
2014/15	18,933,157	11,588,815	11,108,844	16,353,877	14,809,665	23,474,847	18,000,000	17,000,000
2015/16	86,085,302	8,785,915	7,544,163	17,096,810	15,868,116	13,814,661	18,274,000	18,000,000
<b>Total</b>	<b>\$323,956,641</b>	<b>\$279,795,889</b>	<b>\$279,191,938</b>				<b>\$335,180,300</b>	<b>\$303,653,038</b>
2011/12 - 2015/16	131,808,057	61,846,566	60,833,146	68,324,411	74,323,835	112,246,914	93,274,000	83,000,000
to 2010/11	192,148,584	217,949,324	218,358,792				241,906,300	220,653,038
						<b>Change</b>		
						All years 2011/12 - 2015/16 to 2010/11		<b>-\$31,527,262</b> <b>-10,274,000</b> <b>-21,253,262</b>

(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 2016/17 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 (2016/17 = 1.000) (5)	Trended Limited Loss Rate per \$1,000 of Revenue (4)X(5) (6)
2006/07	\$9,550,000	\$1,243,144	\$7.68	1.480	\$11.37
2007/08	13,500,013	1,207,801	11.18	1.423	15.91
2008/09	6,260,000	1,303,812	4.80	1.369	6.57
2009/10	8,110,000	1,287,986	6.30	1.316	8.29
2010/11	15,000,000	1,293,078	11.60	1.265	14.68
2011/12	10,000,000	1,331,769	7.51	1.217	9.14
2012/13	18,000,000	1,285,791	14.00	1.170	16.38
2013/14	20,000,000	1,362,902	14.67	1.125	16.51
2014/15	17,000,000	1,509,150	11.26	1.082	12.18
2015/16	18,000,000	1,509,150	11.93	1.040	12.40
Total	\$135,420,013	\$13,334,583	\$10.16		\$12.34

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)
2016/17	\$12.34	\$1,509,150	\$18,630,000	0.93	\$11.52	\$17,390,000
2017/18	12.84	1,509,150	19,370,000	0.93	11.98	18,080,000
2018/19	13.35	1,509,150	20,150,000	0.93	12.46	18,800,000

(2) is from Exhibit OL-9.

(3) 2006/07, 2007/08, 2008/09, 2009/10, 2010/11, 2011/12, 2012/13, 2013/14 and 2014/15 were provided by the County. Other periods assume a 0% trend.

(5) is based on a 4% trend.

(7) 2016/17 is based on (6) and actuarial judgment.  
Other period(s) based on 2016/17 plus a 4% trend.

(8) is based on (3) for 2015/16 and a 0% trend.

(10) is based on a 1.31% interest rate and the payout pattern in Exhibit OL-2.



Estimated Outstanding Losses as of November 30, 2016

Claim Period (1)	Limited Paid Losses 11/30/16 (2)	Limited Case Reserves 11/30/16 (3)	Limited Reported Incurred Losses 11/30/16 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/16 (5)-(4) (6)	Estimated Outstanding Losses 11/30/16 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/16 (7)X(8) (9)
to 1996/97	\$41,495,223	\$0	\$41,495,223	\$41,495,223	\$0	\$0	1.00	\$0
1997/98	2,765,368	0	2,765,368	2,765,368	0	0	1.00	0
1998/99	4,751,725	0	4,751,725	4,751,725	0	0	1.00	0
1999/00	2,713,278	0	2,713,278	2,713,278	0	0	1.00	0
2000/01	7,263,079	100,000	7,363,079	7,373,079	10,000	110,000	1.00	110,000
2001/02	12,615,943	10,000	12,625,943	12,630,000	4,057	14,057	1.00	14,057
2002/03	6,184,351	0	6,184,351	6,184,351	0	0	0.99	0
2003/04	65,613,349	5,000	65,618,349	65,620,000	1,651	6,651	0.99	6,565
2004/05	4,683,438	11,050,000	15,733,438	18,000,000	2,266,562	13,316,562	0.98	13,059,284
2005/06	5,797,510	540,000	6,337,510	6,700,000	362,490	902,490	0.98	882,738
2006/07	9,272,122	175,000	9,447,122	9,550,000	102,878	277,878	0.98	271,161
2007/08	7,939,513	5,055,000	12,994,513	13,500,013	505,500	5,560,500	0.98	5,432,494
2008/09	5,645,542	360,000	6,005,542	6,260,000	254,458	614,458	0.98	600,781
2009/10	6,958,333	630,200	7,588,533	8,110,000	521,467	1,151,667	0.97	1,122,175
2010/11	2,929,447	11,355,900	14,285,347	15,000,000	714,653	12,070,553	0.98	11,771,853
2011/12	3,605,167	3,141,700	6,746,867	10,000,000	3,253,133	6,394,833	0.97	6,213,943
2012/13	2,488,040	9,422,100	11,910,140	18,000,000	6,089,860	15,511,960	0.97	15,035,127
2013/14	1,705,130	11,621,250	13,326,380	20,000,000	6,673,620	18,294,870	0.96	17,638,136
2014/15	516,290	3,118,600	3,634,890	17,000,000	13,365,110	16,483,710	0.96	15,768,742
2015/16	204,128	944,100	1,148,228	18,000,000	16,851,772	17,795,872	0.95	16,825,736
<b>Total</b>	<b>\$195,146,976</b>	<b>\$57,528,850</b>	<b>\$252,675,826</b>	<b>\$303,653,038</b>	<b>\$50,977,211</b>	<b>\$108,506,061</b>		<b>\$104,752,792</b>

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

(5) is from Exhibit OL-9.

(8) is based on a 1.31% interest rate and the payout pattern in Exhibit OL-2.

Projected Losses Paid December 1, 2016 to November 30, 2017

Claim Period (1)	Months of Development 11/30/16 (2)	Percent Losses Paid (3)	Months of Development 11/30/17 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/16 to 11/30/17 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/16 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/17 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/17 (9)X(10) (11)
to 1996/97	240.0	100.0%	252.0	100.0%	10.0% *	\$0	\$0	\$0	1.00	\$0
1997/98	228.0	100.0%	240.0	100.0%	10.0% *	0	0	0	1.00	0
1998/99	216.0	100.0%	228.0	100.0%	10.0% *	0	0	0	1.00	0
1999/00	204.0	100.0%	216.0	100.0%	10.0% *	0	0	0	1.00	0
2000/01	192.0	100.0%	204.0	100.0%	10.0% *	110,000	11,000	99,000	1.00	99,000
2001/02	180.0	100.0%	192.0	100.0%	10.0% *	14,057	1,406	12,651	1.00	12,651
2002/03	168.0	99.5%	180.0	100.0%	10.0% *	0	0	0	1.00	0
2003/04	156.0	99.0%	168.0	99.5%	10.0% *	6,651	665	5,986	0.99	5,947
2004/05	144.0	98.5%	156.0	99.0%	10.0% *	13,316,562	1,331,656	11,984,906	0.99	11,829,992
2005/06	132.0	97.5%	144.0	98.5%	10.0% *	902,490	90,249	812,241	0.98	796,548
2006/07	120.0	96.1%	132.0	97.5%	10.0% *	277,878	27,788	250,090	0.98	244,616
2007/08	108.0	92.8%	120.0	96.1%	10.0% *	5,560,500	556,050	5,004,450	0.98	4,883,479
2008/09	96.0	86.8%	108.0	92.8%	10.0% *	614,458	61,446	553,012	0.98	540,281
2009/10	84.0	80.3%	96.0	86.8%	10.0% *	1,151,667	115,167	1,036,500	0.98	1,013,430
2010/11	72.0	65.9%	84.0	80.3%	10.0% *	12,070,553	1,207,055	10,863,498	0.97	10,585,307
2011/12	60.0	51.7%	72.0	65.9%	10.0% *	6,394,833	639,483	5,755,350	0.98	5,612,927
2012/13	48.0	31.5%	60.0	51.7%	10.0% *	15,511,960	1,551,196	13,960,764	0.97	13,565,858
2013/14	36.0	14.3%	48.0	31.5%	10.0% *	18,294,870	1,829,487	16,465,383	0.97	15,959,242
2014/15	24.0	2.7%	36.0	14.3%	10.0% *	16,483,710	1,648,371	14,835,339	0.96	14,302,792
2015/16	12.0	0.2%	24.0	2.7%	2.5% *	17,795,872	444,132	17,351,740	0.96	16,599,121
2016/17	0.0	0.0%	12.0	0.2%	0.2% *	18,630,000	44,176	18,585,824	0.95	17,572,624
Total						\$127,136,061	\$9,559,327	\$117,576,734		\$113,623,815

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

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

(7) to 2015/16 is from Exhibit OL-11. The amount for 2016/17 is from Exhibit OL-10.

(10) is based on a 1.31% 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 1996/97	252.0	100.0%	264.0	100.0%	10.0% *	\$0	\$0	\$0	1.00	\$0
1997/98	240.0	100.0%	252.0	100.0%	10.0% *	0	0	0	1.00	0
1998/99	228.0	100.0%	240.0	100.0%	10.0% *	0	0	0	1.00	0
1999/00	216.0	100.0%	228.0	100.0%	10.0% *	0	0	0	1.00	0
2000/01	204.0	100.0%	216.0	100.0%	10.0% *	99,000	9,900	89,100	1.00	89,100
2001/02	192.0	100.0%	204.0	100.0%	10.0% *	12,651	1,265	11,386	1.00	11,386
2002/03	180.0	100.0%	192.0	100.0%	10.0% *	0	0	0	1.00	0
2003/04	168.0	99.5%	180.0	100.0%	10.0% *	5,986	599	5,387	1.00	5,387
2004/05	156.0	99.0%	168.0	99.5%	10.0% *	11,984,906	1,198,491	10,786,415	0.99	10,716,451
2005/06	144.0	98.5%	156.0	99.0%	10.0% *	812,241	81,224	731,017	0.99	721,568
2006/07	132.0	97.5%	144.0	98.5%	10.0% *	250,090	25,009	225,081	0.98	220,732
2007/08	120.0	96.1%	132.0	97.5%	10.0% *	5,004,450	500,445	4,504,005	0.98	4,405,428
2008/09	108.0	92.8%	120.0	96.1%	10.0% *	553,012	55,301	497,711	0.98	485,680
2009/10	96.0	86.8%	108.0	92.8%	10.0% *	1,036,500	103,650	932,850	0.98	911,375
2010/11	84.0	80.3%	96.0	86.8%	10.0% *	10,863,498	1,086,350	9,777,148	0.98	9,559,528
2011/12	72.0	65.9%	84.0	80.3%	10.0% *	5,755,350	575,535	5,179,815	0.97	5,047,171
2012/13	60.0	51.7%	72.0	65.9%	10.0% *	13,960,764	1,396,076	12,564,688	0.98	12,253,760
2013/14	48.0	31.5%	60.0	51.7%	10.0% *	16,465,383	1,646,538	14,818,845	0.97	14,399,667
2014/15	36.0	14.3%	48.0	31.5%	10.0% *	14,835,339	1,483,534	13,351,805	0.97	12,941,374
2015/16	24.0	2.7%	36.0	14.3%	10.0% *	17,351,740	1,735,174	15,616,566	0.96	15,055,975
2016/17	12.0	0.2%	24.0	2.7%	2.5% *	18,585,824	463,847	18,121,977	0.96	17,335,950
2017/18	0.0	0.0%	12.0	0.2%	0.2% *	19,370,000	45,931	19,324,069	0.95	18,270,624
<b>Total</b>						<b>\$136,946,734</b>	<b>\$10,408,869</b>	<b>\$126,537,865</b>		<b>\$122,431,156</b>

\* - 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-12, (9). The amount for 2017/18 is from Exhibit OL-10.

(10) is based on a 1.31% 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 1996/97	264.0	100.0%	276.0	100.0%	10.0% *	\$0	\$0	\$0	1.00	\$0
1997/98	252.0	100.0%	264.0	100.0%	10.0% *	0	0	0	1.00	0
1998/99	240.0	100.0%	252.0	100.0%	10.0% *	0	0	0	1.00	0
1999/00	228.0	100.0%	240.0	100.0%	10.0% *	0	0	0	1.00	0
2000/01	216.0	100.0%	228.0	100.0%	10.0% *	89,100	8,910	80,190	1.00	80,190
2001/02	204.0	100.0%	216.0	100.0%	10.0% *	11,386	1,139	10,247	1.00	10,247
2002/03	192.0	100.0%	204.0	100.0%	10.0% *	0	0	0	1.00	0
2003/04	180.0	100.0%	192.0	100.0%	10.0% *	5,387	539	4,848	1.00	4,848
2004/05	168.0	99.5%	180.0	100.0%	10.0% *	10,786,415	1,078,642	9,707,773	1.00	9,707,773
2005/06	156.0	99.0%	168.0	99.5%	10.0% *	731,017	73,102	657,915	0.99	653,648
2006/07	144.0	98.5%	156.0	99.0%	10.0% *	225,081	22,508	202,573	0.99	199,955
2007/08	132.0	97.5%	144.0	98.5%	10.0% *	4,504,005	450,401	4,053,604	0.98	3,975,288
2008/09	120.0	96.1%	132.0	97.5%	10.0% *	497,711	49,771	447,940	0.98	438,136
2009/10	108.0	92.8%	120.0	96.1%	10.0% *	932,850	93,285	839,565	0.98	819,270
2010/11	96.0	86.8%	108.0	92.8%	10.0% *	9,777,148	977,715	8,799,433	0.98	8,596,865
2011/12	84.0	80.3%	96.0	86.8%	10.0% *	5,179,815	517,982	4,661,833	0.98	4,558,070
2012/13	72.0	65.9%	84.0	80.3%	10.0% *	12,564,688	1,256,469	11,308,219	0.97	11,018,640
2013/14	60.0	51.7%	72.0	65.9%	10.0% *	14,818,845	1,481,885	13,336,960	0.98	13,006,922
2014/15	48.0	31.5%	60.0	51.7%	10.0% *	13,351,805	1,335,181	12,016,624	0.97	11,676,712
2015/16	36.0	14.3%	48.0	31.5%	10.0% *	15,616,566	1,561,657	14,054,909	0.97	13,622,865
2016/17	24.0	2.7%	36.0	14.3%	10.0% *	18,121,977	1,812,198	16,309,779	0.96	15,724,304
2017/18	12.0	0.2%	24.0	2.7%	2.5% *	19,324,069	482,272	18,841,797	0.96	18,024,548
2018/19	0.0	0.0%	12.0	0.2%	0.2% *	20,150,000	47,780	20,102,220	0.95	19,006,354
<b>Total</b>						<b>\$146,687,865</b>	<b>\$11,251,436</b>	<b>\$135,436,429</b>		<b>\$131,124,635</b>

\* - 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-13, (9). The amount for 2018/19 is from Exhibit OL-10.

(10) is based on a 1.31% 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 11/30/16 (5)	Unlimited Case Reserves 11/30/16 (6)	Unlimited Reported Incurred Losses 11/30/16 (7)
97001561	5/13/1978	to 1996/97	Unlimited	\$4,000,000	\$0	\$4,000,000
97002759	1/1/1989	to 1996/97	Unlimited	1,898,909	0	1,898,909
97006027	3/11/2001	2000/01	9,500,000	1,003,000	0	1,003,000
97005940	1/1/2004	2003/04	10,000,000	2,755,053	0	2,755,053
97005940	1/1/2004	2003/04	10,000,000	4,377,358	0	4,377,358
97005996	1/13/2004	2003/04	45,334,001	45,334,001 *	0	45,334,001
97005005	4/29/2004	2003/04	10,000,000	5,291,386	0	5,291,386
97006613	6/5/2005	2004/05	10,000,000	0	1,000,000	1,000,000
97006619	7/12/2005	2004/05	10,000,000	1,240,707	0	1,240,707
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
97007633	1/20/2008	2007/08	5,000,000	0	5,000,000 *	5,000,000 *
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
97009812 et al	11/16/2011	2010/11	10,000,000	0	40,000,000 *	40,000,000 *
97010532	4/3/2012	2011/12	10,000,000	0	1,475,000	1,475,000
97010892	9/1/2013	2012/13	6,000,000	0	6,000,000 *	6,000,000 *
97011535	1/10/2014	2013/14	5,000,000	0	5,000,000 *	5,000,000 *
97012505	10/12/2014	2013/14	15,000,000	0	1,000,000	1,000,000

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.