



Cook County, Illinois

Actuarial Study of the Workers Compensation and Liability Self-Insured Programs as of November 30, 2015

May 17, 2016



May 17, 2016

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, 2015**

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 Darci Noonan, 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 

Darci Noonan, FCAS, MAAA, CPCU
Senior Consultant and Actuary

By 

Brenda Craigmyle
Senior Actuarial Analyst

TD/DN:bc



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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	None



**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, 2015 was provided to us by the County. For workers compensation, the County provided loss runs containing cumulative paid and incurred amounts through November 30, 2015. For the medical malpractice and liability coverages, the County provided payments made during fiscal year 2014/15 and case reserve amounts as of November 30, 2015. 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, 2015.

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 2015/16 and medical malpractice exposures for years through 2015/16. 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 2016/17 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, 2015, November 30, 2016, and November 30, 2017.

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 2015/16, 2016/17, and 2017/18.

The projected ultimate limited losses are the accrual value of losses with accident dates during 2015/16, 2016/17, and 2017/18, 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 2015/16, 2016/17, and 2017/18 claim periods.

The projected losses paid are the claim disbursements during 2015/16, 2016/17, and 2017/18, 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, 2015 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, 2015**

Coverage (1)	Full Value			Present Value		
	Expected (2)	70% Level (3)	90% Level (4)	Expected (5)	70% Level (6)	90% Level (7)
I. Health Care Facilities						
(Ai) WC - Indemnity	\$10,177,137	\$11,601,936	\$14,756,849	\$9,450,236	\$10,773,269	\$13,702,842
(Aii) WC - Medical	<u>3,057,700</u>	<u>3,485,778</u>	<u>4,433,665</u>	<u>2,854,406</u>	<u>3,254,023</u>	<u>4,138,889</u>
(A) Workers compensation	\$13,234,837	\$15,087,714	\$19,190,514	\$12,304,642	\$14,027,292	\$17,841,731
(Bi) Cermak	6,702,000	7,841,340	10,589,160	6,309,243	7,381,814	9,968,604
(Bii) John H. Stroger	105,600,501	123,552,586	166,848,792	99,988,226	116,986,224	157,981,397
(Biii) Oak Forest	823,500	963,495	1,301,130	785,406	918,925	1,240,941
(Biv) Provident	9,210,000	10,775,700	14,551,800	8,793,572	10,288,479	13,893,844
(Bv) Unspecified	<u>300,000</u>	<u>351,000</u>	<u>474,000</u>	<u>281,101</u>	<u>328,888</u>	<u>444,140</u>
(B) Medical malpractice	\$122,636,001	\$143,484,121	\$193,764,882	\$116,157,548	\$135,904,330	\$183,528,926
(C) Claim expense	2,352,584	2,681,946	3,411,247	2,228,305	2,540,268	3,231,042
(D) Subtotal	\$138,223,422	\$161,253,781	\$216,366,643	\$130,690,495	\$152,471,890	\$204,601,699
II. General Government						
(Ei) WC - Indemnity	\$56,350,553	\$64,239,630	\$81,708,302	\$53,009,638	\$60,430,987	\$76,863,975
(Eii) WC - Medical	<u>23,908,922</u>	<u>27,256,171</u>	<u>34,667,937</u>	<u>22,558,025</u>	<u>25,716,149</u>	<u>32,709,136</u>
(E) Workers compensation	\$80,259,475	\$91,495,801	\$116,376,239	\$75,567,663	\$86,147,136	\$109,573,111
(F) General liability	1,455,779	1,659,588	2,110,880	1,421,168	1,620,132	2,060,694
(G) Automobile liability	9,894,377	11,279,590	14,346,847	9,715,588	11,075,770	14,087,603
(H) Other liability	132,237,765	154,718,185	208,935,669	126,557,248	148,071,980	199,960,452
(I) Claim expense	40,301,230	45,943,402	58,436,784	38,646,967	44,057,542	56,038,102
(J) Subtotal	\$264,148,626	\$305,096,566	\$400,206,419	\$251,908,634	\$290,972,560	\$381,719,962
(K) Total (D) + (J)	\$402,372,048	\$466,350,347	\$616,573,062	\$382,599,129	\$443,444,450	\$586,321,661

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 1.68% interest rate, as provided by the County.

The discount rate used in the prior year's analysis was 3.4%. The change in discount rate had the impact of increasing the discounted reserves about \$18 million.

Undiscounted outstanding losses increased from \$367.8 million as of November 30, 2014, to \$402.4 million as of November 30, 2015. 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, 2014 to November 30, 2015
All Coverages Combined
(Excluding Claim Expense Reserves)

Year (1)	As of 11/30/14			As of 11/30/15			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 1995/96	\$10,074	\$508	\$10,582	\$2,918	\$335	\$3,253	(\$7,156)	(\$ 173)	(\$7,329)
1996/97	140	14	154	96	12	108	- 44	- 2	- 46
1997/98	229	23	252	163	34	197	- 66	11	- 55
1998/99	3,309	332	3,641	3,768	383	4,151	459	51	510
1999/00	282	29	311	254	56	310	- 28	27	- 1
2000/01	928	93	1,021	954	93	1,047	26	0	26
2001/02	4,374	437	4,811	1,241	202	1,443	-3,133	- 235	-3,368
2002/03	688	114	802	520	128	648	- 168	14	- 154
2003/04	1,397	316	1,713	2,253	597	2,850	856	281	1,137
2004/05	17,002	1,780	18,782	12,489	3,058	15,547	-4,513	1,278	-3,235
2005/06	15,189	1,955	17,144	2,965	752	3,717	-12,224	-1,203	-13,427
2006/07	3,993	2,663	6,656	1,605	543	2,148	-2,388	-2,120	-4,508
2007/08	10,773	5,320	16,093	5,608	3,113	8,721	-5,165	-2,207	-7,372
2008/09	11,273	5,326	16,599	6,189	3,544	9,733	-5,084	-1,782	-6,866
2009/10	23,209	9,846	33,055	28,315	5,899	34,214	5,106	-3,947	1,159
2010/11	14,968	13,602	28,570	26,542	8,238	34,780	11,574	-5,364	6,210
2011/12	38,805	16,439	55,244	26,396	13,563	39,959	-12,409	-2,876	-15,285
2012/13	22,033	29,842	51,875	50,577	20,763	71,340	28,544	-9,079	19,465
2013/14	14,367	51,122	65,489	29,819	30,092	59,911	15,452	-21,030	-5,578
2014/15				18,420	47,221	65,641	18,420	47,221	65,641
Total	\$193,033	\$139,761	\$332,794	\$221,092	\$138,626	\$359,718	\$28,059	(\$1,135)	\$26,924

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, 2014 and November 30, 2015 is shown in Summary Exhibit 2. Detail by year and coverage is provided in Summary Exhibits 10 through 23.

Case reserves are up \$28 million from our prior analysis. Almost \$21 million of this increase is driven by several large claims for the Other Liability segment being set up or revalued. Most of the remaining increase is coming from increases in case reserves for the WC General Government segment. The majority of this WC increase in case reserves is being driven by an increase in the number of open cases. While the County has closed more WC claims in the last 12 months reviewed over the prior year period, about 300 more claims were reported than were closed. So the number of WC open cases has continued to build. The County did confirm they believe all the reported WC claims are in the data provided to Aon for our review.

Estimated outstanding losses as of November 30, 2016, and November 30, 2017 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, 2015 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 2014/15 payment data.

In summary, the expected (or central estimate) discounted reserves are up from \$335 million in last year's study to \$383 million in this year's study. About \$18 million of this increase is driven by the change in the discount rate. The remaining increase is driven largely by a substantial increase in case reserves for the Other Liability and WC General Government segments.



2. Project Ultimate Limited Losses

We project ultimate limited losses for 2015/16 to be as shown in Table III-2. The projected ultimate limited losses are the accrual value of losses with accident dates during 2015/16 regardless of report or payment date.

**Table III-2
Projected Ultimate Losses
2015/16**

Coverage (1)	Full Value			Present Value		
	Expected (2)	70% Level (3)	90% Level (4)	Expected (5)	70% Level (6)	90% Level (7)
I. Health Care Facilities						
(Ai) WC - Indemnity	\$2,279,000	\$2,666,430	\$3,600,820	\$2,138,000	\$2,501,460	\$3,378,040
(Aii) WC - Medical	<u>1,235,000</u>	<u>1,444,950</u>	<u>1,951,300</u>	<u>1,176,000</u>	<u>1,375,920</u>	<u>1,858,080</u>
(A) Workers compensation	\$3,514,000	\$4,111,380	\$5,552,120	\$3,314,000	\$3,877,380	\$5,236,120
(Bi) Cermak	1,184,000	1,420,800	2,083,840	1,068,000	1,281,600	1,879,680
(Bii) John H. Stroger	17,919,000	21,502,800	31,537,440	16,165,000	19,398,000	28,450,400
(Biii) Oak Forest	31,000	37,200	54,560	28,000	33,600	49,280
(Biv) Provident	917,000	1,100,400	1,613,920	828,000	993,600	1,457,280
(Bv) Unspecified	<u>24,000</u>	<u>28,800</u>	<u>42,240</u>	<u>21,000</u>	<u>25,200</u>	<u>36,960</u>
(B) Medical malpractice	\$20,075,000	\$24,090,000	\$35,332,000	\$18,110,000	\$21,732,000	\$31,873,600
(C) Subtotal	\$23,589,000	\$28,201,380	\$40,884,120	\$21,424,000	\$25,609,380	\$37,109,720
II. General Government						
(Di) WC - Indemnity	\$15,317,000	\$17,920,890	\$24,200,860	\$14,342,000	\$16,780,140	\$22,660,360
(Dii) WC - Medical	<u>10,092,000</u>	<u>11,807,640</u>	<u>15,945,360</u>	<u>9,610,000</u>	<u>11,243,700</u>	<u>15,183,800</u>
(D) Workers compensation	\$25,409,000	\$29,728,530	\$40,146,220	\$23,952,000	\$28,023,840	\$37,844,160
(E) General liability	402,000	470,340	635,160	382,000	446,940	603,560
(F) Automobile liability	1,563,000	1,828,710	2,469,540	1,501,000	1,756,170	2,371,580
(G) Other liability	18,274,000	21,928,800	32,162,240	16,743,000	20,091,600	29,467,680
(H) Subtotal	\$45,648,000	\$53,956,380	\$75,413,160	\$42,578,000	\$50,318,550	\$70,286,980
(I) Total (C) + (H)	\$69,237,000	\$82,157,760	\$116,297,280	\$64,002,000	\$75,927,930	\$107,396,700

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 1.68% interest rate, as provided by the County.

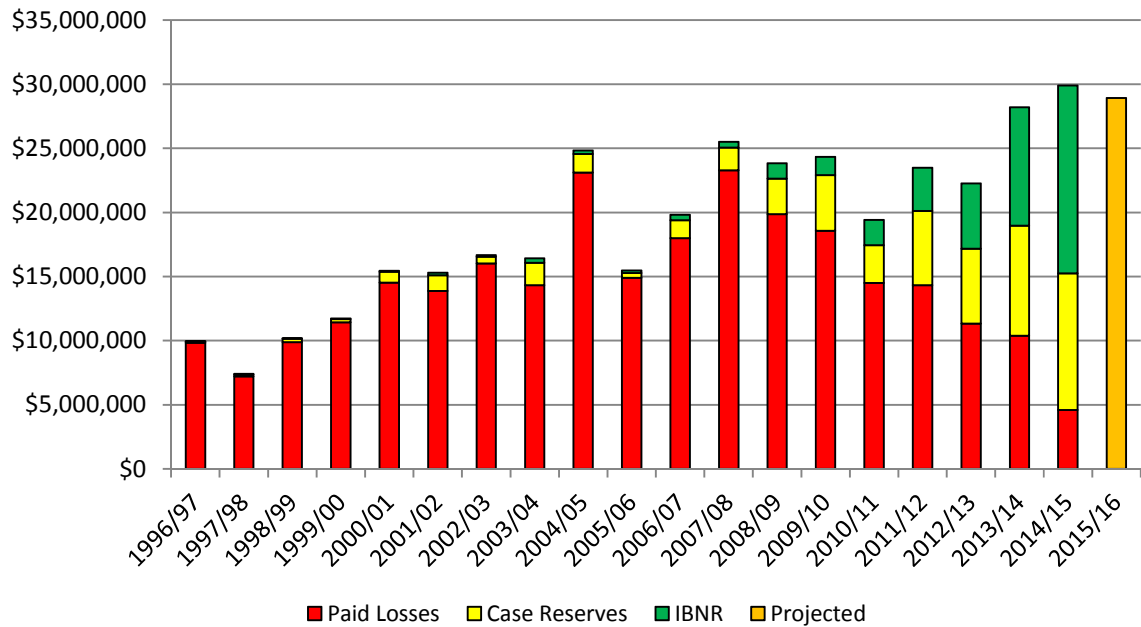
Projected ultimate losses for 2016/17 and 2017/18 are shown in Summary Exhibit 3.

Summary Exhibit 10 shows the change in estimates from last year (inclusive of last year's forecast estimate for the 2014/15 claim period). On this basis, our ultimate loss and ALAE estimates for all years through the 2014/15 claim period are up by approximately \$17 million, or 1.2%.



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

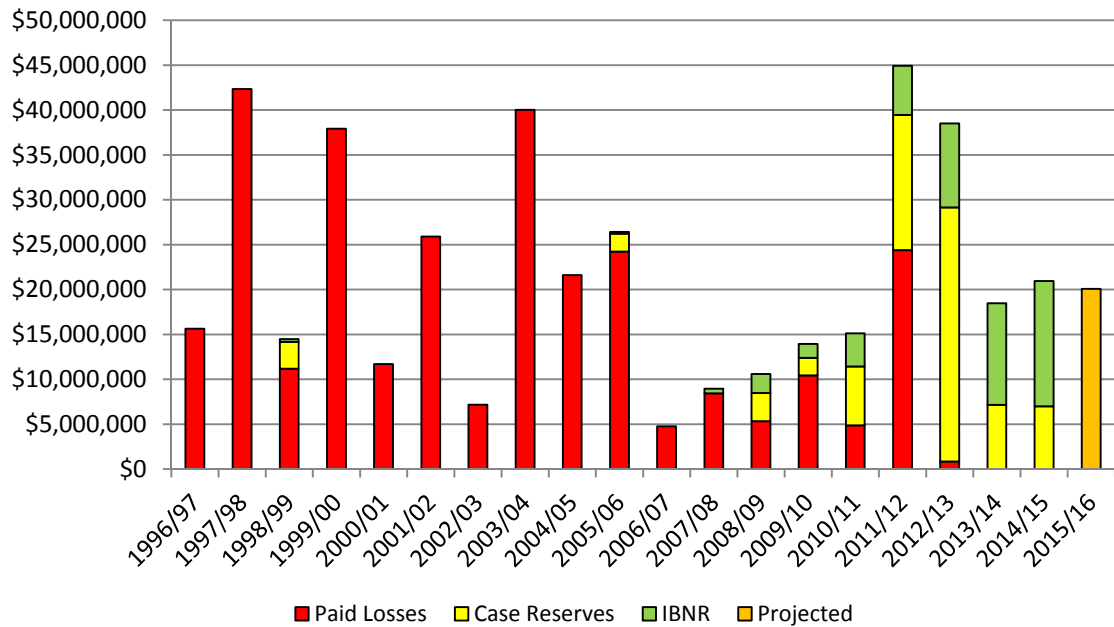
Graph III-1
Composition of Projected Ultimate Limited Losses
(Workers Compensation)



For years through 2013/14, the estimate of the ultimate workers compensation losses has increased by 1.6% from the prior report.

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

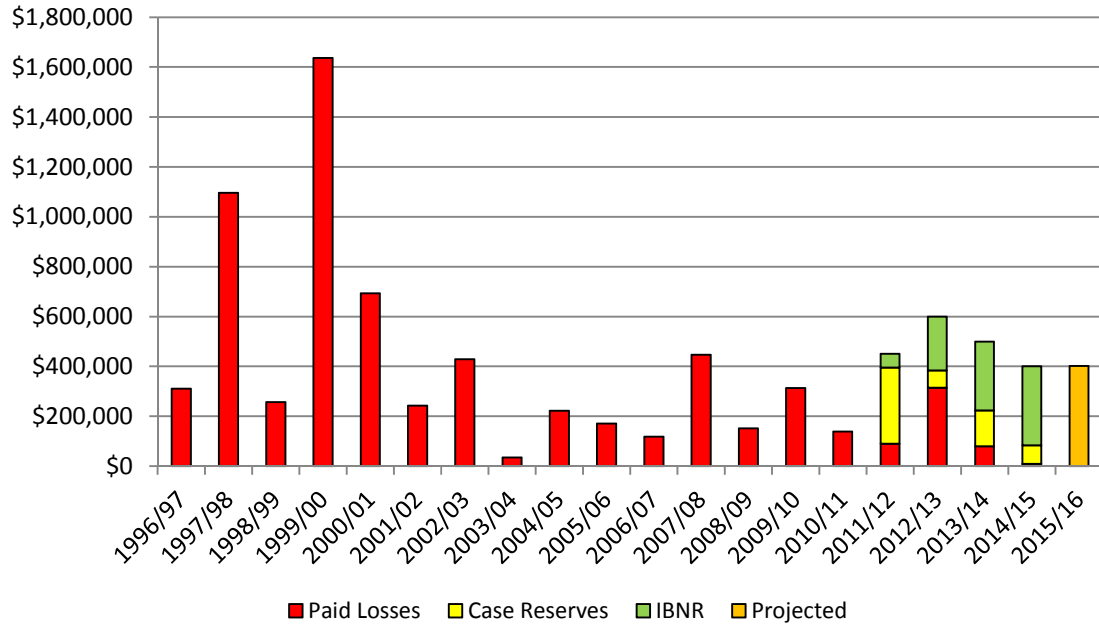
Graph III-2
Composition of Projected Ultimate Limited Losses
(Medical Malpractice)



For years through 2013/14, 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.

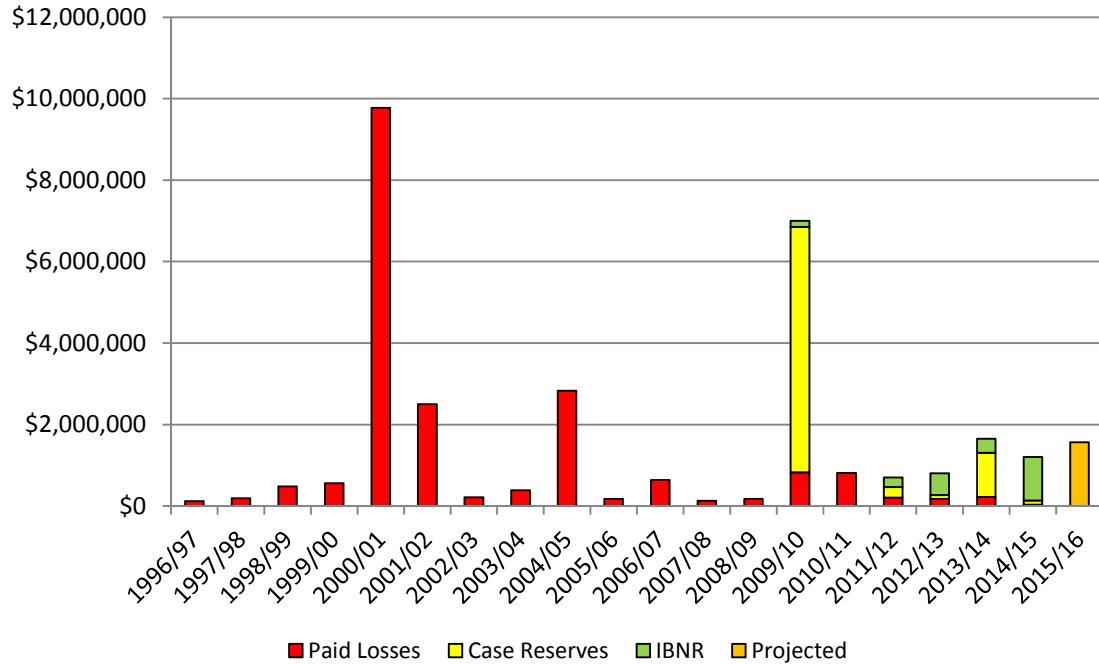
Graph III-3
Composition of Projected Ultimate Limited Losses
(General Liability)



For years through 2013/14, the estimate of the ultimate general liability losses has decreased by -2.3% from the prior report.

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

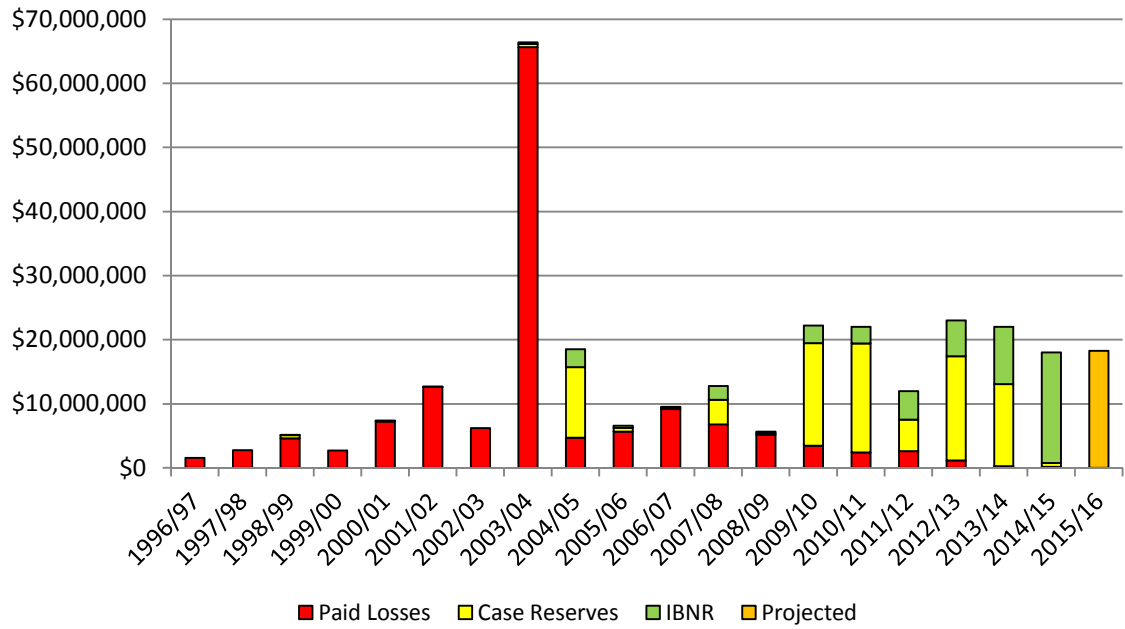
Graph III-4
Composition of Projected Ultimate Limited Losses
(Automobile Liability)



For years through 2013/14, the estimate of the ultimate automobile liability losses has decreased by -2.5% from the prior report. We note that there is one very large claim in 2009/10.

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

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



For years through 2013/14, the estimate of the ultimate other liability losses has increased by 5.0% from the prior report. This increase was driven by several very large claims being revalued or newly reported.



3. Project Losses Paid

We project losses paid during 2015/16 through 2017/18 to be as shown in Table III-3. The projected losses paid are the claim disbursements during 2015/16, 2016/17, and 2017/18, regardless of accident or report date.

**Table III-3
Projected Losses Paid
2015/16, 2016/17, and 2017/18**

Coverage (1)	2015/16 (2)	2016/17 (3)	2017/18 (4)
I. Health Care Facilities			
(Ai) WC - Indemnity	\$2,796,806	\$2,641,949	\$2,539,326
(Aii) WC - Medical	<u>1,316,429</u>	<u>1,271,049</u>	<u>1,266,598</u>
(A) Workers compensation	\$4,113,235	\$3,912,998	\$3,805,924
(Bi) Cermak	735,961	977,091	1,193,008
(Bii) John H. Stroger	16,528,258	17,149,136	19,665,050
(Biii) Oak Forest	189,301	147,185	141,193
(Biv) Provident	3,462,423	1,559,477	1,106,964
(Bv) Unspecified	<u>25,726</u>	<u>37,429</u>	<u>47,382</u>
(B) Medical malpractice	\$20,941,669	\$19,870,318	\$22,153,597
(C) Subtotal (A) + (B)	\$25,054,904	\$23,783,316	\$25,959,521
II. General Government			
(Di) WC - Indemnity	\$12,012,277	\$12,672,787	\$13,189,469
(Dii) WC - Medical	<u>10,697,753</u>	<u>10,164,376</u>	<u>10,321,216</u>
(D) Workers compensation	\$22,710,030	\$22,837,163	\$23,510,685
(E) General liability	659,767	508,751	455,608
(F) Automobile liability	8,001,566	1,814,370	1,688,554
(G) Other liability	16,922,502	17,221,072	17,386,169
(H) Subtotal (D)+(E)+(F)+(G)	\$48,293,865	\$42,381,356	\$43,041,016
(I) Total (C) + (H)	\$73,348,769	\$66,164,672	\$69,000,537

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 since our last analysis. 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, 2015. 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.



COOK COUNTY, ILLINOIS
SUMMARY EXHIBITS

Estimated Outstanding Losses

A. Estimated Outstanding Losses as of 11/30/15

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$10,177,137	\$11,601,936	\$14,756,849	\$9,450,236	\$10,773,269	\$13,702,842
(Aii) WC - Medical	3,057,700	3,485,778	4,433,665	2,854,406	3,254,023	4,138,889
(A) Workers compensation	\$13,234,837	\$15,087,714	\$19,190,514	\$12,304,642	\$14,027,292	\$17,841,731
(Bi) Cermak	6,702,000	7,841,340	10,589,160	6,309,243	7,381,814	9,968,604
(Bii) John H. Stroger	105,600,501	123,552,586	166,848,792	99,988,226	116,986,224	157,981,397
(Biii) Oak Forest	823,500	963,495	1,301,130	785,406	918,925	1,240,941
(Biv) Provident	9,210,000	10,775,700	14,551,800	8,793,572	10,288,479	13,893,844
(Bv) Unspecified	300,000	351,000	474,000	281,101	328,888	444,140
(B) Medical malpractice	\$122,636,001	\$143,484,121	\$193,764,882	\$116,157,548	\$135,904,331	\$183,528,926
(C) Claim Expense Reserves	2,352,584	2,681,946	3,411,246	2,228,305	2,540,267	3,231,042
(D) Subtotal	\$138,223,422	\$161,253,781	\$216,366,642	\$130,690,495	\$152,471,890	\$204,601,698
II. General Government						
(Ei) WC - Indemnity	56,350,553	64,239,630	81,708,302	53,009,638	60,430,987	76,863,975
(Eii) WC - Medical	23,908,922	27,256,171	34,667,937	22,558,025	25,716,149	32,579,136
(E) Workers compensation	\$80,259,475	\$91,495,802	\$116,376,239	\$75,567,663	\$86,147,136	\$109,573,111
(F) General liability	1,455,779	1,659,588	2,110,880	1,421,168	1,620,132	2,060,694
(G) Automobile liability	9,894,377	11,279,590	14,346,847	9,715,588	11,075,770	14,087,603
(H) Other liability	132,237,765	154,718,185	208,935,669	126,557,248	148,071,980	199,960,452
(I) Claim Expense Reserves	40,301,230	45,943,402	58,436,783	38,646,967	44,057,543	56,038,102
(J) Subtotal	\$264,148,626	\$305,096,566	\$400,206,417	\$251,908,634	\$290,972,560	\$381,719,962
Total	\$402,372,047	\$466,350,347	\$616,573,058	\$382,599,129	\$443,444,451	\$586,321,660

B. Estimated Outstanding Losses as of 11/30/16

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$9,659,331	\$11,011,637	\$14,006,030	\$8,961,773	\$10,216,421	\$12,994,571
(Aii) WC - Medical	2,976,271	3,392,949	4,315,593	2,769,993	3,157,792	4,016,490
(A) Workers compensation	\$12,635,602	\$14,404,586	\$18,321,623	\$11,731,766	\$13,374,213	\$17,011,061
(Bi) Cermak	7,150,039	8,365,546	11,297,062	6,759,140	7,908,194	10,679,441
(Bii) John H. Stroger	106,991,243	125,179,754	169,046,164	101,409,805	118,649,472	160,227,492
(Biii) Oak Forest	665,199	778,283	1,051,014	636,152	744,298	1,005,120
(Biv) Provident	6,664,577	7,797,555	10,530,032	6,341,755	7,419,853	10,019,973
(Bv) Unspecified	298,274	348,981	471,273	281,898	329,821	445,399
(B) Medical malpractice	\$121,769,332	\$142,470,118	\$192,395,545	\$115,428,750	\$135,051,638	\$182,377,425
(C) Claim Expense Reserves	2,335,958	2,662,992	3,387,139	2,212,557	2,522,315	3,208,208
(D) Subtotal	\$136,740,892	\$159,537,697	\$214,104,307	\$129,373,073	\$150,948,166	\$202,596,694
II. General Government						
(Ei) WC - Indemnity	59,655,276	68,007,015	86,500,150	56,124,199	63,981,587	81,380,089
(Eii) WC - Medical	23,303,169	26,565,613	33,789,595	21,920,201	24,989,029	31,784,291
(E) Workers compensation	\$82,958,445	\$94,572,627	\$120,289,745	\$78,044,400	\$88,970,616	\$113,164,380
(F) General liability	1,198,012	1,365,734	1,737,117	1,168,266	1,331,823	1,693,986
(G) Automobile liability	3,455,811	3,939,625	5,010,926	3,370,539	3,842,414	4,887,282
(H) Other liability	133,589,263	156,299,438	211,071,036	127,969,456	149,724,264	202,191,740
(I) Claim Expense Reserves	38,801,079	44,233,231	56,261,565	37,208,394	42,417,570	53,952,172
(J) Subtotal	\$260,002,610	\$300,410,654	\$394,370,389	\$247,761,055	\$286,286,687	\$375,889,559
Total	\$396,743,502	\$459,948,351	\$608,474,696	\$377,134,128	\$437,234,853	\$578,486,253

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

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$9,330,382	\$10,636,635	\$13,529,054	\$8,653,729	\$9,865,251	\$12,547,907
(Aii) WC - Medical	2,989,222	3,407,713	4,334,372	2,777,336	3,166,163	4,027,137
(A) Workers compensation	\$12,319,604	\$14,044,349	\$17,863,426	\$11,431,065	\$13,031,414	\$16,575,044
(Bi) Cermak	7,403,948	8,662,619	11,698,238	7,016,561	8,209,376	11,086,166
(Bii) John H. Stroger	108,478,107	126,919,385	171,395,409	102,914,697	120,410,195	162,605,221
(Biii) Oak Forest	550,014	643,516	869,022	527,775	617,497	833,885
(Biv) Provident	6,059,100	7,089,147	9,573,378	5,750,827	6,728,468	9,086,307
(Bv) Unspecified	285,845	334,439	451,635	271,821	318,031	429,477
(B) Medical malpractice	\$122,777,014	\$143,649,106	\$193,987,682	\$116,481,681	\$136,283,567	\$184,041,056
(C) Claim Expense Reserves	2,355,289	2,685,029	3,415,169	2,230,867	2,543,188	3,234,757
(D) Subtotal	\$137,451,907	\$160,378,484	\$215,266,277	\$130,143,613	\$151,858,169	\$203,850,857
II. General Government						
(Ei) WC - Indemnity	62,528,489	71,282,477	90,666,309	58,831,540	67,067,956	85,305,733
(Eii) WC - Medical	23,633,793	26,942,524	34,269,000	22,198,803	25,306,635	32,188,264
(E) Workers compensation	\$86,162,282	\$98,225,001	\$124,935,309	\$81,030,343	\$92,374,591	\$117,493,997
(F) General liability	1,107,261	1,262,278	1,605,528	1,078,859	1,229,899	1,564,346
(G) Automobile liability	3,258,441	3,714,623	4,724,739	3,176,821	3,621,576	4,606,390
(H) Other liability	135,373,191	158,386,633	213,889,642	129,796,790	151,862,244	205,078,928
(I) Claim Expense Reserves	39,220,912	44,711,839	56,870,322	37,610,994	42,876,533	54,535,941
(J) Subtotal	\$265,122,087	\$306,300,375	\$402,025,541	\$252,693,807	\$291,964,843	\$383,279,602
Total	\$402,573,994	\$466,678,859	\$617,291,818	\$382,837,419	\$443,823,012	\$587,130,459



Estimated Outstanding Losses

Footnotes:

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

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

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

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

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

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

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

Section I, C is from Summary Exhibit 7.

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

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

Section II, F is from Exhibit GL-11.

Section II, G is from Exhibit AL-11.

Section II, H is from Exhibit OL-11.

Section II, I is from Summary Exhibit 7.



COOK COUNTY, ILLINOIS
SUMMARY EXHIBITS

Summary Exhibit 2

Comparison of Estimated Outstanding Losses

	As of November 30, 2014			As of November 30, 2015			Change		
	Case Reserves	IBNR	Total	Case Reserves	IBNR	Total	Case Reserves	IBNR	Total
I. Health Care Facilities									
(Ai) WC - Indemnity	\$6,927,256	\$3,126,787	\$10,054,043	\$6,998,727	\$3,178,412	\$10,177,139	\$71,471	\$51,625	\$123,097
(Aii) WC - Medical	1,305,838	803,340	2,109,178	2,069,275	988,425	3,057,701	763,437	185,085	948,522
(A) Workers compensation	\$8,233,094	\$3,930,127	\$12,163,221	\$9,068,002	\$4,166,837	\$13,234,840	\$834,908	\$236,710	\$1,071,619
(Bi) Cermak	3,670,000	4,980,000	8,650,000	1,165,000	5,537,000	6,702,000	-2,505,000	557,000	-1,948,000
(Bii) John H. Stroger	68,897,000	45,800,501	114,697,501	66,360,000	39,240,501	105,600,501	-2,537,000	-6,560,000	-9,097,000
(Biii) Oak Forest	550,000	1,200,000	1,750,000	300,000	523,500	823,500	-250,000	-676,500	-926,500
(Biv) Provident	3,450,000	4,850,000	8,300,000	6,350,000	2,860,000	9,210,000	2,900,000	-1,990,000	910,000
(Bv) Unspecified	1,010,500	689,500	1,700,000	0	300,000	300,000	-1,010,500	-389,500	-1,400,000
(B) Medical malpractice	\$77,577,500	\$57,520,001	\$135,097,501	\$74,175,000	\$48,461,001	\$122,636,001	-\$3,402,500	-\$9,059,000	-\$12,461,500
(C) Claim Expense Reserves		2,407,719	2,407,719		2,352,584	2,352,584	0	-55,135	-55,135
(D) Subtotal	\$85,810,594	\$63,857,847	\$149,668,441	\$83,243,002	\$54,980,422	\$138,223,425	-\$2,567,592	-\$8,877,425	-\$11,445,016
II. General Government									
(Ei) WC - Indemnity	28,289,104	25,627,230	53,916,333	29,596,767	26,753,785	56,350,551	1,307,663	1,126,555	2,434,218
(Eii) WC - Medical	6,847,719	7,101,855	13,949,574	15,299,001	8,609,922	23,908,923	8,451,282	1,508,067	9,959,349
(E) Workers compensation	\$35,136,823	\$32,729,085	\$67,865,908	\$44,895,768	\$35,363,706	\$80,259,474	\$9,758,945	\$2,634,622	\$12,393,566
(F) General liability	662,400	866,271	1,528,671	591,250	864,529	1,455,779	-71,150	-1,742	-72,892
(G) Automobile liability	8,369,250	2,181,449	10,550,699	7,569,800	2,324,577	9,894,377	-799,450	143,128	-656,322
(H) Other liability	63,051,950	42,533,531	105,585,481	84,792,000	47,445,765	132,237,765	21,740,050	4,912,234	26,652,284
(I) Claim Expense Reserves		32,649,221	32,649,221		40,301,230	40,301,230	0	7,652,009	7,652,009
(J) Subtotal	\$107,220,423	\$110,959,557	\$218,179,980	\$137,848,818	\$126,299,807	\$264,148,625	\$30,628,395	\$15,340,250	\$45,968,645
Total	\$193,031,017	\$174,817,404	\$367,848,421	\$221,091,820	\$181,280,230	\$402,372,050	\$28,060,803	\$6,462,826	\$34,523,629



COOK COUNTY, ILLINOIS
SUMMARY EXHIBITS

Summary Exhibit 3 (page 1)

Projected Ultimate Losses

A. 2015/16 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$2,279,000	\$2,666,430	\$3,600,820	\$2,138,000	\$2,501,460	\$3,378,040
(Aii) WC - Medical	1,235,000	1,444,950	1,951,300	1,176,000	1,375,920	1,858,080
(A) Workers compensation	\$3,514,000	\$4,111,380	\$5,552,120	\$3,314,000	\$3,877,380	\$5,236,120
(Bi) Cermak	1,184,000	1,420,800	2,083,840	1,068,000	1,281,600	1,879,680
(Bii) John H. Stroger	17,919,000	21,502,800	31,537,440	16,165,000	19,398,000	28,450,400
(Biii) Oak Forest	31,000	37,200	54,560	28,000	33,600	49,280
(Biv) Provident	917,000	1,100,400	1,613,920	828,000	993,600	1,457,280
(Bv) Unspecified	24,000	28,800	42,240	21,000	25,200	36,960
(B) Medical malpractice	\$20,075,000	\$24,090,000	\$35,332,000	\$18,110,000	\$21,732,000	\$31,873,600
(C) Subtotal	\$23,589,000	\$28,201,380	\$40,884,120	\$21,424,000	\$25,609,380	\$37,109,720
II. General Government						
(Di) WC - Indemnity	15,317,000	17,920,890	24,200,860	14,342,000	16,780,140	22,660,360
(Dii) WC - Medical	10,092,000	11,807,640	15,945,360	9,610,000	11,243,700	15,183,800
(D) Workers compensation	\$25,409,000	\$29,728,530	\$40,146,220	\$23,952,000	\$28,023,840	\$37,844,160
(E) General liability	402,000	470,340	635,160	382,000	446,940	603,560
(F) Automobile liability	1,563,000	1,828,710	2,469,540	1,501,000	1,756,170	2,371,580
(G) Other liability	18,274,000	21,928,800	32,162,240	16,743,000	20,091,600	29,467,680
(H) Subtotal	\$45,648,000	\$53,956,380	\$75,413,160	\$42,578,000	\$50,318,550	\$70,286,980
Total	\$69,237,000	\$82,157,760	\$116,297,280	\$64,002,000	\$75,927,930	\$107,396,700

B. 2016/17 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$2,313,000	\$2,706,210	\$3,654,540	\$2,170,000	\$2,538,900	\$3,428,600
(Aii) WC - Medical	1,284,000	1,502,280	2,028,720	1,223,000	1,430,910	1,932,340
(A) Workers compensation	\$3,597,000	\$4,208,490	\$5,683,260	\$3,393,000	\$3,969,810	\$5,360,940
(Bi) Cermak	1,231,000	1,477,200	2,166,560	1,111,000	1,333,200	1,955,360
(Bii) John H. Stroger	18,636,000	22,363,200	32,799,360	16,811,000	20,173,200	29,587,360
(Biii) Oak Forest	32,000	38,400	56,320	29,000	34,800	51,040
(Biv) Provident	954,000	1,144,800	1,679,040	861,000	1,033,200	1,515,360
(Bv) Unspecified	25,000	30,000	44,000	22,000	26,400	38,720
(B) Medical malpractice	\$20,878,000	\$25,053,600	\$36,745,280	\$18,834,000	\$22,600,800	\$33,147,840
(C) Subtotal	\$24,475,000	\$29,262,090	\$42,428,540	\$22,227,000	\$26,570,610	\$38,508,780
II. General Government						
(Di) WC - Indemnity	15,546,000	18,188,820	24,562,680	14,557,000	17,031,690	23,000,060
(Dii) WC - Medical	10,495,000	12,279,150	16,582,100	9,994,000	11,692,980	15,790,520
(D) Workers compensation	\$26,041,000	\$30,467,970	\$41,144,780	\$24,551,000	\$28,724,670	\$38,790,580
(E) General liability	418,000	489,060	660,440	397,000	464,490	627,260
(F) Automobile liability	1,617,000	1,891,890	2,554,860	1,554,000	1,818,180	2,455,320
(G) Other liability	19,005,000	22,806,000	33,448,800	17,413,000	20,895,600	30,646,880
(H) Subtotal	\$47,081,000	\$55,654,920	\$77,808,880	\$43,915,000	\$51,902,940	\$72,520,040
Total	\$71,556,000	\$84,917,010	\$120,237,420	\$66,142,000	\$78,473,550	\$111,028,820

C. 2017/18 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$2,347,000	\$2,745,990	\$3,708,260	\$2,203,000	\$2,577,510	\$3,480,740
(Aii) WC - Medical	1,336,000	1,563,120	2,110,880	1,272,000	1,488,240	2,009,760
(A) Workers compensation	\$3,683,000	\$4,309,110	\$5,819,140	\$3,475,000	\$4,065,750	\$5,490,500
(Bi) Cermak	1,281,000	1,537,200	2,254,560	1,155,000	1,386,000	2,032,800
(Bii) John H. Stroger	19,381,000	23,257,200	34,110,560	17,484,000	20,980,800	30,771,840
(Biii) Oak Forest	33,000	39,600	58,080	30,000	36,000	52,800
(Biv) Provident	992,000	1,190,400	1,745,920	895,000	1,074,000	1,575,200
(Bv) Unspecified	26,000	31,200	45,760	23,000	27,600	40,480
(B) Medical malpractice	\$21,713,000	\$26,055,600	\$38,214,880	\$19,587,000	\$23,504,400	\$34,473,120
(C) Subtotal	\$25,396,000	\$30,364,710	\$44,034,020	\$23,062,000	\$27,570,150	\$39,963,620
II. General Government						
(Di) WC - Indemnity	15,779,000	18,461,430	24,930,820	14,342,000	16,780,140	22,660,360
(Dii) WC - Medical	10,915,000	12,770,550	17,245,700	10,394,000	12,160,980	16,422,520
(D) Workers compensation	\$26,694,000	\$31,231,980	\$42,176,520	\$24,736,000	\$28,941,120	\$39,082,880
(E) General liability	434,000	507,780	685,720	413,000	483,210	652,540
(F) Automobile liability	1,674,000	1,958,580	2,644,920	1,608,000	1,881,360	2,540,640
(G) Other liability	19,765,000	23,718,000	34,786,400	18,109,000	21,730,800	31,871,840
(H) Subtotal	\$48,567,000	\$57,416,340	\$80,293,560	\$45,966,000	\$55,236,500	\$75,734,200
Total	\$73,963,000	\$87,781,050	\$124,327,580	\$69,028,000	\$83,806,650	\$114,717,020



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.



COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE AND LIABILITY

Summary Exhibit 4

Split of Liability Losses Among Healthcare and Government

	Coverage (1)	Total (2)	Healthcare (3)	Government (4)
1. 2014/15 Payments				
General liability		\$224,435	\$117,751	\$106,684
Automobile liability		1,016,676	620	1,016,056
Other liability		5,511,473	953,050	4,558,423
Average		\$2,250,861	\$357,140	\$1,893,721
2. 11/30/15 Case Reserves				
General liability		\$591,250	\$325,850	\$265,400
Automobile liability		7,569,800	1,000,000	6,569,800
Other liability		84,792,000	16,896,000	67,896,000
Average		\$30,984,350	\$6,073,950	\$24,910,400
3. Ratio to Total				
	Payments		15.9%	84.1%
	Case Reserves		19.6%	80.4%
	Prior		10.0%	90.0%
	Selected		12.5%	87.5%
4. Estimated Outstanding Losses				
Estimated Outstanding Losses as of 11/30/15				
a. General Liability		\$1,455,779	\$181,972	\$1,273,807
b. Automobile Liability		9,894,377	1,236,797	8,657,580
c. Other Liability		132,237,765	16,529,721	115,708,044
Estimated Outstanding Losses as of 11/30/16				
a. General Liability		\$1,198,012	\$149,752	\$1,048,261
b. Automobile Liability		3,455,811	431,976	3,023,835
c. Other Liability		133,589,263	16,698,658	116,890,605
Estimated Outstanding Losses as of 11/30/17				
a. General Liability		\$1,107,261	\$138,408	\$968,853
b. Automobile Liability		3,258,441	407,305	2,851,136
c. Other Liability		135,373,191	16,921,649	118,451,542
5. Projected Ultimate Losses				
2015/16				
a. General Liability		\$402,000	\$50,250	\$351,750
b. Automobile Liability		1,563,000	195,375	1,367,625
c. Other Liability		18,274,000	2,284,250	15,989,750
2016/17				
a. General Liability		\$418,000	\$52,250	\$365,750
b. Automobile Liability		1,617,000	202,125	1,414,875
c. Other Liability		19,005,000	2,375,625	16,629,375
2017/18				
a. General Liability		\$434,000	\$54,250	\$379,750
b. Automobile Liability		1,674,000	209,250	1,464,750
c. Other Liability		19,765,000	2,470,625	17,294,375



COOK COUNTY, ILLINOIS
SUMMARY EXHIBITS

Summary Exhibit 5

Actual and Projected Paid Losses (\$Millions)

	Actual Limited Paid Losses 2011/12	Actual Limited Paid Losses 2012/13	Actual Limited Paid Losses 2013/14	Actual Limited Paid Losses 2014/15	Average Paid Losses 2011/12 to 2014/15	Projected Paid Losses 2015/16	Projected Paid Losses 2016/17	Projected Paid Losses 2017/18
I. Health Care Facilities								
(Ai) WC - Indemnity	\$1.87	\$1.65	\$2.41	\$2.41	\$2.08	\$2.80	\$2.64	\$2.54
(Aii) WC - Medical	0.70	0.78	1.06	1.37	0.98	1.32	1.27	1.27
(A) Workers compensation	\$2.57	\$2.42	\$3.48	\$3.78	\$3.06	\$4.11	\$3.91	\$3.81
(Bi) Cermak	0.00	1.00	0.05	1.00	0.51	0.74	0.98	1.19
(Bii) John H. Stroger	3.14	27.39	12.04	24.76	16.83	16.53	17.15	19.67
(Biii) Oak Forest	0.00	0.10	0.00	0.18	0.07	0.19	0.15	0.14
(Biv) Provident	0.60	0.80	0.00	0.37	0.44	3.46	1.56	1.11
(Bv) Unspecified	0.00	0.00	0.00	0.00	0.00	0.03	0.04	0.05
(B) Medical malpractice	\$3.74	\$29.29	\$12.08	\$26.30	\$17.85	\$20.94	\$19.87	\$22.15
(C) Subtotal	\$6.31	\$31.72	\$15.56	\$30.09	\$20.92	\$25.05	\$23.78	\$25.96
II. General Government								
(Di) WC - Indemnity	10.73	10.13	12.87	12.30	11.51	12.01	12.67	13.19
(Dii) WC - Medical	6.84	6.34	6.80	7.60	6.90	10.70	10.16	10.32
(D) Workers compensation	\$17.57	\$16.47	\$19.68	\$19.90	\$18.40	\$22.71	\$22.84	\$23.51
(E) General liability	0.40	1.43	0.21	0.22	0.57	0.66	0.51	0.46
(F) Automobile liability	3.92	0.24	1.15	1.02	1.58	8.00	1.81	1.69
(G) Other liability	13.86	8.25	7.96	5.51	8.90	16.92	17.22	17.39
(H) Subtotal	\$35.75	\$26.39	\$29.00	\$26.65	\$29.45	\$48.29	\$42.38	\$43.04
Total	\$42.06	\$58.10	\$44.56	\$56.73	\$50.36	\$73.35	\$66.16	\$69.00

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.



COOK COUNTY, ILLINOIS
SUMMARY EXHIBITS

Summary Exhibit 6

Projected Ultimate Limited Losses (\$Millions)

	Projected Ultimate Limited Losses 2011/12	Projected Ultimate Limited Losses 2012/13	Projected Ultimate Limited Losses 2013/14	Projected Ultimate Limited Losses 2014/15	Average Ultimate Limited Losses 2011/12 to 2014/15	Projected Ultimate Limited Losses 2015/16	Projected Ultimate Limited Losses 2016/17	Projected Ultimate Limited Losses 2017/18
I. Health Care Facilities								
(Ai) WC - Indemnity	\$2.12	\$2.43	\$2.38	\$1.60	\$2.13	\$2.28	\$2.31	\$2.35
(Aii) WC - Medical	1.15	1.04	1.32	1.30	1.20	1.24	1.28	1.34
(A) Workers compensation	\$3.26	\$3.46	\$3.69	\$2.90	\$3.33	\$3.51	\$3.60	\$3.68
(Bi) Cermak	0.75	1.25	1.50	1.75	1.31	1.18	1.23	1.28
(Bii) John H. Stroger	41.50	35.00	15.50	18.00	27.50	17.92	18.64	19.38
(Biii) Oak Forest	0.13	0.10	0.10	0.09	0.10	0.03	0.03	0.03
(Biv) Provident	2.50	2.10	1.30	1.00	1.73	0.92	0.95	0.99
(Bv) Unspecified	0.05	0.05	0.08	0.10	0.07	0.02	0.03	0.03
(B) Medical malpractice	\$44.93	\$38.50	\$18.48	\$20.94	\$30.71	\$20.08	\$20.88	\$21.71
(C) Subtotal	\$48.19	\$41.96	\$22.17	\$23.84	\$34.04	\$23.59	\$24.48	\$25.40
II. General Government								
(Di) WC - Indemnity	14.00	12.35	14.50	14.50	13.84	15.32	15.55	15.78
(Dii) WC - Medical	6.22	6.45	10.02	12.50	8.80	10.09	10.50	10.92
(D) Workers compensation	\$20.22	\$18.80	\$24.52	\$27.00	\$22.64	\$25.41	\$26.04	\$26.69
(E) General liability	0.45	0.60	0.50	0.40	0.49	0.40	0.42	0.43
(F) Automobile liability	0.70	0.80	1.65	1.20	1.09	1.56	1.62	1.67
(G) Other liability	12.00	23.00	22.00	18.00	18.75	18.27	19.01	19.77
(H) Subtotal	\$33.37	\$43.20	\$48.67	\$46.60	\$42.96	\$45.65	\$47.08	\$48.57
Total	\$81.56	\$85.16	\$70.84	\$70.44	\$77.00	\$69.24	\$71.56	\$73.96

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.



COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE AND LIABILITY

Summary Exhibit 7

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
	Average	\$6,842,977	\$665,019	\$6,177,958
2. Average FY 2001-2014 Loss Payments		\$36,805,329	\$23,447,337	\$13,357,993
3. Ratio of Expense Payments to Loss Payments (Section 1 / Section 2)		Actual	2.84%	46.25%
		Prior	2.50%	40.00%
		Selected	2.75%	41.50%
4. Case Reserves as of 11/30/15		\$167,128,050	\$74,175,000	\$92,953,050
5. IBNR Reserves as of 11/30/15		99,095,873	48,461,001	50,634,872
6. Estimated Undiscounted Expense Reserves as of 11/30/15		42,653,813	2,352,584	40,301,230
7. Discount Factor		0.958	0.947	0.959
8. Estimated Discounted Expense Reserves as of 11/30/15		40,875,272	2,228,305	38,646,967
9. Estimated Outstanding Losses as of 11/30/16		260,012,418	121,769,332	138,243,086
9a. Estimated Case Reserves as of 11/30/16		163,143,823	73,650,805	89,493,018
9b. Estimated IBNR Reserves as of 11/30/16		96,868,595	48,118,527	48,750,068
10. Estimated Undiscounted Expense Reserves as of 11/30/16		41,137,037	2,335,958	38,801,079
11. Estimated Discounted Expense Reserves as of 11/30/16		39,420,951	2,212,557	37,208,394
12. Estimated Outstanding Losses as of 11/30/17		262,515,907	122,777,014	139,738,893
12a. Estimated Case Reserves as of 11/30/17		164,721,634	74,260,290	90,461,344
12b. Estimated IBNR Reserves as of 11/30/17		97,794,273	48,516,724	49,277,549
13. Estimated Undiscounted Expense Reserves as of 11/30/17		41,576,201	2,355,289	39,220,912
14. Estimated Discounted Expense Reserves as of 11/30/17		39,841,860	2,230,867	37,610,994

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, 2015

Claim Period (1)	Limited Paid Losses 11/30/15 (2)	Limited Case Reserves 11/30/15 (3)	Limited Reported Incurred Losses 11/30/15 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/15 (5)-(4) (6)	Estimated Outstanding Losses 11/30/15 (3) + (6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/15 (7) x (8) (9)
to 1995/96	\$205,462,126	\$0	\$205,462,126	\$205,462,126	\$0	\$0	1.00	\$0
1996/97	15,627,700	0	15,627,700	15,627,700	0	0	1.00	0
1997/98	42,341,900	0	42,341,900	42,341,900	0	0	1.00	0
1998/99	11,175,000	3,000,000	14,175,000	14,475,000	300,000	3,300,000	1.00	3,300,000
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	0.99	0
2005/06	24,224,320	2,000,000	26,224,320	26,424,320	200,000	2,200,000	0.99	2,169,417
2006/07	4,766,100	0	4,766,100	4,766,100	0	0	0.98	0
2007/08	8,427,000	0	8,427,000	8,950,000	523,000	523,000	0.98	510,993
2008/09	5,330,000	3,150,000	8,480,000	10,583,500	2,103,500	5,253,500	0.97	5,109,792
2009/10	10,437,500	1,950,000	12,387,500	13,950,000	1,562,500	3,512,500	0.97	3,392,167
2010/11	4,878,000	6,555,000	11,433,000	15,125,000	3,692,000	10,247,000	0.97	9,902,032
2011/12	24,389,999	15,065,000	39,454,999	44,925,000	5,470,001	20,535,001	0.96	19,681,738
2012/13	850,000	28,300,000	29,150,000	38,500,000	9,350,000	37,650,000	0.95	35,653,918
2013/14	0	7,155,000	7,155,000	18,475,000	11,320,000	18,475,000	0.93	17,230,533
2014/15	0	7,000,000	7,000,000	20,940,000	13,940,000	20,940,000	0.92	19,206,958
Total	\$502,252,535	\$74,175,000	\$576,427,535	\$624,888,536	\$48,461,001	\$122,636,001		\$116,157,548



COOK COUNTY, ILLINOIS
SUMMARY EXHIBITS

Summary of Loss Payments

Claim Period (1)	Workers Compensation (2)	Liability Common Claims (3)	Medical Malpractice (Excluding Large Claims) (4)	Liability Catastrophe Claims and Med Mal Claims (5)	Total (6)
I. Actual Payments					
1995/96	\$10,993,178	\$2,423,315	\$17,479,600	\$750,000	\$31,646,093
1996/97	8,868,321	3,072,412	6,189,500	0	18,130,233
1997/98	9,055,271	2,956,966	23,423,000	0	35,435,237
1998/99	9,294,766	3,339,344	19,898,900	15,772,220	48,305,230
1999/00	9,777,906	3,779,701	36,918,877	11,635,555	62,112,039
2000/01	10,377,014	3,842,381	30,313,000	17,894,722	62,427,117
2001/02	11,711,329	1,231,819	21,071,700	2,975,000	36,989,848
2002/03	11,743,398	2,184,184	28,420,541	5,200,000	47,548,123
2003/04	14,846,640	3,467,845	17,786,500	625,000	36,725,985
2004/05	16,136,301	2,754,958	13,779,500	17,750,000	50,420,759
2005/06	16,824,867	2,573,671	16,605,040	29,567,543	65,571,121
2006/07	16,278,694	7,784,841	24,334,820	16,760,000	65,158,355
2007/08	19,695,589	9,983,268	22,141,450	29,450,250	81,270,557
2008/09	24,349,162	8,530,865	16,469,000	0	49,349,027
2009/10	19,238,537	12,743,402	16,758,000	0	48,739,939
2010/11	21,648,616	6,855,702	18,765,000	44,634,001	91,903,319
2011/12	20,142,760	18,175,329	3,740,000	0	42,058,088
2012/13	18,890,070	9,919,330	9,292,499	20,000,000	58,101,899
2013/14	23,156,358	9,323,194	12,080,000	0	44,559,552
2014/15	23,678,804	6,752,584	14,303,000	12,000,000	56,734,388
II. Estimated Future Payments					
2015/16	26,823,265	25,583,835	20,941,669		73,348,769
2016/17	26,750,161	19,544,193	19,870,318		66,164,672
2017/18	27,316,609	19,530,331	22,153,597		69,000,537

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.



COOK COUNTY, ILLINOIS
SUMMARY EXHIBITS

Summary Exhibit 10

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 11/30/14 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Estimated Outstanding Losses 11/30/14 (6) - (9)	Estimated Outstanding Losses 11/30/15 (7) - (10)	Projected Ultimate Limited Losses 11/30/14 (6)	Projected Ultimate Limited Losses 11/30/15 (7)	Change in Ultimate (7) - (6) (8)	Percentage Change in Ultimate (7) / (6) - 1 (9)	Limited Paid Losses 11/30/14 (10)	Limited Paid Losses 11/30/15 (11)	Limited Case Reserves 11/30/14 (2) - (10) (12)	Limited Case Reserves 11/30/15 (3) - (11) (13)	Estimated IBNR 11/30/14 (4)-(12) (14)	Estimated IBNR 11/30/15 (5)-(13) (15)
A. Health Care Facilities														
(Ai) WC - Indemnity	\$72,779	\$75,259	\$10,054	\$10,177	\$78,193	\$78,438	\$245	0.3%	\$65,852	\$68,261	\$6,927	\$6,999	\$3,127	\$3,178
(Aii) WC - Medical	27,898	30,035	2,109	3,058	29,831	31,024	1,193	4.0%	26,592	27,966	1,306	2,069	803	988
(Bi) Cermak	22,558	21,056	8,650	6,702	29,606	26,593	(3,013)	-10.2%	18,888	19,891	3,670	1,165	4,980	5,537
(Bii) John H. Stroger	428,720	450,943	114,698	105,601	492,215	490,184	(2,031)	-0.4%	359,823	384,583	68,897	66,360	45,801	39,241
(Biii) Oak Forest	27,375	27,300	1,750	824	28,665	27,824	(842)	-2.9%	26,825	27,000	550	300	1,200	524
(Biv) Provident	28,590	31,855	8,300	9,210	34,204	34,715	511	1.5%	25,140	25,505	3,450	6,350	4,850	2,860
(Bv) Unspecified	46,284	45,274	1,700	300	47,107	45,574	(1,533)	-3.3%	45,274	45,274	1,011	-	690	300
B. General Government														
(Ei) WC - Indemnity	202,551	216,156	53,916	56,351	242,169	242,910	741	0.3%	174,262	186,559	28,289	29,597	25,627	26,754
(Eii) WC - Medical	113,497	129,547	13,950	23,909	130,053	138,157	8,104	6.2%	106,649	114,248	6,848	15,299	7,102	8,610
(F) General liability	10,089	10,242	1,529	1,456	11,360	11,106	(253)	-2.2%	9,426	9,651	662	591	866	865
(G) Automobile liability	31,588	31,806	10,551	9,894	35,378	34,130	(1,248)	-3.5%	23,219	24,236	8,369	7,570	2,181	2,325
(H) Other liability	242,209	269,461	105,585	132,238	301,475	316,906	15,432	5.1%	179,157	184,669	63,052	84,792	42,534	47,446
Total	\$1,254,138	\$1,338,933	\$332,791	\$359,718	\$1,460,254	\$1,477,560	\$17,306	1.2%	\$1,061,107	\$1,117,842	\$193,031	\$221,092	\$139,760	\$138,626



COOK COUNTY, ILLINOIS
SUMMARY EXHIBITS

Summary Exhibit 11

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 11/30/14 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Estimated Outstanding Losses 11/30/14 (6) - (9)	Estimated Outstanding Losses 11/30/15 (7) - (10)	Projected Ultimate Limited Losses 11/30/14 (6)	Projected Ultimate Limited Losses 11/30/15 (7)	Change in Ultimate (7) - (6) (8)	Percentage Change in Ultimate (7) / (6) - 1 (9)	Limited Paid Losses 11/30/14 (10)	Limited Paid Losses 11/30/15 (11)	Limited Case Reserves 11/30/14 (2) - (10) (12)	Limited Case Reserves 11/30/15 (3) - (11) (13)	Estimated IBNR 11/30/14 (4)-(12) (14)	Estimated IBNR 11/30/15 (5)-(13) (15)
to 1995/96	\$383,746	\$382,065	\$10,582	\$3,253	\$384,254	\$382,400	(\$1,853)	-0.5%	\$373,672	\$379,148	\$10,074	\$2,918	\$508	\$335
1996/97	27,555	27,555	154	108	27,569	27,567	(2)	0.0%	27,416	27,459	140	96	14	12
1997/98	53,753	53,765	251	197	53,776	53,799	23	0.0%	53,524	53,602	229	163	23	34
1998/99	29,675	30,176	3,640	4,151	30,007	30,558	552	1.8%	26,366	26,408	3,309	3,768	332	383
1999/00	54,524	54,513	310	311	54,553	54,570	17	0.0%	54,242	54,259	282	254	29	56
2000/01	44,461	44,909	1,021	1,047	44,554	45,002	448	1.0%	43,534	43,955	928	954	93	93
2001/02	59,484	56,387	4,811	1,443	59,922	56,589	(3,332)	-5.6%	55,111	55,146	4,374	1,241	437	202
2002/03	30,625	30,544	802	647	30,739	30,672	(67)	-0.2%	29,937	30,024	688	520	114	128
2003/04	121,637	122,640	1,713	2,850	121,953	123,237	1,285	1.1%	120,239	120,387	1,397	2,253	316	597
2004/05	69,237	64,949	18,783	15,548	71,017	68,007	(3,010)	-4.2%	52,234	52,459	17,002	12,489	1,780	3,058
2005/06	48,115	48,076	17,143	3,717	50,070	48,828	(1,242)	-2.5%	32,927	45,111	15,189	2,965	1,955	752
2006/07	36,350	34,309	6,656	2,148	39,013	34,852	(4,161)	-10.7%	32,357	32,704	3,993	1,605	2,663	543
2007/08	48,300	44,677	16,093	8,721	53,620	47,790	(5,830)	-10.9%	37,527	39,069	10,773	5,608	5,320	3,113
2008/09	37,671	36,844	16,599	9,733	42,997	40,389	(2,609)	-6.1%	26,398	30,655	11,273	6,189	5,326	3,544
2009/10	50,839	61,910	33,055	34,214	60,685	67,809	7,124	11.7%	27,630	33,595	23,209	28,315	9,846	5,899
2010/11	33,520	49,251	28,570	34,780	47,122	57,489	10,367	22.0%	18,552	22,709	14,968	26,542	13,602	8,238
2011/12	73,854	67,997	55,244	39,959	90,293	81,560	(8,733)	-9.7%	35,049	41,601	38,805	26,396	16,439	13,563
2012/13	31,739	64,401	51,875	71,340	61,581	85,164	23,583	38.3%	9,706	13,824	22,033	50,577	29,842	20,763
2013/14	19,053	40,745	65,489	59,911	70,175	70,837	662	0.9%	4,686	10,926	14,367	29,819	51,122	30,092
2014/15		23,219		65,641	66,355	70,440	4,085	6.2%		4,799		18,420		47,221
Total	\$1,254,138	\$1,338,933	\$332,791	\$359,718	\$1,460,254	\$1,477,560	\$17,306	1.2%	\$1,061,107	\$1,117,842	\$193,031	\$221,092	\$139,760	\$138,626
Total (ex FY15)	\$1,254,138	\$1,315,714	\$332,791	\$294,077	\$1,393,899	\$1,407,120	\$13,221	0.9%	\$1,061,107	\$1,113,043	\$193,031	\$202,672	\$139,760	\$91,406



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

Summary Exhibit 12

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/14 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Estimated Outstanding Losses 11/30/14 (6) - (9) (4)	Estimated Outstanding Losses 11/30/15 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/14 (6)	Projected Ultimate Limited Losses 11/30/15 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/14 (9)	Limited Paid Losses 11/30/15 (10)	Limited Case Reserves 11/30/14 (2) - (9) (11)	Limited Case Reserves 11/30/15 (3) - (10) (12)	Estimated IBNR 11/30/14 (4)-(11) (13)	Estimated IBNR 11/30/15 (5)-(12) (14)
to 1995/96	\$37,864	\$38,368	\$1,124	\$1,445	\$37,966	\$38,500	\$534	\$36,842	\$37,055	\$1,022	\$1,314	\$102	\$132
1996/97	3,566	3,566	99	52	3,575	3,571	(4)	3,476	3,519	90	47	9	5
1997/98	1,312	1,312	7	7	1,312	1,312	0	1,306	1,306	6	6	1	1
1998/99	2,631	2,631	295	256	2,658	2,659	1	2,363	2,403	268	228	27	28
1999/00	1,667	1,655	17	0	1,669	1,655	(14)	1,652	1,655	16	0	2	0
2000/01	1,438	1,438	40	42	1,442	1,444	2	1,402	1,402	37	37	4	6
2001/02	1,110	1,110	17	17	1,111	1,112	1	1,095	1,095	15	15	2	2
2002/03	2,763	2,858	36	134	2,767	2,880	113	2,731	2,746	32	112	4	22
2003/04	1,802	1,801	166	175	1,819	1,834	15	1,653	1,659	150	143	17	33
2004/05	2,819	2,868	969	940	2,926	3,000	74	1,957	2,060	862	808	107	132
2005/06	1,632	1,629	37	16	1,638	1,635	(3)	1,601	1,619	31	10	6	6
2006/07	2,054	2,087	214	210	2,091	2,130	39	1,877	1,920	177	168	37	43
2007/08	1,947	1,826	455	285	2,052	1,890	(162)	1,597	1,605	350	221	105	64
2008/09	1,789	1,802	593	405	1,953	1,900	(53)	1,360	1,495	429	307	164	98
2009/10	1,982	2,172	1,015	820	2,261	2,400	139	1,246	1,580	736	593	279	228
2010/11	1,730	1,788	875	719	1,990	2,000	10	1,115	1,281	614	507	260	212
2011/12	1,772	1,844	1,006	747	2,175	2,115	(60)	1,169	1,368	602	475	403	271
2012/13	1,720	1,979	1,370	1,246	2,300	2,425	125	930	1,179	790	800	580	446
2013/14	1,181	1,764	1,720	1,344	2,200	2,375	175	480	1,031	701	733	1,019	611
2014/15		760		1,317	2,287	1,600	(687)		283		477		840
Total	\$72,779	\$75,259	\$10,054	\$10,177	\$78,193	\$78,438	\$245	\$65,852	\$68,261	\$6,927	\$6,999	\$3,127	\$3,178
Total (ex FY15)	\$72,779	\$74,499	\$10,054	\$8,860	\$75,906	\$76,838	\$932	\$65,852	\$67,977	\$6,927	\$6,522	\$3,127	\$2,338



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

Summary Exhibit 13

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/14 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Estimated Outstanding Losses 11/30/14 (6) - (9) (4)	Estimated Outstanding Losses 11/30/15 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/14 (6)	Projected Ultimate Limited Losses 11/30/15 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/14 (9)	Limited Paid Losses 11/30/15 (10)	Limited Case Reserves 11/30/14 (2) - (9) (11)	Limited Case Reserves 11/30/15 (3) - (10) (12)	Estimated IBNR 11/30/14 (4)-(11) (13)	Estimated IBNR 11/30/15 (5)-(12) (14)
to 1995/96	\$12,515	\$12,538	\$445	\$414	\$12,556	\$12,576	\$20	\$12,111	\$12,162	\$404	\$377	\$40	\$38
1996/97	799	799	16	16	800	800	(0)	784	785	14	14	1	1
1997/98	428	428	0	0	428	428	0	428	428	0	0	0	0
1998/99	761	761	45	45	765	765	0	720	720	40	40	4	4
1999/00	954	949	6	0	954	949	(6)	949	949	5	0	1	0
2000/01	835	835	0	0	835	835	0	835	835	0	0	0	0
2001/02	702	702	0	0	702	702	0	702	702	0	0	0	0
2002/03	1,061	1,076	5	21	1,061	1,078	17	1,056	1,057	5	19	0	2
2003/04	1,104	1,430	0	358	1,104	1,463	359	1,104	1,105	0	325	0	33
2004/05	1,443	1,443	17	8	1,444	1,444	(0)	1,428	1,436	15	7	2	1
2005/06	877	877	3	0	880	877	(3)	877	877	0	0	3	0
2006/07	1,033	1,033	4	0	1,037	1,033	(4)	1,033	1,033	0	0	4	0
2007/08	828	872	7	24	835	876	41	828	852	0	20	7	4
2008/09	794	799	34	27	800	805	5	766	778	29	22	6	6
2009/10	741	778	53	45	750	788	38	697	743	43	35	9	10
2010/11	778	787	127	67	850	801	(49)	723	734	55	53	72	14
2011/12	869	1,104	178	150	950	1,147	197	772	997	97	107	81	43
2012/13	769	977	393	228	950	1,039	89	557	811	212	167	181	62
2013/14	608	1,088	777	595	1,000	1,317	317	223	722	385	366	392	229
2014/15		758		1,060	1,129	1,300	171		240		518		542
Total	\$27,898	\$30,035	\$2,109	\$3,058	\$29,831	\$31,024	\$1,193	\$26,592	\$27,966	\$1,306	\$2,069	\$803	\$988
Total (ex FY15)	\$27,898	\$29,277	\$2,109	\$1,998	\$28,702	\$29,724	\$1,022	\$26,592	\$27,726	\$1,306	\$1,551	\$803	\$447



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Summary Exhibit 14

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/14 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Estimated Outstanding Losses 11/30/14 (6) - (9) (4)	Estimated Outstanding Losses 11/30/15 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/14 (6)	Projected Ultimate Limited Losses 11/30/15 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/14 (9)	Limited Paid Losses 11/30/15 (10)	Limited Case Reserves 11/30/14 (2) - (9) (11)	Limited Case Reserves 11/30/15 (3) - (10) (12)	Estimated IBNR 11/30/14 (4)-(11) (13)	Estimated IBNR 11/30/15 (5)-(12) (14)
to 1995/96	\$8,259	\$8,259	\$0	\$0	\$8,259	\$8,259	\$0	\$8,259	\$8,259	\$0	\$0	\$0	\$0
1996/97	0	0	0	0	0	0	0	0	0	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	1,845	1,795	2,025	955	2,070	2,000	(70)	45	1,045	1,800	750	225	205
2010/11	50	3	1,000	497	1,000	500	(500)	0	3	50	0	950	497
2011/12	1,600	15	2,125	750	2,125	750	(1,375)	0	0	1,600	15	525	735
2012/13	220	400	1,750	1,250	1,750	1,250	(500)	0	0	220	400	1,530	850
2013/14	0	0	1,750	1,500	1,750	1,500	(250)	0	0	0	0	1,750	1,500
2014/15	0	0	0	1,750	2,068	1,750	(318)	0	0	0	0	0	1,750
Total	\$22,558	\$21,056	\$8,650	\$6,702	\$29,606	\$26,593	(\$3,013)	\$18,888	\$19,891	\$3,670	\$1,165	\$4,980	\$5,537
Total (ex FY15)	\$22,558	\$21,056	\$8,650	\$4,952	\$27,538	\$24,843	(\$2,695)	\$18,888	\$19,891	\$3,670	\$1,165	\$4,980	\$3,787



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

Summary Exhibit 15

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/14 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Estimated Outstanding Losses 11/30/14 (4) - (9)	Estimated Outstanding Losses 11/30/15 (7) - (10)	Projected Ultimate Limited Losses 11/30/14 (6)	Projected Ultimate Limited Losses 11/30/15 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/14 (9)	Limited Paid Losses 11/30/15 (10)	Limited Case Reserves 11/30/14 (2) - (9) (11)	Limited Case Reserves 11/30/15 (3) - (10) (12)	Estimated IBNR 11/30/14 (4)-(11) (13)	Estimated IBNR 11/30/15 (5)-(12) (14)
to 1995/96	\$156,357	\$156,357	\$5,000	\$0	\$156,357	\$156,357	\$0	\$151,357	\$156,357	\$5,000	\$0	\$0	\$0
1996/97	11,237	11,237	0	0	11,237	11,237	0	11,237	11,237	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	12,880	3,300	3,300	13,180	13,180	0	9,880	9,880	3,000	3,000	300	300
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	13,287	0	23,862	22,575	(1,287)	10,575	22,575	12,000	0	1,287	0
2006/07	4,750	4,750	750	0	5,500	4,750	(750)	4,750	4,750	0	0	750	0
2007/08	9,502	7,002	3,498	498	10,500	7,500	(3,000)	7,002	7,002	2,500	0	998	498
2008/09	9,705	7,955	8,395	5,145	12,500	10,000	(2,500)	4,105	4,855	5,600	3,100	2,795	2,045
2009/10	10,858	9,793	8,193	2,408	15,000	11,000	(4,000)	6,808	8,593	4,050	1,200	4,143	1,208
2010/11	11,055	11,180	13,650	9,125	16,500	14,000	(2,500)	2,850	4,875	8,205	6,305	5,445	2,820
2011/12	37,027	37,325	22,475	17,475	43,300	41,500	(1,800)	20,825	24,025	16,202	13,300	6,273	4,175
2012/13	11,730	27,150	19,150	34,150	20,000	35,000	15,000	850	850	10,880	26,300	8,270	7,850
2013/14	1,460	6,405	17,000	15,500	17,000	15,500	(1,500)	0	0	1,460	6,405	15,540	9,095
2014/15		6,750		18,000	17,694	18,000	306		0		6,750		11,250
Total	\$428,720	\$450,943	\$114,698	\$105,601	\$492,215	\$490,184	(\$2,031)	\$359,823	\$384,583	\$68,897	\$66,360	\$45,801	\$39,241
Total (ex FY15)	\$428,720	\$444,193	\$114,698	\$87,601	\$474,521	\$472,184	(\$2,337)	\$359,823	\$384,583	\$68,897	\$59,610	\$45,801	\$27,991



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Summary Exhibit 16

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/14 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Estimated Outstanding Losses 11/30/14 (6) - (9) (4)	Estimated Outstanding Losses 11/30/15 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/14 (6)	Projected Ultimate Limited Losses 11/30/15 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/14 (9)	Limited Paid Losses 11/30/15 (10)	Limited Case Reserves 11/30/14 (2) - (9) (11)	Limited Case Reserves 11/30/15 (3) - (10) (12)	Estimated IBNR 11/30/14 (4)-(11) (13)	Estimated IBNR 11/30/15 (5)-(12) (14)
to 1995/96	\$2,780	\$2,780	\$0	\$0	\$2,780	\$2,780	\$0	\$2,780	\$2,780	\$0	\$0	\$0	\$0
1996/97	0	0	0	0	0	0	0	0	0	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	350	225	425	59	425	234	(192)	0	175	350	50	75	9
2009/10	200	0	500	50	500	50	(450)	0	0	200	0	300	50
2010/11	0	250	300	300	300	300	0	0	0	0	250	300	50
2011/12	0	0	150	125	150	125	(25)	0	0	0	0	150	125
2012/13	0	0	175	100	175	100	(75)	0	0	0	0	175	100
2013/14	0	0	200	100	200	100	(100)	0	0	0	0	200	100
2014/15	0	0	0	90	90	90	0	0	0	0	0	0	90
Total	\$27,375	\$27,300	\$1,750	\$824	\$28,665	\$27,824	(\$842)	\$26,825	\$27,000	\$550	\$300	\$1,200	\$524
Total (ex FY15)	\$27,375	\$27,300	\$1,750	\$734	\$28,575	\$27,734	(\$842)	\$26,825	\$27,000	\$550	\$300	\$1,200	\$434



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Summary Exhibit 17

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/14 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Estimated Outstanding Losses 11/30/14 (6) - (9)	Estimated Outstanding Losses 11/30/15 (7) - (10)	Projected Ultimate Limited Losses 11/30/14 (6)	Projected Ultimate Limited Losses 11/30/15 (7)	Change in Ultimate (7) - (6)	Limited Paid Losses 11/30/14 (9)	Limited Paid Losses 11/30/15 (10)	Limited Case Reserves 11/30/14 (2) - (9)	Limited Case Reserves 11/30/15 (3) - (10)	Estimated IBNR 11/30/14 (4)-(11)	Estimated IBNR 11/30/15 (5)-(12)
to 1995/96	\$2,844	\$2,844	\$0	\$0	\$2,844	\$2,844	\$0	\$2,844	\$2,844	\$0	\$0	\$0	\$0
1996/97	4,391	4,391	0	0	4,391	4,391	0	4,391	4,391	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	2,000	2,200	2,200	2,200	2,200	0	0	0	2,000	2,000	200	200
2006/07	0	0	0	0	0	0	0	0	0	0	0	0	0
2007/08	300	300	100	25	400	325	(75)	300	300	0	0	100	25
2008/09	300	300	200	50	500	350	(150)	300	300	0	0	200	50
2009/10	800	800	300	100	1,100	900	(200)	800	800	0	0	300	100
2010/11	0	0	500	300	500	300	(200)	0	0	0	0	500	300
2011/12	1,300	2,115	2,000	2,135	2,000	2,500	500	0	365	1,300	1,750	700	385
2012/13	50	1,600	1,300	2,100	1,300	2,100	800	0	0	50	1,600	1,250	500
2013/14	100	750	1,700	1,300	1,700	1,300	(400)	0	0	100	750	1,600	550
2014/15		250		1,000	764	1,000	236		0		250		750
Total	\$28,590	\$31,855	\$8,300	\$9,210	\$34,204	\$34,715	\$511	\$25,140	\$25,505	\$3,450	\$6,350	\$4,850	\$2,860
Total (ex FY15)	\$28,590	\$31,605	\$8,300	\$8,210	\$33,440	\$33,715	\$275	\$25,140	\$25,505	\$3,450	\$6,100	\$4,850	\$2,110



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

Summary Exhibit 18

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/14 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Estimated Outstanding Losses 11/30/14 (6) - (9) (4)	Estimated Outstanding Losses 11/30/15 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/14 (6)	Projected Ultimate Limited Losses 11/30/15 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/14 (9)	Limited Paid Losses 11/30/15 (10)	Limited Case Reserves 11/30/14 (2) - (9) (11)	Limited Case Reserves 11/30/15 (3) - (10) (12)	Estimated IBNR 11/30/14 (4)-(11) (13)	Estimated IBNR 11/30/15 (5)-(12) (14)
to 1995/96	\$35,223	\$35,223	\$0	\$0	\$35,223	\$35,223	\$0	\$35,223	\$35,223	\$0	\$0	\$0	\$0
1996/97	0	0	0	0	0	0	0	0	0	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	1,000	0	1,125	0	1,125	0	(1,125)	0	0	1,000	0	125	0
2010/11	0	0	100	25	100	25	(75)	0	0	0	0	100	25
2011/12	0	0	125	50	125	50	(75)	0	0	0	0	125	50
2012/13	11	0	175	50	175	50	(125)	0	0	11	0	165	50
2013/14	0	0	175	75	175	75	(100)	0	0	0	0	175	75
2014/15	0	0	0	100	133	100	(33)	0	0	0	0	0	100
Total	\$46,284	\$45,274	\$1,700	\$300	\$47,107	\$45,574	(\$1,533)	\$45,274	\$45,274	\$1,011	\$0	\$690	\$300
Total (ex FY15)	\$46,284	\$45,274	\$1,700	\$200	\$46,974	\$45,474	(\$1,500)	\$45,274	\$45,274	\$1,011	\$0	\$690	\$200



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 11/30/14 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Estimated Outstanding Losses 11/30/14 (6) - (9) (4)	Estimated Outstanding Losses 11/30/15 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/14 (6)	Projected Ultimate Limited Losses 11/30/15 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/14 (9)	Limited Paid Losses 11/30/15 (10)	Limited Case Reserves 11/30/14 (2) - (9) (11)	Limited Case Reserves 11/30/15 (3) - (10) (12)	Estimated IBNR 11/30/14 (4)-(11) (13)	Estimated IBNR 11/30/15 (5)-(12) (14)
to 1995/96	\$56,253	\$56,477	\$1,123	\$1,204	\$56,355	\$56,625	\$270	\$55,232	\$55,421	\$1,021	\$1,056	\$102	\$148
1996/97	3,856	3,856	39	40	3,859	3,861	2	3,821	3,821	35	35	4	5
1997/98	3,843	3,844	224	178	3,863	3,876	13	3,639	3,698	204	146	20	32
1998/99	4,263	4,263	0	0	4,263	4,263	0	4,263	4,263	0	0	0	0
1999/00	6,125	6,125	216	239	6,145	6,175	30	5,929	5,936	196	189	20	50
2000/01	7,883	8,086	859	751	7,961	8,150	189	7,102	7,399	781	687	78	64
2001/02	8,750	8,752	1,369	1,411	8,874	8,950	76	7,505	7,539	1,245	1,213	124	198
2002/03	8,262	8,071	761	493	8,372	8,175	(197)	7,611	7,682	651	389	110	104
2003/04	8,474	8,502	1,401	1,344	8,733	8,750	17	7,332	7,406	1,142	1,095	259	248
2004/05	7,705	8,045	444	757	7,800	8,200	400	7,356	7,443	350	602	95	155
2005/06	8,354	8,374	522	432	8,474	8,535	61	7,952	8,103	402	271	120	161
2006/07	10,647	10,794	1,401	1,426	10,984	11,150	166	9,583	9,724	1,065	1,070	337	356
2007/08	11,257	11,696	1,993	1,599	11,813	12,000	187	9,820	10,401	1,437	1,295	556	304
2008/09	12,857	13,048	3,985	2,804	13,980	14,000	20	9,995	11,196	2,863	1,852	1,123	952
2009/10	11,691	12,760	4,774	4,016	13,612	13,750	138	8,838	9,734	2,854	3,026	1,921	990
2010/11	9,128	9,585	4,618	3,381	11,315	11,100	(215)	6,697	7,719	2,431	1,866	2,187	1,515
2011/12	9,845	11,328	7,977	6,840	13,793	14,000	207	5,816	7,160	4,029	4,168	3,948	2,672
2012/13	7,583	8,606	9,538	7,058	12,981	12,350	(631)	3,443	5,292	4,140	3,314	5,398	3,744
2013/14	5,774	8,444	12,671	10,142	15,000	14,500	(500)	2,329	4,358	3,444	4,086	9,226	6,056
2014/15		5,499		12,235	13,991	14,500	509		2,265		3,234		9,001
Total	\$202,551	\$216,156	\$53,916	\$56,351	\$242,169	\$242,910	\$741	\$174,262	\$186,559	\$28,289	\$29,597	\$25,627	\$26,754
Total (ex FY15)	\$202,551	\$210,657	\$53,916	\$44,115	\$228,178	\$228,410	\$232	\$174,262	\$184,295	\$28,289	\$26,362	\$25,627	\$17,753



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

Summary Exhibit 20

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/14 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Estimated Outstanding Losses 11/30/14 (6) - (9) (4)	Estimated Outstanding Losses 11/30/15 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/14 (6)	Projected Ultimate Limited Losses 11/30/15 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/14 (9)	Limited Paid Losses 11/30/15 (10)	Limited Case Reserves 11/30/14 (2) - (9) (11)	Limited Case Reserves 11/30/15 (3) - (10) (12)	Estimated IBNR 11/30/14 (4)-(11) (13)	Estimated IBNR 11/30/15 (5)-(12) (14)
to 1995/96	\$22,499	\$22,569	\$139	\$189	\$22,512	\$22,586	\$74	\$22,374	\$22,397	\$126	\$172	\$13	\$17
1996/97	1,719	1,719	0	0	1,719	1,719	0	1,719	1,719	0	0	0	0
1997/98	1,779	1,790	20	12	1,780	1,791	11	1,760	1,780	19	11	2	1
1998/99	2,504	2,504	0	0	2,504	2,504	0	2,504	2,504	0	0	0	0
1999/00	2,945	2,951	72	72	2,951	2,957	6	2,880	2,886	65	65	7	7
2000/01	4,872	5,017	121	144	4,883	5,030	147	4,762	4,886	110	130	11	13
2001/02	4,546	4,547	4	4	4,546	4,547	1	4,542	4,543	4	4	0	0
2002/03	4,547	4,547	0	0	4,547	4,547	0	4,547	4,547	0	0	0	0
2003/04	4,200	4,352	60	222	4,206	4,384	178	4,146	4,162	55	190	6	32
2004/05	12,166	12,189	28	26	12,168	12,193	25	12,140	12,167	25	22	3	4
2005/06	4,357	4,402	65	108	4,363	4,422	59	4,298	4,314	59	88	6	20
2006/07	5,353	5,469	77	179	5,364	5,506	142	5,287	5,327	66	142	11	37
2007/08	10,291	10,662	140	321	10,320	10,739	419	10,180	10,418	111	244	29	77
2008/09	6,115	6,990	316	741	6,175	7,126	951	5,859	6,385	257	605	60	136
2009/10	6,344	7,192	396	874	6,467	7,396	929	6,071	6,522	272	670	123	204
2010/11	4,739	5,288	460	745	4,967	5,516	549	4,507	4,771	232	517	228	228
2011/12	4,744	5,846	1,095	1,425	5,375	6,223	848	4,280	4,798	463	1,048	631	377
2012/13	4,957	5,613	3,487	2,405	6,750	6,450	(300)	3,263	4,045	1,694	1,568	1,793	837
2013/14	4,820	7,672	7,470	5,744	9,000	10,020	1,020	1,530	4,276	3,291	3,396	4,180	2,348
2014/15		8,228		10,699	9,454	12,500	3,046		1,801		6,426		4,272
Total	\$113,497	\$129,547	\$13,950	\$23,909	\$130,053	\$138,157	\$8,104	\$106,649	\$114,248	\$6,848	\$15,299	\$7,102	\$8,610
Total (ex FY15)	\$113,497	\$121,319	\$13,950	\$13,210	\$120,599	\$125,657	\$5,058	\$106,649	\$112,447	\$6,848	\$8,873	\$7,102	\$4,338



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Summary Exhibit 21

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/14 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Estimated Outstanding Losses 11/30/14 (6) - (9) (4)	Estimated Outstanding Losses 11/30/15 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/14 (6)	Projected Ultimate Limited Losses 11/30/15 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/14 (9)	Limited Paid Losses 11/30/15 (10)	Limited Case Reserves 11/30/14 (2) - (9) (11)	Limited Case Reserves 11/30/15 (3) - (10) (12)	Estimated IBNR 11/30/14 (4)-(11) (13)	Estimated IBNR 11/30/15 (5)-(12) (14)
to 1995/96	\$2,896	\$2,896	\$0	\$0	\$2,896	\$2,896	\$0	\$2,896	\$2,896	\$0	\$0	\$0	\$0
1996/97	311	311	0	0	311	311	0	311	311	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	305	313	145	0	350	313	(37)	205	313	100	0	45	0
2010/11	139	139	61	0	200	139	(61)	139	139	0	0	61	0
2011/12	396	395	461	360	500	450	(50)	39	90	357	305	104	55
2012/13	410	384	386	285	700	600	(100)	314	315	96	69	290	216
2013/14	135	223	476	420	500	500	0	24	80	110	143	365	277
2014/15		84		391	405	400	(5)		9		75		316
Total	\$ 10,089	\$ 10,242	\$ 1,529	\$ 1,456	\$ 11,360	\$ 11,106	\$ (253)	\$ 9,426	\$ 9,651	\$ 662	\$ 591	\$ 866	\$ 865
Total (ex FY15)	\$ 10,089	\$ 10,158	\$ 1,529	\$ 1,065	\$ 10,955	\$ 10,706	\$ (248)	\$ 9,426	\$ 9,641	\$ 662	\$ 517	\$ 866	\$ 548



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Summary Exhibit 22

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/14 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Estimated Outstanding Losses 11/30/14 (6) - (9) (4)	Estimated Outstanding Losses 11/30/15 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/14 (6)	Projected Ultimate Limited Losses 11/30/15 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/14 (9)	Limited Paid Losses 11/30/15 (10)	Limited Case Reserves 11/30/14 (2) - (9) (11)	Limited Case Reserves 11/30/15 (3) - (10) (12)	Estimated IBNR 11/30/14 (4)-(11) (13)	Estimated IBNR 11/30/15 (5)-(12) (14)
to 1995/96	\$3,817	\$3,817	\$0	\$0	\$3,817	\$3,817	\$0	\$3,817	\$3,817	\$0	\$0	\$0	\$0
1996/97	120	120	0	0	120	120	0	120	120	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	173	175	0	0	173	175	2	173	175	0	0	0	0
2009/10	6,973	6,848	7,147	6,172	7,250	7,000	(250)	103	828	6,870	6,020	277	152
2010/11	809	809	91	0	900	809	(91)	809	809	0	0	91	0
2011/12	762	462	843	498	1,000	700	(300)	157	202	605	260	238	238
2012/13	334	272	897	628	1,000	800	(200)	103	172	232	100	666	528
2013/14	740	1,306	1,572	1,432	1,650	1,650	0	78	218	663	1,088	910	344
2014/15		137		1,165	1,608	1,200	(408)		35		102		1,063
Total	\$ 31,588	\$ 31,806	\$ 10,551	\$ 9,894	\$ 35,378	\$ 34,130	\$ (1,248)	\$ 23,219	\$ 24,236	\$ 8,369	\$ 7,570	\$ 2,181	\$ 2,325
Total (ex FY15)	\$ 31,588	\$ 31,668	\$ 10,551	\$ 8,729	\$ 33,770	\$ 32,930	\$ (840)	\$ 23,219	\$ 24,201	\$ 8,369	\$ 7,468	\$ 2,181	\$ 1,262



COOK COUNTY, ILLINOIS
OTHER LIABILITY

Summary Exhibit 23

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

Losses Limited to Actual Retention

Claim Period	Limited Reported Incurred Losses	Limited Reported Incurred Losses	Estimated Outstanding Losses	Estimated Outstanding Losses	Projected Ultimate Limited Losses	Projected Ultimate Limited Losses	Change in Ultimate	Limited Paid Losses	Limited Paid Losses	Limited Case Reserves	Limited Case Reserves	Estimated IBNR	Estimated IBNR
(1)	11/30/14 (2)	11/30/15 (3)	11/30/14 (4)	11/30/15 (5)	11/30/14 (6)	11/30/15 (7)	(7) - (6) (8)	11/30/14 (9)	11/30/15 (10)	11/30/14 (2) - (9) (11)	11/30/15 (3) - (10) (12)	11/30/14 (4)-(11) (13)	11/30/15 (5)-(12) (14)
to 1995/96	\$ 42,439	\$ 39,938	\$2,751	\$0	\$ 42,689	\$ 39,938	(\$2,751)	\$ 39,938	\$39,938	\$2,501	\$0	\$250	\$0
1996/97	1,557	1,557	0	0	1,557	1,557	0	1,557	1,557	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	4,606	5,106	0	550	4,606	5,156	550	4,606	4,606	0	500	0	50
1999/00	2,713	2,713	0	0	2,713	2,713	0	2,713	2,713	0	0	0	0
2000/01	7,263	7,363	0	110	7,263	7,373	110	7,263	7,263	0	100	0	10
2001/02	15,726	12,626	3,421	11	16,037	12,627	(3,410)	12,616	12,616	3,110	10	311	1
2002/03	6,184	6,184	0	0	6,184	6,184	0	6,184	6,184	0	0	0	0
2003/04	65,614	66,113	86	752	65,649	66,365	716	65,563	65,613	51	500	35	252
2004/05	20,433	15,733	17,325	13,817	22,008	18,500	(3,508)	4,683	4,683	15,750	11,050	1,575	2,767
2005/06	6,329	6,228	1,029	960	6,662	6,593	(69)	5,633	5,633	696	595	333	365
2006/07	11,745	9,407	4,210	333	13,269	9,515	(3,754)	9,059	9,182	2,686	225	1,524	108
2007/08	12,474	10,619	9,901	5,969	16,000	12,760	(3,240)	6,099	6,791	6,376	3,828	3,526	2,141
2008/09	5,435	5,397	2,650	503	6,339	5,647	(692)	3,689	5,144	1,746	253	904	250
2009/10	8,101	19,458	7,382	18,774	10,200	22,212	12,012	2,818	3,438	5,284	16,020	2,099	2,754
2010/11	5,093	19,422	6,788	19,621	8,500	22,000	13,500	1,712	2,379	3,381	17,044	3,407	2,578
2011/12	15,539	7,564	16,810	9,404	18,800	12,000	(6,800)	1,990	2,596	13,549	4,968	3,261	4,436
2012/13	3,956	17,420	13,254	21,839	13,500	23,000	9,500	246	1,161	3,709	16,259	9,544	5,580
2013/14	4,235	13,094	19,978	21,759	20,000	22,000	2,000	22	241	4,213	12,853	15,765	8,906
2014/15		753		17,835	16,732	18,000	1,268		165	0	588		17,247
Total	\$242,209	\$269,461	\$ 105,585	\$ 132,238	\$301,475	\$316,906	\$ 15,432	\$179,157	\$184,669	\$ 63,052	\$ 84,792	\$ 42,534	\$ 47,446
Total (ex FY15)	\$242,209	\$268,708	\$ 105,585	\$ 114,403	\$284,743	\$298,906	\$ 14,164	\$179,157	\$184,504	\$ 63,052	\$ 84,204	\$ 42,534	\$ 30,198



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

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

Data Summary as of November 30, 2015
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Payroll (000) (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Limited Paid Losses 11/30/15 (8)	Limited Case Reserves 11/30/15 (9)	Limited Reported Incurred Losses 11/30/15 (10)
to 1995/96	See Note	None	240.0	Not Provided	4,325	18	\$37,054,589	\$1,313,773	\$38,368,362
1996/97	Unlimited	None	228.0	Not Provided	458	3	3,519,391	46,882	3,566,273
1997/98	Unlimited	None	216.0	Not Provided	623	2	1,305,891	6,000	1,311,891
1998/99	Unlimited	None	204.0	Not Provided	747	2	2,403,308	227,614	2,630,922
1999/00	Unlimited	None	192.0	Not Provided	635	0	1,655,358	0	1,655,358
2000/01	9,500,000	None	180.0	425,788	625	3	1,401,622	36,625	1,438,247
2001/02	9,500,000	None	168.0	434,846	490	1	1,094,547	15,000	1,109,547
2002/03	9,500,000	None	156.0	441,142	514	3	2,746,291	112,128	2,858,420
2003/04	Unlimited	None	144.0	453,644	593	6	1,658,616	142,776	1,801,392
2004/05	Unlimited	None	132.0	458,776	518	3	2,060,476	807,717	2,868,193
2005/06	Unlimited	None	120.0	464,619	510	1	1,618,894	10,000	1,628,894
2006/07	Unlimited	None	108.0	448,051	318	8	1,919,514	167,500	2,087,014
2007/08	Unlimited	None	96.0	445,664	274	12	1,604,835	221,000	1,825,835
2008/09	Unlimited	None	84.0	501,624	280	15	1,495,129	307,250	1,802,380
2009/10	Unlimited	None	72.0	526,535	213	19	1,579,623	592,711	2,172,334
2010/11	Unlimited	None	60.0	489,053	201	26	1,281,350	506,929	1,788,279
2011/12	Unlimited	None	48.0	515,084	169	25	1,368,205	475,324	1,843,529
2012/13	Unlimited	None	36.0	482,783	142	40	1,178,853	800,090	1,978,943
2013/14	Unlimited	None	24.0	482,783	155	78	1,030,889	732,668	1,763,557
2014/15	Unlimited	None	12.0	468,483	149	127	283,329	476,740	760,069
Total					11,939	392	\$68,260,710	\$6,998,727	\$75,259,437

* 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, 2015
Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Payroll (000) (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Unlimited Paid Losses 11/30/15 (8)	Unlimited Case Reserves 11/30/15 (9)	Unlimited Reported Incurred Losses 11/30/15 (10)
to 1995/96	Unlimited	None	240.0	Not Provided	4,325	18	\$37,054,589	\$1,313,773	\$38,368,362
1996/97	Unlimited	None	228.0	Not Provided	458	3	3,519,391	46,882	3,566,273
1997/98	Unlimited	None	216.0	Not Provided	623	2	1,305,891	6,000	1,311,891
1998/99	Unlimited	None	204.0	Not Provided	747	2	2,403,308	227,614	2,630,922
1999/00	Unlimited	None	192.0	Not Provided	635	0	1,655,358	0	1,655,358
2000/01	Unlimited	None	180.0	425,788	625	3	1,401,622	36,625	1,438,247
2001/02	Unlimited	None	168.0	434,846	490	1	1,094,547	15,000	1,109,547
2002/03	Unlimited	None	156.0	441,142	514	3	2,746,291	112,128	2,858,420
2003/04	Unlimited	None	144.0	453,644	593	6	1,658,616	142,776	1,801,392
2004/05	Unlimited	None	132.0	458,776	518	3	2,060,476	807,717	2,868,193
2005/06	Unlimited	None	120.0	464,619	510	1	1,618,894	10,000	1,628,894
2006/07	Unlimited	None	108.0	448,051	318	8	1,919,514	167,500	2,087,014
2007/08	Unlimited	None	96.0	445,664	274	12	1,604,835	221,000	1,825,835
2008/09	Unlimited	None	84.0	501,624	280	15	1,495,129	307,250	1,802,380
2009/10	Unlimited	None	72.0	526,535	213	19	1,579,623	592,711	2,172,334
2010/11	Unlimited	None	60.0	489,053	201	26	1,281,350	506,929	1,788,279
2011/12	Unlimited	None	48.0	515,084	169	25	1,368,205	475,324	1,843,529
2012/13	Unlimited	None	36.0	482,783	142	40	1,178,853	800,090	1,978,943
2013/14	Unlimited	None	24.0	482,783	155	78	1,030,889	732,668	1,763,557
2014/15	Unlimited	None	12.0	468,483	149	127	283,329	476,740	760,069
Total					11,939	392	\$68,260,710	\$6,998,727	\$75,259,437

(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)

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)	Months of Development (5)	Percent Losses Paid (6)	Percent Losses Reported (7)	Percent Claims Reported (8)
360.0	99.9%	100.0%	100.0%	354.0	99.9%	100.0%	100.0%
348.0	99.9%	100.0%	100.0%	342.0	99.9%	100.0%	100.0%
336.0	99.8%	100.0%	100.0%	330.0	99.8%	100.0%	100.0%
324.0	99.8%	100.0%	100.0%	318.0	99.7%	100.0%	100.0%
312.0	99.7%	100.0%	100.0%	306.0	99.6%	100.0%	100.0%
300.0	99.5%	100.0%	100.0%	294.0	99.4%	100.0%	100.0%
288.0	99.3%	100.0%	100.0%	282.0	99.2%	100.0%	100.0%
276.0	99.0%	100.0%	100.0%	270.0	98.8%	100.0%	100.0%
264.0	98.6%	100.0%	100.0%	258.0	98.3%	100.0%	100.0%
252.0	98.0%	100.0%	100.0%	246.0	97.5%	99.9%	100.0%
240.0	97.1%	99.9%	100.0%	234.0	97.0%	99.9%	100.0%
228.0	96.9%	99.8%	100.0%	222.0	96.7%	99.8%	100.0%
216.0	96.6%	99.7%	100.0%	210.0	96.5%	99.7%	100.0%
204.0	96.3%	99.6%	100.0%	198.0	96.2%	99.6%	100.0%
192.0	96.0%	99.5%	100.0%	186.0	95.9%	99.5%	100.0%
180.0	95.7%	99.4%	100.0%	174.0	95.6%	99.4%	100.0%
168.0	95.5%	99.3%	100.0%	162.0	95.3%	99.3%	100.0%
156.0	95.1%	99.2%	100.0%	150.0	94.8%	99.1%	100.0%
144.0	94.6%	99.0%	100.0%	138.0	94.2%	98.9%	100.0%
132.0	93.8%	98.8%	100.0%	126.0	93.2%	98.7%	100.0%
120.0	92.5%	98.5%	100.0%	114.0	91.6%	98.3%	100.0%
108.0	90.8%	98.0%	100.0%	102.0	89.6%	97.7%	100.0%
96.0	88.4%	97.3%	100.0%	90.0	87.2%	96.8%	100.0%
84.0	86.0%	96.2%	100.0%	78.0	83.5%	95.0%	100.0%
72.0	81.0%	93.8%	100.0%	66.0	77.9%	92.6%	100.0%
60.0	74.8%	91.3%	99.9%	54.0	70.5%	89.3%	99.8%
48.0	66.2%	87.4%	99.7%	42.0	60.9%	84.1%	99.6%
36.0	55.6%	80.9%	99.4%	30.0	48.9%	76.1%	99.2%
24.0	42.1%	71.3%	98.9%	18.0	31.6%	62.0%	97.6%
12.0	21.1%	52.8%	96.3%	6.0	10.5%	26.4%	48.2%

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

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

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

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



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

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

Claim Period	Months of Development:																					
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240		
I. Historical Limited Paid Losses (\$000)																						
to 1995/06																						
1996/07																						
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																						

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 1995/06																						
1996/07																						
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																						
Average All	2,031	1,369	1,180	1,130	1,123	1,103	1,010	1,034	1,017	1,021	1,021	1,011	1,006	1,012	1,008	1,010	1,006	1,009	1,012			
Wtd 3	2,087	1,272	1,153	1,129	1,141	1,086	1,004	1,043	1,019	1,019	1,004	1,005	1,000	1,021	1,008	1,012	1,005	1,005	1,012			
Last 3	2,183	1,271	1,153	1,130	1,154	1,067	1,004	1,053	1,018	1,020	1,004	1,004	1,000	1,017	1,007	1,010	1,006	1,006	1,009			
Last 5 x-Hi/low	2,040	1,293	1,174	1,130	1,100	1,062	1,004	1,036	1,016	1,010	1,004	1,005	1,000	1,005	1,007	1,007	1,000	1,002	1,002	1,001	1,030	
Similar	2,353	1,326	1,164	1,096	1,057	1,036	1,023	1,014	1,010	1,008	1,005	1,004	1,002	1,003	1,002	1,002	1,002	1,002	1,002	1,021	1,000	
Previous	1,950	1,335	1,200	1,130	1,080	1,062	1,030	1,027	1,020	1,015	1,010	1,005	1,004	1,003	1,002	1,002	1,002	1,002	1,002	1,001	1,000	
Selected	2,000	1,320	1,190	1,130	1,083	1,062	1,028	1,027	1,018	1,015	1,008	1,005	1,004	1,003	1,003	1,003	1,003	1,003	1,003	1,002	1,030	
Cumulative	4,746	2,373	1,798	1,511	1,337	1,234	1,162	1,131	1,101	1,082	1,066	1,057	1,052	1,048	1,045	1,041	1,038	1,035	1,035	1,032	1,030	
Percent	21.1%	42.1%	55.6%	66.2%	74.8%	81.0%	86.0%	88.4%	90.8%	92.5%	93.8%	94.6%	95.1%	95.5%	95.7%	96.0%	96.3%	96.6%	96.6%	96.9%	97.1%	

Amounts are limited (net of excess insurance).

Data was provided by the County.



COOK COUNTY, ILLINOIS
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (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	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 1995/06																					
1995/07																					
1997/86																					
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																					

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 1995/96																					
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																					

Average All
Wtd 3
Last 3
Last 5
x-Follow

1,484	1,206	1,082	1,111	1,069	1,075	0,982	0,992	0,992	1,021	0,992	0,953	1,003	0,998	0,997	1,005	1,002	1,009	1,003	1,027	1,000	
1,788	1,361	1,212	1,250	1,188	1,137	0,981	0,981	1,042	1,169	1,028	1,004	1,023	1,009	1,014	0,988	1,001	1,002	1,002	1,001	1,001	
1,969	1,408	1,245	1,277	1,203	1,142	0,982	0,982	1,050	1,152	1,036	1,003	1,018	1,009	1,012	0,988	1,002	1,009	1,003	1,001	1,001	
1,317	1,209	1,131	1,077	1,046	1,087	0,996	0,996	1,014	1,014	1,013	1,000	1,007	1,001	1,003	1,001	1,001	1,000	1,000	1,000	1,000	
1,450	1,127	1,060	1,022	1,010	1,002	1,001	1,001	1,001	1,002	1,002	1,000	1,001	1,001	1,001	1,000	1,001	1,000	1,000	1,007	1,000	
1,335	1,130	1,080	1,045	1,025	1,025	1,015	1,015	1,007	1,005	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,000	1,000	1,000	1,000	
1,350	1,135	1,080	1,045	1,028	1,025	1,012	1,012	1,007	1,005	1,003	1,002	1,002	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	
1,894	1,403	1,236	1,145	1,095	1,066	1,040	1,040	1,027	1,020	1,015	1,012	1,010	1,008	1,007	1,006	1,005	1,004	1,003	1,002	1,001	
52.8%	71.3%	80.9%	87.4%	91.3%	93.8%	96.2%	96.2%	97.3%	98.0%	98.5%	98.8%	99.0%	99.2%	99.3%	99.4%	99.5%	99.6%	99.7%	99.8%	99.9%	99.9%

Amounts are limited (net of excess insurance).

Data was provided by the County.



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

Historical Reported Claims and Reported Claim Development

Claim Period	Months of Development:																					
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240		
I. Historical Reported Claims																						
to 1995/06																						
1995/07																						
1997/86																						
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																						

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		
I. Historical Reported Claims																						
to 1995/06																						
1995/07																						
1997/86																						
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																						
Average All	1.037	1.020	1.006	1.004	1.004	1.003	1.002	1.002	1.006	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Wtd 3	1.039	1.020	1.016	1.012	1.012	1.008	1.004	1.004	0.999	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 3	1.039	1.021	1.015	1.013	1.011	1.009	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	1.043	1.023	1.003	1.001	1.001	1.000	1.000	1.000	1.000	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
x-Follow																						
Similar	1.131	1.019	1.010	1.007	1.007	1.005	1.005	1.006	1.000	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	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Selected	1.027	1.005	1.003	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Cumulative	1.038	1.011	1.006	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	
Percent	96.3%	98.9%	99.4%	99.7%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

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 1/06/06																					
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																					
Average																					
All	45.2%	63.6%	71.5%	78.9%	80.7%	85.0%	84.6%	84.8%	85.8%	86.5%	87.1%	94.2%	95.1%	95.8%	96.7%	96.8%	96.8%	96.3%	96.3%	96.6%	96.6%
Last 3	46.2%	67.2%	70.3%	78.1%	77.3%	82.9%	85.5%	83.1%	85.7%	89.6%	87.5%	97.0%	98.2%	98.7%	94.9%	96.6%	96.5%	98.3%	98.3%	98.3%	98.3%
Last 5	55.2%	77.5%	80.2%	88.7%	89.2%	91.8%	90.6%	94.9%	97.6%	99.2%	96.9%	99.6%	98.2%	98.7%	98.6%	98.1%	98.5%	98.3%	98.3%	98.3%	98.3%
x-high																					
Implicit	39.9%	59.1%	68.8%	75.8%	81.9%	86.3%	89.4%	90.9%	92.7%	93.9%	95.0%	95.6%	95.8%	96.1%	96.3%	96.5%	96.7%	96.9%	97.1%	97.1%	97.2%



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

Exhibit WC-HC-Indem-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Paid Losses 11/30/15 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1995/96	240.0	\$37,054,589	97.1%	\$38,166,227
1996/97	228.0	3,519,391	96.9%	3,632,222
1997/98	216.0	1,305,891	96.6%	1,351,801
1998/99	204.0	2,403,308	96.3%	2,495,262
1999/00	192.0	1,655,358	96.0%	1,723,851
2000/01	180.0	1,401,622	95.7%	1,463,994
2001/02	168.0	1,094,547	95.5%	1,146,684
2002/03	156.0	2,746,291	95.1%	2,888,617
2003/04	144.0	1,658,616	94.6%	1,753,296
2004/05	132.0	2,060,476	93.8%	2,195,521
2005/06	120.0	1,618,894	92.5%	1,750,872
2006/07	108.0	1,919,514	90.8%	2,113,367
2007/08	96.0	1,604,835	88.4%	1,814,615
2008/09	84.0	1,495,129	86.0%	1,737,905
2009/10	72.0	1,579,623	81.0%	1,949,958
2010/11	60.0	1,281,350	74.8%	1,713,042
2011/12	48.0	1,368,205	66.2%	2,066,949
2012/13	36.0	1,178,853	55.6%	2,119,265
2013/14	24.0	1,030,889	42.1%	2,446,309
2014/15	12.0	283,329	21.1%	1,344,687

(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 11/30/15 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1995/96	240.0	\$38,368,362	99.9%	\$38,406,730
1996/97	228.0	3,566,273	99.8%	3,573,409
1997/98	216.0	1,311,891	99.7%	1,315,830
1998/99	204.0	2,630,922	99.6%	2,641,461
1999/00	192.0	1,655,358	99.5%	1,663,652
2000/01	180.0	1,438,247	99.4%	1,446,898
2001/02	168.0	1,109,547	99.3%	1,117,337
2002/03	156.0	2,858,420	99.2%	2,881,367
2003/04	144.0	1,801,392	99.0%	1,819,486
2004/05	132.0	2,868,193	98.8%	2,902,796
2005/06	120.0	1,628,894	98.5%	1,653,491
2006/07	108.0	2,087,014	98.0%	2,129,121
2007/08	96.0	1,825,835	97.3%	1,875,712
2008/09	84.0	1,802,380	96.2%	1,873,835
2009/10	72.0	2,172,334	93.8%	2,314,918
2010/11	60.0	1,788,279	91.3%	1,959,013
2011/12	48.0	1,843,529	87.4%	2,110,417
2012/13	36.0	1,978,943	80.9%	2,446,669
2013/14	24.0	1,763,557	71.3%	2,474,728
2014/15	12.0	760,069	52.8%	1,439,875

(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 11/30/15 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/15 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/15 (6)	Limited Case Reserves 11/30/15 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1995/96	240.0	97.1%	99.9%	96.6%	\$37,054,589	\$1,313,773	\$38,415,024
1996/97	228.0	96.9%	99.8%	93.6%	3,519,391	46,882	3,569,494
1997/98	216.0	96.6%	99.7%	91.2%	1,305,891	6,000	1,312,471
1998/99	204.0	96.3%	99.6%	89.2%	2,403,308	227,614	2,658,558
1999/00	192.0	96.0%	99.5%	87.5%	1,655,358	0	1,655,358
2000/01	180.0	95.7%	99.4%	86.0%	1,401,622	36,625	1,444,225
2001/02	168.0	95.5%	99.3%	84.7%	1,094,547	15,000	1,112,263
2002/03	156.0	95.1%	99.2%	83.8%	2,746,291	112,128	2,880,038
2003/04	144.0	94.6%	99.0%	81.6%	1,658,616	142,776	1,833,619
2004/05	132.0	93.8%	98.8%	80.6%	2,060,476	807,717	3,062,356
2005/06	120.0	92.5%	98.5%	80.3%	1,618,894	10,000	1,631,352
2006/07	108.0	90.8%	98.0%	78.4%	1,919,514	167,500	2,133,054
2007/08	96.0	88.4%	97.3%	77.0%	1,604,835	221,000	1,891,852
2008/09	84.0	86.0%	96.2%	72.7%	1,495,129	307,250	1,917,743
2009/10	72.0	81.0%	93.8%	67.6%	1,579,623	592,711	2,456,821
2010/11	60.0	74.8%	91.3%	65.4%	1,281,350	506,929	2,056,282
2011/12	48.0	66.2%	87.4%	62.6%	1,368,205	475,324	2,127,614
2012/13	36.0	55.6%	80.9%	56.9%	1,178,853	800,090	2,584,512
2013/14	24.0	42.1%	71.3%	50.3%	1,030,889	732,668	2,486,545
2014/15	12.0	21.1%	52.8%	40.2%	283,329	476,740	1,469,730

(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 2014/15

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 1995/96	\$38,166,227	\$38,406,730	\$38,415,024	\$38,499,739
1996/97	3,632,222	3,573,409	3,569,494	3,570,961
1997/98	1,351,801	1,315,830	1,312,471	1,312,491
1998/99	2,495,262	2,641,461	2,658,558	2,658,558
1999/00	1,723,851	1,663,652	1,655,358	1,655,358
2000/01	1,463,994	1,446,898	1,444,225	1,444,225
2001/02	1,146,684	1,117,337	1,112,263	1,112,263
2002/03	2,888,617	2,881,367	2,880,038	2,880,038
2003/04	1,753,296	1,819,486	1,833,619	1,833,619
2004/05	2,195,521	2,902,796	3,062,356	3,062,356
2005/06	1,750,872	1,653,491	1,631,352	1,631,352
2006/07	2,113,367	2,129,121	2,133,054	2,133,054
2007/08	1,814,615	1,875,712	1,891,852	1,890,238
2008/09	1,737,905	1,873,835	1,917,743	1,908,961
2009/10	1,949,958	2,314,918	2,456,821	2,414,250
2010/11	1,713,042	1,959,013	2,056,282	2,017,374
2011/12	2,066,949	2,110,417	2,127,614	2,114,669
2012/13	2,119,265	2,446,669	2,584,512	2,436,325
2013/14	2,446,309	2,474,728	2,486,545	2,473,771
2014/15	1,344,687	1,439,875	1,469,730	1,432,779
Total	\$75,874,447	\$78,046,743	\$78,698,913	\$78,482,385

(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 (2015/16 = 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)
2005/06	\$1,631,352	\$464,619	\$0.35	1.164	\$0.41	\$0.39
2006/07	2,133,054	448,051	0.48	1.142	0.54	0.40
2007/08	1,890,238	445,664	0.42	1.116	0.47	0.41
2008/09	1,908,961	501,624	0.38	1.093	0.42	0.42
2009/10	2,414,250	526,535	0.46	1.070	0.49	0.43
2010/11	2,017,374	489,053	0.41	1.061	0.44	0.43
2011/12	2,114,669	515,084	0.41	1.065	0.44	0.43
2012/13	2,436,325	482,783	0.50	1.047	0.53	0.44
2013/14	2,473,771	482,783	0.51	1.030	0.53	0.44
2014/15	1,432,779	468,483	0.31	1.015	0.31	0.45

(7) Projected 2015/16 a-priori loss rate per \$100 of Payroll \$0.46

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/15 (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)
2010/11	\$1,281,350	74.8%	\$0.43	\$489,053	\$531,460	\$1,812,810
2011/12	1,368,205	66.2%	0.43	515,084	748,086	2,116,291
2012/13	1,178,853	55.6%	0.44	482,783	935,368	2,114,221
2013/14	1,030,889	42.1%	0.44	482,783	1,239,915	2,270,804
2014/15	283,329	21.1%	0.45	468,483	1,666,172	1,949,502

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (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)
2010/11	\$1,788,279	91.3%	\$0.43	\$489,053	\$183,801	\$1,972,080
2011/12	1,843,529	87.4%	0.43	515,084	279,849	2,123,378
2012/13	1,978,943	80.9%	0.44	482,783	402,964	2,381,907
2013/14	1,763,557	71.3%	0.44	482,783	615,835	2,379,392
2014/15	760,069	52.8%	0.45	468,483	996,643	1,756,712

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 11/30/15 (2)	Reported Claims 11/30/15 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2005/06	120.0	510	100.0%	510	\$464,619	1.10
2006/07	108.0	318	100.0%	318	448,051	0.71
2007/08	96.0	274	100.0%	274	445,664	0.61
2008/09	84.0	280	100.0%	280	501,624	0.56
2009/10	72.0	213	100.0%	213	526,535	0.40
2010/11	60.0	201	99.9%	201	489,053	0.41
2011/12	48.0	169	99.7%	170	515,084	0.33
2012/13	36.0	142	99.4%	143	482,783	0.30
2013/14	24.0	155	98.9%	157	482,783	0.33
2014/15	12.0	149	96.3%	155	468,483	0.33

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2015/16 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2015/16 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2005/06	\$1,631,352	510	\$3,199	1.564	\$5,002	\$7,804	\$3,979,955
2006/07	2,133,054	318	6,708	1.490	9,993	8,191	2,604,747
2007/08	1,890,238	274	6,899	1.414	9,756	8,629	2,364,339
2008/09	1,908,961	280	6,818	1.344	9,164	9,078	2,541,912
2009/10	2,414,250	213	11,335	1.277	14,478	9,553	2,034,764
2010/11	2,017,374	201	10,037	1.230	12,340	9,925	1,994,886
2011/12	2,114,669	170	12,439	1.198	14,904	10,184	1,731,349
2012/13	2,436,325	143	17,037	1.145	19,501	10,661	1,524,479
2013/14	2,473,771	157	15,757	1.093	17,223	11,163	1,752,632
2014/15	1,432,779	155	9,244	1.045	9,664	11,672	1,809,170
						(7) Projected 2015/16 average claim severity \$12,203	

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 2014/15

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 1995/96	\$38,166,227	\$38,406,730	\$38,415,024				\$37,966,065	\$38,500,000
1996/97	3,632,222	3,573,409	3,569,494				3,575,299	3,571,000
1997/98	1,351,801	1,315,830	1,312,471				1,312,491	1,312,491
1998/99	2,495,262	2,641,461	2,658,558				2,658,000	2,659,000
1999/00	1,723,851	1,663,652	1,655,358				1,669,000	1,655,358
2000/01	1,463,994	1,446,898	1,444,225				1,442,000	1,444,000
2001/02	1,146,684	1,117,337	1,112,263				1,111,047	1,112,000
2002/03	2,888,617	2,881,367	2,880,038				2,767,000	2,880,000
2003/04	1,753,296	1,819,486	1,833,619				1,819,000	1,834,000
2004/05	2,195,521	2,902,796	3,062,356				2,926,000	3,000,000
2005/06	1,750,872	1,653,491	1,631,352				1,638,000	1,635,000
2006/07	2,113,367	2,129,121	2,133,054				2,091,000	2,130,000
2007/08	1,814,615	1,875,712	1,891,852				2,052,000	1,890,000
2008/09	1,737,905	1,873,835	1,917,743				1,953,000	1,900,000
2009/10	1,949,958	2,314,918	2,456,821				2,261,000	2,400,000
2010/11	1,713,042	1,959,013	2,056,282	1,812,810	1,972,080	1,994,886	1,990,000	2,000,000
2011/12	2,066,949	2,110,417	2,127,614	2,116,291	2,123,378	1,731,349	2,175,000	2,115,000
2012/13	2,119,265	2,446,669	2,584,512	2,114,221	2,381,907	1,524,479	2,300,000	2,425,000
2013/14	2,446,309	2,474,728	2,486,545	2,270,804	2,379,392	1,752,632	2,200,000	2,375,000
2014/15	1,344,687	1,439,875	1,469,730	1,949,502	1,756,712	1,809,170	2,287,000	1,600,000
Sum	\$75,874,447	\$78,046,743	\$78,698,913				\$78,192,902	\$78,437,849
2010/11 - 2014/15	9,690,252	10,430,701	10,724,683	10,263,627	10,613,468	8,812,516	10,952,000	10,515,000
to 2009/10	66,184,194	67,616,042	67,974,230				67,240,902	67,922,849
						Change		
						All years		\$244,947
						2010/11 - 2014/15		-437,000
						to 2009/10		681,947

(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 from prior actuarial study.

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



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

Exhibit WC-HC-Indem-10

Projected Ultimate Limited Losses for 2015/16 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 (2015/16 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2005/06	\$1,635,000	\$464,619	\$0.35	1.164	\$0.41
2006/07	2,130,000	448,051	0.48	1.142	0.54
2007/08	1,890,000	445,664	0.42	1.116	0.47
2008/09	1,900,000	501,624	0.38	1.093	0.41
2009/10	2,400,000	526,535	0.46	1.070	0.49
2010/11	2,000,000	489,053	0.41	1.061	0.43
2011/12	2,115,000	515,084	0.41	1.065	0.44
2012/13	2,425,000	482,783	0.50	1.047	0.53
2013/14	2,375,000	482,783	0.49	1.030	0.51
2014/15	1,600,000	468,483	0.34	1.015	0.35
Total	\$20,470,000	\$4,824,679	\$0.42		\$0.46

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)
2015/16	\$0.46	\$497,761	\$2,279,000	0.94	\$0.43	\$2,138,000
2016/17	0.46	497,761	2,313,000	0.94	0.44	2,170,000
2017/18	0.47	497,761	2,347,000	0.94	0.44	2,203,000

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

(3) was provided by the County.

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

(7) 2015/16 is based on (6) and actuarial judgment.

Other period(s) based on 2015/16 plus the trend in Exhibit WC-HC-Indem-15.

(8) to 2015/16 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.68% 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, 2015

Claim Period (1)	Limited Paid Losses 11/30/15 (2)	Limited Case Reserves 11/30/15 (3)	Limited Reported Incurred Losses 11/30/15 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/15 (5)-(4) (6)	Estimated Outstanding Losses 11/30/15 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/15 (7)X(8) (9)
to 1995/96	\$37,054,589	\$1,313,773	\$38,368,362	\$38,500,000	\$131,638	\$1,445,411	0.96	\$1,386,367
1996/97	3,519,391	46,882	3,566,273	3,571,000	4,727	51,609	0.95	48,843
1997/98	1,305,891	6,000	1,311,891	1,312,491	600	6,600	0.94	6,178
1998/99	2,403,308	227,614	2,630,922	2,659,000	28,078	255,692	0.93	236,855
1999/00	1,655,358	0	1,655,358	1,655,358	0	0	0.92	0
2000/01	1,401,622	36,625	1,438,247	1,444,000	5,753	42,378	0.91	38,480
2001/02	1,094,547	15,000	1,109,547	1,112,000	2,453	17,453	0.90	15,696
2002/03	2,746,291	112,128	2,858,420	2,880,000	21,580	133,708	0.89	119,389
2003/04	1,658,616	142,776	1,801,392	1,834,000	32,608	175,384	0.89	155,786
2004/05	2,060,476	807,717	2,868,193	3,000,000	131,807	939,524	0.89	834,478
2005/06	1,618,894	10,000	1,628,894	1,635,000	6,106	16,106	0.90	14,423
2006/07	1,919,514	167,500	2,087,014	2,130,000	42,986	210,486	0.90	189,578
2007/08	1,604,835	221,000	1,825,835	1,890,000	64,165	285,165	0.91	258,879
2008/09	1,495,129	307,250	1,802,380	1,900,000	97,620	404,870	0.91	368,422
2009/10	1,579,623	592,711	2,172,334	2,400,000	227,666	820,377	0.92	755,273
2010/11	1,281,350	506,929	1,788,279	2,000,000	211,721	718,650	0.93	666,012
2011/12	1,368,205	475,324	1,843,529	2,115,000	271,471	746,795	0.93	695,955
2012/13	1,178,853	800,090	1,978,943	2,425,000	446,057	1,246,147	0.93	1,164,480
2013/14	1,030,889	732,668	1,763,557	2,375,000	611,443	1,344,111	0.94	1,258,071
2014/15	283,329	476,740	760,069	1,600,000	839,931	1,316,671	0.94	1,237,071
Total	\$68,260,710	\$6,998,727	\$75,259,437	\$78,437,849	\$3,178,410	\$10,177,137		\$9,450,236

(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 1.68% 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, 2015 to November 30, 2016

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Months of Development 11/30/16 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/15 to 11/30/16 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/15 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/16 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/16 (9)X(10) (11)
to 1995/96	240.0	97.1%	252.0	98.0%	30.0%	\$1,445,411	\$433,623	\$1,011,788	0.96	\$971,804
1996/97	228.0	96.9%	240.0	97.1%	6.2%	51,609	3,220	48,389	0.96	46,412
1997/98	216.0	96.6%	228.0	96.9%	8.5%	6,600	563	6,037	0.95	5,713
1998/99	204.0	96.3%	216.0	96.6%	7.8%	255,692	20,048	235,644	0.94	220,586
1999/00	192.0	96.0%	204.0	96.3%	7.3%	0	0	0	0.93	0
2000/01	180.0	95.7%	192.0	96.0%	6.7%	42,378	2,857	39,521	0.92	36,241
2001/02	168.0	95.5%	180.0	95.7%	6.3%	17,453	1,099	16,354	0.91	14,850
2002/03	156.0	95.1%	168.0	95.5%	7.7%	133,708	10,320	123,388	0.90	110,969
2003/04	144.0	94.6%	156.0	95.1%	8.8%	175,384	15,362	160,022	0.89	142,885
2004/05	132.0	93.8%	144.0	94.6%	12.2%	939,524	114,680	824,844	0.89	732,671
2005/06	120.0	92.5%	132.0	93.8%	18.4%	16,106	2,963	13,143	0.89	11,674
2006/07	108.0	90.8%	120.0	92.5%	17.8%	210,486	37,516	172,970	0.90	154,895
2007/08	96.0	88.4%	108.0	90.8%	20.7%	285,165	58,901	226,264	0.90	203,789
2008/09	84.0	86.0%	96.0	88.4%	17.2%	404,870	69,815	335,055	0.91	304,170
2009/10	72.0	81.0%	84.0	86.0%	26.4%	820,377	216,952	603,425	0.91	549,102
2010/11	60.0	74.8%	72.0	81.0%	24.6%	718,650	177,047	541,603	0.92	498,622
2011/12	48.0	66.2%	60.0	74.8%	25.5%	746,795	190,098	556,697	0.93	515,921
2012/13	36.0	55.6%	48.0	66.2%	23.8%	1,246,147	296,800	949,347	0.93	884,718
2013/14	24.0	42.1%	36.0	55.6%	23.3%	1,344,111	313,265	1,030,846	0.93	963,289
2014/15	12.0	21.1%	24.0	42.1%	26.7%	1,316,671	351,485	965,186	0.94	903,402
2015/16	0.0	0.0%	12.0	21.1%	21.1%	2,279,000	480,192	1,798,808	0.94	1,690,060
Total						\$12,456,137	\$2,796,806	\$9,659,331		\$8,961,773

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

(7) to 2014/15 is from Exhibit WC-HC-Indem-11. The amount for 2015/16 is from Exhibit WC-HC-Indem-10.

(10) is based on a 1.68% 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, 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 1995/96	252.0	98.0%	264.0	98.6%	30.0%	\$1,011,788	\$303,536	\$708,252	0.96	\$681,466
1996/97	240.0	97.1%	252.0	98.0%	30.0%	48,389	14,517	33,872	0.96	32,533
1997/98	228.0	96.9%	240.0	97.1%	6.2%	6,037	377	5,660	0.96	5,429
1998/99	216.0	96.6%	228.0	96.9%	8.5%	235,644	20,108	215,536	0.95	203,984
1999/00	204.0	96.3%	216.0	96.6%	7.8%	0	0	0	0.94	0
2000/01	192.0	96.0%	204.0	96.3%	7.3%	39,521	2,865	36,656	0.93	33,956
2001/02	180.0	95.7%	192.0	96.0%	6.7%	16,354	1,103	15,251	0.92	13,985
2002/03	168.0	95.5%	180.0	95.7%	6.3%	123,388	7,771	115,617	0.91	104,983
2003/04	156.0	95.1%	168.0	95.5%	7.7%	160,022	12,351	147,671	0.90	132,808
2004/05	144.0	94.6%	156.0	95.1%	8.8%	824,844	72,249	752,595	0.89	671,998
2005/06	132.0	93.8%	144.0	94.6%	12.2%	13,143	1,604	11,539	0.89	10,250
2006/07	120.0	92.5%	132.0	93.8%	18.4%	172,970	31,826	141,144	0.89	125,363
2007/08	108.0	90.8%	120.0	92.5%	17.8%	226,264	40,328	185,936	0.90	166,506
2008/09	96.0	88.4%	108.0	90.8%	20.7%	335,055	69,206	265,849	0.90	239,442
2009/10	84.0	86.0%	96.0	88.4%	17.2%	603,425	104,053	499,372	0.91	453,341
2010/11	72.0	81.0%	84.0	86.0%	26.4%	541,603	143,229	398,374	0.91	362,510
2011/12	60.0	74.8%	72.0	81.0%	24.6%	556,697	137,148	419,549	0.92	386,254
2012/13	48.0	66.2%	60.0	74.8%	25.5%	949,347	241,658	707,689	0.93	655,854
2013/14	36.0	55.6%	48.0	66.2%	23.8%	1,030,846	245,521	785,325	0.93	731,862
2014/15	24.0	42.1%	36.0	55.6%	23.3%	965,186	224,951	740,235	0.93	691,723
2015/16	12.0	21.1%	24.0	42.1%	26.7%	1,798,808	480,192	1,318,616	0.94	1,234,208
2016/17	0.0	0.0%	12.0	21.1%	21.1%	2,313,000	487,356	1,825,644	0.94	1,715,274
Total						\$1,972,331	\$2,641,949	\$9,330,382		\$8,653,729

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

(7) to 2015/16 is from Exhibit WC-HC-Indem-12, (9). The amount for 2016/17 is from Exhibit WC-HC-Indem-10.

(10) is based on a 1.68% 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, 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 1995/96	264.0	98.6%	276.0	99.0%	30.0%	\$708,252	\$212,476	\$495,776	0.96	\$478,089
1996/97	252.0	98.0%	264.0	98.6%	30.0%	33,872	10,162	23,710	0.96	22,813
1997/98	240.0	97.1%	252.0	98.0%	30.0%	5,660	1,698	3,962	0.96	3,805
1998/99	228.0	96.9%	240.0	97.1%	6.2%	215,536	13,446	202,090	0.96	193,835
1999/00	216.0	96.6%	228.0	96.9%	8.5%	0	0	0	0.95	0
2000/01	204.0	96.3%	216.0	96.6%	7.8%	36,656	2,874	33,782	0.94	31,623
2001/02	192.0	96.0%	204.0	96.3%	7.3%	15,251	1,106	14,145	0.93	13,103
2002/03	180.0	95.7%	192.0	96.0%	6.7%	115,617	7,794	107,823	0.92	98,874
2003/04	168.0	95.5%	180.0	95.7%	6.3%	147,671	9,300	138,371	0.91	125,644
2004/05	156.0	95.1%	168.0	95.5%	7.7%	752,595	58,088	694,507	0.90	624,606
2005/06	144.0	94.6%	156.0	95.1%	8.8%	11,539	1,011	10,528	0.89	9,401
2006/07	132.0	93.8%	144.0	94.6%	12.2%	141,144	17,228	123,916	0.89	110,069
2007/08	120.0	92.5%	132.0	93.8%	18.4%	185,936	34,211	151,725	0.89	134,761
2008/09	108.0	90.8%	120.0	92.5%	17.8%	265,849	47,383	218,466	0.90	195,637
2009/10	96.0	88.4%	108.0	90.8%	20.7%	499,372	103,146	396,226	0.90	356,869
2010/11	84.0	86.0%	96.0	88.4%	17.2%	398,374	68,695	329,679	0.91	299,290
2011/12	72.0	81.0%	84.0	86.0%	26.4%	419,549	110,951	308,598	0.91	280,816
2012/13	60.0	74.8%	72.0	81.0%	24.6%	707,689	174,347	533,342	0.92	491,017
2013/14	48.0	66.2%	60.0	74.8%	25.5%	785,325	199,906	585,419	0.93	542,539
2014/15	36.0	55.6%	48.0	66.2%	23.8%	740,235	176,305	563,930	0.93	525,539
2015/16	24.0	42.1%	36.0	55.6%	23.3%	1,318,616	307,323	1,011,293	0.93	945,017
2016/17	12.0	21.1%	24.0	42.1%	26.7%	1,825,644	487,356	1,338,288	0.94	1,252,621
2017/18	0.0	0.0%	12.0	21.1%	21.1%	2,347,000	494,520	1,852,480	0.94	1,740,488
Total						\$11,677,382	\$2,539,326	\$9,138,056		\$8,476,456

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

(7) to 2016/17 is from Exhibit WC-HC-Indem-13, (9). The amount for 2017/18 is from Exhibit WC-HC-Indem-10.

(10) is based on a 1.68% 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 (2015/16 = 1.000) (2)	Residual Trend (2015/16 = 1.000) (3)	Retention Index (2015/16 = 1.000) (4)	Loss Rate Trend (2015/16 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2015/16 = 1.000) (6)	Severity Trend (2015/16 = 1.000) (5)X(6) (7)
2005/06	1.003	1.161	1.000	1.164	1.344	1.564
2006/07	0.999	1.143	1.000	1.142	1.305	1.490
2007/08	0.991	1.126	1.000	1.116	1.267	1.414
2008/09	0.985	1.110	1.000	1.093	1.230	1.344
2009/10	0.978	1.093	1.000	1.070	1.194	1.277
2010/11	0.984	1.077	1.000	1.061	1.159	1.230
2011/12	1.003	1.061	1.000	1.065	1.126	1.198
2012/13	1.002	1.046	1.000	1.047	1.093	1.145
2013/14	1.000	1.030	1.000	1.030	1.061	1.093
2014/15	1.000	1.015	1.000	1.015	1.030	1.045
2015/16	1.000	1.000	1.000	1.000	1.000	1.000
2016/17	1.000	0.985	1.000	0.985	0.971	0.957

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

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 11/30/15 (5)	Unlimited Case Reserves 11/30/15 (6)	Unlimited Reported Incurred Losses 11/30/15 (7)
20050890	5/8/2005	2004/05	Unlimited	\$472,096	\$764,870	\$1,236,966

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.



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

Exhibit WC-HC-Indem-17

Size of Loss Distribution

I. Reported Claim Count

Layer (1)	Prior (2)	2010/11 (3)	2011/12 (4)	2012/13 (5)	2013/14 (6)	2014/15 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	4,814	85	37	15	2	25	4,978		
0.01 - 5,000	4,542	65	80	85	113	93	4,978	4,978	71.5%
5,000 - 10,000	599	17	11	10	7	7	651	5,629	80.9%
10,000 - 25,000	601	8	22	10	9	15	665	6,294	90.4%
25,000 - 50,000	286	14	10	12	10	7	339	6,633	95.3%
50,000 - 100,000	165	9	3	4	11	2	194	6,827	98.1%
100,000 - 250,000	89	3	6	5	3	0	106	6,933	99.6%
250,000 - 500,000	15	0	0	1	0	0	16	6,949	99.8%
500,000 - 750,000	7	0	0	0	0	0	7	6,956	99.9%
750,000 - 1,000,000	4	0	0	0	0	0	4	6,960	100.0%
Over 1,000,000	1	0	0	0	0	0	1	6,961	100.0%
Total	11,123	201	169	142	155	149	11,939	6,961	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2010/11 (3)	2011/12 (4)	2012/13 (5)	2013/14 (6)	2014/15 (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	4,672,402	52,986	93,193	48,782	64,443	76,114	5,007,920	5,007,920	6.7%
5,000 - 10,000	4,300,862	115,747	73,076	66,401	46,284	48,537	4,650,907	9,658,827	12.8%
10,000 - 25,000	9,533,971	124,773	331,364	169,426	163,829	259,227	10,582,590	20,241,416	26.9%
25,000 - 50,000	9,973,153	452,606	362,871	424,096	393,043	233,576	11,839,345	32,080,761	42.6%
50,000 - 100,000	11,413,736	601,173	164,125	310,090	750,142	142,616	13,381,882	45,462,643	60.4%
100,000 - 250,000	13,557,354	440,993	818,900	698,196	345,815	0	15,861,259	61,323,902	81.5%
250,000 - 500,000	5,083,301	0	0	261,952	0	0	5,345,254	66,669,155	88.6%
500,000 - 750,000	4,164,980	0	0	0	0	0	4,164,980	70,834,135	94.1%
750,000 - 1,000,000	3,188,336	0	0	0	0	0	3,188,336	74,022,471	98.4%
Over 1,000,000	1,236,966	0	0	0	0	0	1,236,966	75,259,437	100.0%
Total	\$67,125,061	\$1,788,279	\$1,843,529	\$1,978,943	\$1,763,557	\$760,069	\$75,259,437	\$75,259,437	

Amounts are gross of excess insurance.

Data was provided by the County.



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

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

Data Summary as of November 30, 2015
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Payroll (000) (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Limited Paid Losses 11/30/15 (8)	Limited Case Reserves 11/30/15 (9)	Limited Reported Incurred Losses 11/30/15 (10)
to 1995/96	See Note	None	240.0	Not Provided	4,325	18	\$12,161,723	\$376,722	\$12,538,446
1996/97	Unlimited	None	228.0	Not Provided	458	3	784,501	14,413	798,914
1997/98	Unlimited	None	216.0	Not Provided	623	2	427,573	0	427,573
1998/99	Unlimited	None	204.0	Not Provided	747	2	720,172	40,382	760,554
1999/00	Unlimited	None	192.0	Not Provided	635	0	948,616	0	948,616
2000/01	9,500,000	None	180.0	425,788	625	3	835,144	0	835,144
2001/02	9,500,000	None	168.0	434,846	490	1	701,979	0	701,979
2002/03	9,500,000	None	156.0	441,142	514	3	1,057,086	18,600	1,075,686
2003/04	Unlimited	None	144.0	453,644	593	6	1,105,413	324,682	1,430,095
2004/05	Unlimited	None	132.0	458,776	518	3	1,435,557	7,260	1,442,817
2005/06	Unlimited	None	120.0	464,619	510	1	877,479	0	877,479
2006/07	Unlimited	None	108.0	448,051	318	8	1,033,335	0	1,033,335
2007/08	Unlimited	None	96.0	445,664	274	12	852,478	20,000	872,478
2008/09	Unlimited	None	84.0	501,624	280	15	777,678	21,783	799,461
2009/10	Unlimited	None	72.0	526,535	213	19	742,988	35,419	778,408
2010/11	Unlimited	None	60.0	489,053	201	26	734,100	52,681	786,781
2011/12	Unlimited	None	48.0	515,084	169	25	996,827	107,108	1,103,935
2012/13	Unlimited	None	36.0	482,783	142	40	810,666	166,654	977,320
2013/14	Unlimited	None	24.0	482,783	155	78	722,237	365,592	1,087,829
2014/15	Unlimited	None	12.0	468,483	149	127	240,345	517,979	758,324
Total					11,939	392	\$27,965,898	\$2,069,275	\$30,035,174

* 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, 2015
Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Payroll (000) (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Unlimited Paid Losses 11/30/15 (8)	Unlimited Case Reserves 11/30/15 (9)	Unlimited Reported Incurred Losses 11/30/15 (10)
to 1995/96	Unlimited	None	240.0	Not Provided	4,325	18	\$12,161,723	\$376,722	\$12,538,446
1996/97	Unlimited	None	228.0	Not Provided	458	3	784,501	14,413	798,914
1997/98	Unlimited	None	216.0	Not Provided	623	2	427,573	0	427,573
1998/99	Unlimited	None	204.0	Not Provided	747	2	720,172	40,382	760,554
1999/00	Unlimited	None	192.0	Not Provided	635	0	948,616	0	948,616
2000/01	Unlimited	None	180.0	425,788	625	3	835,144	0	835,144
2001/02	Unlimited	None	168.0	434,846	490	1	701,979	0	701,979
2002/03	Unlimited	None	156.0	441,142	514	3	1,057,086	18,600	1,075,686
2003/04	Unlimited	None	144.0	453,644	593	6	1,105,413	324,682	1,430,095
2004/05	Unlimited	None	132.0	458,776	518	3	1,435,557	7,260	1,442,817
2005/06	Unlimited	None	120.0	464,619	510	1	877,479	0	877,479
2006/07	Unlimited	None	108.0	448,051	318	8	1,033,335	0	1,033,335
2007/08	Unlimited	None	96.0	445,664	274	12	852,478	20,000	872,478
2008/09	Unlimited	None	84.0	501,624	280	15	777,678	21,783	799,461
2009/10	Unlimited	None	72.0	526,535	213	19	742,988	35,419	778,408
2010/11	Unlimited	None	60.0	489,053	201	26	734,100	52,681	786,781
2011/12	Unlimited	None	48.0	515,084	169	25	996,827	107,108	1,103,935
2012/13	Unlimited	None	36.0	482,783	142	40	810,666	166,654	977,320
2013/14	Unlimited	None	24.0	482,783	155	78	722,237	365,592	1,087,829
2014/15	Unlimited	None	12.0	468,483	149	127	240,345	517,979	758,324
Total					11,939	392	\$27,965,898	\$2,069,275	\$30,035,174

(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)

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)	Months of Development (5)	Percent Losses Paid (6)	Percent Losses Reported (7)	Percent Claims Reported (8)
360.0	99.9%	100.0%	100.0%	354.0	99.9%	100.0%	100.0%
348.0	99.9%	100.0%	100.0%	342.0	99.8%	100.0%	100.0%
336.0	99.8%	100.0%	100.0%	330.0	99.8%	100.0%	100.0%
324.0	99.7%	100.0%	100.0%	318.0	99.7%	100.0%	100.0%
312.0	99.6%	100.0%	100.0%	306.0	99.5%	100.0%	100.0%
300.0	99.4%	100.0%	100.0%	294.0	99.3%	100.0%	100.0%
288.0	99.2%	100.0%	100.0%	282.0	99.0%	100.0%	100.0%
276.0	98.8%	100.0%	100.0%	270.0	98.6%	100.0%	100.0%
264.0	98.3%	100.0%	100.0%	258.0	98.0%	100.0%	100.0%
252.0	97.6%	100.0%	100.0%	246.0	97.1%	100.0%	100.0%
240.0	96.6%	100.0%	100.0%	234.0	96.6%	100.0%	100.0%
228.0	96.5%	100.0%	100.0%	222.0	96.5%	100.0%	100.0%
216.0	96.4%	100.0%	100.0%	210.0	96.4%	100.0%	100.0%
204.0	96.3%	100.0%	100.0%	198.0	96.2%	100.0%	100.0%
192.0	96.1%	100.0%	100.0%	186.0	96.0%	100.0%	100.0%
180.0	95.9%	100.0%	100.0%	174.0	95.8%	100.0%	100.0%
168.0	95.7%	100.0%	100.0%	162.0	95.5%	100.0%	100.0%
156.0	95.3%	100.0%	100.0%	150.0	95.0%	100.0%	100.0%
144.0	94.8%	99.9%	100.0%	138.0	94.5%	99.8%	100.0%
132.0	94.2%	99.7%	100.0%	126.0	94.0%	99.6%	100.0%
120.0	93.7%	99.5%	100.0%	114.0	93.3%	99.4%	100.0%
108.0	92.8%	99.3%	100.0%	102.0	92.4%	99.2%	100.0%
96.0	91.9%	99.1%	100.0%	90.0	91.2%	98.9%	100.0%
84.0	90.6%	98.6%	100.0%	78.0	89.9%	98.4%	100.0%
72.0	89.2%	98.1%	100.0%	66.0	87.8%	97.9%	100.0%
60.0	86.4%	97.6%	99.9%	54.0	84.7%	96.9%	99.8%
48.0	83.1%	96.2%	99.7%	42.0	79.6%	95.2%	99.6%
36.0	76.2%	94.3%	99.4%	30.0	68.6%	87.6%	99.2%
24.0	61.0%	80.9%	98.9%	18.0	41.6%	68.4%	97.6%
12.0	22.2%	55.8%	96.3%	6.0	11.1%	27.9%	48.2%

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

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

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

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



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

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

Claim Period	Months of Development:																			
	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1995/06																				
1996/07																				
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																				

II. Limited Paid Loss Development

Claim Period	Months of Development:												216-228	228-240	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
to 1995/06																				
1996/07																				
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																				
Average All	3,011	1,257	1,112	1,026	1,035	1,011	1,016	1,006	1,004	1,000	1,003	1,002	1,004	1,001	1,001	1,002	1,001	1,007	1,001	1,005
Wtd 3	3,978	1,337	1,144	1,034	1,046	1,008	1,028	1,003	1,014	1,004	1,001	1,000	1,000	1,000	1,000	1,000	1,002	1,001	1,007	1,001
Last 3	4,554	1,340	1,139	1,034	1,047	1,007	1,027	1,002	1,014	1,004	1,001	1,000	1,000	1,000	1,000	1,000	1,002	1,001	1,007	1,001
Last 5 x-til low	3,262	1,341	1,077	1,021	1,041	1,007	1,026	1,002	1,004	1,002	1,001	1,000	1,000	1,000	1,000	1,000	1,002	1,001	1,007	1,001
Similar Previous	2,353	1,326	1,164	1,086	1,057	1,036	1,023	1,014	1,010	1,008	1,005	1,004	1,002	1,003	1,002	1,002	1,002	1,001	1,021	1,000
Selected Cumulative Percent	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
	4,512	1,641	1,312	1,204	1,158	1,121	1,104	1,088	1,077	1,068	1,061	1,055	1,045	1,042	1,040	1,038	1,037	1,036	1,035	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%	96.6%

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



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

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

Claim Period	Months of Development:																					
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240		
to 1995/06																						
1996/07																						
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																						

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 1995/06																					
1996/07																					
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																					

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

1.472	1.089	0.967	0.968	0.967	0.967	0.962	0.972	0.950	0.958	0.939	0.974	0.997	0.993	0.999	0.999	1.001	1.003	1.002	1.002	1.000
1.896	1.203	1.108	1.042	1.047	1.005	1.035	1.035	1.000	1.009	1.002	1.115	1.006	1.000	1.002	0.988	1.000	1.007	1.000	1.000	1.000
1.916	1.200	1.097	1.043	1.047	1.005	1.035	1.035	1.000	1.009	1.002	1.089	1.005	1.000	1.002	0.988	1.000	1.003	1.000	1.000	1.000
1.762	1.200	1.020	1.000	1.022	1.002	1.005	1.031	1.000	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1.450	1.127	1.060	1.022	1.010	1.002	1.001	1.001	1.001	1.002	1.002	1.000	1.001	1.001	1.001	1.000	1.001	1.000	1.000	1.007	1.000
1.400	1.150	1.020	1.015	1.004	1.003	1.003	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
1.450	1.165	1.020	1.015	1.005	1.005	1.005	1.005	1.002	1.002	1.002	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
55.8%	80.9%	94.3%	96.2%	97.6%	98.1%	98.6%	98.6%	99.1%	99.3%	99.5%	99.7%	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
WORKERS' COMPENSATION - HEALTH CARE FACILITIES (MEDICAL)

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 1995/06																					
1996/07																					
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																					

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 1995/06																					
1996/07																					
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																					

Average

All	1.037	1.020	1.006	1.004	1.004	1.003	1.002	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	1.039	1.020	1.016	1.012	1.012	1.008	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 3	1.039	1.021	1.015	1.013	1.011	1.009	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	1.043	1.023	1.003	1.001	1.001	1.000	1.000	1.000	1.000	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
x-Hilow																					

Similar

Previous	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
Selected	1.027	1.005	1.003	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Cumulative	1.038	1.011	1.006	1.003	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Percent	96.3%	98.9%	99.4%	99.7%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

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 1/06/06																					
1989/97																					
1997/86																					
1998/89																					
1999/00																					
2000/01																					
2001/02					56.8%	60.0%	55.4%	53.3%	57.0%	57.0%	57.7%	82.0%	87.2%	93.1%	96.7%	96.9%	96.9%	96.7%	96.5%	97.0%	
2002/03					57.6%	58.2%	51.9%	55.4%	53.5%	54.0%	54.2%	82.0%	87.2%	93.1%	96.7%	96.9%	96.9%	96.7%	96.5%	97.0%	
2003/04					57.6%	57.3%	60.3%	52.2%	55.4%	54.0%	54.2%	82.0%	87.2%	93.1%	96.7%	96.9%	96.9%	96.7%	96.5%	97.0%	
2004/05			51.1%	56.4%	57.9%	57.3%	63.3%	59.5%	55.4%	54.0%	54.2%	82.0%	87.2%	93.1%	96.7%	96.9%	96.9%	96.7%	96.5%	97.0%	
2005/06			56.9%	62.1%	57.3%	57.3%	63.3%	59.5%	55.4%	54.0%	54.2%	82.0%	87.2%	93.1%	96.7%	96.9%	96.9%	96.7%	96.5%	97.0%	
2006/07			41.7%	62.6%	57.3%	57.3%	63.3%	59.5%	55.4%	54.0%	54.2%	82.0%	87.2%	93.1%	96.7%	96.9%	96.9%	96.7%	96.5%	97.0%	
2007/08			76.2%	83.1%	93.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2008/09			70.3%	97.5%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
2009/10			91.8%	97.5%	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%
2010/11			88.1%	97.5%	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%
2011/12			93.0%	90.3%	94.1%	96.4%	97.3%	98.6%	98.6%	98.9%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%
2012/13			78.8%	88.8%	93.3%	96.4%	97.3%	98.6%	98.6%	98.9%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%
2013/14			82.9%	90.3%	93.3%	96.4%	97.3%	98.6%	98.6%	98.9%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%
2014/15			66.4%	82.9%	90.3%	96.4%	97.3%	98.6%	98.6%	98.9%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%
Average																					
All	34.9%	66.1%	74.7%	82.7%	84.1%	85.6%	85.8%	85.3%	85.9%	88.1%	92.9%	94.6%	97.3%	98.0%	98.2%	98.0%	97.4%	96.3%	97.4%	97.0%	97.0%
Last 3	30.3%	72.5%	88.4%	93.6%	95.2%	97.3%	99.1%	99.2%	99.3%	99.6%	99.7%	99.8%	99.4%	100.0%	98.1%	98.2%	97.6%	98.3%	98.3%	98.2%	98.2%
Last 5	37.9%	76.8%	89.6%	96.0%	96.4%	98.8%	99.8%	99.1%	99.7%	99.8%	99.8%	99.8%	99.4%	100.0%	99.2%	98.4%	98.6%	98.3%	98.3%	98.2%	98.2%
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%	96.4%	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 11/30/15 (2)	Limited Paid Losses 11/30/15 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1995/96	240.0	\$12,161,723	96.6%	\$12,587,384
1996/97	228.0	784,501	96.5%	812,770
1997/98	216.0	427,573	96.4%	443,424
1998/99	204.0	720,172	96.3%	747,616
1999/00	192.0	948,616	96.1%	986,736
2000/01	180.0	835,144	95.9%	870,441
2001/02	168.0	701,979	95.7%	733,842
2002/03	156.0	1,057,086	95.3%	1,109,488
2003/04	144.0	1,105,413	94.8%	1,166,013
2004/05	132.0	1,435,557	94.2%	1,523,341
2005/06	120.0	877,479	93.7%	936,724
2006/07	108.0	1,033,335	92.8%	1,113,030
2007/08	96.0	852,478	91.9%	927,408
2008/09	84.0	777,678	90.6%	858,723
2009/10	72.0	742,988	89.2%	832,725
2010/11	60.0	734,100	86.4%	849,914
2011/12	48.0	996,827	83.1%	1,200,253
2012/13	36.0	810,666	76.2%	1,063,950
2013/14	24.0	722,237	61.0%	1,184,866
2014/15	12.0	240,345	22.2%	1,084,322

(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 11/30/15 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1995/96	240.0	\$12,538,446	100.0%	\$12,538,446
1996/97	228.0	798,914	100.0%	798,914
1997/98	216.0	427,573	100.0%	427,573
1998/99	204.0	760,554	100.0%	760,554
1999/00	192.0	948,616	100.0%	948,616
2000/01	180.0	835,144	100.0%	835,144
2001/02	168.0	701,979	100.0%	701,979
2002/03	156.0	1,075,686	100.0%	1,075,686
2003/04	144.0	1,430,095	99.9%	1,431,525
2004/05	132.0	1,442,817	99.7%	1,447,149
2005/06	120.0	877,479	99.5%	881,873
2006/07	108.0	1,033,335	99.3%	1,040,587
2007/08	96.0	872,478	99.1%	880,359
2008/09	84.0	799,461	98.6%	810,715
2009/10	72.0	778,408	98.1%	793,312
2010/11	60.0	786,781	97.6%	805,855
2011/12	48.0	1,103,935	96.2%	1,147,659
2012/13	36.0	977,320	94.3%	1,036,349
2013/14	24.0	1,087,829	80.9%	1,343,866
2014/15	12.0	758,324	55.8%	1,358,370

(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 11/30/15 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/15 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/15 (6)	Limited Case Reserves 11/30/15 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1995/96	240.0	96.6%	100.0%	100.0%	\$12,161,723	\$376,722	\$12,538,446
1996/97	228.0	96.5%	100.0%	100.0%	784,501	14,413	798,914
1997/98	216.0	96.4%	100.0%	100.0%	427,573	0	427,573
1998/99	204.0	96.3%	100.0%	100.0%	720,172	40,382	760,554
1999/00	192.0	96.1%	100.0%	100.0%	948,616	0	948,616
2000/01	180.0	95.9%	100.0%	100.0%	835,144	0	835,144
2001/02	168.0	95.7%	100.0%	100.0%	701,979	0	701,979
2002/03	156.0	95.3%	100.0%	100.0%	1,057,086	18,600	1,075,686
2003/04	144.0	94.8%	99.9%	98.1%	1,105,413	324,682	1,436,458
2004/05	132.0	94.2%	99.7%	94.8%	1,435,557	7,260	1,443,215
2005/06	120.0	93.7%	99.5%	92.1%	877,479	0	877,479
2006/07	108.0	92.8%	99.3%	90.3%	1,033,335	0	1,033,335
2007/08	96.0	91.9%	99.1%	88.9%	852,478	20,000	874,970
2008/09	84.0	90.6%	98.6%	85.3%	777,678	21,783	803,217
2009/10	72.0	89.2%	98.1%	82.6%	742,988	35,419	785,887
2010/11	60.0	86.4%	97.6%	82.6%	734,100	52,681	797,855
2011/12	48.0	83.1%	96.2%	77.5%	996,827	107,108	1,134,993
2012/13	36.0	76.2%	94.3%	76.1%	810,666	166,654	1,029,735
2013/14	24.0	61.0%	80.9%	51.2%	722,237	365,592	1,436,226
2014/15	12.0	22.2%	55.8%	43.2%	240,345	517,979	1,438,088

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

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



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

Exhibit WC-HC-Med-6

Preliminary Projected Ultimate Limited Losses to 2014/15

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 1995/96	\$12,587,384	\$12,538,446	\$12,538,446	\$12,576,118
1996/97	812,770	798,914	798,914	800,355
1997/98	443,424	427,573	427,573	427,573
1998/99	747,616	760,554	760,554	764,593
1999/00	986,736	948,616	948,616	948,616
2000/01	870,441	835,144	835,144	835,144
2001/02	733,842	701,979	701,979	701,979
2002/03	1,109,488	1,075,686	1,075,686	1,077,546
2003/04	1,166,013	1,431,525	1,436,458	1,462,563
2004/05	1,523,341	1,447,149	1,443,215	1,443,543
2005/06	936,724	881,873	877,479	877,479
2006/07	1,113,030	1,040,587	1,033,335	1,033,335
2007/08	927,408	880,359	874,970	875,509
2008/09	858,723	810,715	803,217	804,717
2009/10	832,725	793,312	785,887	788,115
2010/11	849,914	805,855	797,855	801,055
2011/12	1,200,253	1,147,659	1,134,993	1,146,585
2012/13	1,063,950	1,036,349	1,029,735	1,039,224
2013/14	1,184,866	1,343,866	1,436,226	1,349,010
2014/15	1,084,322	1,358,370	1,438,088	1,335,448
Total	\$31,032,970	\$31,064,531	\$31,178,370	\$31,088,506

(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 (2015/16 = 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)
2005/06	\$877,479	\$464,619	\$0.19	1.469	\$0.28	\$0.17
2006/07	1,033,335	448,051	0.23	1.380	0.32	0.18
2007/08	875,509	445,664	0.20	1.303	0.26	0.19
2008/09	804,717	501,624	0.16	1.172	0.19	0.21
2009/10	788,115	526,535	0.15	1.123	0.17	0.22
2010/11	801,055	489,053	0.16	1.107	0.18	0.23
2011/12	1,146,585	515,084	0.22	1.184	0.26	0.21
2012/13	1,039,224	482,783	0.22	1.135	0.24	0.22
2013/14	1,349,010	482,783	0.28	1.082	0.30	0.23
2014/15	1,335,448	468,483	0.29	1.040	0.30	0.24

(7) Projected 2015/16 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 11/30/15 (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)
2010/11	\$734,100	86.4%	\$0.23	\$489,053	\$150,238	\$884,338
2011/12	996,827	83.1%	0.21	515,084	183,967	1,180,795
2012/13	810,666	76.2%	0.22	482,783	252,800	1,063,466
2013/14	722,237	61.0%	0.23	482,783	434,694	1,156,931
2014/15	240,345	22.2%	0.24	468,483	875,104	1,115,450

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (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)
2010/11	\$786,781	97.6%	\$0.23	\$489,053	\$26,097	\$812,877
2011/12	1,103,935	96.2%	0.21	515,084	41,353	1,145,289
2012/13	977,320	94.3%	0.22	482,783	60,486	1,037,805
2013/14	1,087,829	80.9%	0.23	482,783	212,113	1,299,942
2014/15	758,324	55.8%	0.24	468,483	496,654	1,254,979

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).



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

Exhibit WC-HC-Med-8

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/15 (2)	Reported Claims 11/30/15 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2005/06	120.0	510	100.0%	510	\$464,619	1.10
2006/07	108.0	318	100.0%	318	448,051	0.71
2007/08	96.0	274	100.0%	274	445,664	0.61
2008/09	84.0	280	100.0%	280	501,624	0.56
2009/10	72.0	213	100.0%	213	526,535	0.40
2010/11	60.0	201	99.9%	201	489,053	0.41
2011/12	48.0	169	99.7%	170	515,084	0.33
2012/13	36.0	142	99.4%	143	482,783	0.30
2013/14	24.0	155	98.9%	157	482,783	0.33
2014/15	12.0	149	96.3%	155	468,483	0.33

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2015/16 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2015/16 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2005/06	\$877,479	510	\$1,721	1.975	\$3,398	\$3,334	\$1,700,343
2006/07	1,033,335	318	3,249	1.801	5,851	3,657	1,162,802
2007/08	875,509	274	3,195	1.650	5,273	3,990	1,093,211
2008/09	804,717	280	2,874	1.441	4,141	4,569	1,279,335
2009/10	788,115	213	3,700	1.341	4,963	4,908	1,045,462
2010/11	801,055	201	3,985	1.283	5,115	5,130	1,031,087
2011/12	1,146,585	170	6,745	1.333	8,991	4,939	839,609
2012/13	1,039,224	143	7,267	1.240	9,011	5,310	759,295
2013/14	1,349,010	157	8,592	1.148	9,866	5,734	900,205
2014/15	1,335,448	155	8,616	1.071	9,229	6,146	952,655
(7) Projected 2015/16 average claim severity					\$6,584		

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 2014/15

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 1995/96	\$12,587,384	\$12,538,446	\$12,538,446				\$12,555,634	\$12,576,118
1996/97	812,770	798,914	798,914				800,357	800,355
1997/98	443,424	427,573	427,573				427,573	427,573
1998/99	747,616	760,554	760,554				765,000	765,000
1999/00	986,736	948,616	948,616				954,116	948,616
2000/01	870,441	835,144	835,144				835,144	835,144
2001/02	733,842	701,979	701,979				701,979	701,979
2002/03	1,109,488	1,075,686	1,075,686				1,061,168	1,078,000
2003/04	1,166,013	1,431,525	1,436,458				1,104,306	1,463,000
2004/05	1,523,341	1,447,149	1,443,215				1,444,347	1,444,000
2005/06	936,724	881,873	877,479				880,000	877,479
2006/07	1,113,030	1,040,587	1,033,335				1,037,000	1,033,335
2007/08	927,408	880,359	874,970				835,000	876,000
2008/09	858,723	810,715	803,217				800,000	805,000
2009/10	832,725	793,312	785,887				750,000	788,000
2010/11	849,914	805,855	797,855	884,338	812,877	1,031,087	850,000	801,000
2011/12	1,200,253	1,147,659	1,134,993	1,180,795	1,145,289	839,609	950,000	1,147,000
2012/13	1,063,950	1,036,349	1,029,735	1,063,466	1,037,805	759,295	950,000	1,039,000
2013/14	1,184,866	1,343,866	1,436,226	1,156,931	1,299,942	900,205	1,000,000	1,317,000
2014/15	1,084,322	1,358,370	1,438,088	1,115,450	1,254,979	952,655	1,129,000	1,300,000
Sum	\$31,032,970	\$31,064,531	\$31,178,370				\$29,830,624	\$31,023,599
2010/11 - 2014/15	5,383,305	5,692,099	5,836,896	5,400,980	5,550,891	4,482,851	4,879,000	5,604,000
to 2009/10	25,649,665	25,372,432	25,341,474				24,951,624	25,419,599
						Change		
						All years		\$1,192,976
						2010/11 - 2014/15		725,000
						to 2009/10		467,976

(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 from prior actuarial study.

(9) 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 2015/16 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 (2015/16 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2005/06	\$877,479	\$464,619	\$0.19	1.469	\$0.28
2006/07	1,033,335	448,051	0.23	1.380	0.32
2007/08	876,000	445,664	0.20	1.303	0.26
2008/09	805,000	501,624	0.16	1.172	0.19
2009/10	788,000	526,535	0.15	1.123	0.17
2010/11	801,000	489,053	0.16	1.107	0.18
2011/12	1,147,000	515,084	0.22	1.184	0.26
2012/13	1,039,000	482,783	0.22	1.135	0.24
2013/14	1,317,000	482,783	0.27	1.082	0.30
2014/15	1,300,000	468,483	0.28	1.040	0.29
Total	\$9,983,814	\$4,824,679	\$0.21		\$0.25

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)
2015/16	\$0.25	\$497,761	\$1,235,000	0.95	\$0.24	\$1,176,000
2016/17	0.26	497,761	1,284,000	0.95	0.25	1,223,000
2017/18	0.27	497,761	1,336,000	0.95	0.26	1,272,000

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

(3) was provided by the County.

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

(7) 2015/16 is based on (6) and actuarial judgment.

Other period(s) based on 2015/16 plus the trend in Exhibit WC-HC-Med-15.

(8) to 2015/16 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.68% 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, 2015

Claim Period (1)	Limited Paid Losses 11/30/15 (2)	Limited Case Reserves 11/30/15 (3)	Limited Reported Incurred Losses 11/30/15 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/15 (5)-(4) (6)	Estimated Outstanding Losses 11/30/15 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/15 (7)X(8) (9)
to 1995/96	\$12,161,723	\$376,722	\$12,538,446	\$12,576,118	\$37,672	\$414,394	0.96	\$397,466
1996/97	784,501	14,413	798,914	800,355	1,441	15,854	0.94	14,977
1997/98	427,573	0	427,573	427,573	0	0	0.93	0
1998/99	720,172	40,382	760,554	765,000	4,446	44,828	0.92	41,129
1999/00	948,616	0	948,616	948,616	0	0	0.91	0
2000/01	835,144	0	835,144	835,144	0	0	0.90	0
2001/02	701,979	0	701,979	701,979	0	0	0.89	0
2002/03	1,057,086	18,600	1,075,686	1,078,000	2,314	20,914	0.88	18,494
2003/04	1,105,413	324,682	1,430,095	1,463,000	32,905	357,587	0.88	315,040
2004/05	1,435,557	7,260	1,442,817	1,444,000	1,183	8,443	0.88	7,421
2005/06	877,479	0	877,479	877,479	0	0	0.88	0
2006/07	1,033,335	0	1,033,335	1,033,335	0	0	0.88	0
2007/08	852,478	20,000	872,478	876,000	3,522	23,522	0.88	20,635
2008/09	777,678	21,783	799,461	805,000	5,539	27,322	0.88	24,085
2009/10	742,988	35,419	778,408	788,000	9,592	45,011	0.88	39,726
2010/11	734,100	52,681	786,781	801,000	14,219	66,900	0.89	59,812
2011/12	996,827	107,108	1,103,935	1,147,000	43,065	150,173	0.90	135,373
2012/13	810,666	166,654	977,320	1,039,000	61,680	228,334	0.92	209,374
2013/14	722,237	365,592	1,087,829	1,317,000	229,171	594,763	0.94	557,282
2014/15	240,345	517,979	758,324	1,300,000	541,676	1,059,655	0.96	1,013,592
Total	\$27,965,898	\$2,069,275	\$30,035,174	\$31,023,599	\$988,425	\$3,057,700		\$2,854,406

(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 1.68% 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, 2015 to November 30, 2016

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Months of Development 11/30/16 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/15 to 11/30/16 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/15 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/16 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/16 (9)X(10) (11)
to 1995/96	240.0	96.6%	252.0	97.6%	30.0%	\$414,394	\$124,318	\$290,076	0.96	\$278,613
1996/97	228.0	96.5%	240.0	96.6%	2.8%	15,854	440	15,414	0.96	14,784
1997/98	216.0	96.4%	228.0	96.5%	2.7%	0	0	0	0.94	0
1998/99	204.0	96.3%	216.0	96.4%	2.6%	44,828	1,176	43,652	0.93	40,632
1999/00	192.0	96.1%	204.0	96.3%	5.0%	0	0	0	0.92	0
2000/01	180.0	95.9%	192.0	96.1%	4.7%	0	0	0	0.91	0
2001/02	168.0	95.7%	180.0	95.9%	6.6%	0	0	0	0.90	0
2002/03	156.0	95.3%	168.0	95.7%	8.1%	20,914	1,688	19,226	0.89	17,099
2003/04	144.0	94.8%	156.0	95.3%	9.1%	357,587	32,614	324,973	0.88	287,370
2004/05	132.0	94.2%	144.0	94.8%	9.8%	8,443	828	7,615	0.88	6,709
2005/06	120.0	93.7%	132.0	94.2%	8.9%	0	0	0	0.88	0
2006/07	108.0	92.8%	120.0	93.7%	11.7%	0	0	0	0.88	0
2007/08	96.0	91.9%	108.0	92.8%	11.4%	23,522	2,676	20,846	0.88	18,279
2008/09	84.0	90.6%	96.0	91.9%	14.4%	27,322	3,933	23,389	0.88	20,518
2009/10	72.0	89.2%	84.0	90.6%	12.4%	45,011	5,590	39,421	0.88	34,750
2010/11	60.0	86.4%	72.0	89.2%	20.9%	66,900	13,994	52,906	0.88	46,694
2011/12	48.0	83.1%	60.0	86.4%	19.6%	150,173	29,435	120,738	0.89	107,946
2012/13	36.0	76.2%	48.0	83.1%	28.8%	228,334	65,773	162,561	0.90	146,540
2013/14	24.0	61.0%	36.0	76.2%	39.0%	594,763	232,130	362,633	0.92	332,521
2014/15	12.0	22.2%	24.0	61.0%	49.8%	1,059,655	528,090	531,565	0.94	498,067
2015/16	0.0	0.0%	12.0	22.2%	22.2%	1,235,000	273,744	961,256	0.96	919,471
Total						\$4,292,700	\$1,316,429	\$2,976,271		\$2,769,993

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

(7) to 2014/15 is from Exhibit WC-HC-Med-11. The amount for 2015/16 is from Exhibit WC-HC-Med-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit WC-HC-Med-2.



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

Exhibit WC-HC-Med-13

Projected Losses Paid December 1, 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 1995/96	252.0	97.6%	264.0	98.3%	30.0%	\$290,076	\$87,023	\$203,053	0.96	\$195,374
1996/97	240.0	96.6%	252.0	97.6%	30.0%	15,414	4,624	10,790	0.96	10,364
1997/98	228.0	96.5%	240.0	96.6%	2.8%	0	0	0	0.96	0
1998/99	216.0	96.4%	228.0	96.5%	2.7%	43,652	1,178	42,474	0.94	40,125
1999/00	204.0	96.3%	216.0	96.4%	2.6%	0	0	0	0.93	0
2000/01	192.0	96.1%	204.0	96.3%	5.0%	0	0	0	0.92	0
2001/02	180.0	95.9%	192.0	96.1%	4.7%	0	0	0	0.91	0
2002/03	168.0	95.7%	180.0	95.9%	6.6%	19,226	1,271	17,955	0.90	16,101
2003/04	156.0	95.3%	168.0	95.7%	8.1%	324,973	26,222	298,751	0.89	265,692
2004/05	144.0	94.8%	156.0	95.3%	9.1%	7,615	695	6,920	0.88	6,119
2005/06	132.0	94.2%	144.0	94.8%	9.8%	0	0	0	0.88	0
2006/07	120.0	93.7%	132.0	94.2%	8.9%	0	0	0	0.88	0
2007/08	108.0	92.8%	120.0	93.7%	11.7%	20,846	2,433	18,413	0.88	16,128
2008/09	96.0	91.9%	108.0	92.8%	11.4%	23,389	2,661	20,728	0.88	18,175
2009/10	84.0	90.6%	96.0	91.9%	14.4%	39,421	5,674	33,747	0.88	29,605
2010/11	72.0	89.2%	84.0	90.6%	12.4%	52,906	6,571	46,335	0.88	40,845
2011/12	60.0	86.4%	72.0	89.2%	20.9%	120,738	25,255	95,483	0.88	84,271
2012/13	48.0	83.1%	60.0	86.4%	19.6%	162,561	31,863	130,698	0.89	116,851
2013/14	36.0	76.2%	48.0	83.1%	28.8%	362,633	104,458	258,175	0.90	232,730
2014/15	24.0	61.0%	36.0	76.2%	39.0%	531,565	207,464	324,101	0.92	297,188
2015/16	12.0	22.2%	24.0	61.0%	49.8%	961,256	479,052	482,204	0.94	451,816
2016/17	0.0	0.0%	12.0	22.2%	22.2%	1,284,000	284,605	999,395	0.96	955,952
Total						\$4,260,271	\$1,271,049	\$2,989,222		\$2,777,336

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

(7) to 2015/16 is from Exhibit WC-HC-Med-12, (9). The amount for 2016/17 is from Exhibit WC-HC-Med-10.

(10) is based on a 1.68% 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, 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 1995/96	264.0	98.3%	276.0	98.8%	30.0%	\$203,053	\$60,916	\$142,137	0.96	\$137,066
1996/97	252.0	97.6%	264.0	98.3%	30.0%	10,790	3,237	7,553	0.96	7,267
1997/98	240.0	96.6%	252.0	97.6%	30.0%	0	0	0	0.96	0
1998/99	228.0	96.5%	240.0	96.6%	2.8%	42,474	1,179	41,295	0.96	39,608
1999/00	216.0	96.4%	228.0	96.5%	2.7%	0	0	0	0.94	0
2000/01	204.0	96.3%	216.0	96.4%	2.6%	0	0	0	0.93	0
2001/02	192.0	96.1%	204.0	96.3%	5.0%	0	0	0	0.92	0
2002/03	180.0	95.9%	192.0	96.1%	4.7%	17,955	850	17,105	0.91	15,512
2003/04	168.0	95.7%	180.0	95.9%	6.6%	298,751	19,745	279,006	0.90	250,196
2004/05	156.0	95.3%	168.0	95.7%	8.1%	6,920	558	6,362	0.89	5,658
2005/06	144.0	94.8%	156.0	95.3%	9.1%	0	0	0	0.88	0
2006/07	132.0	94.2%	144.0	94.8%	9.8%	0	0	0	0.88	0
2007/08	120.0	93.7%	132.0	94.2%	8.9%	18,413	1,636	16,777	0.88	14,746
2008/09	108.0	92.8%	120.0	93.7%	11.7%	20,728	2,419	18,309	0.88	16,037
2009/10	96.0	91.9%	108.0	92.8%	11.4%	33,747	3,839	29,908	0.88	26,225
2010/11	84.0	90.6%	96.0	91.9%	14.4%	46,335	6,669	39,666	0.88	34,797
2011/12	72.0	89.2%	84.0	90.6%	12.4%	95,483	11,859	83,624	0.88	73,715
2012/13	60.0	86.4%	72.0	89.2%	20.9%	130,698	27,339	103,359	0.88	91,222
2013/14	48.0	83.1%	60.0	86.4%	19.6%	258,175	50,604	207,571	0.89	185,580
2014/15	36.0	76.2%	48.0	83.1%	28.8%	324,101	93,359	230,742	0.90	208,001
2015/16	24.0	61.0%	36.0	76.2%	39.0%	482,204	188,199	294,005	0.92	269,591
2016/17	12.0	22.2%	24.0	61.0%	49.8%	999,395	498,059	501,336	0.94	469,743
2017/18	0.0	0.0%	12.0	22.2%	22.2%	1,336,000	296,131	1,039,869	0.96	994,666
Total						\$4,325,222	\$1,266,598	\$3,058,624		\$2,839,630

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

(7) to 2016/17 is from Exhibit WC-HC-Med-13, (9). The amount for 2017/18 is from Exhibit WC-HC-Med-10.

(10) is based on a 1.68% 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

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2015/16 = 1.000) (2)	Residual Trend (2015/16 = 1.000) (3)	Retention Index (2015/16 = 1.000) (4)	Loss Rate Trend (2015/16 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2015/16 = 1.000) (6)	Severity Trend (2015/16 = 1.000) (5)X(6) (7)
2005/06	0.993	1.480	1.000	1.469	1.344	1.975
2006/07	0.970	1.423	1.000	1.380	1.305	1.801
2007/08	0.952	1.369	1.000	1.303	1.267	1.650
2008/09	0.890	1.316	1.000	1.172	1.230	1.441
2009/10	0.888	1.265	1.000	1.123	1.194	1.341
2010/11	0.910	1.217	1.000	1.107	1.159	1.283
2011/12	1.012	1.170	1.000	1.184	1.126	1.333
2012/13	1.009	1.125	1.000	1.135	1.093	1.240
2013/14	1.001	1.082	1.000	1.082	1.061	1.148
2014/15	1.000	1.040	1.000	1.040	1.030	1.071
2015/16	1.000	1.000	1.000	1.000	1.000	1.000
2016/17	1.000	0.962	1.000	0.962	0.971	0.934

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

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 11/30/15 (5)	Unlimited Case Reserves 11/30/15 (6)	Unlimited Reported Incurred Losses 11/30/15 (7)
894134	7/23/1991	to 1995/96	Unlimited	\$1,114,828	\$110,172	\$1,225,000

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.



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

Exhibit WC-HC-Med-17

Size of Loss Distribution

I. Reported Claim Count

Layer (1)	Prior (2)	2010/11 (3)	2011/12 (4)	2012/13 (5)	2013/14 (6)	2014/15 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	6,633	119	97	75	69	23	7,016		
0.01 - 5,000	3,643	49	41	41	53	84	3,911	3,911	79.4%
5,000 - 10,000	317	14	11	5	2	17	366	4,277	86.9%
10,000 - 25,000	319	10	10	6	14	21	380	4,657	94.6%
25,000 - 50,000	130	6	2	11	13	4	166	4,823	98.0%
50,000 - 100,000	56	2	6	3	4	0	71	4,894	99.4%
100,000 - 250,000	19	1	2	1	0	0	23	4,917	99.9%
250,000 - 500,000	3	0	0	0	0	0	3	4,920	99.9%
500,000 - 750,000	2	0	0	0	0	0	2	4,922	100.0%
750,000 - 1,000,000	0	0	0	0	0	0	0	4,922	100.0%
Over 1,000,000	1	0	0	0	0	0	1	4,923	100.0%
Total	11,123	201	169	142	155	149	11,939	4,923	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2010/11 (3)	2011/12 (4)	2012/13 (5)	2013/14 (6)	2014/15 (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	3,734,507	59,574	42,733	51,699	103,178	168,791	4,160,481	4,160,481	13.9%
5,000 - 10,000	2,214,927	101,465	73,235	35,383	17,763	126,546	2,569,318	6,729,800	22.4%
10,000 - 25,000	5,067,220	177,343	152,732	104,992	235,493	322,849	6,060,629	12,790,429	42.6%
25,000 - 50,000	4,589,512	219,556	54,659	422,650	437,937	140,139	5,864,452	18,654,881	62.1%
50,000 - 100,000	3,715,561	120,876	406,857	235,213	293,457	0	4,771,964	23,426,845	78.0%
100,000 - 250,000	2,565,670	107,968	373,720	127,384	0	0	3,174,741	26,601,586	88.6%
250,000 - 500,000	1,104,980	0	0	0	0	0	1,104,980	27,706,566	92.2%
500,000 - 750,000	1,103,608	0	0	0	0	0	1,103,608	28,810,174	95.9%
750,000 - 1,000,000	0	0	0	0	0	0	0	28,810,174	95.9%
Over 1,000,000	1,225,000	0	0	0	0	0	1,225,000	30,035,174	100.0%
Total	\$25,320,985	\$786,781	\$1,103,935	\$977,320	\$1,087,829	\$758,324	\$30,035,174	\$30,035,174	

Amounts are gross of excess insurance.

Data was provided by the County.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-1 (page 1)

Data Summary as of November 30, 2015
 Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Limited Paid Losses 11/30/15 (8)	Limited Case Reserves 11/30/15 (9)	Limited Reported Incurred Losses 11/30/15 (10)
to 1995/96	See Note	None	240.0	Not Provided	8	0	\$8,258,600	\$0	\$8,258,600
1996/97	Unlimited	None	228.0	Not Provided	1	0	0	0	0
1997/98	Unlimited	None	216.0	Not Provided	3	0	503,400	0	503,400
1998/99	Unlimited	None	204.0	Not Provided	2	0	50,000	0	50,000
1999/00	Unlimited	None	192.0	Not Provided	4	0	2,250,000	0	2,250,000
2000/01	10,000,000	25,000,000	180.0	Not Provided	11	0	950,000	0	950,000
2001/02	15,000,000	50,000,000	168.0	Not Provided	21	0	1,213,000	0	1,213,000
2002/03	20,000,000	80,000,000	156.0	Not Provided	10	0	22,000	0	22,000
2003/04	20,000,000	None	144.0	813	12	0	3,408,500	0	3,408,500
2004/05	20,000,000	None	132.0	775	12	0	18,000	0	18,000
2005/06	20,000,000	None	120.0	752	22	0	1,028,000	0	1,028,000
2006/07	20,000,000	None	108.0	625	16	0	16,100	0	16,100
2007/08	20,000,000	None	96.0	Not Provided	11	0	1,125,000	0	1,125,000
2008/09	20,000,000	None	84.0	Not Provided	0	0	0	0	0
2009/10	40,000,000	None	72.0	Not Provided	3	2	1,045,000	750,000	1,795,000
2010/11	40,000,000	None	60.0	Not Provided	1	0	3,000	0	3,000
2011/12	40,000,000	None	48.0	959	2	1	0	15,000	15,000
2012/13	30,000,000	None	36.0	892	7	1	0	400,000	400,000
2013/14	30,000,000	None	24.0	892	0	0	0	0	0
2014/15	25,000,000	None	12.0	912	0	0	0	0	0
Total					146	4	\$19,890,600	\$1,165,000	\$21,055,600

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

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

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

Data was provided by the County.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-1 (page 2)

Data Summary as of November 30, 2015
 Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Unlimited Paid Losses 11/30/15 (8)	Unlimited Case Reserves 11/30/15 (9)	Unlimited Reported Incurred Losses 11/30/15 (10)
to 1995/96	Unlimited	None	240.0	Not Provided	8	0	\$8,258,600	\$0	\$8,258,600
1996/97	Unlimited	None	228.0	Not Provided	1	0	0	0	0
1997/98	Unlimited	None	216.0	Not Provided	3	0	503,400	0	503,400
1998/99	Unlimited	None	204.0	Not Provided	2	0	50,000	0	50,000
1999/00	Unlimited	None	192.0	Not Provided	4	0	2,250,000	0	2,250,000
2000/01	Unlimited	25,000,000	180.0	Not Provided	11	0	950,000	0	950,000
2001/02	Unlimited	50,000,000	168.0	Not Provided	21	0	1,213,000	0	1,213,000
2002/03	Unlimited	80,000,000	156.0	Not Provided	10	0	22,000	0	22,000
2003/04	Unlimited	None	144.0	813	12	0	3,408,500	0	3,408,500
2004/05	Unlimited	None	132.0	775	12	0	18,000	0	18,000
2005/06	Unlimited	None	120.0	752	22	0	1,028,000	0	1,028,000
2006/07	Unlimited	None	108.0	625	16	0	16,100	0	16,100
2007/08	Unlimited	None	96.0	Not Provided	11	0	1,125,000	0	1,125,000
2008/09	Unlimited	None	84.0	Not Provided	0	0	0	0	0
2009/10	Unlimited	None	72.0	Not Provided	3	2	1,045,000	750,000	1,795,000
2010/11	Unlimited	None	60.0	Not Provided	1	0	3,000	0	3,000
2011/12	Unlimited	None	48.0	959	2	1	0	15,000	15,000
2012/13	Unlimited	None	36.0	892	7	1	0	400,000	400,000
2013/14	Unlimited	None	24.0	892	0	0	0	0	0
2014/15	Unlimited	None	12.0	912	0	0	0	0	0
Total					146	4	\$19,890,600	\$1,165,000	\$21,055,600

(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

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)	Months of Development (5)	Percent Losses Paid (6)	Percent Losses Reported (7)	Percent Claims Reported (8)
360.0	100.0%	100.0%	100.0%	354.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%	342.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%	330.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%	318.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%	306.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%	294.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%	282.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%	270.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%	258.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%	246.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%	234.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%	222.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%	210.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%	198.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%	186.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%	174.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%	162.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%	150.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%	138.0	99.0%	100.0%	100.0%
132.0	98.0%	100.0%	100.0%	126.0	96.2%	100.0%	100.0%
120.0	94.3%	100.0%	100.0%	114.0	92.0%	99.5%	100.0%
108.0	89.8%	99.0%	100.0%	102.0	85.0%	98.0%	100.0%
96.0	80.2%	97.1%	100.0%	90.0	74.0%	96.1%	100.0%
84.0	67.9%	95.2%	100.0%	78.0	62.3%	94.2%	100.0%
72.0	56.6%	93.3%	100.0%	66.0	42.5%	91.1%	100.0%
60.0	28.3%	88.9%	100.0%	54.0	19.6%	85.8%	100.0%
48.0	10.9%	82.7%	100.0%	42.0	6.5%	78.9%	99.5%
36.0	2.2%	75.1%	99.0%	30.0	1.1%	67.6%	97.6%
24.0	0.0%	60.1%	96.1%	18.0	0.0%	48.8%	89.0%
12.0	0.0%	37.6%	81.8%	6.0	0.0%	18.8%	40.9%

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

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

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

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



COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

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

Claim Period	Months of Development:							240
	12	24	36	48	60	72	84	
to 1/9/95/06								
1996/97	0	1	451	506	4,206	4,988	5,988	6,838
1997/98	4	7	172	4,517	7,982	15,867	19,217	22,967
1998/99	0	0	0	0	2,205	3,860	7,345	9,025
1999/00	0	12,065	17,115	17,115	17,650	23,630	27,830	37,925
2000/01	0	0	156	551	1,046	4,406	4,706	4,706
2001/02	0	0	30	9,351	12,349	16,054	25,061	25,061
2002/03	10	12	1,260	1,263	3,248	4,488	4,888	4,986
2003/04	0	0	0	8,781	16,656	18,246	19,496	19,646
2004/05	0	90	107	5,775	16,665	18,715	18,715	18,715
2005/06	0	1	516	528	6,778	9,228	9,908	11,533
2006/07	0	16	16	26	2,016	4,766	4,766	4,766
2007/08	0	127	127	3,677	6,027	8,427	8,427	8,427
2008/09	0	0	2,445	3,155	3,155	4,405	5,155	5,155
2009/10	0	0	0	2,318	7,653	10,438		
2010/11	0	0	0	0	2,850			
2011/12	0	20,100	20,825	24,390				
2012/13	0	850						
2013/14	0	0						
2014/15	0	0						

Claim Period	Months of Development:							240-Ult
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	
to 1/9/95/96								
1996/97	1,971	451,000	1,122	8,312	1,186	1,200	1,142	1,123
1997/98		24,913	26,276	1,769	1,998	1,204	1,195	1,120
1998/99		1,000	1,419	1,031	1,350	1,168	1,228	1,083
1999/00		0	3,532	1,898	4,212	1,068	1,359	1,003
2000/01		0	311,700	1,321	1,300	1,561	1,000	2,487
2001/02	1,150	109,565	1,002	2,572	1,382	1,089	1,020	1,066
2002/03		0	1,897	1,897	1,095	1,069	1,008	1,000
2003/04		1,189	53,971	2,886	1,123	1,000	1,000	1,000
2004/05		1032,000	1,023	12,837	1,361	1,074	1,164	1,006
2005/06		1,000	1,621	77,245	1,000	2,364	1,000	1,000
2006/07		1,000	28,953	1,639	1,398	1,000	1,000	1,000
2007/08		1,000	1,290	1,000	1,396	1,170	1,000	1,000
2008/09		0	0	3,302	1,364			
2009/10		1,036	1,171					
2010/11		1,000						
2011/12								
2012/13								
2013/14								
2014/15								

Average	Months of Development:							100.0%
	12	24	36	48	60	72	84	
All	1,561	162,370	36,090	8,530	1,634	1,246	1,093	1,036
Wtd 3		1,035	1,419	1,885	1,382	1,236	1,070	1,002
Last 3				2,065	1,386	1,511	1,055	1,002
Last 5				2,218	1,374	1,081	1,003	1,002
x-Hilow								
Similar	6,500	3,400	2,100	1,640	1,360	1,170	1,100	1,060
Previous	2,000	120,000	5,000	2,600	2,000	1,200	1,180	1,120
Selected	2,000	120,000	5,000	2,600	2,000	1,200	1,180	1,120
Cumulative	#####	551,359	45,928	3,533	1,472	1,766	1,472	1,114
Percent	0.0%	0.0%	2.2%	10.9%	28.3%	56.6%	67.9%	89.8%

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 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 1/9/95/96																					
1995/97	4	30	34	34	35	37	37	37	37	37	37	37	37	37	37	37	37	31	31	37	
1997/98	12	24	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	
1999/00	12	32	37	39	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	
2001/02	99	129	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	
2003/04	89	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	
2005/06	82	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	
2007/08	31	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	
2009/10	32	32	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	
2011/12	35	36	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	
2013/14	33	34																			
2014/15	29																				

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 1/9/95/96																				
1995/97	7.500	1.133	1.000	1.029	1.057	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.838	1.194	1.000	1.000
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	1.000	1.000	1.000	1.000	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	2.867	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																		
2013/14	1.030																			
2014/15																				
Average All	1.814	1.043	1.008	1.005	1.011	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.919	1.194	1.000	1.000
Wtd 3	1.028	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 3	1.028	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	1.028	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	1.225	1.050	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
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 1/995/06																					
1996/97	0.0%	0.0%	10.2%	4.7%	44.7%	31.6%	39.2%	45.9%	56.9%	30.6%	49.9%	98.1%	98.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1997/98	0.0%	0.1%	0.9%	14.6%	23.6%	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%	
1998/99	0.0%	0.0%	0.0%	0.0%	12.6%	36.8%	46.0%	56.1%	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%	0.0%	33.8%	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%	51.3%	96.9%	96.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2002/03	0.0%	0.1%	21.8%	15.0%	39.4%	66.1%	85.9%	93.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2003/04	0.0%	0.0%	0.0%	22.6%	56.0%	63.7%	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%	
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%	
2005/06	0.0%	0.0%	2.3%	0.0%	39.3%	55.1%	71.5%	73.9%	45.3%	92.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2006/07	0.0%	0.1%	0.2%	0.5%	42.7%	86.7%	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%	68.9%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	
2010/11	0.0%	0.0%	0.0%	25.7%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	
2011/12	0.0%	58.7%	52.2%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	
2012/13	0.0%	7.1%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	
2013/14	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
2014/15	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Average																					
All	0.0%	6.3%	9.0%	19.9%	41.0%	53.8%	70.6%	78.2%	76.4%	91.3%	94.2%	99.8%	99.7%	96.5%	95.8%	94.7%	92.9%	100.0%	100.0%	100.0%	
Last 3		21.9%	18.4%	33.9%	44.4%	65.7%	75.4%	91.3%	80.1%	97.4%	100.0%	100.0%	100.0%	100.0%	100.0%	92.9%	92.9%	100.0%	100.0%	100.0%	
Last 5			9.3%	25.4%	44.3%	56.0%	78.4%	97.5%	98.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
x-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%	



COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Paid Losses 11/30/15 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1995/96	240.0	\$8,258,600	100.0%	\$8,258,600
1996/97	228.0	0	100.0%	0
1997/98	216.0	503,400	100.0%	503,400
1998/99	204.0	50,000	100.0%	50,000
1999/00	192.0	2,250,000	100.0%	2,250,000
2000/01	180.0	950,000	100.0%	950,000
2001/02	168.0	1,213,000	100.0%	1,213,000
2002/03	156.0	22,000	100.0%	22,000
2003/04	144.0	3,408,500	100.0%	3,408,500
2004/05	132.0	18,000	98.0%	18,360
2005/06	120.0	1,028,000	94.3%	1,090,502
2006/07	108.0	16,100	89.8%	17,933
2007/08	96.0	1,125,000	80.2%	1,403,438
2008/09	84.0	0	67.9%	0
2009/10	72.0	1,045,000	56.6%	1,845,952
2010/11	60.0	3,000	28.3%	10,599
2011/12	48.0	0	10.9%	0
2012/13	36.0	0	2.2%	0
2013/14	24.0	0	0.0%	0
2014/15	12.0	0	0.0%	0

(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

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1995/96	240.0	\$8,258,600	100.0%	\$8,258,600
1996/97	228.0	0	100.0%	0
1997/98	216.0	503,400	100.0%	503,400
1998/99	204.0	50,000	100.0%	50,000
1999/00	192.0	2,250,000	100.0%	2,250,000
2000/01	180.0	950,000	100.0%	950,000
2001/02	168.0	1,213,000	100.0%	1,213,000
2002/03	156.0	22,000	100.0%	22,000
2003/04	144.0	3,408,500	100.0%	3,408,500
2004/05	132.0	18,000	100.0%	18,000
2005/06	120.0	1,028,000	100.0%	1,028,000
2006/07	108.0	16,100	99.0%	16,261
2007/08	96.0	1,125,000	97.1%	1,158,975
2008/09	84.0	0	95.2%	0
2009/10	72.0	1,795,000	93.3%	1,923,917
2010/11	60.0	3,000	88.9%	3,376
2011/12	48.0	15,000	82.7%	18,147
2012/13	36.0	400,000	75.1%	532,319
2013/14	24.0	0	60.1%	0
2014/15	12.0	0	37.6%	0

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

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



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-5

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/15 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/15 (6)	Limited Case Reserves 11/30/15 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1995/96	240.0	100.0%	100.0%	100.0%	\$8,258,600	\$0	\$8,258,600
1996/97	228.0	100.0%	100.0%	100.0%	0	0	0
1997/98	216.0	100.0%	100.0%	100.0%	503,400	0	503,400
1998/99	204.0	100.0%	100.0%	100.0%	50,000	0	50,000
1999/00	192.0	100.0%	100.0%	100.0%	2,250,000	0	2,250,000
2000/01	180.0	100.0%	100.0%	100.0%	950,000	0	950,000
2001/02	168.0	100.0%	100.0%	100.0%	1,213,000	0	1,213,000
2002/03	156.0	100.0%	100.0%	100.0%	22,000	0	22,000
2003/04	144.0	100.0%	100.0%	100.0%	3,408,500	0	3,408,500
2004/05	132.0	98.0%	100.0%	100.0%	18,000	0	18,000
2005/06	120.0	94.3%	100.0%	100.0%	1,028,000	0	1,028,000
2006/07	108.0	89.8%	99.0%	90.3%	16,100	0	16,100
2007/08	96.0	80.2%	97.1%	85.2%	1,125,000	0	1,125,000
2008/09	84.0	67.9%	95.2%	84.9%	0	0	0
2009/10	72.0	56.6%	93.3%	84.6%	1,045,000	750,000	1,931,978
2010/11	60.0	28.3%	88.9%	84.5%	3,000	0	3,000
2011/12	48.0	10.9%	82.7%	80.5%	0	15,000	18,625
2012/13	36.0	2.2%	75.1%	74.6%	0	400,000	536,268
2013/14	24.0	0.0%	60.1%	60.1%	0	0	0
2014/15	12.0	0.0%	37.6%	37.6%	0	0	0

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

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



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-6

Preliminary Projected Ultimate Limited Losses to 2014/15

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 1995/96	\$8,258,600	\$8,258,600	\$8,258,600	\$8,258,600
1996/97	0	0	0	0
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	18,360	18,000	18,000	18,000
2005/06	1,090,502	1,028,000	1,028,000	1,028,000
2006/07	17,933	16,261	16,100	16,100
2007/08	1,403,438	1,158,975	1,125,000	1,125,000
2008/09	0	0	0	0
2009/10	1,845,952	1,923,917	1,931,978	1,929,560
2010/11	10,599	3,376	3,000	3,000
2011/12	0	18,147	18,625	16,571
2012/13	0	532,319	536,268	440,000
2013/14	0	0	0	0
2014/15	0	0	0	0
Total	\$21,042,284	\$21,354,496	\$21,332,471	\$21,231,731

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

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

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

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



Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2015/16 = 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)
2005/06	\$1,028,000	752	\$1,366.85	1.495	\$2,043.51	\$639.65
2006/07	16,100	625	25.77	1.438	37.05	665.23
2007/08	1,125,000	792	1,420.74	1.382	1,963.82	691.84
2008/09	0	792	0.00	1.329	0.00	719.52
2009/10	1,929,560	792	2,436.80	1.245	3,034.27	768.00
2010/11	3,000	792	3.79	1.187	4.50	805.66
2011/12	16,571	959	17.28	1.141	19.72	837.89
2012/13	440,000	892	493.43	1.110	547.56	861.76
2013/14	0	892	0.00	1.071	0.00	893.00
2014/15	0	912	0.00	1.034	0.00	924.84

(7) Projected 2015/16 a-priori loss rate per Occupied Bed Equivalent \$956.30

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/15 (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)
2010/11	\$3,000	28.3%	\$805.66	792	\$457,382	\$460,382
2011/12	0	10.9%	837.89	959	716,049	716,049
2012/13	0	2.2%	861.76	892	751,717	751,717
2013/14	0	0.0%	893.00	892	796,158	796,158
2014/15	0	0.0%	924.84	912	843,235	843,235

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (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)
2010/11	\$3,000	88.9%	\$805.66	792	\$71,091	\$74,091
2011/12	15,000	82.7%	837.89	959	139,354	154,354
2012/13	400,000	75.1%	861.76	892	191,014	591,014
2013/14	0	60.1%	893.00	892	317,611	317,611
2014/15	0	37.6%	924.84	912	526,468	526,468

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

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

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

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

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

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

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



Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/15 (2)	Reported Claims 11/30/15 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2005/06	120.0	22	100.0%	22	752	0.03
2006/07	108.0	16	100.0%	16	625	0.03
2007/08	96.0	11	100.0%	11	792	0.01
2008/09	84.0	0	100.0%	0	792	0.00
2009/10	72.0	3	100.0%	3	792	0.00
2010/11	60.0	1	100.0%	1	792	0.00
2011/12	48.0	2	100.0%	2	959	0.00
2012/13	36.0	7	99.0%	7	892	0.01
2013/14	24.0	0	96.1%	0	892	0.00
2014/15	12.0	0	81.8%	0	912	0.00

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2015/16 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2015/16 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2005/06	\$1,028,000	22	\$46,727	1.495	\$69,859	\$91,664	\$2,016,600
2006/07	16,100	16	1,006	1.438	1,447	95,330	1,525,283
2007/08	1,125,000	11	102,273	1.382	141,367	99,143	1,090,577
2008/09	0	0	0	1.329	0	103,109	0
2009/10	1,929,560	3	643,187	1.245	800,888	110,057	330,171
2010/11	3,000	1	3,000	1.187	3,561	115,454	115,454
2011/12	16,571	2	8,286	1.141	9,457	120,072	240,144
2012/13	440,000	7	62,857	1.110	69,753	123,493	864,453
2013/14	0	0	0	1.071	0	127,970	0
2014/15	0	0	0	1.034	0	132,533	0
(7) Projected 2015/16 average claim severity						\$137,041	

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

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

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

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

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

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

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



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-9

Projected Ultimate Limited Losses to 2014/15

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 1995/96	\$8,258,600	\$8,258,600	\$8,258,600				\$8,258,600	\$8,258,600
1996/97	0	0	0					0
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	18,360	18,000	18,000				18,000	18,000
2005/06	1,090,502	1,028,000	1,028,000				1,028,000	1,028,000
2006/07	17,933	16,261	16,100				16,100	16,100
2007/08	1,403,438	1,158,975	1,125,000				1,125,000	1,125,000
2008/09	0	0	0					0
2009/10	1,845,952	1,923,917	1,931,978				2,070,000	2,000,000
2010/11	10,599	3,376	3,000	460,382	74,091	115,454	1,000,000	500,000
2011/12	0	18,147	18,625	716,049	154,354	240,144	2,125,000	750,000
2012/13	0	532,319	536,268	751,717	591,014	864,453	1,750,000	1,250,000
2013/14	0	0	0	796,158	317,611		1,750,000	1,500,000
2014/15	0	0	0	843,235	526,468		2,068,000	1,750,000
Sum	\$21,042,284	\$21,354,496	\$21,332,471				\$29,605,600	\$26,592,600
2010/11 - 2014/15	10,599	553,843	557,893	3,567,542	1,663,539	1,220,051	8,693,000	5,750,000
to 2009/10	21,031,686	20,800,653	20,774,578				20,912,600	20,842,600
						Change		
						All years		-\$3,013,000
						2010/11 - 2014/15		-2,943,000
						to 2009/10		-70,000

(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 from prior actuarial study.

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



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-10

Projected Ultimate Limited Losses for 2015/16 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2015/16 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)	Present Value of Projected Limited Loss Rate per Occupied Bed Equivalent (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11) (12)
2005/06	\$1,028,000	752	\$1,366.85	1.495	\$2,043.51		
2006/07	16,100	625	25.77	1.438	37.05		
2007/08	1,125,000	792	1,420.74	1.382	1,963.82		
2008/09	0	792	0.00	1.329	0.00		
2009/10	2,000,000	792	2,525.76	1.245	3,145.04		
2010/11	500,000	792	631.44	1.187	749.50		
2011/12	750,000	959	782.07	1.141	892.60		
2012/13	1,250,000	892	1,401.79	1.110	1,555.58		
2013/14	1,500,000	892	1,682.15	1.071	1,801.40		
2014/15	1,750,000	912	1,919.19	1.034	1,984.48		
Total	\$9,919,100	8,198	\$1,209.88		\$1,417.30		
2015/16	\$1,298.39	912	\$1,184,000	0.90	\$1,171.26	\$1,068,000	
2016/17	1,350.32	912	1,231,000	0.90	1,218.11	1,111,000	
2017/18	1,404.34	912	1,281,000	0.90	1,266.84	1,155,000	

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

(3) 2005/06, 2006/07, 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 and adjusted for change in retention.

(7) 2015/16 is based on (6) and actuarial judgment.
 Other period(s) based on 2015/16 plus a 4% trend.

(8) to 2015/16 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.68% 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, 2015

Claim Period (1)	Limited Paid Losses 11/30/15 (2)	Limited Case Reserves 11/30/15 (3)	Limited Reported Incurred Losses 11/30/15 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/15 (5)-(4) (6)	Estimated Outstanding Losses 11/30/15 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/15 (7)X(8) (9)
to 1995/96	\$8,258,600	\$0	\$8,258,600	\$8,258,600	\$0	\$0	1.00	\$0
1996/97	0	0	0	0	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	0.99	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	0.98	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	0.97	0
2009/10	1,045,000	750,000	1,795,000	2,000,000	205,000	955,000	0.97	922,283
2010/11	3,000	0	3,000	500,000	497,000	497,000	0.97	480,268
2011/12	0	15,000	15,000	750,000	735,000	750,000	0.96	718,836
2012/13	0	400,000	400,000	1,250,000	850,000	1,250,000	0.95	1,183,729
2013/14	0	0	0	1,500,000	1,500,000	1,500,000	0.93	1,398,961
2014/15	0	0	0	1,750,000	1,750,000	1,750,000	0.92	1,605,166
Total	\$19,890,600	\$1,165,000	\$21,055,600	\$26,592,600	\$5,537,000	\$6,702,000		\$6,309,243

(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 1.68% 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, 2015 to November 30, 2016

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Months of Development 11/30/16 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/15 to 11/30/16 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/15 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/16 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/16 (9)X(10) (11)
to 1995/96	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1996/97	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1997/98	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
1998/99	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2006/07	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2007/08	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2008/09	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.98	0
2009/10	72.0	56.6%	84.0	67.9%	26.1%	955,000	249,197	705,803	0.97	686,496
2010/11	60.0	28.3%	72.0	56.6%	39.5%	497,000	196,216	300,784	0.97	290,480
2011/12	48.0	10.9%	60.0	28.3%	19.5%	750,000	146,599	603,401	0.97	583,087
2012/13	36.0	2.2%	48.0	10.9%	8.9%	1,250,000	111,289	1,138,711	0.96	1,091,396
2013/14	24.0	0.0%	36.0	2.2%	2.2%	1,500,000	32,394	1,467,606	0.95	1,389,798
2014/15	12.0	0.0%	24.0	0.0%	0.0%	1,750,000	159	1,749,841	0.93	1,631,972
2015/16	0.0	0.0%	12.0	0.0%	0.0%	1,184,000	107	1,183,893	0.92	1,085,911
Total						\$7,886,000	\$735,961	\$7,150,039		\$6,759,140

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

(7) to 2014/15 is from Exhibit MM-Cermak-11. The amount for 2015/16 is from Exhibit MM-Cermak-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit MM-Cermak-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-13

Projected Losses Paid December 1, 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 1995/96	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	705,803	269,133	436,670	0.98	426,645
2010/11	72.0	56.6%	84.0	67.9%	26.1%	300,784	78,486	222,298	0.97	216,217
2011/12	60.0	28.3%	72.0	56.6%	39.5%	603,401	238,223	365,178	0.97	352,668
2012/13	48.0	10.9%	60.0	28.3%	19.5%	1,138,711	222,578	916,133	0.97	885,291
2013/14	36.0	2.2%	48.0	10.9%	8.9%	1,467,606	130,663	1,336,943	0.96	1,281,391
2014/15	24.0	0.0%	36.0	2.2%	2.2%	1,749,841	37,789	1,712,052	0.95	1,621,285
2015/16	12.0	0.0%	24.0	0.0%	0.0%	1,183,893	107	1,183,786	0.93	1,104,047
2016/17	0.0	0.0%	12.0	0.0%	0.0%	1,231,000	112	1,230,888	0.92	1,129,017
Total						\$8,381,039	\$977,091	\$7,403,948		\$7,016,561

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

(7) to 2015/16 is from Exhibit MM-Cermak-12, (9). The amount for 2016/17 is from Exhibit MM-Cermak-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit MM-Cermak-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-14

Projected Losses Paid December 1, 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 1995/96	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	436,670	211,718	224,952	0.98	220,323
2010/11	84.0	67.9%	96.0	80.2%	38.1%	222,298	84,766	137,532	0.98	134,375
2011/12	72.0	56.6%	84.0	67.9%	26.1%	365,178	95,289	269,889	0.97	262,506
2012/13	60.0	28.3%	72.0	56.6%	39.5%	916,133	361,690	554,443	0.97	535,449
2013/14	48.0	10.9%	60.0	28.3%	19.5%	1,336,943	261,326	1,075,617	0.97	1,039,406
2014/15	36.0	2.2%	48.0	10.9%	8.9%	1,712,052	152,426	1,559,626	0.96	1,494,821
2015/16	24.0	0.0%	36.0	2.2%	2.2%	1,183,786	25,565	1,158,221	0.95	1,096,816
2016/17	12.0	0.0%	24.0	0.0%	0.0%	1,230,888	112	1,230,776	0.93	1,147,871
2017/18	0.0	0.0%	12.0	0.0%	0.0%	1,281,000	116	1,280,884	0.92	1,174,875
Total						\$8,684,948	\$1,193,008	\$7,491,940		\$7,106,442

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

(7) to 2016/17 is from Exhibit MM-Cermak-13, (9). The amount for 2017/18 is from Exhibit MM-Cermak-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit MM-Cermak-2.



COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-15

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

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/15 (5)	Unlimited Case Reserves 11/30/15 (6)	Unlimited Reported Incurred Losses 11/30/15 (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.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Exhibit MM-Cermak-16

Calculation of Occupied Bed Equivalents

Claim Period (1)	Inpatients (2)	ER Visits (3)	Other Visits (4)	Other Visits (5)	Other Visits (6)	Physicians (7)	Occupied Bed Equivalents (8)
to 1995/96							0
1996/97							0
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	713	29,765	29,186	34,544		41	912

(2) through (7) were provided by the County. (4) is for Fantus. (5) is for CORE. (7) assumes no change from 2010/11.

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 2013. 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)



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

Data Summary as of November 30, 2015
 Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Limited Paid Losses 11/30/15 (8)	Limited Case Reserves 11/30/15 (9)	Limited Reported Incurred Losses 11/30/15 (10)
to 1995/96	See Note	None	240.0	Not Provided	N/A	0	\$156,356,918	\$0	\$156,356,918
1996/97	Unlimited	None	228.0	2,408	29	0	11,236,700	0	11,236,700
1997/98	Unlimited	None	216.0	2,380	19	0	30,083,500	0	30,083,500
1998/99	Unlimited	None	204.0	2,328	34	1	9,880,000	3,000,000	12,880,000
1999/00	Unlimited	None	192.0	2,272	30	0	33,190,000	0	33,190,000
2000/01	10,000,000	25,000,000	180.0	2,352	85	0	10,411,000	0	10,411,000
2001/02	15,000,000	50,000,000	168.0	2,442	102	0	23,647,540	0	23,647,540
2002/03	20,000,000	80,000,000	156.0	2,379	78	0	4,268,500	0	4,268,500
2003/04	20,000,000	None	144.0	2,401	106	0	8,377,500	0	8,377,500
2004/05	20,000,000	None	132.0	2,370	72	0	19,606,850	0	19,606,850
2005/06	20,000,000	None	120.0	2,282	63	0	22,575,000	0	22,575,000
2006/07	20,000,000	None	108.0	2,131	42	0	4,750,000	0	4,750,000
2007/08	20,000,000	None	96.0	2,195	29	0	7,002,000	0	7,002,000
2008/09	20,000,000	None	84.0	2,280	30	2	4,855,000	3,100,000	7,955,000
2009/10	40,000,000	None	72.0	2,137	27	1	8,592,500	1,200,000	9,792,500
2010/11	40,000,000	None	60.0	2,171	36	5	4,875,000	6,305,000	11,180,000
2011/12	40,000,000	None	48.0	2,171	31	10	24,024,999	13,300,000	37,324,999
2012/13	30,000,000	None	36.0	2,226	33	17	850,000	26,300,000	27,150,000
2013/14	30,000,000	None	24.0	2,226	32	29	0	6,405,000	6,405,000
2014/15	25,000,000	None	12.0	2,113	28	28	0	6,750,000	6,750,000
Total					906	93	\$384,583,007	\$66,360,000	\$450,943,007

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

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

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

Data was provided by the County.



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

Data Summary as of November 30, 2015
 Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Unlimited Paid Losses 11/30/15 (8)	Unlimited Case Reserves 11/30/15 (9)	Unlimited Reported Incurred Losses 11/30/15 (10)
to 1995/96	Unlimited	None	240.0	Not Provided	N/A	0	\$156,356,918	\$0	\$156,356,918
1996/97	Unlimited	None	228.0	2,408	29	0	11,236,700	0	11,236,700
1997/98	Unlimited	None	216.0	2,380	19	0	30,083,500	0	30,083,500
1998/99	Unlimited	None	204.0	2,328	34	1	9,880,000	3,000,000	12,880,000
1999/00	Unlimited	None	192.0	2,272	30	0	33,190,000	0	33,190,000
2000/01	Unlimited	25,000,000	180.0	2,352	85	0	10,411,000	0	10,411,000
2001/02	Unlimited	50,000,000	168.0	2,442	102	0	23,647,540	0	23,647,540
2002/03	Unlimited	80,000,000	156.0	2,379	78	0	4,268,500	0	4,268,500
2003/04	Unlimited	None	144.0	2,401	106	0	8,377,500	0	8,377,500
2004/05	Unlimited	None	132.0	2,370	72	0	19,606,850	0	19,606,850
2005/06	Unlimited	None	120.0	2,282	63	0	22,575,000	0	22,575,000
2006/07	Unlimited	None	108.0	2,131	42	0	4,750,000	0	4,750,000
2007/08	Unlimited	None	96.0	2,195	29	0	7,002,000	0	7,002,000
2008/09	Unlimited	None	84.0	2,280	30	2	4,855,000	3,100,000	7,955,000
2009/10	Unlimited	None	72.0	2,137	27	1	8,592,500	1,200,000	9,792,500
2010/11	Unlimited	None	60.0	2,171	36	5	4,875,000	6,305,000	11,180,000
2011/12	Unlimited	None	48.0	2,171	31	10	24,024,999	13,300,000	37,324,999
2012/13	Unlimited	None	36.0	2,226	33	17	850,000	26,300,000	27,150,000
2013/14	Unlimited	None	24.0	2,226	32	29	0	6,405,000	6,405,000
2014/15	Unlimited	None	12.0	2,113	28	28	0	6,750,000	6,750,000
Total					906	93	\$384,583,007	\$66,360,000	\$450,943,007

(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 - JOHN H. STROGER, JR. HOSPITAL

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)	Months of Development (5)	Percent Losses Paid (6)	Percent Losses Reported (7)	Percent Claims Reported (8)
360.0	100.0%	100.0%	100.0%	354.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%	342.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%	330.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%	318.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%	306.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%	294.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%	282.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%	270.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%	258.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%	246.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%	234.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%	222.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%	210.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%	198.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%	186.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%	174.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%	162.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%	150.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%	138.0	99.0%	100.0%	100.0%
132.0	98.0%	100.0%	100.0%	126.0	96.2%	100.0%	100.0%
120.0	94.3%	100.0%	100.0%	114.0	92.0%	99.5%	100.0%
108.0	89.8%	99.0%	100.0%	102.0	85.0%	98.0%	100.0%
96.0	80.2%	97.1%	100.0%	90.0	74.0%	96.1%	100.0%
84.0	67.9%	95.2%	100.0%	78.0	62.3%	94.2%	100.0%
72.0	56.6%	93.3%	100.0%	66.0	42.5%	91.1%	100.0%
60.0	28.3%	88.9%	100.0%	54.0	19.6%	85.8%	100.0%
48.0	10.9%	82.7%	100.0%	42.0	6.5%	78.9%	99.5%
36.0	2.2%	75.1%	99.0%	30.0	1.1%	67.6%	97.6%
24.0	0.0%	60.1%	96.1%	18.0	0.0%	48.8%	89.0%
12.0	0.0%	37.6%	81.8%	6.0	0.0%	18.8%	40.9%

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

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

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

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



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

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

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
	I. Historical Limited Paid Losses (\$000)																				
to 1995/96																					
1995/97	0	1	451	506	4,206	4,988	5,988	6,838	7,678	7,678	8,778	15,528	15,628	15,628	15,628	15,628	15,628	15,628	15,628	15,628	
1997/98	4	7	172	4,517	7,982	15,867	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	
1998/99	0	0	0	0	2,205	3,860	5,988	7,346	9,025	9,775	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	17,115	17,115	17,650	23,830	27,830	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	4,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	11,706	
2001/02	0	0	30	9,351	12,349	16,054	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	
2002/03	10	12	1,260	1,263	3,248	4,488	4,488	4,488	4,488	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	8,781	16,656	18,246	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	
2004/05	0	0	0	0	16,665	17,715	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	1	5,778	6,778	9,228	9,908	11,533	11,533	11,603	11,603	23,603	23,603	23,603	23,603	23,603	23,603	23,603	23,603	23,603	
2006/07	0	0	16	26	2,016	4,266	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	0	0	2,445	3,155	3,155	3,155	3,155	3,155	3,155	3,155	3,155	3,155	3,155	3,155	3,155	3,155	3,155	3,155	3,155	
2009/10	0	0	0	2,318	2,850	2,850	2,850	2,850	2,850	2,850	2,850	2,850	2,850	2,850	2,850	2,850	2,850	2,850	2,850	2,850	
2010/11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2011/12	0	20,100	20,825	24,390	4,878																
2012/13	0	850	850																		
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	

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	
	II. Limited Paid Loss Development																				
to 1995/96																					
1995/97				8,312	1,186	1,200	1,142	1,123	1,000	1,143	1,769	1,000	1,006	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
1997/98	1,971	24,913	26,276	1,769	1,988	1,204	1,195	1,120	1,151	1,093	1,046	1,046	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	1,668	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	
2001/02	1,150	109,565	1,002	2,572	1,382	1,069	1,020	1,066	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2002/03			1,897	1,897	1,095	1,887	1,089	1,000	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			53,971	2,886	1,123	1,123	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			1,189	2,886	1,123	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	
2005/06			1032,000	1,023	1,361	1,074	1,164	1,006	2,034												
2006/07			1,000	16,21	7,245	1,000	2,364	1,000													
2007/08			1,000	28,953	1,639	1,388	1,000														
2008/09			1,000	1,290	1,000	1,396	1,000														
2009/10				3,302	1,364	1,170															
2010/11				1,712																	
2011/12			1,036																		
2012/13			1,000																		
2013/14																					
2014/15																					

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 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 1/9/95/06																						
1996/97	0.0%	0.0%	10.2%	4.7%	44.2%	31.6%	39.2%	45.9%	56.9%	30.6%	49.9%	98.1%	98.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1997/98	0.0%	0.1%	0.9%	14.6%	23.6%	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%	
1998/99	0.0%	0.0%	0.0%	0.0%	12.6%	36.6%	46.0%	56.1%	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%	0.0%	33.8%	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%	96.9%	96.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2002/03	0.0%	0.1%	21.8%	15.0%	39.4%	66.1%	85.9%	93.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2003/04	0.0%	0.0%	0.0%	22.6%	56.0%	63.7%	86.3%	97.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2004/05	0.0%	0.3%	0.5%	24.0%	78.1%	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%	0.0%	39.3%	55.1%	71.5%	73.9%	84.9%	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%	0.1%	0.2%	0.5%	42.7%	86.7%	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%	77.1%	84.4%	84.4%	84.4%	84.4%	84.4%	84.4%	84.4%	84.4%	84.4%	84.4%	84.4%	84.4%	84.4%	
2008/09	0.0%	0.0%	25.0%	30.8%	33.0%	33.0%	33.0%	33.0%	33.0%	33.0%	33.0%	33.0%	33.0%	33.0%	33.0%	33.0%	33.0%	33.0%	33.0%	33.0%	33.0%	
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	
2010/11	0.0%	0.0%	0.0%	25.7%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	
2011/12	0.0%	58.7%	52.2%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	
2012/13	0.0%	7.1%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	
2013/14	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
2014/15	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Average																						
All	0.0%	6.3%	9.0%	19.9%	41.0%	53.8%	70.6%	78.2%	76.4%	91.3%	94.2%	99.8%	99.7%	96.5%	95.8%	94.7%	92.9%	100.0%	100.0%	100.0%	100.0%	
Last 3		21.9%	18.4%	33.9%	44.4%	65.7%	75.4%	91.3%	80.1%	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			9.3%	25.4%	44.3%	56.0%	78.4%	97.5%	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%	



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

Exhibit MM-Stroger-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Paid Losses 11/30/15 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1995/96	240.0	\$156,356,918	100.0%	\$156,356,918
1996/97	228.0	11,236,700	100.0%	11,236,700
1997/98	216.0	30,083,500	100.0%	30,083,500
1998/99	204.0	9,880,000	100.0%	9,880,000
1999/00	192.0	33,190,000	100.0%	33,190,000
2000/01	180.0	10,411,000	100.0%	10,411,000
2001/02	168.0	23,647,540	100.0%	23,647,540
2002/03	156.0	4,268,500	100.0%	4,268,500
2003/04	144.0	8,377,500	100.0%	8,377,500
2004/05	132.0	19,606,850	98.0%	19,998,987
2005/06	120.0	22,575,000	94.3%	23,947,560
2006/07	108.0	4,750,000	89.8%	5,290,740
2007/08	96.0	7,002,000	80.2%	8,735,001
2008/09	84.0	4,855,000	67.9%	7,146,807
2009/10	72.0	8,592,500	56.6%	15,178,317
2010/11	60.0	4,875,000	28.3%	17,222,996
2011/12	48.0	24,024,999	10.9%	56,972,022 *
2012/13	36.0	850,000	2.2%	39,038,791
2013/14	24.0	0	0.0%	0
2014/15	12.0	0	0.0%	0

* - 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.



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

Exhibit MM-Stroger-4

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1995/96	240.0	\$156,356,918	100.0%	\$156,356,918
1996/97	228.0	11,236,700	100.0%	11,236,700
1997/98	216.0	30,083,500	100.0%	30,083,500
1998/99	204.0	12,880,000	100.0%	12,880,000
1999/00	192.0	33,190,000	100.0%	33,190,000
2000/01	180.0	10,411,000	100.0%	10,411,000
2001/02	168.0	23,647,540	100.0%	23,647,540
2002/03	156.0	4,268,500	100.0%	4,268,500
2003/04	144.0	8,377,500	100.0%	8,377,500
2004/05	132.0	19,606,850	100.0%	19,606,850
2005/06	120.0	22,575,000	100.0%	22,575,000
2006/07	108.0	4,750,000	99.0%	4,797,500
2007/08	96.0	7,002,000	97.1%	7,213,460
2008/09	84.0	7,955,000	95.2%	8,359,146
2009/10	72.0	9,792,500	93.3%	10,495,798
2010/11	60.0	11,180,000	88.9%	12,582,096
2011/12	48.0	37,324,999	82.7%	40,960,077 *
2012/13	36.0	27,150,000	75.1%	36,131,182
2013/14	24.0	6,405,000	60.1%	10,654,706
2014/15	12.0	6,750,000	37.6%	17,965,781

* - 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.



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

Exhibit MM-Stroger-5

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/15 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/15 (6)	Limited Case Reserves 11/30/15 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1995/96	240.0	100.0%	100.0%	100.0%	\$156,356,918	\$0	\$156,356,918
1996/97	228.0	100.0%	100.0%	100.0%	11,236,700	0	11,236,700
1997/98	216.0	100.0%	100.0%	100.0%	30,083,500	0	30,083,500
1998/99	204.0	100.0%	100.0%	100.0%	9,880,000	3,000,000	12,880,000
1999/00	192.0	100.0%	100.0%	100.0%	33,190,000	0	33,190,000
2000/01	180.0	100.0%	100.0%	100.0%	10,411,000	0	10,411,000
2001/02	168.0	100.0%	100.0%	100.0%	23,647,540	0	23,647,540
2002/03	156.0	100.0%	100.0%	100.0%	4,268,500	0	4,268,500
2003/04	144.0	100.0%	100.0%	100.0%	8,377,500	0	8,377,500
2004/05	132.0	98.0%	100.0%	100.0%	19,606,850	0	19,606,850
2005/06	120.0	94.3%	100.0%	100.0%	22,575,000	0	22,575,000
2006/07	108.0	89.8%	99.0%	90.3%	4,750,000	0	4,750,000
2007/08	96.0	80.2%	97.1%	85.2%	7,002,000	0	7,002,000
2008/09	84.0	67.9%	95.2%	84.9%	4,855,000	3,100,000	8,505,358
2009/10	72.0	56.6%	93.3%	84.6%	8,592,500	1,200,000	10,011,665
2010/11	60.0	28.3%	88.9%	84.5%	4,875,000	6,305,000	12,340,344
2011/12	48.0	10.9%	82.7%	80.5%	24,024,999	13,300,000	40,538,855
2012/13	36.0	2.2%	75.1%	74.6%	850,000	26,300,000	36,109,615
2013/14	24.0	0.0%	60.1%	60.1%	0	6,405,000	10,655,989
2014/15	12.0	0.0%	37.6%	37.6%	0	6,750,000	17,968,490

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

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



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

Exhibit MM-Stroger-6

Preliminary Projected Ultimate Limited Losses to 2014/15

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 1995/96	\$156,356,918	\$156,356,918	\$156,356,918	\$156,356,918
1996/97	11,236,700	11,236,700	11,236,700	11,236,700
1997/98	30,083,500	30,083,500	30,083,500	30,083,500
1998/99	9,880,000	12,880,000	12,880,000	13,180,000
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	19,998,987	19,606,850	19,606,850	19,606,850
2005/06	23,947,560	22,575,000	22,575,000	22,575,000
2006/07	5,290,740	4,797,500	4,750,000	4,750,000
2007/08	8,735,001	7,213,460	7,002,000	7,002,000
2008/09	7,146,807	8,359,146	8,505,358	8,476,116
2009/10	15,178,317	10,495,798	10,011,665	10,156,905
2010/11	17,222,996	12,582,096	12,340,344	12,437,045
2011/12	56,972,022	40,960,077	40,538,855	42,350,660
2012/13	39,038,791	36,131,182	36,109,615	36,411,160
2013/14	0	10,654,706	10,655,989	10,655,348
2014/15	0	17,965,781	17,968,490	17,967,136
Total	\$480,982,880	\$481,793,255	\$480,515,825	\$483,139,877

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

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

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

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



Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2015/16 = 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)
2005/06	\$22,575,000	2,282	\$9,891.61	1.495	\$14,788.42	\$5,360.92
2006/07	4,750,000	2,131	2,228.77	1.438	3,203.96	5,575.36
2007/08	7,002,000	2,195	3,190.58	1.382	4,410.20	5,798.37
2008/09	8,476,116	2,280	3,717.57	1.329	4,941.00	6,030.31
2009/10	10,156,905	2,137	4,752.33	1.245	5,917.54	6,436.64
2010/11	12,437,045	2,171	5,728.97	1.187	6,800.16	6,752.29
2011/12	42,350,660	2,171	19,508.31	1.141	22,265.33	7,022.39
2012/13	36,411,160	2,226	16,358.47	1.110	18,153.13	7,222.47
2013/14	10,655,348	2,226	4,787.14	1.071	5,126.50	7,484.26
2014/15	17,967,136	2,113	8,503.26	1.034	8,792.53	7,751.14

(7) Projected 2015/16 a-priori loss rate per Occupied Bed Equivalent \$8,014.83

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/15 (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)
2010/11	\$4,875,000	28.3%	\$6,752.29	2,171	\$10,509,444	\$15,384,444
2011/12	24,024,999	10.9%	7,022.39	2,171	13,585,270	37,610,269
2012/13	850,000	2.2%	7,222.47	2,226	15,725,947	16,575,947
2013/14	0	0.0%	7,484.26	2,226	16,655,660	16,655,660
2014/15	0	0.0%	7,751.14	2,113	16,376,447	16,376,447

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (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)
2010/11	\$11,180,000	88.9%	\$6,752.29	2,171	\$1,633,491	\$12,813,491
2011/12	37,324,999	82.7%	7,022.39	2,171	2,643,907	39,968,906
2012/13	27,150,000	75.1%	7,222.47	2,226	3,996,029	31,146,029
2013/14	6,405,000	60.1%	7,484.26	2,226	6,644,435	13,049,435
2014/15	6,750,000	37.6%	7,751.14	2,113	10,224,510	16,974,510

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

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

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

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

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

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

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



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

Exhibit MM-Stroger-8

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/15 (2)	Reported Claims 11/30/15 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2005/06	120.0	63	100.0%	63	2,282	0.03
2006/07	108.0	42	100.0%	42	2,131	0.02
2007/08	96.0	29	100.0%	29	2,195	0.01
2008/09	84.0	30	100.0%	30	2,280	0.01
2009/10	72.0	27	100.0%	27	2,137	0.01
2010/11	60.0	36	100.0%	36	2,171	0.02
2011/12	48.0	31	100.0%	31	2,171	0.01
2012/13	36.0	33	99.0%	33	2,226	0.01
2013/14	24.0	32	96.1%	33	2,226	0.01
2014/15	12.0	28	81.8%	34	2,113	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 (2015/16 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2015/16 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2005/06	\$22,575,000	63	\$358,333	1.495	\$535,725	\$327,204	\$20,613,864
2006/07	4,750,000	42	113,095	1.438	162,579	340,292	14,292,279
2007/08	7,002,000	29	241,448	1.382	333,743	353,904	10,263,217
2008/09	8,476,116	30	282,537	1.329	375,518	368,060	11,041,806
2009/10	10,156,905	27	376,182	1.245	468,417	392,861	10,607,248
2010/11	12,437,045	36	345,473	1.187	410,070	412,127	14,836,562
2011/12	42,350,660	31	1,366,150	1.141	1,559,222	428,612	13,286,966
2012/13	36,411,160	33	1,103,368	1.110	1,224,417	440,824	14,547,182
2013/14	10,655,348	33	322,889	1.071	345,779	456,802	15,074,477
2014/15	17,967,136	34	528,445	1.034	546,422	473,091	16,085,105
(7) Projected 2015/16 average claim severity					\$489,186		

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.



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

Exhibit MM-Stroger-9

Projected Ultimate Limited Losses to 2014/15

Claim Period (1)	Developed Limited Paid Losses (2)	Developed Limited Reported Incurred Losses (3)	Developed Limited Case Reserves (4)	B-F Ultimate Paid Losses (5)	B-F Ultimate Reported Losses (6)	Frequency Times Severity (7)	Prior Projected Ultimate Limited Losses (8)	Projected Ultimate Limited Losses (9)
to 1995/96	\$156,356,918	\$156,356,918	\$156,356,918				\$156,356,918	\$156,356,918
1996/97	11,236,700	11,236,700	11,236,700				11,236,700	11,236,700
1997/98	30,083,500	30,083,500	30,083,500				30,083,500	30,083,500
1998/99	9,880,000	12,880,000	12,880,000				13,180,000	13,180,000
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	19,998,987	19,606,850	19,606,850				19,606,850	19,606,850
2005/06	23,947,560	22,575,000	22,575,000				23,862,000	22,575,000
2006/07	5,290,740	4,797,500	4,750,000				5,500,000	4,750,000
2007/08	8,735,001	7,213,460	7,002,000				10,500,000	7,500,000
2008/09	7,146,807	8,359,146	8,505,358				12,500,000	10,000,000
2009/10	15,178,317	10,495,798	10,011,665				15,000,000	11,000,000
2010/11	17,222,996	12,582,096	12,340,344	15,384,444	12,813,491	14,836,562	16,500,000	14,000,000
2011/12	56,972,022	40,960,077	40,538,855	37,610,269	39,968,906	13,286,966	43,300,000	41,500,000
2012/13	39,038,791	36,131,182	36,109,615	16,575,947	31,146,029	14,547,182	20,000,000	35,000,000
2013/14	0	10,654,706	10,655,989	16,655,660	13,049,435	15,074,477	17,000,000	15,500,000
2014/15	0	17,965,781	17,968,490	16,376,447	16,974,510	16,085,105	17,694,000	18,000,000
Sum	\$480,982,880	\$481,793,255	\$480,515,825				\$492,214,508	\$490,183,508
2010/11 - 2014/15	113,233,809	118,293,842	117,613,293	102,602,767	113,952,371	73,830,293	114,494,000	124,000,000
to 2009/10	367,749,071	363,499,413	362,902,532				377,720,508	366,183,508
						Change		
						All years		-\$2,031,000
						2010/11 - 2014/15		9,506,000
						to 2009/10		-11,537,000

(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 from prior actuarial study.

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



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

Exhibit MM-Stroger-10

Projected Ultimate Limited Losses for 2015/16 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2015/16 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)	
2005/06	\$22,575,000	2,282	\$9,891.61	1.495	\$14,788.42	
2006/07	4,750,000	2,131	2,228.77	1.438	3,203.96	
2007/08	7,500,000	2,195	3,417.51	1.382	4,723.86	
2008/09	10,000,000	2,280	4,385.94	1.329	5,829.32	
2009/10	11,000,000	2,137	5,146.81	1.245	6,408.74	
2010/11	14,000,000	2,171	6,448.93	1.187	7,654.74	
2011/12	41,500,000	2,171	19,116.46	1.141	21,818.10	
2012/13	35,000,000	2,226	15,724.48	1.110	17,449.58	
2013/14	15,500,000	2,226	6,963.70	1.071	7,457.36	
2014/15	18,000,000	2,113	8,518.81	1.034	8,808.61	
Total	\$179,825,000	21,932	\$8,199.31		\$9,814.27	

Claim Period (1)	Projected Limited Loss Rate per Occupied Bed Equivalent (7)	Projected Occupied Bed Equivalents (8)	Projected Ultimate Limited Losses (7)X(8) (9)	Present Value Factor (10)	Present Value of Projected Limited Loss Rate per Occupied Bed Equivalent (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11) (12)
2015/16	\$8,480.51	2,113	\$17,919,000	0.90	\$7,650.19	\$16,165,000
2016/17	8,819.73	2,113	18,636,000	0.90	7,956.20	16,811,000
2017/18	9,172.52	2,113	19,381,000	0.90	8,274.45	17,484,000

(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) 2015/16 is based on (6) and actuarial judgment.
 Other period(s) based on 2015/16 plus a 4% trend.

(8) to 2015/16 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.68% 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, 2015

Claim Period (1)	Limited Paid Losses 11/30/15 (2)	Limited Case Reserves 11/30/15 (3)	Limited Reported Incurred Losses 11/30/15 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/15 (5)-(4) (6)	Estimated Outstanding Losses 11/30/15 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/15 (7)X(8) (9)
to 1995/96	\$156,356,918	\$0	\$156,356,918	\$156,356,918	\$0	\$0	1.00	\$0
1996/97	11,236,700	0	11,236,700	11,236,700	0	0	1.00	0
1997/98	30,083,500	0	30,083,500	30,083,500	0	0	1.00	0
1998/99	9,880,000	3,000,000	12,880,000	13,180,000	300,000	3,300,000	1.00	3,300,000
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	0.99	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	0.98	0
2007/08	7,002,000	0	7,002,000	7,500,000	498,000	498,000	0.98	486,567
2008/09	4,855,000	3,100,000	7,955,000	10,000,000	2,045,000	5,145,000	0.97	5,004,260
2009/10	8,592,500	1,200,000	9,792,500	11,000,000	1,207,500	2,407,500	0.97	2,325,023
2010/11	4,875,000	6,305,000	11,180,000	14,000,000	2,820,000	9,125,000	0.97	8,817,806
2011/12	24,024,999	13,300,000	37,324,999	41,500,000	4,175,001	17,475,001	0.96	16,748,887
2012/13	850,000	26,300,000	27,150,000	35,000,000	7,850,000	34,150,000	0.95	32,339,477
2013/14	0	6,405,000	6,405,000	15,500,000	9,095,000	15,500,000	0.93	14,455,927
2014/15	0	6,750,000	6,750,000	18,000,000	11,250,000	18,000,000	0.92	16,510,279
Total	\$384,583,007	\$66,360,000	\$450,943,007	\$490,183,508	\$39,240,501	\$105,600,501		\$99,988,226

(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 1.68% 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, 2015 to November 30, 2016

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Months of Development 11/30/16 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/15 to 11/30/16 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/15 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/16 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/16 (9)X(10) (11)
to 1995/96	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1996/97	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1997/98	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
1998/99	204.0	100.0%	216.0	100.0%	100.0%	3,300,000	3,300,000	0	1.00	0
1999/00	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2006/07	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2007/08	96.0	80.2%	108.0	89.8%	48.5%	498,000	241,454	256,546	0.98	251,267
2008/09	84.0	67.9%	96.0	80.2%	38.1%	5,145,000	1,961,865	3,183,135	0.98	3,110,056
2009/10	72.0	56.6%	84.0	67.9%	26.1%	2,407,500	628,212	1,779,288	0.97	1,730,616
2010/11	60.0	28.3%	72.0	56.6%	39.5%	9,125,000	3,602,558	5,522,442	0.97	5,333,252
2011/12	48.0	10.9%	60.0	28.3%	19.5%	17,475,001	3,415,756	14,059,245	0.97	13,585,939
2012/13	36.0	2.2%	48.0	10.9%	8.9%	34,150,000	3,040,421	31,109,579	0.96	29,816,926
2013/14	24.0	0.0%	36.0	2.2%	2.2%	15,500,000	334,733	15,165,267	0.95	14,361,253
2014/15	12.0	0.0%	24.0	0.0%	0.0%	18,000,000	1,633	17,998,367	0.93	16,786,005
2015/16	0.0	0.0%	12.0	0.0%	0.0%	17,919,000	1,626	17,917,374	0.92	16,434,491
Total						\$123,519,501	\$16,528,258	\$106,991,243		\$101,409,805

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

(7) to 2014/15 is from Exhibit MM-Stroger-11. The amount for 2015/16 is from Exhibit MM-Stroger-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit MM-Stroger-2.



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

Exhibit MM-Stroger-13

Projected Losses Paid December 1, 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 1995/96	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	256,546	112,678	143,868	0.99	141,868
2008/09	96.0	80.2%	108.0	89.8%	48.5%	3,183,135	1,543,333	1,639,802	0.98	1,606,062
2009/10	84.0	67.9%	96.0	80.2%	38.1%	1,779,288	678,469	1,100,819	0.98	1,075,546
2010/11	72.0	56.6%	84.0	67.9%	26.1%	5,522,442	1,441,023	4,081,419	0.97	3,969,773
2011/12	60.0	28.3%	72.0	56.6%	39.5%	14,059,245	5,550,603	8,508,642	0.97	8,217,149
2012/13	48.0	10.9%	60.0	28.3%	19.5%	31,109,579	6,080,842	25,028,737	0.97	24,186,142
2013/14	36.0	2.2%	48.0	10.9%	8.9%	15,165,267	1,350,184	13,815,083	0.96	13,241,044
2014/15	24.0	0.0%	36.0	2.2%	2.2%	17,998,367	388,687	17,609,680	0.95	16,676,071
2015/16	12.0	0.0%	24.0	0.0%	0.0%	17,917,374	1,626	17,915,748	0.93	16,708,951
2016/17	0.0	0.0%	12.0	0.0%	0.0%	18,636,000	1,691	18,634,309	0.92	17,092,091
Total						\$125,627,243	\$17,149,136	\$108,478,107		\$102,914,697

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

(7) to 2015/16 is from Exhibit MM-Stroger-12, (9). The amount for 2016/17 is from Exhibit MM-Stroger-10.

(10) is based on a 1.68% 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, 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 1995/96	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	143,868	94,650	49,218	0.99	48,810
2008/09	108.0	89.8%	120.0	94.3%	43.9%	1,639,802	720,222	919,580	0.99	906,797
2009/10	96.0	80.2%	108.0	89.8%	48.5%	1,100,819	533,729	567,090	0.98	555,422
2010/11	84.0	67.9%	96.0	80.2%	38.1%	4,081,419	1,556,305	2,525,114	0.98	2,467,142
2011/12	72.0	56.6%	84.0	67.9%	26.1%	8,508,642	2,220,241	6,288,401	0.97	6,116,384
2012/13	60.0	28.3%	72.0	56.6%	39.5%	25,028,737	9,881,368	15,147,369	0.97	14,628,443
2013/14	48.0	10.9%	60.0	28.3%	19.5%	13,815,083	2,700,369	11,114,714	0.97	10,740,536
2014/15	36.0	2.2%	48.0	10.9%	8.9%	17,609,680	1,567,814	16,041,866	0.96	15,375,301
2015/16	24.0	0.0%	36.0	2.2%	2.2%	17,915,748	386,903	17,528,845	0.95	16,599,522
2016/17	12.0	0.0%	24.0	0.0%	0.0%	18,634,309	1,691	18,632,618	0.93	17,377,533
2017/18	0.0	0.0%	12.0	0.0%	0.0%	19,381,000	1,758	19,379,242	0.92	17,775,372
Total						\$127,859,107	\$19,665,050	\$108,194,057		\$102,591,262

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

(7) to 2016/17 is from Exhibit MM-Stroger-13, (9). The amount for 2017/18 is from Exhibit MM-Stroger-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit MM-Stroger-2.



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

Exhibit MM-Stroger-15

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

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/15 (5)	Unlimited Case Reserves 11/30/15 (6)	Unlimited Reported Incurred Losses 11/30/15 (7)
97009089	5/9/1976	to 1995/96	Unlimited	\$5,000,000	\$0	\$5,000,000
97005676	1/21/1990	to 1995/96	Unlimited	6,500,000	0	6,500,000
97004522	11/25/1996	to 1995/96	Unlimited	1,500,000	0	1,500,000
97002438	10/21/1997	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	0	3,000,000	3,000,000
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	0	3,000,000	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
97009853	11/29/2010	2009/10	40,000,000	0	1,200,000	1,200,000
97009478	12/19/2010	2010/11	40,000,000	2,400,000	0	2,400,000
97010439	3/13/2011	2010/11	40,000,000	0	1,500,000	1,500,000
97009939	3/20/2011	2010/11	40,000,000	1,400,000	0	1,400,000
97009208	9/29/2011	2010/11	40,000,000	0	4,000,000	4,000,000
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
97011864	6/19/2012	2011/12	40,000,000	0	1,000,000	1,000,000
97009669	6/25/2012	2011/12	40,000,000	0	3,000,000	3,000,000
97011081	12/26/2012	2012/13	40,000,000	0	4,000,000	4,000,000
97009982	1/25/2013	2012/13	40,000,000	0	3,500,000	3,500,000
97011785	3/19/2013	2012/13	30,000,000	0	1,000,000	1,000,000
97011908	4/11/2013	2012/13	30,000,000	0	1,000,000	1,000,000
97010444	4/19/2013	2012/13	30,000,000	0	1,000,000	1,000,000
97012020	5/9/2013	2012/13	30,000,000	0	3,000,000	3,000,000
97012456	9/5/2013	2012/13	30,000,000	0	2,000,000	2,000,000
97012455	10/5/2013	2012/13	30,000,000	0	5,000,000	5,000,000
97011355	10/30/2013	2012/13	30,000,000	0	2,500,000	2,500,000
97011865	4/11/2014	2013/14	30,000,000	0	3,000,000	3,000,000
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
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

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.



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

Exhibit MM-Stroger-16

Calculation of Occupied Bed Equivalents

Claim Period (1)	Inpatients (2)	ER Visits (3)	Other Visits (4)	Other Visits (5)	Physicians (6)	Housestaff (7)	Occupied Bed Equivalents (8)
to 1995/96							
1996/97	415	157,214	487,470	48,991	373	548	2,408
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	455	2,226
2013/14	302	137,000	175,000	64,000	433	455	2,226
2014/15	281	116,583	153,407	43,077	420	455	2,113
2015/16	281	116,583	153,407	43,077	420	455	2,113

(2) through (7) were provided by the County. (4) is for Fantus. (5) is for CORE. (7) assumes no change from 2010/11.

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 2013. 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)



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Data Summary as of November 30, 2015
 Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Limited Paid Losses 11/30/15 (8)	Limited Case Reserves 11/30/15 (9)	Limited Reported Incurred Losses 11/30/15 (10)
to 1995/96	See Note	None	240.0	Not Provided	8	0	\$2,780,000	\$0	\$2,780,000
1996/97	Unlimited	None	228.0	399	1	0	0	0	0
1997/98	Unlimited	None	216.0	410	2	0	0	0	0
1998/99	Unlimited	None	204.0	406	0	0	0	0	0
1999/00	Unlimited	None	192.0	352	1	0	0	0	0
2000/01	10,000,000	25,000,000	180.0	336	0	0	0	0	0
2001/02	15,000,000	50,000,000	168.0	331	2	0	100,000	0	100,000
2002/03	20,000,000	80,000,000	156.0	341	3	0	1,050,000	0	1,050,000
2003/04	20,000,000	None	144.0	387	4	0	20,375,000	0	20,375,000
2004/05	20,000,000	None	132.0	392	3	0	1,900,000	0	1,900,000
2005/06	20,000,000	None	120.0	384	8	0	620,000	0	620,000
2006/07	20,000,000	None	108.0	353	4	0	0	0	0
2007/08	20,000,000	None	96.0	283	1	0	0	0	0
2008/09	20,000,000	None	84.0	348	2	1	175,000	50,000	225,000
2009/10	40,000,000	None	72.0	222	1	0	0	0	0
2010/11	40,000,000	None	60.0	233	0	1	0	250,000	250,000
2011/12	40,000,000	None	48.0	174	1	0	0	0	0
2012/13	30,000,000	None	36.0	62	0	0	0	0	0
2013/14	30,000,000	None	24.0	62	0	0	0	0	0
2014/15	25,000,000	None	12.0	19	0	0	0	0	0
Total					41	2	\$27,000,000	\$300,000	\$27,300,000

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

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

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

Data was provided by the County.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Exhibit MM-Oak Forest-1 (page 2)

Data Summary as of November 30, 2015
 Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Unlimited Paid Losses 11/30/15 (8)	Unlimited Case Reserves 11/30/15 (9)	Unlimited Reported Incurred Losses 11/30/15 (10)
to 1995/96	Unlimited	None	240.0	Not Provided	8	0	\$2,780,000	\$0	\$2,780,000
1996/97	Unlimited	None	228.0	399	1	0	0	0	0
1997/98	Unlimited	None	216.0	410	2	0	0	0	0
1998/99	Unlimited	None	204.0	406	0	0	0	0	0
1999/00	Unlimited	None	192.0	352	1	0	0	0	0
2000/01	Unlimited	25,000,000	180.0	336	0	0	0	0	0
2001/02	Unlimited	50,000,000	168.0	331	2	0	100,000	0	100,000
2002/03	Unlimited	80,000,000	156.0	341	3	0	1,050,000	0	1,050,000
2003/04	Unlimited	None	144.0	387	4	0	20,375,000	0	20,375,000
2004/05	Unlimited	None	132.0	392	3	0	1,900,000	0	1,900,000
2005/06	Unlimited	None	120.0	384	8	0	620,000	0	620,000
2006/07	Unlimited	None	108.0	353	4	0	0	0	0
2007/08	Unlimited	None	96.0	283	1	0	0	0	0
2008/09	Unlimited	None	84.0	348	2	1	175,000	50,000	225,000
2009/10	Unlimited	None	72.0	222	1	0	0	0	0
2010/11	Unlimited	None	60.0	233	0	1	0	250,000	250,000
2011/12	Unlimited	None	48.0	174	1	0	0	0	0
2012/13	Unlimited	None	36.0	62	0	0	0	0	0
2013/14	Unlimited	None	24.0	62	0	0	0	0	0
2014/15	Unlimited	None	12.0	19	0	0	0	0	0
Total					41	2	\$27,000,000	\$300,000	\$27,300,000

(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 - OAK FOREST HEALTH CENTER

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)	Months of Development (5)	Percent Losses Paid (6)	Percent Losses Reported (7)	Percent Claims Reported (8)
360.0	100.0%	100.0%	100.0%	354.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%	342.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%	330.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%	318.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%	306.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%	294.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%	282.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%	270.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%	258.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%	246.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%	234.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%	222.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%	210.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%	198.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%	186.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%	174.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%	162.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%	150.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%	138.0	99.0%	100.0%	100.0%
132.0	98.0%	100.0%	100.0%	126.0	96.2%	100.0%	100.0%
120.0	94.3%	100.0%	100.0%	114.0	92.0%	99.5%	100.0%
108.0	89.8%	99.0%	100.0%	102.0	85.0%	98.0%	100.0%
96.0	80.2%	97.1%	100.0%	90.0	74.0%	96.1%	100.0%
84.0	67.9%	95.2%	100.0%	78.0	62.3%	94.2%	100.0%
72.0	56.6%	93.3%	100.0%	66.0	42.5%	91.1%	100.0%
60.0	28.3%	88.9%	100.0%	54.0	19.6%	85.8%	100.0%
48.0	10.9%	82.7%	100.0%	42.0	6.5%	78.9%	99.5%
36.0	2.2%	75.1%	99.0%	30.0	1.1%	67.6%	97.6%
24.0	0.0%	60.1%	96.1%	18.0	0.0%	48.8%	89.0%
12.0	0.0%	37.6%	81.8%	6.0	0.0%	18.8%	40.9%

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

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

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

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



COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

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

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

Claim Period	Months of Development:						180	192	204	216	228	240
	12	24	36	48	60	72						
to 1/9/95/96												
1996/97	550	8,251	4,436	10,656	9,506	15,788	15,298	14,893	21,378	25,078	17,578	15,828
1997/98	7,354	13,007	19,422	30,967	33,642	33,617	33,517	34,067	33,667	32,767	32,942	33,842
1998/99	1,500	17,850	20,160	17,620	17,235	16,230	15,975	15,925	13,275	11,175	11,175	11,175
1999/00	15,495	25,810	35,730	44,165	46,475	46,930	40,630	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	15,706	14,706	11,706	11,706	11,706
2001/02	33,740	25,655	29,908	24,761	25,134	31,395	25,861	25,061	25,061	25,061	25,061	25,061
2002/03	26,711	16,022	5,770	8,413	8,248	6,308	5,698	5,336	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
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
2005/06	14,276	35,957	22,631	24,828	17,228	13,858	13,858	15,603	25,603	25,603	25,603	25,603
2006/07	11,046	13,126	8,721	5,787	4,726	5,646	4,766	4,766	4,766	4,766	4,766	4,766
2007/08	24,827	12,544	17,152	18,477	12,927	10,827	8,255	8,255	8,255	8,255	8,255	8,255
2008/09	5,235	6,890	9,775	10,255	9,555	10,005	10,005	10,005	10,005	10,005	10,005	10,005
2009/10	5,095	8,253	15,550	16,368	13,503	12,388	12,388	12,388	12,388	12,388	12,388	12,388
2010/11	7,770	3,900	8,530	11,105	11,183	11,183	11,183	11,183	11,183	11,183	11,183	11,183
2011/12	23,923	34,253	39,927	39,455	39,455	39,455	39,455	39,455	39,455	39,455	39,455	39,455
2012/13	6,925	12,000	29,150									
2013/14	1,560	7,155										
2014/15	7,000											

II. Limited Reported Incurred Loss Development

Claim Period	Months of Development:						180-180	180-192	192-204	204-216	216-228	228-240	240-Ult
	12-24	24-36	36-48	48-60	60-72	72-84							
to 1/9/95/96													
1996/97	15,002	0,538	2,402	0,882	1,661	0,968	0,974	1,436	1,173	0,701	0,900	1,000	1,000
1997/98	1,769	1,493	1,594	1,086	0,989	0,987	1,016	0,888	0,973	1,005	1,027	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
1999/00	1,666	1,384	1,236	1,052	1,010	0,866	1,148	0,991	0,820	1,000	1,000	1,000	1,000
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
2001/02	0,760	1,162	0,831	1,015	1,246	0,826	1,008	0,962	1,000	1,000	1,000	1,000	1,000
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
2003/04	1,394	0,679	1,445	0,767	0,963	0,707	0,985	0,975	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
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
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
2007/08	0,505	1,367	1,077	0,700	0,946	0,884	0,771						
2008/09	1,316	1,419	1,049	0,932	1,047	0,825							
2009/10	1,620	1,884	1,053	0,825	0,917								
2010/11	5,065	2,187	1,302	1,007									
2011/12	1,432	1,166	0,988										
2012/13	1,733	2,429											
2013/14	4,587												
2014/15													
Average All	3,156	1,194	1,208	0,907	1,148	0,877	0,989	1,071	0,960	0,967	0,991	1,000	1,000
Wtd 3	1,648	1,647	1,046	0,908	0,962	0,865	0,951	1,249	1,000	1,000	1,000	1,000	1,000
Last 3	2,584	1,927	1,114	0,921	0,970	0,897	0,921	1,214	1,000	1,000	1,000	1,000	1,000
Last 5 x-til low	2,646	1,630	1,060	0,858	0,969	0,884	0,972	0,899	1,000	1,000	1,000	1,000	1,000
Similar Previous	3,600	2,100	1,400	1,140	1,040	1,003	1,002	1,001	1,001	1,000	1,000	1,000	1,000
Selected Cumulative Percent	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
	2,662	1,663	1,331	1,210	1,072	1,051	1,051	1,030	1,010	1,000	1,000	1,000	1,000
	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%

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 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 1/9/95/06																						
1996/97	0.0%	0.0%	10.2%	4.7%	44.2%	31.6%	39.2%	45.9%	56.9%	30.6%	49.9%	98.1%	98.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1997/98	0.0%	0.1%	0.9%	14.6%	23.6%	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%	
1998/99	0.0%	0.0%	0.0%	0.0%	12.6%	36.6%	46.0%	56.1%	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%	0.0%	33.8%	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%	96.9%	96.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2002/03	0.0%	0.1%	21.8%	15.0%	39.4%	66.1%	85.9%	93.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2003/04	0.0%	0.0%	0.0%	22.6%	56.0%	63.7%	96.3%	97.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2004/05	0.0%	0.3%	0.5%	24.0%	78.1%	96.1%	100.0%	94.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2005/06	0.0%	0.0%	2.3%	0.0%	39.3%	55.1%	71.5%	73.9%	84.9%	92.2%	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%	0.1%	0.2%	0.5%	42.7%	86.7%	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%	77.1%	84.9%	92.2%	92.2%	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%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	
2010/11	0.0%	0.0%	0.0%	25.7%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	
2011/12	0.0%	58.7%	52.2%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	
2012/13	0.0%	7.1%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	
2013/14	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
2014/15	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Average																						
All	0.0%	6.3%	9.0%	19.9%	41.0%	53.8%	70.6%	78.2%	76.4%	91.3%	94.2%	99.8%	99.8%	96.5%	95.8%	94.7%	92.9%	100.0%	100.0%	100.0%	100.0%	
Last 3		21.9%	18.4%	33.9%	44.4%	65.7%	75.4%	91.3%	80.1%	97.4%	100.0%	100.0%	100.0%	100.0%	100.0%	92.9%	92.9%	100.0%	100.0%	100.0%	100.0%	
Last 5			9.3%	25.4%	44.3%	56.0%	78.4%	97.5%	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 - OAK FOREST HEALTH CENTER

Exhibit MM-Oak Forest-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Paid Losses 11/30/15 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1995/96	240.0	\$2,780,000	100.0%	\$2,780,000
1996/97	228.0	0	100.0%	0
1997/98	216.0	0	100.0%	0
1998/99	204.0	0	100.0%	0
1999/00	192.0	0	100.0%	0
2000/01	180.0	0	100.0%	0
2001/02	168.0	100,000	100.0%	100,000
2002/03	156.0	1,050,000	100.0%	1,050,000
2003/04	144.0	20,375,000	100.0%	20,375,000
2004/05	132.0	1,900,000	98.0%	1,938,000
2005/06	120.0	620,000	94.3%	657,696
2006/07	108.0	0	89.8%	0
2007/08	96.0	0	80.2%	0
2008/09	84.0	175,000	67.9%	257,609
2009/10	72.0	0	56.6%	0
2010/11	60.0	0	28.3%	0
2011/12	48.0	0	10.9%	0
2012/13	36.0	0	2.2%	0
2013/14	24.0	0	0.0%	0
2014/15	12.0	0	0.0%	0

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

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



COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Exhibit MM-Oak Forest-4

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1995/96	240.0	\$2,780,000	100.0%	\$2,780,000
1996/97	228.0	0	100.0%	0
1997/98	216.0	0	100.0%	0
1998/99	204.0	0	100.0%	0
1999/00	192.0	0	100.0%	0
2000/01	180.0	0	100.0%	0
2001/02	168.0	100,000	100.0%	100,000
2002/03	156.0	1,050,000	100.0%	1,050,000
2003/04	144.0	20,375,000	100.0%	20,375,000
2004/05	132.0	1,900,000	100.0%	1,900,000
2005/06	120.0	620,000	100.0%	620,000
2006/07	108.0	0	99.0%	0
2007/08	96.0	0	97.1%	0
2008/09	84.0	225,000	95.2%	236,431
2009/10	72.0	0	93.3%	0
2010/11	60.0	250,000	88.9%	281,353
2011/12	48.0	0	82.7%	0
2012/13	36.0	0	75.1%	0
2013/14	24.0	0	60.1%	0
2014/15	12.0	0	37.6%	0

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

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



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Exhibit MM-Oak Forest-5

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/15 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/15 (6)	Limited Case Reserves 11/30/15 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1995/96	240.0	100.0%	100.0%	100.0%	\$2,780,000	\$0	\$2,780,000
1996/97	228.0	100.0%	100.0%	100.0%	0	0	0
1997/98	216.0	100.0%	100.0%	100.0%	0	0	0
1998/99	204.0	100.0%	100.0%	100.0%	0	0	0
1999/00	192.0	100.0%	100.0%	100.0%	0	0	0
2000/01	180.0	100.0%	100.0%	100.0%	0	0	0
2001/02	168.0	100.0%	100.0%	100.0%	100,000	0	100,000
2002/03	156.0	100.0%	100.0%	100.0%	1,050,000	0	1,050,000
2003/04	144.0	100.0%	100.0%	100.0%	20,375,000	0	20,375,000
2004/05	132.0	98.0%	100.0%	100.0%	1,900,000	0	1,900,000
2005/06	120.0	94.3%	100.0%	100.0%	620,000	0	620,000
2006/07	108.0	89.8%	99.0%	90.3%	0	0	0
2007/08	96.0	80.2%	97.1%	85.2%	0	0	0
2008/09	84.0	67.9%	95.2%	84.9%	175,000	50,000	233,877
2009/10	72.0	56.6%	93.3%	84.6%	0	0	0
2010/11	60.0	28.3%	88.9%	84.5%	0	250,000	296,009
2011/12	48.0	10.9%	82.7%	80.5%	0	0	0
2012/13	36.0	2.2%	75.1%	74.6%	0	0	0
2013/14	24.0	0.0%	60.1%	60.1%	0	0	0
2014/15	12.0	0.0%	37.6%	37.6%	0	0	0

(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 2014/15

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 1995/96	\$2,780,000	\$2,780,000	\$2,780,000	\$2,780,000
1996/97	0	0	0	0
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	1,938,000	1,900,000	1,900,000	1,900,000
2005/06	657,696	620,000	620,000	620,000
2006/07	0	0	0	0
2007/08	0	0	0	0
2008/09	257,609	236,431	233,877	234,388
2009/10	0	0	0	0
2010/11	0	281,353	296,009	290,146
2011/12	0	0	0	0
2012/13	0	0	0	0
2013/14	0	0	0	0
2014/15	0	0	0	0
Total	\$27,158,305	\$27,342,784	\$27,354,886	\$27,349,534

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

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

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

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



Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2015/16 = 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)
2005/06	\$620,000	384	\$1,615.51	1.495	\$2,415.27	\$1,068.43
2006/07	0	353	0.00	1.438	0.00	1,111.17
2007/08	0	283	0.00	1.382	0.00	1,155.61
2008/09	234,388	348	673.90	1.329	895.68	1,201.84
2009/10	0	222	0.00	1.245	0.00	1,282.82
2010/11	290,146	233	1,247.79	1.187	1,481.10	1,345.73
2011/12	0	174	0.00	1.141	0.00	1,399.56
2012/13	0	62	0.00	1.110	0.00	1,439.43
2013/14	0	62	0.00	1.071	0.00	1,491.61
2014/15	0	19	0.00	1.034	0.00	1,544.80

(7) Projected 2015/16 a-priori loss rate per Occupied Bed Equivalent \$1,597.35

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/15 (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)
2010/11	\$0	28.3%	\$1,345.73	233	\$224,347	\$224,347
2011/12	0	10.9%	1,399.56	174	216,513	216,513
2012/13	0	2.2%	1,439.43	62	87,126	87,126
2013/14	0	0.0%	1,491.61	62	92,277	92,277
2014/15	0	0.0%	1,544.80	19	29,358	29,358

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (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)
2010/11	\$250,000	88.9%	\$1,345.73	233	\$34,870	\$284,870
2011/12	0	82.7%	1,399.56	174	42,137	42,137
2012/13	0	75.1%	1,439.43	62	22,139	22,139
2013/14	0	60.1%	1,491.61	62	36,812	36,812
2014/15	0	37.6%	1,544.80	19	18,330	18,330

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

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

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

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

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

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

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



Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/15 (2)	Reported Claims 11/30/15 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2005/06	120.0	8	100.0%	8	384	0.02
2006/07	108.0	4	100.0%	4	353	0.01
2007/08	96.0	1	100.0%	1	283	0.00
2008/09	84.0	2	100.0%	2	348	0.01
2009/10	72.0	1	100.0%	1	222	0.00
2010/11	60.0	0	100.0%	0	233	0.00
2011/12	48.0	1	100.0%	1	174	0.01
2012/13	36.0	0	99.0%	0	62	0.00
2013/14	24.0	0	96.1%	0	62	0.00
2014/15	12.0	0	81.8%	0	19	0.00

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2015/16 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2015/16 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2005/06	\$620,000	8	\$77,500	1.495	\$115,866	\$60,562	\$484,493
2006/07	0	4	0	1.438	0	62,984	251,936
2007/08	0	1	0	1.382	0	65,503	65,503
2008/09	234,388	2	117,194	1.329	155,761	68,124	136,247
2009/10	0	1	0	1.245	0	72,714	72,714
2010/11	290,146	0	0	1.187	0	76,280	0
2011/12	0	1	0	1.141	0	79,331	79,331
2012/13	0	0	0	1.110	0	81,591	0
2013/14	0	0	0	1.071	0	84,549	0
2014/15	0	0	0	1.034	0	87,564	0
(7) Projected 2015/16 average claim severity					\$90,542		

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.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Exhibit MM-Oak Forest-9

Projected Ultimate Limited Losses to 2014/15

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 1995/96	\$2,780,000	\$2,780,000	\$2,780,000				\$2,780,000	\$2,780,000
1996/97	0	0	0					0
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	1,938,000	1,900,000	1,900,000				1,900,000	1,900,000
2005/06	657,696	620,000	620,000				620,000	620,000
2006/07	0	0	0					0
2007/08	0	0	0					0
2008/09	257,609	236,431	233,877				425,000	233,500
2009/10	0	0	0				500,000	50,000
2010/11	0	281,353	296,009	224,347	284,870		300,000	300,000
2011/12	0	0	0	216,513	42,137	79,331	150,000	125,000
2012/13	0	0	0	87,126	22,139		175,000	100,000
2013/14	0	0	0	92,277	36,812		200,000	100,000
2014/15	0	0	0	29,358	18,330		90,000	90,000
Sum	\$27,158,305	\$27,342,784	\$27,354,886				\$28,665,000	\$27,823,500
2010/11 - 2014/15	0	281,353	296,009	649,620	404,288	79,331	915,000	715,000
to 2009/10	27,158,305	27,061,431	27,058,877				27,750,000	27,108,500
						Change		
						All years		-\$841,500
						2010/11 - 2014/15		-200,000
						to 2009/10		-641,500

(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 from prior actuarial study.

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



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Exhibit MM-Oak Forest-10

Projected Ultimate Limited Losses for 2015/16 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2015/16 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)	Present Value of Projected Limited Loss Rate per Occupied Bed Equivalent (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11) (12)
2005/06	\$620,000	384	\$1,615.51	1.495	\$2,415.27		
2006/07	0	353	0.00	1.438	0.00		
2007/08	0	283	0.00	1.382	0.00		
2008/09	233,500	348	671.35	1.329	892.29		
2009/10	50,000	222	225.13	1.245	280.32		
2010/11	300,000	233	1,290.17	1.187	1,531.40		
2011/12	125,000	174	720.05	1.141	821.81		
2012/13	100,000	62	1,616.16	1.110	1,793.47		
2013/14	100,000	62	1,616.16	1.071	1,730.73		
2014/15	90,000	19	4,735.25	1.034	4,896.34		
Total	\$1,618,500	2,138	\$757.02		\$1,436.16		
2015/16	\$1,612.99	19	\$31,000	0.90	\$1,455.06	\$28,000	
2016/17	1,677.51	19	32,000	0.90	1,513.26	29,000	
2017/18	1,744.61	19	33,000	0.90	1,573.79	30,000	

(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) 2015/16 is based on (6) and actuarial judgment.
 Other period(s) based on 2015/16 plus a 4% trend.

(8) to 2015/16 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.68% 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, 2015

Claim Period (1)	Limited Paid Losses 11/30/15 (2)	Limited Case Reserves 11/30/15 (3)	Limited Reported Incurred Losses 11/30/15 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/15 (5)-(4) (6)	Estimated Outstanding Losses 11/30/15 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/15 (7)X(8) (9)
to 1995/96	\$2,780,000	\$0	\$2,780,000	\$2,780,000	\$0	\$0	1.00	\$0
1996/97	0	0	0	0	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	0.99	0
2005/06	620,000	0	620,000	620,000	0	0	0.99	0
2006/07	0	0	0	0	0	0	0.98	0
2007/08	0	0	0	0	0	0	0.98	0
2008/09	175,000	50,000	225,000	233,500	8,500	58,500	0.97	56,900
2009/10	0	0	0	50,000	50,000	50,000	0.97	48,287
2010/11	0	250,000	250,000	300,000	50,000	300,000	0.97	289,900
2011/12	0	0	0	125,000	125,000	125,000	0.96	119,806
2012/13	0	0	0	100,000	100,000	100,000	0.95	94,698
2013/14	0	0	0	100,000	100,000	100,000	0.93	93,264
2014/15	0	0	0	90,000	90,000	90,000	0.92	82,551
Total	\$27,000,000	\$300,000	\$27,300,000	\$27,823,500	\$523,500	\$823,500		\$785,406

(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 1.68% 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, 2015 to November 30, 2016

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Months of Development 11/30/16 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/15 to 11/30/16 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/15 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/16 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/16 (9)X(10) (11)
to 1995/96	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1996/97	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1997/98	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
1998/99	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2006/07	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2007/08	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2008/09	84.0	67.9%	96.0	80.2%	38.1%	58,500	22,307	36,193	0.98	35,362
2009/10	72.0	56.6%	84.0	67.9%	26.1%	50,000	13,047	36,953	0.97	35,942
2010/11	60.0	28.3%	72.0	56.6%	39.5%	300,000	118,440	181,560	0.97	175,340
2011/12	48.0	10.9%	60.0	28.3%	19.5%	125,000	24,433	100,567	0.97	97,181
2012/13	36.0	2.2%	48.0	10.9%	8.9%	100,000	8,903	91,097	0.96	87,312
2013/14	24.0	0.0%	36.0	2.2%	2.2%	100,000	2,160	97,840	0.95	92,653
2014/15	12.0	0.0%	24.0	0.0%	0.0%	90,000	8	89,992	0.93	83,930
2015/16	0.0	0.0%	12.0	0.0%	0.0%	31,000	3	30,997	0.92	28,432
Total						\$854,500	\$189,301	\$665,199		\$636,152

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

(7) to 2014/15 is from Exhibit MM-Oak Forest-11. The amount for 2015/16 is from Exhibit MM-Oak Forest-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit MM-Oak Forest-2.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Exhibit MM-Oak Forest-13

Projected Losses Paid December 1, 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 1995/96	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	36,193	17,548	18,645	0.98	18,261
2009/10	84.0	67.9%	96.0	80.2%	38.1%	36,953	14,091	22,862	0.98	22,337
2010/11	72.0	56.6%	84.0	67.9%	26.1%	181,560	47,376	134,184	0.97	130,513
2011/12	60.0	28.3%	72.0	56.6%	39.5%	100,567	39,704	60,863	0.97	58,778
2012/13	48.0	10.9%	60.0	28.3%	19.5%	91,097	17,806	73,291	0.97	70,824
2013/14	36.0	2.2%	48.0	10.9%	8.9%	97,840	8,711	89,129	0.96	85,426
2014/15	24.0	0.0%	36.0	2.2%	2.2%	89,992	1,943	88,049	0.95	83,381
2015/16	12.0	0.0%	24.0	0.0%	0.0%	30,997	3	30,994	0.93	28,906
2016/17	0.0	0.0%	12.0	0.0%	0.0%	32,000	3	31,997	0.92	29,349
Total						\$697,199	\$147,185	\$550,014		\$527,775

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

(7) to 2015/16 is from Exhibit MM-Oak Forest-12, (9). The amount for 2016/17 is from Exhibit MM-Oak Forest-10.

(10) is based on a 1.68% 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, 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 1995/96	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	18,645	8,189	10,456	0.99	10,311
2009/10	96.0	80.2%	108.0	89.8%	48.5%	22,862	11,085	11,777	0.98	11,535
2010/11	84.0	67.9%	96.0	80.2%	38.1%	134,184	51,166	83,018	0.98	81,112
2011/12	72.0	56.6%	84.0	67.9%	26.1%	60,863	15,882	44,981	0.97	43,751
2012/13	60.0	28.3%	72.0	56.6%	39.5%	73,291	28,935	44,356	0.97	42,836
2013/14	48.0	10.9%	60.0	28.3%	19.5%	89,129	17,422	71,707	0.97	69,293
2014/15	36.0	2.2%	48.0	10.9%	8.9%	88,049	7,839	80,210	0.96	76,877
2015/16	24.0	0.0%	36.0	2.2%	2.2%	30,994	669	30,325	0.95	28,717
2016/17	12.0	0.0%	24.0	0.0%	0.0%	31,997	3	31,994	0.93	29,839
2017/18	0.0	0.0%	12.0	0.0%	0.0%	33,000	3	32,997	0.92	30,266
Total						\$583,014	\$141,193	\$441,821		\$424,537

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

(7) to 2016/17 is from Exhibit MM-Oak Forest-13, (9). The amount for 2017/18 is from Exhibit MM-Oak Forest-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit MM-Oak Forest-2.



COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Exhibit MM-Oak Forest-15

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

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/15 (5)	Unlimited Case Reserves 11/30/15 (6)	Unlimited Reported Incurred Losses 11/30/15 (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.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Exhibit MM-Oak Forest-16

Calculation of Occupied Bed Equivalents

Claim Period (1)	Inpatients (2)	ER Visits (3)	Other Visits (4)	Other Visits (5)	Other Visits (6)	Physicians (7)	Occupied Bed Equivalents (8)
to 1995/96							
1996/97	106	5,333	73,916			92	399
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		47,516	0	19

(2) through (7) were provided by the County. Effective 09/01/11, Oak Forest Health Center discontinued all inpatient services.

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 2013. 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)



COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Exhibit MM-Provident-1 (page 1)

Data Summary as of November 30, 2015
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Limited Paid Losses 11/30/15 (8)	Limited Case Reserves 11/30/15 (9)	Limited Reported Incurred Losses 11/30/15 (10)
to 1995/96	See Note	None	240.0	Not Provided	20	0	\$2,844,000	\$0	\$2,844,000
1996/97	Unlimited	None	228.0	273	7	0	4,391,000	0	4,391,000
1997/98	Unlimited	None	216.0	272	7	0	3,255,000	0	3,255,000
1998/99	Unlimited	None	204.0	298	12	0	1,245,000	0	1,245,000
1999/00	Unlimited	None	192.0	315	6	0	2,485,000	0	2,485,000
2000/01	10,000,000	25,000,000	180.0	314	7	0	345,000	0	345,000
2001/02	15,000,000	50,000,000	168.0	379	9	0	200,000	0	200,000
2002/03	20,000,000	80,000,000	156.0	390	11	0	1,025,000	0	1,025,000
2003/04	20,000,000	None	144.0	385	11	0	7,860,000	0	7,860,000
2004/05	20,000,000	None	132.0	391	11	0	90,000	0	90,000
2005/06	20,000,000	None	120.0	381	7	1	0	2,000,000	2,000,000
2006/07	20,000,000	None	108.0	375	2	0	0	0	0
2007/08	20,000,000	None	96.0	389	2	0	300,000	0	300,000
2008/09	20,000,000	None	84.0	525	3	0	300,000	0	300,000
2009/10	40,000,000	None	72.0	373	4	0	800,000	0	800,000
2010/11	40,000,000	None	60.0	373	0	0	0	0	0
2011/12	40,000,000	None	48.0	363	4	2	365,000	1,750,000	2,115,000
2012/13	30,000,000	None	36.0	238	3	3	0	1,600,000	1,600,000
2013/14	30,000,000	None	24.0	238	2	2	0	750,000	750,000
2014/15	25,000,000	None	12.0	213	1	1	0	250,000	250,000
Total					129	9	\$25,505,000	\$6,350,000	\$31,855,000

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

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

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

Data was provided by the County.



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Exhibit MM-Provident-1 (page 2)

Data Summary as of November 30, 2015
 Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Unlimited Paid Losses 11/30/15 (8)	Unlimited Case Reserves 11/30/15 (9)	Unlimited Reported Incurred Losses 11/30/15 (10)
to 1995/96	Unlimited	None	240.0	Not Provided	20	0	\$2,844,000	\$0	\$2,844,000
1996/97	Unlimited	None	228.0	273	7	0	4,391,000	0	4,391,000
1997/98	Unlimited	None	216.0	272	7	0	3,255,000	0	3,255,000
1998/99	Unlimited	None	204.0	298	12	0	1,245,000	0	1,245,000
1999/00	Unlimited	None	192.0	315	6	0	2,485,000	0	2,485,000
2000/01	Unlimited	25,000,000	180.0	314	7	0	345,000	0	345,000
2001/02	Unlimited	50,000,000	168.0	379	9	0	200,000	0	200,000
2002/03	Unlimited	80,000,000	156.0	390	11	0	1,025,000	0	1,025,000
2003/04	Unlimited	None	144.0	385	11	0	7,860,000	0	7,860,000
2004/05	Unlimited	None	132.0	391	11	0	90,000	0	90,000
2005/06	Unlimited	None	120.0	381	7	1	0	2,000,000	2,000,000
2006/07	Unlimited	None	108.0	375	2	0	0	0	0
2007/08	Unlimited	None	96.0	389	2	0	300,000	0	300,000
2008/09	Unlimited	None	84.0	525	3	0	300,000	0	300,000
2009/10	Unlimited	None	72.0	373	4	0	800,000	0	800,000
2010/11	Unlimited	None	60.0	373	0	0	0	0	0
2011/12	Unlimited	None	48.0	363	4	2	365,000	1,750,000	2,115,000
2012/13	Unlimited	None	36.0	238	3	3	0	1,600,000	1,600,000
2013/14	Unlimited	None	24.0	238	2	2	0	750,000	750,000
2014/15	Unlimited	None	12.0	213	1	1	0	250,000	250,000
Total					129	9	\$25,505,000	\$6,350,000	\$31,855,000

(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 - PROVIDENT HOSPITAL

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)	Months of Development (5)	Percent Losses Paid (6)	Percent Losses Reported (7)	Percent Claims Reported (8)
360.0	100.0%	100.0%	100.0%	354.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%	342.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%	330.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%	318.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%	306.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%	294.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%	282.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%	270.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%	258.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%	246.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%	234.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%	222.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%	210.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%	198.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%	186.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%	174.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%	162.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%	150.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%	138.0	99.0%	100.0%	100.0%
132.0	98.0%	100.0%	100.0%	126.0	96.2%	100.0%	100.0%
120.0	94.3%	100.0%	100.0%	114.0	92.0%	99.5%	100.0%
108.0	89.8%	99.0%	100.0%	102.0	85.0%	98.0%	100.0%
96.0	80.2%	97.1%	100.0%	90.0	74.0%	96.1%	100.0%
84.0	67.9%	95.2%	100.0%	78.0	62.3%	94.2%	100.0%
72.0	56.6%	93.3%	100.0%	66.0	42.5%	91.1%	100.0%
60.0	28.3%	88.9%	100.0%	54.0	19.6%	85.8%	100.0%
48.0	10.9%	82.7%	100.0%	42.0	6.5%	78.9%	99.5%
36.0	2.2%	75.1%	99.0%	30.0	1.1%	67.6%	97.6%
24.0	0.0%	60.1%	96.1%	18.0	0.0%	48.8%	89.0%
12.0	0.0%	37.6%	81.8%	6.0	0.0%	18.8%	40.9%

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

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

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

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



COOK COUNTY, ILLINOIS MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

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

Table I: Historical Limited Paid Losses (\$000). Columns include Claim Period (12, 24, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, 204, 216, 228, 240) and Months of Development (36, 48, 60, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, 204, 216, 228, 240). Rows list claim IDs from 1995/06 to 2014/15.

II. Limited Paid Loss Development

Table II: Limited Paid Loss Development. Columns include 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) and Months of Development (36-48, 48-60, 60-72, 72-84, 84-96, 96-108, 108-120, 120-132, 132-144, 144-156, 156-168, 168-180, 180-192, 192-204, 204-216, 216-228, 228-240, 240-Ult). Rows list claim IDs from 1995/06 to 2014/15.

Summary table with columns: Average All, Wtd 3, Last 3, Last 5, x-tilt, Similar, Selected, Cumulative, Percent. Values include 162,370, 1,035, 3,400, 120,000, 551,359, 0.0%, 6,500, 2,000, 2,000, 0.0%, 0.0%.

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:										240-UIT										
	12	24	36	48	60	72	84	96	108	120		132	144	156	168	180	192	204	216	228	240
to 1/9/95/96																					
1996/97	4	30	34	34	35	37	37	37	37	37	37	37	37	37	37	37	37	37	31	37	
1997/98	12	24	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	
1999/00	12	32	37	39	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	
2001/02	99	129	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	
2003/04	89	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	
2005/06	82	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	
2007/08	31	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	
2009/10	32	32	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	
2011/12	35	36	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	
2013/14	33	34																			
2014/15	29																				

II. Reported Claim Development

Claim Period	Months of Development:										240-UIT										
	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 1/9/95/96																					
1996/97	7.50	1.133	1.000	1.029	1.057	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
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	1.000	1.000	1.000	1.000	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	2.867	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	1.017	1.000	1.000	1.000	1.000	1.000	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																				
2014/15																					
Average All	1.814	1.043	1.008	1.005	1.011	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.919	1.194	1.000	1.000	
Wtd 3	1.028	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 3	1.028	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	1.028	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	1.250	1.050	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	
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 - 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 1/9/95/06																						
1996/97	0.0%	0.0%	10.2%	4.7%	44.2%	31.6%	39.2%	45.9%	56.9%	30.6%	49.9%	98.1%	98.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1997/98	0.0%	0.1%	0.9%	14.6%	23.6%	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%	
1998/99	0.0%	0.0%	0.0%	0.0%	12.6%	36.8%	46.0%	56.1%	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%	0.0%	33.8%	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%	96.9%	96.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2002/03	0.0%	0.1%	21.8%	15.0%	39.4%	66.1%	85.9%	93.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2003/04	0.0%	0.0%	0.0%	22.6%	56.0%	63.7%	86.3%	97.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2004/05	0.0%	0.3%	0.5%	24.0%	78.1%	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%	39.3%	42.7%	55.1%	71.5%	73.9%	84.3%	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%	0.1%	0.2%	0.5%	42.7%	86.7%	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%	77.1%	86.7%	86.7%	86.7%	86.7%	86.7%	86.7%	86.7%	86.7%	86.7%	86.7%	86.7%	86.7%	86.7%	
2008/09	0.0%	0.0%	25.0%	30.8%	33.0%	44.0%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	
2010/11	0.0%	0.0%	0.0%	25.7%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	
2011/12	0.0%	58.7%	52.2%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	
2012/13	0.0%	7.1%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	
2013/14	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
2014/15	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Average																						
All	0.0%	6.3%	9.0%	19.9%	41.0%	53.8%	70.6%	78.2%	76.4%	91.3%	94.2%	99.8%	99.8%	96.5%	95.8%	94.7%	92.9%	100.0%	100.0%	100.0%	100.0%	
Last 3		21.9%	18.4%	33.9%	44.4%	65.7%	75.4%	91.3%	80.1%	97.4%	100.0%	100.0%	100.0%	100.0%	100.0%	92.9%	92.9%	100.0%	100.0%	100.0%	100.0%	
Last 5			9.3%	25.4%	44.3%	56.0%	78.4%	97.5%	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 - PROVIDENT HOSPITAL

Exhibit MM-Provident-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Paid Losses 11/30/15 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1995/96	240.0	\$2,844,000	100.0%	\$2,844,000
1996/97	228.0	4,391,000	100.0%	4,391,000
1997/98	216.0	3,255,000	100.0%	3,255,000
1998/99	204.0	1,245,000	100.0%	1,245,000
1999/00	192.0	2,485,000	100.0%	2,485,000
2000/01	180.0	345,000	100.0%	345,000
2001/02	168.0	200,000	100.0%	200,000
2002/03	156.0	1,025,000	100.0%	1,025,000
2003/04	144.0	7,860,000	100.0%	7,860,000
2004/05	132.0	90,000	98.0%	91,800
2005/06	120.0	0	94.3%	0
2006/07	108.0	0	89.8%	0
2007/08	96.0	300,000	80.2%	374,250
2008/09	84.0	300,000	67.9%	441,615
2009/10	72.0	800,000	56.6%	1,413,169
2010/11	60.0	0	28.3%	0
2011/12	48.0	365,000	10.9%	3,352,743
2012/13	36.0	0	2.2%	0
2013/14	24.0	0	0.0%	0
2014/15	12.0	0	0.0%	0

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

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



COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Exhibit MM-Provident-4

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1995/96	240.0	\$2,844,000	100.0%	\$2,844,000
1996/97	228.0	4,391,000	100.0%	4,391,000
1997/98	216.0	3,255,000	100.0%	3,255,000
1998/99	204.0	1,245,000	100.0%	1,245,000
1999/00	192.0	2,485,000	100.0%	2,485,000
2000/01	180.0	345,000	100.0%	345,000
2001/02	168.0	200,000	100.0%	200,000
2002/03	156.0	1,025,000	100.0%	1,025,000
2003/04	144.0	7,860,000	100.0%	7,860,000
2004/05	132.0	90,000	100.0%	90,000
2005/06	120.0	2,000,000	100.0%	2,000,000
2006/07	108.0	0	99.0%	0
2007/08	96.0	300,000	97.1%	309,060
2008/09	84.0	300,000	95.2%	315,241
2009/10	72.0	800,000	93.3%	857,456
2010/11	60.0	0	88.9%	0
2011/12	48.0	2,115,000	82.7%	2,558,763
2012/13	36.0	1,600,000	75.1%	2,129,278
2013/14	24.0	750,000	60.1%	1,247,624
2014/15	12.0	250,000	37.6%	665,399

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

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



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Exhibit MM-Provident-5

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/15 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/15 (6)	Limited Case Reserves 11/30/15 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1995/96	240.0	100.0%	100.0%	100.0%	\$2,844,000	\$0	\$2,844,000
1996/97	228.0	100.0%	100.0%	100.0%	4,391,000	0	4,391,000
1997/98	216.0	100.0%	100.0%	100.0%	3,255,000	0	3,255,000
1998/99	204.0	100.0%	100.0%	100.0%	1,245,000	0	1,245,000
1999/00	192.0	100.0%	100.0%	100.0%	2,485,000	0	2,485,000
2000/01	180.0	100.0%	100.0%	100.0%	345,000	0	345,000
2001/02	168.0	100.0%	100.0%	100.0%	200,000	0	200,000
2002/03	156.0	100.0%	100.0%	100.0%	1,025,000	0	1,025,000
2003/04	144.0	100.0%	100.0%	100.0%	7,860,000	0	7,860,000
2004/05	132.0	98.0%	100.0%	100.0%	90,000	0	90,000
2005/06	120.0	94.3%	100.0%	100.0%	0	2,000,000	2,000,000
2006/07	108.0	89.8%	99.0%	90.3%	0	0	0
2007/08	96.0	80.2%	97.1%	85.2%	300,000	0	300,000
2008/09	84.0	67.9%	95.2%	84.9%	300,000	0	300,000
2009/10	72.0	56.6%	93.3%	84.6%	800,000	0	800,000
2010/11	60.0	28.3%	88.9%	84.5%	0	0	0
2011/12	48.0	10.9%	82.7%	80.5%	365,000	1,750,000	2,537,876
2012/13	36.0	2.2%	75.1%	74.6%	0	1,600,000	2,145,072
2013/14	24.0	0.0%	60.1%	60.1%	0	750,000	1,247,774
2014/15	12.0	0.0%	37.6%	37.6%	0	250,000	665,500

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

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



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Exhibit MM-Provident-6

Preliminary Projected Ultimate Limited Losses to 2014/15

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 1995/96	\$2,844,000	\$2,844,000	\$2,844,000	\$2,844,000
1996/97	4,391,000	4,391,000	4,391,000	4,391,000
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	91,800	90,000	90,000	90,000
2005/06	0	2,000,000	2,000,000	2,200,000
2006/07	0	0	0	0
2007/08	374,250	309,060	300,000	300,000
2008/09	441,615	315,241	300,000	300,000
2009/10	1,413,169	857,456	800,000	800,000
2010/11	0	0	0	0
2011/12	3,352,743	2,558,763	2,537,876	2,627,717
2012/13	0	2,129,278	2,145,072	1,760,000
2013/14	0	1,247,624	1,247,774	998,159
2014/15	0	665,399	665,500	532,360
Total	\$29,323,578	\$33,822,821	\$33,736,221	\$33,258,236

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

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

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

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



Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2015/16 = 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)
2005/06	\$2,200,000	381	\$5,778.06	1.495	\$8,638.47	\$2,452.78
2006/07	0	375	0.00	1.438	0.00	2,550.89
2007/08	300,000	389	770.48	1.382	1,065.00	2,652.93
2008/09	300,000	525	570.92	1.329	758.80	2,759.04
2009/10	800,000	373	2,145.73	1.245	2,671.83	2,944.95
2010/11	0	373	0.00	1.187	0.00	3,089.37
2011/12	2,627,717	363	7,242.20	1.141	8,265.71	3,212.95
2012/13	1,760,000	238	7,391.57	1.110	8,202.48	3,304.49
2013/14	998,159	238	4,192.02	1.071	4,489.20	3,424.27
2014/15	532,360	213	2,493.88	1.034	2,578.72	3,546.38

(7) Projected 2015/16 a-priori loss rate per Occupied Bed Equivalent \$3,667.02

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/15 (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)
2010/11	\$0	28.3%	\$3,089.37	373	\$825,798	\$825,798
2011/12	365,000	10.9%	3,212.95	363	1,038,855	1,403,855
2012/13	0	2.2%	3,304.49	238	769,698	769,698
2013/14	0	0.0%	3,424.27	238	815,202	815,202
2014/15	0	0.0%	3,546.38	213	756,964	756,964

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (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)
2010/11	\$0	88.9%	\$3,089.37	373	\$128,354	\$128,354
2011/12	2,115,000	82.7%	3,212.95	363	202,178	2,317,178
2012/13	1,600,000	75.1%	3,304.49	238	195,583	1,795,583
2013/14	750,000	60.1%	3,424.27	238	325,208	1,075,208
2014/15	250,000	37.6%	3,546.38	213	472,605	722,605

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

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

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

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

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

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

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



Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/15 (2)	Reported Claims 11/30/15 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2005/06	120.0	7	100.0%	7	381	0.02
2006/07	108.0	2	100.0%	2	375	0.01
2007/08	96.0	2	100.0%	2	389	0.01
2008/09	84.0	3	100.0%	3	525	0.01
2009/10	72.0	4	100.0%	4	373	0.01
2010/11	60.0	0	100.0%	0	373	0.00
2011/12	48.0	4	100.0%	4	363	0.01
2012/13	36.0	3	99.0%	3	238	0.01
2013/14	24.0	2	96.1%	2	238	0.01
2014/15	12.0	1	81.8%	1	213	0.00

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2015/16 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2015/16 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2005/06	\$2,200,000	7	\$314,286	1.495	\$469,872	\$237,109	\$1,659,761
2006/07	0	2	0	1.438	0	246,593	493,186
2007/08	300,000	2	150,000	1.382	207,338	256,457	512,913
2008/09	300,000	3	100,000	1.329	132,909	266,715	800,145
2009/10	800,000	4	200,000	1.245	249,037	284,687	1,138,748
2010/11	0	0	0	1.187	0	298,648	0
2011/12	2,627,717	4	656,929	1.141	749,770	310,594	1,242,375
2012/13	1,760,000	3	586,667	1.110	651,029	319,443	958,329
2013/14	998,159	2	499,080	1.071	534,460	331,022	662,044
2014/15	532,360	1	532,360	1.034	550,470	342,826	342,826
(7) Projected 2015/16 average claim severity					\$354,489		

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

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

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

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

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

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

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



COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Exhibit MM-Provident-9

Projected Ultimate Limited Losses to 2014/15

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 1995/96	\$2,844,000	\$2,844,000	\$2,844,000				\$2,844,000	\$2,844,000
1996/97	4,391,000	4,391,000	4,391,000				4,391,000	4,391,000
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	91,800	90,000	90,000				90,000	90,000
2005/06	0	2,000,000	2,000,000				2,200,000	2,200,000
2006/07	0	0	0					0
2007/08	374,250	309,060	300,000				400,000	325,000
2008/09	441,615	315,241	300,000				500,000	350,000
2009/10	1,413,169	857,456	800,000				1,100,000	900,000
2010/11	0	0	0	825,798	128,354		500,000	300,000
2011/12	3,352,743	2,558,763	2,537,876	1,403,855	2,317,178	1,242,375	2,000,000	2,500,000
2012/13	0	2,129,278	2,145,072	769,698	1,795,583	958,329	1,300,000	2,100,000
2013/14	0	1,247,624	1,247,774	815,202	1,075,208	662,044	1,700,000	1,300,000
2014/15	0	665,399	665,500	756,964	722,605	342,826	764,000	1,000,000
Sum	\$29,323,578	\$33,822,821	\$33,736,221				\$34,204,000	\$34,715,000
2010/11 - 2014/15	3,352,743	6,601,064	6,596,221	4,571,518	6,038,929	3,205,574	6,264,000	7,200,000
to 2009/10	25,970,834	27,221,757	27,140,000				27,940,000	27,515,000
						Change		
						All years		\$511,000
						2010/11 - 2014/15		936,000
						to 2009/10		-425,000

(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 from prior actuarial study.

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



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Exhibit MM-Provident-10

Projected Ultimate Limited Losses for 2015/16 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2015/16 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)	Present Value of Projected Limited Loss Rate per Occupied Bed Equivalent (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11) (12)
2005/06	\$2,200,000	381	\$5,778.06	1.495	\$8,638.47		
2006/07	0	375	0.00	1.438	0.00		
2007/08	325,000	389	834.69	1.382	1,153.75		
2008/09	350,000	525	666.07	1.329	885.27		
2009/10	900,000	373	2,413.94	1.245	3,005.81		
2010/11	300,000	373	804.65	1.187	955.10		
2011/12	2,500,000	363	6,890.20	1.141	7,863.96		
2012/13	2,100,000	238	8,819.48	1.110	9,787.05		
2013/14	1,300,000	238	5,459.68	1.071	5,846.72		
2014/15	1,000,000	213	4,684.57	1.034	4,843.94		
Total	\$10,975,000	3,468	\$3,164.23		\$4,298.01		
2015/16	\$4,298.01	213	\$917,000	0.90	\$3,877.19		\$828,000
2016/17	4,469.93	213	954,000	0.90	4,032.28		861,000
2017/18	4,648.72	213	992,000	0.90	4,193.57		895,000

(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) 2015/16 is based on (6) and actuarial judgment.
 Other period(s) based on 2015/16 plus a 4% trend.

(8) to 2015/16 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.68% 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, 2015

Claim Period (1)	Limited Paid Losses 11/30/15 (2)	Limited Case Reserves 11/30/15 (3)	Limited Reported Incurred Losses 11/30/15 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/15 (5)-(4) (6)	Estimated Outstanding Losses 11/30/15 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/15 (7)X(8) (9)
to 1995/96	\$2,844,000	\$0	\$2,844,000	\$2,844,000	\$0	\$0	1.00	\$0
1996/97	4,391,000	0	4,391,000	4,391,000	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	0.99	0
2005/06	0	2,000,000	2,000,000	2,200,000	200,000	2,200,000	0.99	2,169,417
2006/07	0	0	0	0	0	0	0.98	0
2007/08	300,000	0	300,000	325,000	25,000	25,000	0.98	24,426
2008/09	300,000	0	300,000	350,000	50,000	50,000	0.97	48,632
2009/10	800,000	0	800,000	900,000	100,000	100,000	0.97	96,574
2010/11	0	0	0	300,000	300,000	300,000	0.97	289,900
2011/12	365,000	1,750,000	2,115,000	2,500,000	385,000	2,135,000	0.96	2,046,287
2012/13	0	1,600,000	1,600,000	2,100,000	500,000	2,100,000	0.95	1,988,665
2013/14	0	750,000	750,000	1,300,000	550,000	1,300,000	0.93	1,212,433
2014/15	0	250,000	250,000	1,000,000	750,000	1,000,000	0.92	917,238
Total	\$25,505,000	\$6,350,000	\$31,855,000	\$34,715,000	\$2,860,000	\$9,210,000		\$8,793,572

(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 1.68% 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, 2015 to November 30, 2016

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Months of Development 11/30/16 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/15 to 11/30/16 [(5)-(3)]/[100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/15 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/16 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/16 (9)X(10) (11)
to 1995/96	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1996/97	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1997/98	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
1998/99	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	120.0	94.3%	132.0	98.0%	65.8%	2,200,000	1,447,368	752,632	0.99	746,388
2006/07	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2007/08	96.0	80.2%	108.0	89.8%	48.5%	25,000	12,121	12,879	0.98	12,614
2008/09	84.0	67.9%	96.0	80.2%	38.1%	50,000	19,066	30,934	0.98	30,224
2009/10	72.0	56.6%	84.0	67.9%	26.1%	100,000	26,094	73,906	0.97	71,884
2010/11	60.0	28.3%	72.0	56.6%	39.5%	300,000	118,440	181,560	0.97	175,340
2011/12	48.0	10.9%	60.0	28.3%	19.5%	2,135,000	1,624,120 *	510,880	0.97	493,681
2012/13	36.0	2.2%	48.0	10.9%	8.9%	2,100,000	186,966	1,913,034	0.96	1,833,544
2013/14	24.0	0.0%	36.0	2.2%	2.2%	1,300,000	28,074	1,271,926	0.95	1,204,493
2014/15	12.0	0.0%	24.0	0.0%	0.0%	1,000,000	91	999,909	0.93	932,556
2015/16	0.0	0.0%	12.0	0.0%	0.0%	917,000	83	916,917	0.92	841,031
Total						\$10,127,000	\$3,462,423	\$6,664,577		\$6,341,755

* - adjusted to reflect large payment based on information provided by the County.

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

(7) to 2014/15 is from Exhibit MM-Provident-11. The amount for 2015/16 is from Exhibit MM-Provident-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit MM-Provident-2.



COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Exhibit MM-Provident-13

Projected Losses Paid December 1, 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 1995/96	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	752,632	752,632	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%	12,879	5,657	7,222	0.99	7,122
2008/09	96.0	80.2%	108.0	89.8%	48.5%	30,934	14,998	15,936	0.98	15,608
2009/10	84.0	67.9%	96.0	80.2%	38.1%	73,906	28,181	45,725	0.98	44,675
2010/11	72.0	56.6%	84.0	67.9%	26.1%	181,560	47,376	134,184	0.97	130,513
2011/12	60.0	28.3%	72.0	56.6%	39.5%	510,880	201,696	309,184	0.97	298,592
2012/13	48.0	10.9%	60.0	28.3%	19.5%	1,913,034	373,932	1,539,102	0.97	1,487,288
2013/14	36.0	2.2%	48.0	10.9%	8.9%	1,271,926	113,241	1,158,685	0.96	1,110,540
2014/15	24.0	0.0%	36.0	2.2%	2.2%	999,909	21,594	978,315	0.95	926,448
2015/16	12.0	0.0%	24.0	0.0%	0.0%	916,917	83	916,834	0.93	855,076
2016/17	0.0	0.0%	12.0	0.0%	0.0%	954,000	87	953,913	0.92	874,965
Total						\$7,618,577	\$1,559,477	\$6,059,100		\$5,750,827

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

(7) to 2015/16 is from Exhibit MM-Provident-12, (9). The amount for 2016/17 is from Exhibit MM-Provident-10.

(10) is based on a 1.68% 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, 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 1995/96	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	7,222	4,751	2,471	0.99	2,451
2008/09	108.0	89.8%	120.0	94.3%	43.9%	15,936	6,999	8,937	0.99	8,813
2009/10	96.0	80.2%	108.0	89.8%	48.5%	45,725	22,170	23,555	0.98	23,070
2010/11	84.0	67.9%	96.0	80.2%	38.1%	134,184	51,166	83,018	0.98	81,112
2011/12	72.0	56.6%	84.0	67.9%	26.1%	309,184	80,678	228,506	0.97	222,255
2012/13	60.0	28.3%	72.0	56.6%	39.5%	1,539,102	607,639	931,463	0.97	899,553
2013/14	48.0	10.9%	60.0	28.3%	19.5%	1,158,685	226,483	932,202	0.97	900,819
2014/15	36.0	2.2%	48.0	10.9%	8.9%	978,315	87,101	891,214	0.96	854,183
2015/16	24.0	0.0%	36.0	2.2%	2.2%	916,834	19,800	897,034	0.95	849,476
2016/17	12.0	0.0%	24.0	0.0%	0.0%	953,913	87	953,826	0.93	889,577
2017/18	0.0	0.0%	12.0	0.0%	0.0%	992,000	90	991,910	0.92	909,817
Total						\$7,051,100	\$1,106,964	\$5,944,136		\$5,641,126

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

(7) to 2016/17 is from Exhibit MM-Provident-13, (9). The amount for 2017/18 is from Exhibit MM-Provident-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit MM-Provident-2.



COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Exhibit MM-Provident-15

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

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/15 (5)	Unlimited Case Reserves 11/30/15 (6)	Unlimited Reported Incurred Losses 11/30/15 (7)
97006011	2/20/2004	2003/04	\$20,000,000	\$1,500,000	\$0	\$1,500,000
97007664	9/3/2006	2005/06	20,000,000	0	2,000,000	2,000,000
97009704	3/27/2012	2011/12	40,000,000	0	1,500,000	1,500,000
97011788	1/5/2013	2012/13	40,000,000	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.



COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Exhibit MM-Provident-16

Calculation of Occupied Bed Equivalents

Claim Period (1)	Inpatients (2)	ER Visits (3)	Other Visits (4)	Other Visits (5)	Other Visits (6)	Physicians (7)	Occupied Bed Equivalents (8)
to 1995/96							
1996/97	70	48,409	50,424	809	260	31	273
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	22,650	49,663	1,505	605	45	213

(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 2013. 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)



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

Data Summary as of November 30, 2015
 Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Limited Paid Losses 11/30/15 (8)	Limited Case Reserves 11/30/15 (9)	Limited Reported Incurred Losses 11/30/15 (10)
to 1995/96	See Note	None	240.0	Not Provided	121	0	\$35,222,608	\$0	\$35,222,608
1996/97	Unlimited	None	228.0	Not Provided	1	0	0	0	0
1997/98	Unlimited	None	216.0	Not Provided	2	0	8,500,000	0	8,500,000
1998/99	Unlimited	None	204.0	Not Provided	1	0	0	0	0
1999/00	Unlimited	None	192.0	Not Provided	0	0	0	0	0
2000/01	10,000,000	25,000,000	180.0	Not Provided	1	0	0	0	0
2001/02	15,000,000	50,000,000	168.0	Not Provided	6	0	750,000	0	750,000
2002/03	20,000,000	80,000,000	156.0	Not Provided	7	0	800,000	0	800,000
2003/04	20,000,000	None	144.0	Not Provided	8	0	0	0	0
2004/05	20,000,000	None	132.0	Not Provided	3	0	0	0	0
2005/06	20,000,000	None	120.0	Not Provided	4	0	1,320	0	1,320
2006/07	20,000,000	None	108.0	Not Provided	0	0	0	0	0
2007/08	20,000,000	None	96.0	Not Provided	0	0	0	0	0
2008/09	20,000,000	None	84.0	Not Provided	0	0	0	0	0
2009/10	40,000,000	None	72.0	443	1	0	0	0	0
2010/11	40,000,000	None	60.0	443	2	0	0	0	0
2011/12	40,000,000	None	48.0	443	1	0	0	0	0
2012/13	30,000,000	None	36.0	408	2	0	0	0	0
2013/14	30,000,000	None	24.0	408	0	0	0	0	0
2014/15	25,000,000	None	12.0	249	0	0	0	0	0
Total					160		\$45,273,928	\$0	\$45,273,928

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

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

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

Data was provided by the County.



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

Data Summary as of November 30, 2015
 Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Occupied Bed Equivalents (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Unlimited Paid Losses 11/30/15 (8)	Unlimited Case Reserves 11/30/15 (9)	Unlimited Reported Incurred Losses 11/30/15 (10)
to 1995/96	Unlimited	None	240.0	Not Provided	121	0	\$35,222,608	\$0	\$35,222,608
1996/97	Unlimited	None	228.0	Not Provided	1	0	0	0	0
1997/98	Unlimited	None	216.0	Not Provided	2	0	8,500,000	0	8,500,000
1998/99	Unlimited	None	204.0	Not Provided	1	0	0	0	0
1999/00	Unlimited	None	192.0	Not Provided	0	0	0	0	0
2000/01	Unlimited	25,000,000	180.0	Not Provided	1	0	0	0	0
2001/02	Unlimited	50,000,000	168.0	Not Provided	6	0	750,000	0	750,000
2002/03	Unlimited	80,000,000	156.0	Not Provided	7	0	800,000	0	800,000
2003/04	Unlimited	None	144.0	Not Provided	8	0	0	0	0
2004/05	Unlimited	None	132.0	Not Provided	3	0	0	0	0
2005/06	Unlimited	None	120.0	Not Provided	4	0	1,320	0	1,320
2006/07	Unlimited	None	108.0	Not Provided	0	0	0	0	0
2007/08	Unlimited	None	96.0	Not Provided	0	0	0	0	0
2008/09	Unlimited	None	84.0	Not Provided	0	0	0	0	0
2009/10	Unlimited	None	72.0	443	1	0	0	0	0
2010/11	Unlimited	None	60.0	443	2	0	0	0	0
2011/12	Unlimited	None	48.0	443	1	0	0	0	0
2012/13	Unlimited	None	36.0	408	2	0	0	0	0
2013/14	Unlimited	None	24.0	408	0	0	0	0	0
2014/15	Unlimited	None	12.0	249	0	0	0	0	0
Total					160		\$45,273,928	\$0	\$45,273,928

(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 - UNSPECIFIED HOSPITAL / AMBULATORY CARE

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)	Months of Development (5)	Percent Losses Paid (6)	Percent Losses Reported (7)	Percent Claims Reported (8)
360.0	100.0%	100.0%	100.0%	354.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%	342.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%	330.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%	318.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%	306.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%	294.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%	282.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%	270.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%	258.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%	246.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%	234.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%	222.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%	210.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%	198.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%	186.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%	174.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%	162.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%	150.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%	138.0	99.0%	100.0%	100.0%
132.0	98.0%	100.0%	100.0%	126.0	96.2%	100.0%	100.0%
120.0	94.3%	100.0%	100.0%	114.0	92.0%	99.5%	100.0%
108.0	89.8%	99.0%	100.0%	102.0	85.0%	98.0%	100.0%
96.0	80.2%	97.1%	100.0%	90.0	74.0%	96.1%	100.0%
84.0	67.9%	95.2%	100.0%	78.0	62.3%	94.2%	100.0%
72.0	56.6%	93.3%	100.0%	66.0	42.5%	91.1%	100.0%
60.0	28.3%	88.9%	100.0%	54.0	19.6%	85.8%	100.0%
48.0	10.9%	82.7%	100.0%	42.0	6.5%	78.9%	99.5%
36.0	2.2%	75.1%	99.0%	30.0	1.1%	67.6%	97.6%
24.0	0.0%	60.1%	96.1%	18.0	0.0%	48.8%	89.0%
12.0	0.0%	37.6%	81.8%	6.0	0.0%	18.8%	40.9%

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

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

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

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



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

Historical 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	
to 1/95/06																				
1996/97	0	1	451	4,206	4,988	5,988	6,838	7,678	7,678	8,778	15,528	15,628	15,628	15,628	15,628	15,628	15,628	15,628	15,628	240
1997/98	4	7	172	7,982	15,867	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	228
1998/99	0	0	0	2,205	3,960	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	216
1999/00	0	12,065	17,115	17,650	23,830	27,830	37,830	37,830	37,830	37,830	37,830	37,830	37,830	37,830	37,830	37,830	37,830	37,830	37,830	204
2000/01	0	0	156	1,046	4,406	4,406	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	192
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	180
2002/03	10	12	1,260	1,263	3,248	4,488	4,888	4,888	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	168
2003/04	0	0	8,781	16,656	18,246	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	156
2004/05	0	90	107	5,775	6,778	9,908	11,533	11,533	11,603	11,603	23,603	23,603	23,603	23,603	23,603	23,603	23,603	23,603	23,603	144
2005/06	0	1	516	6,778	9,228	9,908	11,533	11,533	11,603	11,603	23,603	23,603	23,603	23,603	23,603	23,603	23,603	23,603	23,603	132
2006/07	0	16	28	2,016	4,766	4,766	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	120
2007/08	0	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	108
2008/09	0	0	2,445	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	96
2009/10	0	0	2,318	7,653	10,438	10,438	10,438	10,438	10,438	10,438	10,438	10,438	10,438	10,438	10,438	10,438	10,438	10,438	10,438	84
2010/11	0	0	0	7,653	10,438	10,438	10,438	10,438	10,438	10,438	10,438	10,438	10,438	10,438	10,438	10,438	10,438	10,438	10,438	72
2011/12	0	0	2,850	4,878	4,878	4,878	4,878	4,878	4,878	4,878	4,878	4,878	4,878	4,878	4,878	4,878	4,878	4,878	4,878	60
2012/13	0	20,100	20,825	24,390	24,390	24,390	24,390	24,390	24,390	24,390	24,390	24,390	24,390	24,390	24,390	24,390	24,390	24,390	24,390	48
2013/14	0	850	850	850	850	850	850	850	850	850	850	850	850	850	850	850	850	850	850	36
2014/15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24

Claim Period	Months of Development:																				
	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 1/95/96																					
1996/97	451,000	1,122	8,312	1,186	1,200	1,142	1,123	1,000	1,143	1,769	1,000	1,006	1,000	1,000	1,000	1,000	1,000	1,000	1,000	240	
1997/98	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	228	
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	216	
1999/00	0	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	204	
2000/01	0	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	192	
2001/02	1,150	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	180	
2002/03	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	168	
2003/04	0	53,971	2,866	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	156	
2004/05	0	103,000	1,023	12,837	1,361	1,074	1,164	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	144	
2005/06	0	1,000	1,621	77,245	1,000	2,364	1,000	2,034	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	132	
2006/07	0	0	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	120	
2007/08	0	1,000	1,290	1,396	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	108	
2008/09	0	0	1,712	1,364	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	96	
2009/10	0	1,036	1,171	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	84	
2010/11	0	0	0	1,380	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	72	
2011/12	0	0	0	2,000	1,200	2,600	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	60	
2012/13	0	0	0	2,000	2,000	2,600	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	48	
2013/14	0	0	0	2,000	2,000	2,600	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	36	
2014/15	0	0	0	2,000	2,000	2,600	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	24	
Average																					
All	1,561	162,370	8,530	1,634	1,246	1,093	1,036	1,287	1,026	1,102	1,000	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,000	240	
Wtd 3		1,035	1,419	1,382	1,236	1,236	1,002	1,360	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	228	
Last 3			2,065	1,386	1,511	1,055	1,002	1,363	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	216	
Last 5			2,218	1,374	1,081	1,003	1,002	1,002	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	192	
x-tiltlow																					
Similar	6,500	3,400	2,100	1,380	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	1,170	168	
Previous	2,000	120,000	5,000	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	144	
Selected	2,000	120,000	5,000	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	132	
Cumulative	#####	551,359	45,928	3,533	1,766	1,472	1,472	1,114	1,061	1,020	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	120	
Percent	0.0%	0.0%	2.2%	28.3%	56.6%	67.9%	80.2%	89.8%	94.3%	98.0%	98.0%	98.0%	98.0%	98.0%	98.0%	98.0%	98.0%	98.0%	98.0%	100.0%	240

Amounts are limited (net of excess insurance).
 Data was provided by the County and is for Cermak, Stroger and Provident combined.



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

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

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

Claim Period	Months of Development:					180	192	204	216	228	240
	12	24	36	48	60						
to 1/9/95/96											
1/9/96/97	550	8,251	4,436	10,656	9,506	15,788	15,298	14,883	21,378	25,078	17,578
1/9/97/98	7,354	13,007	19,422	30,967	33,642	33,617	33,517	34,067	33,667	32,767	32,942
1/9/98/99	1,500	17,850	20,160	17,620	17,235	16,230	15,975	15,525	13,275	11,175	11,175
1/9/99/00	15,495	25,810	35,730	44,165	46,475	46,930	40,630	46,530	46,225	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
2001/02	33,740	25,655	29,908	24,761	25,134	31,305	25,861	26,061	25,061	25,061	25,061
2002/03	26,711	16,022	5,770	8,413	8,248	6,336	5,698	5,336	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
2004/05	9,450	21,041	20,842	24,110	21,345	19,465	18,715	19,715	19,715	19,715	19,715
2005/06	14,276	35,957	22,631	24,828	17,228	16,758	13,858	15,603	25,603	25,603	25,603
2006/07	11,046	13,126	8,721	5,787	4,726	5,496	4,766	4,766	4,766	4,766	4,766
2007/08	24,827	12,544	17,152	18,477	12,927	10,005	8,255	8,255	8,255	8,255	8,255
2008/09	5,235	6,890	9,775	10,255	9,555	10,005	12,388	12,388	12,388	12,388	12,388
2009/10	5,095	8,253	15,550	16,368	13,503	13,503	13,503	13,503	13,503	13,503	13,503
2010/11	770	3,900	8,530	11,105	11,183	11,183	11,183	11,183	11,183	11,183	11,183
2011/12	23,923	34,253	39,927	39,455	39,455	39,455	39,455	39,455	39,455	39,455	39,455
2012/13	6,925	12,000	29,150	29,150	29,150	29,150	29,150	29,150	29,150	29,150	29,150
2013/14	1,560	7,155									
2014/15	7,000										

II. Limited Reported Incurred Loss Development

Claim Period	Months of Development:					180-180	180-192	192-204	204-216	216-228	228-240	240-Ult
	12-24	24-36	36-48	48-60	60-72							
to 1/9/95/96												
1/9/96/97	15,002	0,538	2,402	0,882	1,661	0,968	0,974	1,436	1,173	0,701	0,900	
1/9/97/98	1,769	1,493	1,594	1,086	0,989	0,967	1,016	0,988	0,973	1,005	1,027	
1/9/98/99	11,900	1,129	0,874	0,976	0,943	0,984	0,972	0,865	0,842	1,000	1,000	
1/9/99/00	1,666	1,384	1,236	1,052	1,010	0,866	1,148	0,991	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	0,827	0,827	1,126	1,641	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	
2007/08	0,505	1,367	1,077	0,700	0,884	0,884	0,771	0,771	0,771	0,771	0,771	
2008/09	1,316	1,419	1,049	0,932	1,047	0,825	0,825	0,825	0,825	0,825	0,825	
2009/10	1,620	1,884	1,053	0,825	0,917	0,825	0,825	0,825	0,825	0,825	0,825	
2010/11	5,065	2,187	1,302	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	
2011/12	1,432	1,166	0,988									
2012/13	1,733	2,429										
2013/14	4,587											
2014/15												
Average All	3,156	1,194	1,208	0,907	1,148	0,877	0,989	1,071	0,960	0,967	0,991	
With 3	1,648	1,547	1,046	0,908	0,962	0,865	0,951	1,249	1,000	1,000	1,000	
Last 3	2,584	1,927	1,114	0,921	0,970	0,897	0,921	1,214	1,000	1,000	1,000	
Last 5	2,646	1,830	1,060	0,858	0,969	0,894	0,972	0,989	1,000	1,000	1,000	
x-tilt/low												
Similar	3,600	2,100	1,400	1,140	1,040	1,003	1,022	1,001	1,001	1,000	1,000	
Previous	1,500	1,200	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	1,663	1,331	1,125	1,072	1,051	1,051	1,030	1,010	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%	

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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 1/9/95/06																						
1996/97	0.0%	0.0%	10.2%	4.7%	44.2%	31.6%	39.2%	45.9%	56.9%	30.6%	49.9%	98.1%	98.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1997/98	0.0%	0.1%	0.9%	14.6%	23.6%	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%	
1998/99	0.0%	0.0%	0.0%	0.0%	12.6%	36.6%	46.0%	56.1%	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%	0.0%	33.8%	38.6%	38.0%	50.6%	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%	96.9%	96.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2002/03	0.0%	0.1%	21.8%	15.0%	39.4%	66.1%	85.9%	93.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2003/04	0.0%	0.0%	0.0%	22.6%	56.0%	63.7%	96.3%	97.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2004/05	0.0%	0.3%	0.5%	24.0%	78.1%	96.1%	100.0%	94.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2005/06	0.0%	0.0%	2.3%	0.0%	39.3%	55.1%	71.5%	73.9%	45.3%	92.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2006/07	0.0%	0.1%	0.2%	0.5%	42.7%	86.7%	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%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	62.4%	
2009/10	0.0%	0.0%	0.0%	14.2%	56.7%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	84.3%	
2010/11	0.0%	0.0%	0.0%	25.7%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	43.6%	
2011/12	0.0%	58.7%	52.2%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	61.8%	
2012/13	0.0%	7.1%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	
2013/14	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
2014/15	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Average																						
All	0.0%	6.3%	9.0%	19.9%	41.0%	53.8%	70.6%	78.2%	76.4%	91.3%	94.2%	99.8%	99.8%	96.5%	95.8%	94.7%	92.9%	100.0%	100.0%	100.0%	100.0%	
Last 3		21.9%	18.4%	33.9%	44.4%	65.7%	75.4%	91.3%	80.1%	97.4%	100.0%	100.0%	100.0%	100.0%	100.0%	92.9%	92.9%	100.0%	100.0%	100.0%	100.0%	
Last 5			9.3%	25.4%	44.3%	56.0%	78.4%	97.5%	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 - UNSPECIFIED HOSPITAL / AMBULATORY CARE

Exhibit MM-Unspecified-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Paid Losses 11/30/15 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1995/96	240.0	\$35,222,608	100.0%	\$35,222,608
1996/97	228.0	0	100.0%	0
1997/98	216.0	8,500,000	100.0%	8,500,000
1998/99	204.0	0	100.0%	0
1999/00	192.0	0	100.0%	0
2000/01	180.0	0	100.0%	0
2001/02	168.0	750,000	100.0%	750,000
2002/03	156.0	800,000	100.0%	800,000
2003/04	144.0	0	100.0%	0
2004/05	132.0	0	98.0%	0
2005/06	120.0	1,320	94.3%	1,400
2006/07	108.0	0	89.8%	0
2007/08	96.0	0	80.2%	0
2008/09	84.0	0	67.9%	0
2009/10	72.0	0	56.6%	0
2010/11	60.0	0	28.3%	0
2011/12	48.0	0	10.9%	0
2012/13	36.0	0	2.2%	0
2013/14	24.0	0	0.0%	0
2014/15	12.0	0	0.0%	0

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

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



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

Exhibit MM-Unspecified-4

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1995/96	240.0	\$35,222,608	100.0%	\$35,222,608
1996/97	228.0	0	100.0%	0
1997/98	216.0	8,500,000	100.0%	8,500,000
1998/99	204.0	0	100.0%	0
1999/00	192.0	0	100.0%	0
2000/01	180.0	0	100.0%	0
2001/02	168.0	750,000	100.0%	750,000
2002/03	156.0	800,000	100.0%	800,000
2003/04	144.0	0	100.0%	0
2004/05	132.0	0	100.0%	0
2005/06	120.0	1,320	100.0%	1,320
2006/07	108.0	0	99.0%	0
2007/08	96.0	0	97.1%	0
2008/09	84.0	0	95.2%	0
2009/10	72.0	0	93.3%	0
2010/11	60.0	0	88.9%	0
2011/12	48.0	0	82.7%	0
2012/13	36.0	0	75.1%	0
2013/14	24.0	0	60.1%	0
2014/15	12.0	0	37.6%	0

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

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



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

Exhibit MM-Unspecified-5

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/15 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/15 (6)	Limited Case Reserves 11/30/15 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1995/96	240.0	100.0%	100.0%	100.0%	\$35,222,608	\$0	\$35,222,608
1996/97	228.0	100.0%	100.0%	100.0%	0	0	0
1997/98	216.0	100.0%	100.0%	100.0%	8,500,000	0	8,500,000
1998/99	204.0	100.0%	100.0%	100.0%	0	0	0
1999/00	192.0	100.0%	100.0%	100.0%	0	0	0
2000/01	180.0	100.0%	100.0%	100.0%	0	0	0
2001/02	168.0	100.0%	100.0%	100.0%	750,000	0	750,000
2002/03	156.0	100.0%	100.0%	100.0%	800,000	0	800,000
2003/04	144.0	100.0%	100.0%	100.0%	0	0	0
2004/05	132.0	98.0%	100.0%	100.0%	0	0	0
2005/06	120.0	94.3%	100.0%	100.0%	1,320	0	1,320
2006/07	108.0	89.8%	99.0%	90.3%	0	0	0
2007/08	96.0	80.2%	97.1%	85.2%	0	0	0
2008/09	84.0	67.9%	95.2%	84.9%	0	0	0
2009/10	72.0	56.6%	93.3%	84.6%	0	0	0
2010/11	60.0	28.3%	88.9%	84.5%	0	0	0
2011/12	48.0	10.9%	82.7%	80.5%	0	0	0
2012/13	36.0	2.2%	75.1%	74.6%	0	0	0
2013/14	24.0	0.0%	60.1%	60.1%	0	0	0
2014/15	12.0	0.0%	37.6%	37.6%	0	0	0

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

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



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

Exhibit MM-Unspecified-6

Preliminary Projected Ultimate Limited Losses to 2014/15

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 1995/96	\$35,222,608	\$35,222,608	\$35,222,608	\$35,222,608
1996/97	0	0	0	0
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	1,400	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	0	0	0
Total	\$45,274,008	\$45,273,928	\$45,273,928	\$45,273,928

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

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

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

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



Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2015/16 = 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)
2005/06	\$1,320	443	\$2.98	1.495	\$4.45	\$0.30
2006/07	0	443	0.00	1.438	0.00	0.31
2007/08	0	443	0.00	1.382	0.00	0.32
2008/09	0	443	0.00	1.329	0.00	0.34
2009/10	0	443	0.00	1.245	0.00	0.36
2010/11	0	443	0.00	1.187	0.00	0.38
2011/12	0	443	0.00	1.141	0.00	0.39
2012/13	0	408	0.00	1.110	0.00	0.40
2013/14	0	408	0.00	1.071	0.00	0.42
2014/15	0	249	0.00	1.034	0.00	0.43

(7) Projected 2015/16 a-priori loss rate per Occupied Bed Equivalent \$0.45

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/15 (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)
2010/11	\$0	28.3%	\$0.38	443	\$119	\$119
2011/12	0	10.9%	0.39	443	154	154
2012/13	0	2.2%	0.40	408	160	160
2013/14	0	0.0%	0.42	408	169	169
2014/15	0	0.0%	0.43	249	107	107

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (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)
2010/11	\$0	88.9%	\$0.38	443	\$19	\$19
2011/12	0	82.7%	0.39	443	30	30
2012/13	0	75.1%	0.40	408	41	41
2013/14	0	60.1%	0.42	408	68	68
2014/15	0	37.6%	0.43	249	67	67

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

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

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

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

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

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

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



Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/15 (2)	Reported Claims 11/30/15 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Occupied Bed Equivalents (6)	Frequency (per Occupied Bed Equivalent) (5)/(6) (7)
2005/06	120.0	4	100.0%	4	443	0.01
2006/07	108.0	0	100.0%	0	443	0.00
2007/08	96.0	0	100.0%	0	443	0.00
2008/09	84.0	0	100.0%	0	443	0.00
2009/10	72.0	1	100.0%	1	443	0.00
2010/11	60.0	2	100.0%	2	443	0.00
2011/12	48.0	1	100.0%	1	443	0.00
2012/13	36.0	2	99.0%	2	408	0.00
2013/14	24.0	0	96.1%	0	408	0.00
2014/15	12.0	0	81.8%	0	249	0.00

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2015/16 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2015/16 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2005/06	\$1,320	4	\$330	1.495	\$493	\$33	\$132
2006/07	0	0	0	1.438	0	34	0
2007/08	0	0	0	1.382	0	36	0
2008/09	0	0	0	1.329	0	37	0
2009/10	0	1	0	1.245	0	40	40
2010/11	0	2	0	1.187	0	42	83
2011/12	0	1	0	1.141	0	43	43
2012/13	0	2	0	1.110	0	44	89
2013/14	0	0	0	1.071	0	46	0
2014/15	0	0	0	1.034	0	48	0

(7) Projected 2015/16 average claim severity

\$49

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

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

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

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

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

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

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



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

Exhibit MM-Unspecified-9

Projected Ultimate Limited Losses to 2014/15

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 1995/96	\$35,222,608	\$35,222,608	\$35,222,608				\$35,222,608	\$35,222,608
1996/97	0	0	0					0
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	1,400	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				1,125,000	0
2010/11	0	0	0	119	19	83	100,000	25,000
2011/12	0	0	0	154	30	43	125,000	50,000
2012/13	0	0	0	160	41	89	175,000	50,000
2013/14	0	0	0	169	68		175,000	75,000
2014/15	0	0	0	107	67		133,000	100,000
Sum	\$45,274,008	\$45,273,928	\$45,273,928				\$47,106,928	\$45,573,928
2010/11 - 2014/15	0	0	0	710	224	215	708,000	300,000
to 2009/10	45,274,008	45,273,928	45,273,928				46,398,928	45,273,928
						Change		
						All years		-\$1,533,000
						2010/11 - 2014/15		-408,000
						to 2009/10		-1,125,000

(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 from prior actuarial study.

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



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

Exhibit MM-Unspecified-10

Projected Ultimate Limited Losses for 2015/16 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Occupied Bed Equivalents (3)	Limited Loss Rate per Occupied Bed Equivalent (2)/(3) (4)	Loss Rate Trend (2015/16 = 1.000) (5)	Trended Limited Loss Rate per Occupied Bed Equivalent (4)X(5) (6)	Present Value of Projected Limited Loss Rate per Occupied Bed Equivalent (7)X(10) (11)	Present Value of Projected Ultimate Limited Losses (8)X(11) (12)
2005/06	\$1,320	443	\$2.98	1.495	\$4.45		
2006/07	0	443	0.00	1.438	0.00		
2007/08	0	443	0.00	1.382	0.00		
2008/09	0	443	0.00	1.329	0.00		
2009/10	0	443	0.00	1.245	0.00		
2010/11	25,000	443	56.43	1.187	66.99		
2011/12	50,000	443	112.87	1.141	128.82		
2012/13	50,000	408	122.70	1.110	136.16		
2013/14	75,000	408	184.05	1.071	197.10		
2014/15	100,000	249	401.82	1.034	415.49		
Total	\$301,320	4,165	\$72.35		\$94.90		
2015/16	\$94.90	249	\$24,000	0.90	\$85.61	\$21,000	
2016/17	98.70	249	25,000	0.90	89.03	22,000	
2017/18	102.64	249	26,000	0.90	92.59	23,000	

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

(3) 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 and adjusted for change in retention.

(7) 2015/16 is based on (6) and actuarial judgment.
 Other period(s) based on 2015/16 plus a 4% trend.

(8) to 2015/16 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit MM-Unspecified-2.



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

Exhibit MM-Unspecified-11

Estimated Outstanding Losses as of November 30, 2015

Claim Period (1)	Limited Paid Losses 11/30/15 (2)	Limited Case Reserves 11/30/15 (3)	Limited Reported Incurred Losses 11/30/15 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/15 (5)-(4) (6)	Estimated Outstanding Losses 11/30/15 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/15 (7)X(8) (9)
to 1995/96	\$35,222,608	\$0	\$35,222,608	\$35,222,608	\$0	\$0	1.00	\$0
1996/97	0	0	0	0	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	0.99	0
2005/06	1,320	0	1,320	1,320	0	0	0.99	0
2006/07	0	0	0	0	0	0	0.98	0
2007/08	0	0	0	0	0	0	0.98	0
2008/09	0	0	0	0	0	0	0.97	0
2009/10	0	0	0	0	0	0	0.97	0
2010/11	0	0	0	25,000	25,000	25,000	0.97	24,158
2011/12	0	0	0	50,000	50,000	50,000	0.96	47,922
2012/13	0	0	0	50,000	50,000	50,000	0.95	47,349
2013/14	0	0	0	75,000	75,000	75,000	0.93	69,948
2014/15	0	0	0	100,000	100,000	100,000	0.92	91,724
Total	\$45,273,928	\$0	\$45,273,928	\$45,573,928	\$300,000	\$300,000		\$281,101

(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 1.68% 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, 2015 to November 30, 2016

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Months of Development 11/30/16 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/15 to 11/30/16 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/15 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/16 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/16 (9)X(10) (11)
to 1995/96	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1996/97	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1997/98	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
1998/99	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	132.0	98.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	120.0	94.3%	132.0	98.0%	65.8%	0	0	0	0.99	0
2006/07	108.0	89.8%	120.0	94.3%	43.9%	0	0	0	0.99	0
2007/08	96.0	80.2%	108.0	89.8%	48.5%	0	0	0	0.98	0
2008/09	84.0	67.9%	96.0	80.2%	38.1%	0	0	0	0.98	0
2009/10	72.0	56.6%	84.0	67.9%	26.1%	0	0	0	0.97	0
2010/11	60.0	28.3%	72.0	56.6%	39.5%	25,000	9,870	15,130	0.97	14,612
2011/12	48.0	10.9%	60.0	28.3%	19.5%	50,000	9,773	40,227	0.97	38,873
2012/13	36.0	2.2%	48.0	10.9%	8.9%	50,000	4,452	45,548	0.96	43,655
2013/14	24.0	0.0%	36.0	2.2%	2.2%	75,000	1,620	73,380	0.95	69,490
2014/15	12.0	0.0%	24.0	0.0%	0.0%	100,000	9	99,991	0.93	93,256
2015/16	0.0	0.0%	12.0	0.0%	0.0%	24,000	2	23,998	0.92	22,012
Total						\$324,000	\$25,726	\$298,274		\$281,898

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

(7) to 2014/15 is from Exhibit MM-Unspecified-11. The amount for 2015/16 is from Exhibit MM-Unspecified-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit MM-Unspecified-2.



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

Exhibit MM-Unspecified-13

Projected Losses Paid December 1, 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 1995/96	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	15,130	3,948	11,182	0.97	10,876
2011/12	60.0	28.3%	72.0	56.6%	39.5%	40,227	15,882	24,345	0.97	23,511
2012/13	48.0	10.9%	60.0	28.3%	19.5%	45,548	8,903	36,645	0.97	35,411
2013/14	36.0	2.2%	48.0	10.9%	8.9%	73,380	6,533	66,847	0.96	64,069
2014/15	24.0	0.0%	36.0	2.2%	2.2%	99,991	2,159	97,832	0.95	92,645
2015/16	12.0	0.0%	24.0	0.0%	0.0%	23,998	2	23,996	0.93	22,380
2016/17	0.0	0.0%	12.0	0.0%	0.0%	25,000	2	24,998	0.92	22,929
Total						\$323,274	\$37,429	\$285,845		\$271,821

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

(7) to 2015/16 is from Exhibit MM-Unspecified-12, (9). The amount for 2016/17 is from Exhibit MM-Unspecified-10.

(10) is based on a 1.68% 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, 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 1995/96	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	11,182	4,264	6,918	0.98	6,759
2011/12	72.0	56.6%	84.0	67.9%	26.1%	24,345	6,353	17,992	0.97	17,500
2012/13	60.0	28.3%	72.0	56.6%	39.5%	36,645	14,467	22,178	0.97	21,418
2013/14	48.0	10.9%	60.0	28.3%	19.5%	66,847	13,066	53,781	0.97	51,970
2014/15	36.0	2.2%	48.0	10.9%	8.9%	97,832	8,710	89,122	0.96	85,419
2015/16	24.0	0.0%	36.0	2.2%	2.2%	23,996	518	23,478	0.95	22,233
2016/17	12.0	0.0%	24.0	0.0%	0.0%	24,998	2	24,996	0.93	23,312
2017/18	0.0	0.0%	12.0	0.0%	0.0%	26,000	2	25,998	0.92	23,846
Total						\$311,845	\$47,382	\$264,463		\$252,457

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

(7) to 2016/17 is from Exhibit MM-Unspecified-13, (9). The amount for 2017/18 is from Exhibit MM-Unspecified-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit MM-Unspecified-2.



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

Exhibit MM-Unspecified-15

Calculation of Occupied Bed Equivalents

Claim Period (1)	Inpatients (2)	ER Visits (3)	Other Visits (4)	Other Visits (5)	Other Visits (6)	Physicians (7)	Occupied Bed Equivalents (8)
to 1995/96							
1996/97							0
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			411,102			31	249

(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 2013. 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)



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

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

Data Summary as of November 30, 2015
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Payroll (000) (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Limited Paid Losses 11/30/15 (8)	Limited Case Reserves 11/30/15 (9)	Limited Reported Incurred Losses 11/30/15 (10)
to 1995/96	See Note	None	240.0	Not Provided	11,630	13	\$55,421,100	\$1,055,851	\$56,476,951
1996/97	Unlimited	None	228.0	Not Provided	1,237	1	3,820,588	35,000	3,855,588
1997/98	Unlimited	None	216.0	Not Provided	1,181	3	3,697,580	146,374	3,843,954
1998/99	Unlimited	None	204.0	Not Provided	1,120	0	4,262,977	0	4,262,977
1999/00	Unlimited	None	192.0	Not Provided	1,133	5	5,935,923	189,115	6,125,037
2000/01	9,500,000	None	180.0	719,952	1,183	6	7,399,156	686,784	8,085,940
2001/02	9,500,000	None	168.0	752,457	1,161	6	7,539,316	1,212,526	8,751,842
2002/03	9,500,000	None	156.0	779,098	1,223	5	7,682,344	388,870	8,071,214
2003/04	Unlimited	None	144.0	810,182	1,218	10	7,406,152	1,095,459	8,501,611
2004/05	Unlimited	None	132.0	832,363	1,318	6	7,443,121	602,116	8,045,238
2005/06	Unlimited	None	120.0	826,479	1,159	12	8,102,654	271,464	8,374,118
2006/07	Unlimited	None	108.0	859,906	902	19	9,723,979	1,070,353	10,794,333
2007/08	Unlimited	None	96.0	914,260	777	33	10,401,421	1,294,888	11,696,308
2008/09	Unlimited	None	84.0	942,707	767	37	11,196,353	1,851,899	13,048,252
2009/10	Unlimited	None	72.0	998,250	862	74	9,734,099	3,026,190	12,760,289
2010/11	Unlimited	None	60.0	928,082	788	76	7,718,648	1,866,397	9,585,044
2011/12	Unlimited	None	48.0	899,082	783	115	7,159,582	4,168,413	11,327,995
2012/13	Unlimited	None	36.0	949,338	716	117	5,291,875	3,314,224	8,606,099
2013/14	Unlimited	None	24.0	988,081	752	238	4,357,780	4,086,406	8,444,185
2014/15	Unlimited	None	12.0	998,567	762	496	2,264,779	3,234,438	5,499,217
Total					30,672	1,272	\$186,559,426	\$29,596,767	\$216,156,193

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

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

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

Data was provided by the County.



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

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

Data Summary as of November 30, 2015
Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Payroll (000) (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Unlimited Paid Losses 11/30/15 (8)	Unlimited Case Reserves 11/30/15 (9)	Unlimited Reported Incurred Losses 11/30/15 (10)
to 1995/96	Unlimited	None	240.0	Not Provided	11,630	13	\$55,421,100	\$1,055,851	\$56,476,951
1996/97	Unlimited	None	228.0	Not Provided	1,237	1	3,820,588	35,000	3,855,588
1997/98	Unlimited	None	216.0	Not Provided	1,181	3	3,697,580	146,374	3,843,954
1998/99	Unlimited	None	204.0	Not Provided	1,120	0	4,262,977	0	4,262,977
1999/00	Unlimited	None	192.0	Not Provided	1,133	5	5,935,923	189,115	6,125,037
2000/01	Unlimited	None	180.0	719,952	1,183	6	7,399,156	686,784	8,085,940
2001/02	Unlimited	None	168.0	752,457	1,161	6	7,539,316	1,212,526	8,751,842
2002/03	Unlimited	None	156.0	779,098	1,223	5	7,682,344	388,870	8,071,214
2003/04	Unlimited	None	144.0	810,182	1,218	10	7,406,152	1,095,459	8,501,611
2004/05	Unlimited	None	132.0	832,363	1,318	6	7,443,121	602,116	8,045,238
2005/06	Unlimited	None	120.0	826,479	1,159	12	8,102,654	271,464	8,374,118
2006/07	Unlimited	None	108.0	859,906	902	19	9,723,979	1,070,353	10,794,333
2007/08	Unlimited	None	96.0	914,260	777	33	10,401,421	1,294,888	11,696,308
2008/09	Unlimited	None	84.0	942,707	767	37	11,196,353	1,851,899	13,048,252
2009/10	Unlimited	None	72.0	998,250	862	74	9,734,099	3,026,190	12,760,289
2010/11	Unlimited	None	60.0	928,082	788	76	7,718,648	1,866,397	9,585,044
2011/12	Unlimited	None	48.0	899,082	783	115	7,159,582	4,168,413	11,327,995
2012/13	Unlimited	None	36.0	949,338	716	117	5,291,875	3,314,224	8,606,099
2013/14	Unlimited	None	24.0	988,081	752	238	4,357,780	4,086,406	8,444,185
2014/15	Unlimited	None	12.0	998,567	762	496	2,264,779	3,234,438	5,499,217
Total					30,672	1,272	\$186,559,426	\$29,596,767	\$216,156,193

(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)

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)	Months of Development (5)	Percent Losses Paid (6)	Percent Losses Reported (7)	Percent Claims Reported (8)
360.0	100.0%	100.0%	100.0%	354.0	99.9%	100.0%	100.0%
348.0	99.9%	100.0%	100.0%	342.0	99.9%	100.0%	100.0%
336.0	99.9%	100.0%	100.0%	330.0	99.9%	100.0%	100.0%
324.0	99.9%	100.0%	100.0%	318.0	99.9%	100.0%	100.0%
312.0	99.8%	100.0%	100.0%	306.0	99.8%	100.0%	100.0%
300.0	99.8%	100.0%	100.0%	294.0	99.7%	100.0%	100.0%
288.0	99.6%	100.0%	100.0%	282.0	99.6%	100.0%	100.0%
276.0	99.5%	100.0%	100.0%	270.0	99.4%	100.0%	100.0%
264.0	99.3%	100.0%	100.0%	258.0	99.1%	100.0%	100.0%
252.0	99.0%	100.0%	100.0%	246.0	98.7%	99.9%	100.0%
240.0	98.5%	99.9%	100.0%	234.0	98.5%	99.9%	100.0%
228.0	98.4%	99.8%	100.0%	222.0	98.4%	99.8%	100.0%
216.0	98.3%	99.7%	100.0%	210.0	98.2%	99.7%	100.0%
204.0	98.1%	99.6%	100.0%	198.0	98.0%	99.6%	100.0%
192.0	97.9%	99.5%	100.0%	186.0	97.8%	99.5%	100.0%
180.0	97.7%	99.4%	100.0%	174.0	97.6%	99.3%	100.0%
168.0	97.5%	99.2%	100.0%	162.0	97.3%	99.1%	100.0%
156.0	97.2%	99.0%	100.0%	150.0	97.0%	98.9%	100.0%
144.0	96.8%	98.8%	100.0%	138.0	96.5%	98.7%	100.0%
132.0	96.3%	98.5%	100.0%	126.0	95.8%	98.3%	100.0%
120.0	95.3%	98.1%	100.0%	114.0	94.5%	97.9%	100.0%
108.0	93.7%	97.7%	100.0%	102.0	92.0%	97.1%	100.0%
96.0	90.3%	96.5%	100.0%	90.0	88.2%	95.5%	100.0%
84.0	86.0%	94.6%	99.9%	78.0	82.1%	93.4%	99.9%
72.0	78.2%	92.3%	99.8%	66.0	74.3%	89.4%	99.8%
60.0	70.4%	86.5%	99.7%	54.0	65.3%	83.1%	99.7%
48.0	60.2%	79.7%	99.6%	42.0	54.4%	75.0%	99.5%
36.0	48.6%	70.4%	99.3%	30.0	40.6%	64.0%	99.1%
24.0	32.6%	57.7%	98.9%	18.0	23.7%	46.3%	97.7%
12.0	14.8%	34.9%	96.5%	6.0	7.4%	17.5%	48.2%

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

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

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

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



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

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

Claim Period	Months of Development:																			
	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1995/06																				
1996/07																				
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																				

II. Limited Paid Loss Development

Claim Period	Months of Development:																			
	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 1995/06																				
1996/07																				
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																				
Average All	2.108	1.437	1.238	1.173	1.107	1.091	1.051	1.045	1.039	1.012	1.012	1.010	1.014	1.007	1.005	1.008	1.002	1.006	1.015	
Wtd 3	2.053	1.432	1.221	1.166	1.127	1.114	1.045	1.034	1.022	1.010	1.007	1.010	1.007	1.007	1.005	1.007	1.000	1.006	1.015	
Last 3	2.080	1.439	1.222	1.166	1.127	1.114	1.043	1.036	1.022	1.010	1.007	1.010	1.007	1.006	1.005	1.008	1.000	1.006	1.015	
Last 5	2.091	1.422	1.227	1.155	1.108	1.080	1.039	1.035	1.026	1.015	1.011	1.010	1.009	1.009	1.005	1.008	1.000	1.006	1.015	
x-Hilow																				
Similar	2.353	1.326	1.164	1.096	1.057	1.036	1.023	1.014	1.010	1.008	1.005	1.004	1.002	1.002	1.002	1.002	1.000	1.001	1.001	
Previous	2.250	1.480	1.250	1.175	1.100	1.090	1.050	1.040	1.015	1.010	1.005	1.003	1.002	1.002	1.002	1.001	1.000	1.000	1.015	
Selected	2.200	1.490	1.240	1.170	1.110	1.100	1.050	1.038	1.017	1.010	1.005	1.004	1.002	1.002	1.002	1.002	1.001	1.001	1.015	
Cumulative	6.751	3.069	2.060	1.661	1.420	1.279	1.163	1.107	1.067	1.049	1.039	1.033	1.029	1.023	1.021	1.019	1.017	1.016	1.015	
Percent	14.8%	32.6%	48.6%	60.2%	70.4%	78.2%	86.0%	90.3%	93.7%	95.3%	96.3%	96.8%	97.2%	97.7%	97.9%	98.1%	98.3%	98.4%	98.5%	

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	
Claim Period																					
to 1995/06																					
1996/07																					
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																					

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 1995/06																					
1996/07																					
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																					

Average All
Wtd 3
Last 3
Last 5
x-Hilow

1.026 1.016 1.003 1.003 1.002 1.001 1.001 1.001 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

1.025 1.011 1.006 1.007 1.005 1.001 1.001 1.001 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.001 1.000 1.000 1.000 1.000

Data was provided by the County.



COOK COUNTY, ILLINOIS
 WORKERS' COMPENSATION - GENERAL GOVERNMENT (INDEMNITY)
 Historical Ratio of Limited Paid Losses and Limited Reported Incurred Losses

Claim Period	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
10/1995/06																					
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																					
Average																					
All	50.6%	63.7%	72.7%	77.5%	82.0%	83.6%	86.7%	86.9%	88.6%	90.1%	91.3%	92.2%	94.4%	92.7%	95.0%	98.5%	98.2%	97.7%	98.5%	98.1%	
Last 3	45.0%	54.6%	72.1%	77.6%	83.8%	83.1%	89.7%	92.3%	93.6%	94.9%	92.8%	91.5%	93.4%	91.0%	96.1%	98.4%	98.2%	97.7%	98.4%	98.1%	
Last 5	53.0%	68.6%	81.4%	87.5%	89.8%	89.8%	92.6%	93.5%	94.1%	96.9%	95.8%	94.7%	96.9%	94.9%	98.0%	98.5%	98.2%	97.7%	98.5%	98.1%	
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 11/30/15 (2)	Limited Paid Losses 11/30/15 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1995/96	240.0	\$55,421,100	98.5%	\$56,252,416
1996/97	228.0	3,820,588	98.4%	3,881,775
1997/98	216.0	3,697,580	98.3%	3,760,554
1998/99	204.0	4,262,977	98.1%	4,344,251
1999/00	192.0	5,935,923	97.9%	6,061,190
2000/01	180.0	7,399,156	97.7%	7,570,413
2001/02	168.0	7,539,316	97.5%	7,729,244
2002/03	156.0	7,682,344	97.2%	7,907,379
2003/04	144.0	7,406,152	96.8%	7,653,589
2004/05	132.0	7,443,121	96.3%	7,730,252
2005/06	120.0	8,102,654	95.3%	8,499,380
2006/07	108.0	9,723,979	93.7%	10,373,491
2007/08	96.0	10,401,421	90.3%	11,517,837
2008/09	84.0	11,196,353	86.0%	13,017,996
2009/10	72.0	9,734,099	78.2%	12,449,618
2010/11	60.0	7,718,648	70.4%	10,957,827
2011/12	48.0	7,159,582	60.2%	11,892,050
2012/13	36.0	5,291,875	48.6%	10,899,343
2013/14	24.0	4,357,780	32.6%	13,373,414
2014/15	12.0	2,264,779	14.8%	15,290,636

(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 11/30/15 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1995/96	240.0	\$56,476,951	99.9%	\$56,533,428
1996/97	228.0	3,855,588	99.8%	3,863,303
1997/98	216.0	3,843,954	99.7%	3,855,497
1998/99	204.0	4,262,977	99.6%	4,280,055
1999/00	192.0	6,125,037	99.5%	6,155,724
2000/01	180.0	8,085,940	99.4%	8,134,577
2001/02	168.0	8,751,842	99.2%	8,822,093
2002/03	156.0	8,071,214	99.0%	8,152,274
2003/04	144.0	8,501,611	98.8%	8,604,168
2004/05	132.0	8,045,238	98.5%	8,166,716
2005/06	120.0	8,374,118	98.1%	8,534,564
2006/07	108.0	10,794,333	97.7%	11,045,154
2007/08	96.0	11,696,308	96.5%	12,123,674
2008/09	84.0	13,048,252	94.6%	13,795,516
2009/10	72.0	12,760,289	92.3%	13,828,338
2010/11	60.0	9,585,044	86.5%	11,083,273
2011/12	48.0	11,327,995	79.7%	14,212,048
2012/13	36.0	8,606,099	70.4%	12,233,194
2013/14	24.0	8,444,185	57.7%	14,643,710
2014/15	12.0	5,499,217	34.9%	15,735,415

(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 11/30/15 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/15 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/15 (6)	Limited Case Reserves 11/30/15 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1995/96	240.0	98.5%	99.9%	93.2%	\$55,421,100	\$1,055,851	\$56,553,500
1996/97	228.0	98.4%	99.8%	87.3%	3,820,588	35,000	3,860,666
1997/98	216.0	98.3%	99.7%	82.1%	3,697,580	146,374	3,875,822
1998/99	204.0	98.1%	99.6%	78.7%	4,262,977	0	4,262,977
1999/00	192.0	97.9%	99.5%	75.9%	5,935,923	189,115	6,185,153
2000/01	180.0	97.7%	99.4%	73.6%	7,399,156	686,784	8,332,673
2001/02	168.0	97.5%	99.2%	67.6%	7,539,316	1,212,526	9,333,164
2002/03	156.0	97.2%	99.0%	65.1%	7,682,344	388,870	8,280,045
2003/04	144.0	96.8%	98.8%	63.1%	7,406,152	1,095,459	9,141,353
2004/05	132.0	96.3%	98.5%	60.0%	7,443,121	602,116	8,447,426
2005/06	120.0	95.3%	98.1%	59.7%	8,102,654	271,464	8,557,184
2006/07	108.0	93.7%	97.7%	63.7%	9,723,979	1,070,353	11,403,456
2007/08	96.0	90.3%	96.5%	63.6%	10,401,421	1,294,888	12,436,359
2008/09	84.0	86.0%	94.6%	61.3%	11,196,353	1,851,899	14,217,861
2009/10	72.0	78.2%	92.3%	64.6%	9,734,099	3,026,190	14,419,320
2010/11	60.0	70.4%	86.5%	54.3%	7,718,648	1,866,397	11,157,731
2011/12	48.0	60.2%	79.7%	49.0%	7,159,582	4,168,413	15,665,435
2012/13	36.0	48.6%	70.4%	42.4%	5,291,875	3,314,224	13,114,072
2013/14	24.0	32.6%	57.7%	37.2%	4,357,780	4,086,406	15,342,470
2014/15	12.0	14.8%	34.9%	23.6%	2,264,779	3,234,438	15,948,239

(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 2014/15

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 1995/96	\$56,252,416	\$56,533,428	\$56,553,500	\$56,582,536
1996/97	3,881,775	3,863,303	3,860,666	3,860,666
1997/98	3,760,554	3,855,497	3,875,822	3,875,822
1998/99	4,344,251	4,280,055	4,262,977	4,262,977
1999/00	6,061,190	6,155,724	6,185,153	6,185,153
2000/01	7,570,413	8,134,577	8,332,673	8,332,673
2001/02	7,729,244	8,822,093	9,333,164	9,333,164
2002/03	7,907,379	8,152,274	8,280,045	8,280,045
2003/04	7,653,589	8,604,168	9,141,353	9,141,353
2004/05	7,730,252	8,166,716	8,447,426	8,447,426
2005/06	8,499,380	8,534,564	8,557,184	8,557,184
2006/07	10,373,491	11,045,154	11,403,456	11,403,456
2007/08	11,517,837	12,123,674	12,436,359	12,373,822
2008/09	13,017,996	13,795,516	14,217,861	14,091,157
2009/10	12,449,618	13,828,338	14,419,320	14,182,927
2010/11	10,957,827	11,083,273	11,157,731	11,107,957
2011/12	11,892,050	14,212,048	15,665,435	14,561,403
2012/13	10,899,343	12,233,194	13,114,072	12,230,687
2013/14	13,373,414	14,643,710	15,342,470	14,529,403
2014/15	15,290,636	15,735,415	15,948,239	15,667,741
Total	\$231,162,652	\$243,802,721	\$250,534,907	\$247,007,554

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

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

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

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



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

Exhibit WC-Gov-Indem-7

Bornhuetter - Ferguson Analysis

I. A-priori Loss Rate

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Payroll (000) (3)	Limited Loss Rate per \$100 of Payroll (2)/(3)/10 (4)	Loss Rate Trend (2015/16 = 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)
2005/06	\$8,557,184	\$826,479	\$1.04	1.164	\$1.20	\$1.27
2006/07	11,403,456	859,906	1.33	1.142	1.51	1.30
2007/08	12,373,822	914,260	1.35	1.116	1.51	1.33
2008/09	14,091,157	942,707	1.49	1.093	1.63	1.36
2009/10	14,182,927	998,250	1.42	1.070	1.52	1.39
2010/11	11,107,957	928,082	1.20	1.061	1.27	1.40
2011/12	14,561,403	899,082	1.62	1.065	1.72	1.39
2012/13	12,230,687	949,338	1.29	1.047	1.35	1.42
2013/14	14,529,403	988,081	1.47	1.030	1.52	1.44
2014/15	15,667,741	998,567	1.57	1.015	1.59	1.46

(7) Projected 2015/16 a-priori loss rate per \$100 of Payroll \$1.48

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/15 (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)
2010/11	\$7,718,648	70.4%	\$1.40	\$928,082	\$3,837,166	\$11,555,813
2011/12	7,159,582	60.2%	1.39	899,082	4,985,633	12,145,215
2012/13	5,291,875	48.6%	1.42	949,338	6,916,560	12,208,434
2013/14	4,357,780	32.6%	1.44	988,081	9,589,977	13,947,756
2014/15	2,264,779	14.8%	1.46	998,567	12,432,204	14,696,983

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (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)
2010/11	\$9,585,044	86.5%	\$1.40	\$928,082	\$1,754,729	\$11,339,773
2011/12	11,327,995	79.7%	1.39	899,082	2,542,354	13,870,348
2012/13	8,606,099	70.4%	1.42	949,338	3,986,050	12,592,148
2013/14	8,444,185	57.7%	1.44	988,081	6,022,417	14,466,602
2014/15	5,499,217	34.9%	1.46	998,567	9,493,532	14,992,749

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 11/30/15 (2)	Reported Claims 11/30/15 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2005/06	120.0	1,159	100.0%	1,159	\$826,479	1.40
2006/07	108.0	902	100.0%	902	859,906	1.05
2007/08	96.0	777	100.0%	777	914,260	0.85
2008/09	84.0	767	99.9%	768	942,707	0.81
2009/10	72.0	862	99.8%	864	998,250	0.87
2010/11	60.0	788	99.7%	790	928,082	0.85
2011/12	48.0	783	99.6%	786	899,082	0.87
2012/13	36.0	716	99.3%	721	949,338	0.76
2013/14	24.0	752	98.9%	760	988,081	0.77
2014/15	12.0	762	96.5%	790	998,567	0.79

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2015/16 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2015/16 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2005/06	\$8,557,184	1,159	\$7,383	1.564	\$11,545	\$12,731	\$14,754,742
2006/07	11,403,456	902	12,642	1.490	18,834	13,362	12,052,721
2007/08	12,373,822	777	15,925	1.414	22,520	14,077	10,937,557
2008/09	14,091,157	768	18,348	1.344	24,662	14,810	11,373,756
2009/10	14,182,927	864	16,415	1.277	20,969	15,584	13,464,443
2010/11	11,107,957	790	14,061	1.230	17,288	16,191	12,790,554
2011/12	14,561,403	786	18,526	1.198	22,197	16,614	13,058,652
2012/13	12,230,687	721	16,964	1.145	19,417	17,391	12,538,941
2013/14	14,529,403	760	19,118	1.093	20,897	18,211	13,840,278
2014/15	15,667,741	790	19,833	1.045	20,734	19,041	15,042,323
						(7) Projected 2015/16 average claim severity \$19,906	

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

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

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

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

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

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

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



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

Exhibit WC-Gov-Indem-9

Projected Ultimate Limited Losses to 2014/15

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 1995/96	\$56,252,416	\$56,533,428	\$56,553,500				\$56,355,492	\$56,625,000
1996/97	3,881,775	3,863,303	3,860,666				3,859,082	3,861,000
1997/98	3,760,554	3,855,497	3,875,822				3,863,424	3,876,000
1998/99	4,344,251	4,280,055	4,262,977				4,262,507	4,262,977
1999/00	6,061,190	6,155,724	6,185,153				6,145,000	6,175,000
2000/01	7,570,413	8,134,577	8,332,673				7,961,146	8,150,000
2001/02	7,729,244	8,822,093	9,333,164				8,874,364	8,950,000
2002/03	7,907,379	8,152,274	8,280,045				8,372,000	8,175,000
2003/04	7,653,589	8,604,168	9,141,353				8,733,000	8,750,000
2004/05	7,730,252	8,166,716	8,447,426				7,800,000	8,200,000
2005/06	8,499,380	8,534,564	8,557,184				8,474,000	8,535,000
2006/07	10,373,491	11,045,154	11,403,456				10,984,000	11,150,000
2007/08	11,517,837	12,123,674	12,436,359				11,813,000	12,000,000
2008/09	13,017,996	13,795,516	14,217,861				13,980,000	14,000,000
2009/10	12,449,618	13,828,338	14,419,320				13,612,000	13,750,000
2010/11	10,957,827	11,083,273	11,157,731	11,555,813	11,339,773	12,790,554	11,315,000	11,100,000
2011/12	11,892,050	14,212,048	15,665,435	12,145,215	13,870,348	13,058,652	13,793,000	14,000,000
2012/13	10,899,343	12,233,194	13,114,072	12,208,434	12,592,148	12,538,941	12,981,000	12,350,000
2013/14	13,373,414	14,643,710	15,342,470	13,947,756	14,466,602	13,840,278	15,000,000	14,500,000
2014/15	15,290,636	15,735,415	15,948,239	14,696,983	14,992,749	15,042,323	13,991,000	14,500,000
Sum	\$231,162,652	\$243,802,721	\$250,534,907				\$242,169,016	\$242,909,977
2010/11 - 2014/15	62,413,269	67,907,640	71,227,947	64,554,202	67,261,622	67,270,746	67,080,000	66,450,000
to 2009/10	168,749,383	175,895,081	179,306,960				175,089,016	176,459,977
						Change		
						All years		\$740,962
						2010/11 - 2014/15		-630,000
						to 2009/10		1,370,962

(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 from prior actuarial study.

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



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

Exhibit WC-Gov-Indem-10

Projected Ultimate Limited Losses for 2015/16 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 (2015/16 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2005/06	\$8,535,000	\$826,479	\$1.03	1.164	\$1.20
2006/07	11,150,000	859,906	1.30	1.142	1.48
2007/08	12,000,000	914,260	1.31	1.116	1.47
2008/09	14,000,000	942,707	1.49	1.093	1.62
2009/10	13,750,000	998,250	1.38	1.070	1.47
2010/11	11,100,000	928,082	1.20	1.061	1.27
2011/12	14,000,000	899,082	1.56	1.065	1.66
2012/13	12,350,000	949,338	1.30	1.047	1.36
2013/14	14,500,000	988,081	1.47	1.030	1.51
2014/15	14,500,000	998,567	1.45	1.015	1.47
Total	\$125,885,000	\$9,304,752	\$1.35		\$1.45

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)
2015/16	\$1.45	\$1,054,960	\$15,317,000	0.94	\$1.36	\$14,342,000
2016/17	1.47	1,054,960	15,546,000	0.94	1.38	14,557,000
2017/18	1.50	1,054,960	15,779,000	0.94	1.40	14,776,000

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

(3) was provided by the County.

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

(7) 2015/16 is based on (6) and actuarial judgment.
Other period(s) based on 2015/16 plus the trend in Exhibit WC-Gov-Indem-15.

(8) to 2015/16 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.68% 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, 2015

Claim Period (1)	Limited Paid Losses 11/30/15 (2)	Limited Case Reserves 11/30/15 (3)	Limited Reported Incurred Losses 11/30/15 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/15 (5)-(4) (6)	Estimated Outstanding Losses 11/30/15 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/15 (7)X(8) (9)
to 1995/96	\$55,421,100	\$1,055,851	\$56,476,951	\$56,625,000	\$148,049	\$1,203,900	0.96	\$1,154,722
1996/97	3,820,588	35,000	3,855,588	3,861,000	5,412	40,412	0.95	38,246
1997/98	3,697,580	146,374	3,843,954	3,876,000	32,046	178,420	0.93	166,723
1998/99	4,262,977	0	4,262,977	4,262,977	0	0	0.93	0
1999/00	5,935,923	189,115	6,125,037	6,175,000	49,963	239,078	0.92	219,772
2000/01	7,399,156	686,784	8,085,940	8,150,000	64,060	750,844	0.91	684,601
2001/02	7,539,316	1,212,526	8,751,842	8,950,000	198,159	1,410,685	0.90	1,275,799
2002/03	7,682,344	388,870	8,071,214	8,175,000	103,786	492,656	0.90	445,170
2003/04	7,406,152	1,095,459	8,501,611	8,750,000	248,389	1,343,848	0.90	1,211,047
2004/05	7,443,121	602,116	8,045,238	8,200,000	154,762	756,878	0.90	681,271
2005/06	8,102,654	271,464	8,374,118	8,535,000	160,882	432,346	0.91	392,214
2006/07	9,723,979	1,070,353	10,794,333	11,150,000	355,667	1,426,020	0.92	1,308,638
2007/08	10,401,421	1,294,888	11,696,308	12,000,000	303,692	1,598,580	0.93	1,493,447
2008/09	11,196,353	1,851,899	13,048,252	14,000,000	951,748	2,803,647	0.94	2,638,989
2009/10	9,734,099	3,026,190	12,760,289	13,750,000	989,711	4,015,901	0.95	3,812,764
2010/11	7,718,648	1,866,397	9,585,044	11,100,000	1,514,956	3,381,353	0.95	3,208,728
2011/12	7,159,582	4,168,413	11,327,995	14,000,000	2,672,005	6,840,418	0.95	6,486,861
2012/13	5,291,875	3,314,224	8,606,099	12,350,000	3,743,901	7,058,125	0.95	6,677,215
2013/14	4,357,780	4,086,406	8,444,185	14,500,000	6,055,815	10,142,221	0.94	9,583,689
2014/15	2,264,779	3,234,438	5,499,217	14,500,000	9,000,783	12,235,221	0.94	11,529,742
Total	\$186,559,426	\$29,596,767	\$216,156,193	\$242,909,977	\$26,753,786	\$56,350,553		\$53,009,638

(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 1.68% interest rate and the payout pattern in Exhibit WC-Gov-Indem-2.



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

Exhibit WC-Gov-Indem-12

Projected Losses Paid December 1, 2015 to November 30, 2016

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Months of Development 11/30/16 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/15 to 11/30/16 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/15 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/16 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/16 (9)X(10) (11)
to 1995/96	240.0	98.5%	252.0	99.0%	18.0% *	\$1,203,900	\$216,702	\$987,198	0.96	\$948,186
1996/97	228.0	98.4%	240.0	98.5%	6.2% *	40,412	2,523	37,889	0.96	36,341
1997/98	216.0	98.3%	228.0	98.4%	5.9% *	178,420	10,476	167,944	0.95	158,944
1998/99	204.0	98.1%	216.0	98.3%	10.5% *	0	0	0	0.93	0
1999/00	192.0	97.9%	204.0	98.1%	9.5% *	239,078	22,658	216,420	0.93	200,578
2000/01	180.0	97.7%	192.0	97.9%	8.6% *	750,844	64,881	685,963	0.92	630,570
2001/02	168.0	97.5%	180.0	97.7%	7.9% *	1,410,685	111,996	1,298,689	0.91	1,184,113
2002/03	156.0	97.2%	168.0	97.5%	13.7% *	492,656	67,274	425,382	0.90	384,708
2003/04	144.0	96.8%	156.0	97.2%	12.0% *	1,343,848	160,893	1,182,955	0.90	1,068,933
2004/05	132.0	96.3%	144.0	96.8%	13.0% *	756,878	98,100	658,778	0.90	593,676
2005/06	120.0	95.3%	132.0	96.3%	18.0% *	432,346	77,822	354,524	0.90	319,110
2006/07	108.0	93.7%	120.0	95.3%	18.0% *	1,426,020	256,684	1,169,336	0.91	1,060,794
2007/08	96.0	90.3%	108.0	93.7%	18.0% *	1,598,580	287,744	1,310,836	0.92	1,202,936
2008/09	84.0	86.0%	96.0	90.3%	18.0% *	2,803,647	504,656	2,298,991	0.93	2,147,794
2009/10	72.0	78.2%	84.0	86.0%	18.0% *	4,015,901	722,862	3,293,039	0.94	3,099,639
2010/11	60.0	70.4%	72.0	78.2%	18.0% *	3,381,353	608,644	2,772,709	0.95	2,632,457
2011/12	48.0	60.2%	60.0	70.4%	18.0% *	6,840,418	1,231,275	5,609,143	0.95	5,322,784
2012/13	36.0	48.6%	48.0	60.2%	18.0% *	7,058,125	1,270,463	5,787,662	0.95	5,488,518
2013/14	24.0	32.6%	36.0	48.6%	18.0% *	10,142,221	1,825,600	8,316,621	0.95	7,867,794
2014/15	12.0	14.8%	24.0	32.6%	18.0% *	12,235,221	2,202,340	10,032,881	0.94	9,480,370
2015/16	0.0	0.0%	12.0	14.8%	14.8% *	15,317,000	2,268,684	13,048,316	0.94	12,295,954
Total						\$71,667,553	\$12,012,277	\$59,655,276		\$56,124,199

* - Limited to a maximum of 18% per actuarial judgment.

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

(7) to 2014/15 is from Exhibit WC-Gov-Indem-11. The amount for 2015/16 is from Exhibit WC-Gov-Indem-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit WC-Gov-Indem-2.



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

Exhibit WC-Gov-Indem-13

Projected Losses Paid December 1, 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 1995/96	252.0	99.0%	264.0	99.3%	18.0% *	\$987,198	\$177,696	\$809,502	0.96	\$778,887
1996/97	240.0	98.5%	252.0	99.0%	18.0% *	37,889	6,820	31,069	0.96	29,841
1997/98	228.0	98.4%	240.0	98.5%	6.2% *	167,944	10,487	157,457	0.96	151,025
1998/99	216.0	98.3%	228.0	98.4%	5.9% *	0	0	0	0.95	0
1999/00	204.0	98.1%	216.0	98.3%	10.5% *	216,420	22,703	193,717	0.93	181,017
2000/01	192.0	97.9%	204.0	98.1%	9.5% *	685,963	65,010	620,953	0.93	575,500
2001/02	180.0	97.7%	192.0	97.9%	8.6% *	1,298,689	112,220	1,186,469	0.92	1,090,659
2002/03	168.0	97.5%	180.0	97.7%	7.9% *	425,382	33,772	391,610	0.91	357,060
2003/04	156.0	97.2%	168.0	97.5%	13.7% *	1,182,955	161,537	1,021,418	0.90	923,753
2004/05	144.0	96.8%	156.0	97.2%	12.0% *	658,778	78,873	579,905	0.90	524,009
2005/06	132.0	96.3%	144.0	96.8%	13.0% *	354,524	45,951	308,573	0.90	278,079
2006/07	120.0	95.3%	132.0	96.3%	18.0% *	1,169,336	210,480	958,856	0.90	863,073
2007/08	108.0	93.7%	120.0	95.3%	18.0% *	1,310,836	235,950	1,074,886	0.91	975,111
2008/09	96.0	90.3%	108.0	93.7%	18.0% *	2,298,991	413,818	1,885,173	0.92	1,729,997
2009/10	84.0	86.0%	96.0	90.3%	18.0% *	3,293,039	592,747	2,700,292	0.93	2,522,703
2010/11	72.0	78.2%	84.0	86.0%	18.0% *	2,772,709	499,088	2,273,621	0.94	2,140,091
2011/12	60.0	70.4%	72.0	78.2%	18.0% *	5,609,143	1,009,646	4,599,497	0.95	4,366,840
2012/13	48.0	60.2%	60.0	70.4%	18.0% *	5,787,662	1,041,779	4,745,883	0.95	4,503,596
2013/14	36.0	48.6%	48.0	60.2%	18.0% *	8,316,621	1,496,992	6,819,629	0.95	6,467,147
2014/15	24.0	32.6%	36.0	48.6%	18.0% *	10,032,881	1,805,919	8,226,962	0.95	7,782,973
2015/16	12.0	14.8%	24.0	32.6%	18.0% *	13,048,316	2,348,697	10,699,619	0.94	10,110,391
2016/17	0.0	0.0%	12.0	14.8%	14.8% *	15,546,000	2,302,602	13,243,398	0.94	12,479,788
Total						\$75,201,276	\$12,672,787	\$62,528,489		\$58,831,540

* - Limited to a maximum of 18% per actuarial judgment.

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

(7) to 2015/16 is from Exhibit WC-Gov-Indem-12, (9). The amount for 2016/17 is from Exhibit WC-Gov-Indem-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit WC-Gov-Indem-2.



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

Exhibit WC-Gov-Indem-14

Projected Losses Paid December 1, 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 1995/96	264.0	99.3%	276.0	99.5%	18.0% *	\$809,502	\$145,710	\$663,792	0.96	\$640,111
1996/97	252.0	99.0%	264.0	99.3%	18.0% *	31,069	5,592	25,477	0.96	24,513
1997/98	240.0	98.5%	252.0	99.0%	18.0% *	157,457	28,342	129,115	0.96	124,013
1998/99	228.0	98.4%	240.0	98.5%	6.2% *	0	0	0	0.96	0
1999/00	216.0	98.3%	228.0	98.4%	5.9% *	193,717	11,374	182,343	0.95	172,571
2000/01	204.0	98.1%	216.0	98.3%	10.5% *	620,953	65,140	555,813	0.93	519,374
2001/02	192.0	97.9%	204.0	98.1%	9.5% *	1,186,469	112,444	1,074,025	0.93	995,408
2002/03	180.0	97.7%	192.0	97.9%	8.6% *	391,610	33,839	357,771	0.92	328,880
2003/04	168.0	97.5%	180.0	97.7%	7.9% *	1,021,418	81,092	940,326	0.91	857,366
2004/05	156.0	97.2%	168.0	97.5%	13.7% *	579,905	79,188	500,717	0.90	452,840
2005/06	144.0	96.8%	156.0	97.2%	12.0% *	308,573	36,944	271,629	0.90	245,447
2006/07	132.0	96.3%	144.0	96.8%	13.0% *	958,856	124,279	834,577	0.90	752,103
2007/08	120.0	95.3%	132.0	96.3%	18.0% *	1,074,886	193,479	881,407	0.90	793,361
2008/09	108.0	93.7%	120.0	95.3%	18.0% *	1,885,173	339,331	1,545,842	0.91	1,402,352
2009/10	96.0	90.3%	108.0	93.7%	18.0% *	2,700,292	486,053	2,214,239	0.92	2,031,976
2010/11	84.0	86.0%	96.0	90.3%	18.0% *	2,273,621	409,252	1,864,369	0.93	1,741,756
2011/12	72.0	78.2%	84.0	86.0%	18.0% *	4,599,497	827,909	3,771,588	0.94	3,550,083
2012/13	60.0	70.4%	72.0	78.2%	18.0% *	4,745,883	854,259	3,891,624	0.95	3,694,774
2013/14	48.0	60.2%	60.0	70.4%	18.0% *	6,819,629	1,227,533	5,592,096	0.95	5,306,608
2014/15	36.0	48.6%	48.0	60.2%	18.0% *	8,226,962	1,480,853	6,746,109	0.95	6,397,427
2015/16	24.0	32.6%	36.0	48.6%	18.0% *	10,699,619	1,925,931	8,773,688	0.95	8,300,194
2016/17	12.0	14.8%	24.0	32.6%	18.0% *	13,243,398	2,383,812	10,859,586	0.94	10,261,548
2017/18	0.0	0.0%	12.0	14.8%	14.8% *	15,779,000	2,337,113	13,441,887	0.94	12,666,832
Total						\$78,307,489	\$13,189,469	\$65,118,020		\$61,259,537

* - Limited to a maximum of 18% per actuarial judgment.

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

(7) to 2016/17 is from Exhibit WC-Gov-Indem-13. (9). The amount for 2017/18 is from Exhibit WC-Gov-Indem-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit WC-Gov-Indem-2.



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

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 (2015/16 = 1.000) (2)	Residual Trend (2015/16 = 1.000) (3)	Retention Index (2015/16 = 1.000) (4)	Loss Rate Trend (2015/16 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2015/16 = 1.000) (6)	Severity Trend (2015/16 = 1.000) (5)X(6) (7)
2005/06	1.003	1.161	1.000	1.164	1.344	1.564
2006/07	0.999	1.143	1.000	1.142	1.305	1.490
2007/08	0.991	1.126	1.000	1.116	1.267	1.414
2008/09	0.985	1.110	1.000	1.093	1.230	1.344
2009/10	0.978	1.093	1.000	1.070	1.194	1.277
2010/11	0.984	1.077	1.000	1.061	1.159	1.230
2011/12	1.003	1.061	1.000	1.065	1.126	1.198
2012/13	1.002	1.046	1.000	1.047	1.093	1.145
2013/14	1.000	1.030	1.000	1.030	1.061	1.093
2014/15	1.000	1.015	1.000	1.015	1.030	1.045
2015/16	1.000	1.000	1.000	1.000	1.000	1.000
2016/17	1.000	0.985	1.000	0.985	0.971	0.957

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

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 11/30/15 (5)	Unlimited Case Reserves 11/30/15 (6)	Unlimited Reported Incurred Losses 11/30/15 (7)
950468	2/28/1995	to 1995/96	Unlimited	\$635,536	\$416,328	\$1,051,864
20020274	1/24/2002	2001/02	9,500,000	298,524	786,326	1,084,850
20071070	8/1/2007	2006/07	Unlimited	1,452,197	0	1,452,197

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.



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

Exhibit WC-Gov-Indem-17

Size of Loss Distribution

I. Reported Claim Count

Layer (1)	Prior (2)	2010/11 (3)	2011/12 (4)	2012/13 (5)	2013/14 (6)	2014/15 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	16,010	357	191	98	40	139	16,835		
0.01 - 5,000	6,734	223	400	450	508	435	8,750	8,750	63.2%
5,000 - 10,000	1,221	36	42	24	35	22	1,380	10,130	73.2%
10,000 - 25,000	1,364	70	44	61	58	82	1,679	11,809	85.3%
25,000 - 50,000	761	44	48	28	56	65	1,002	12,811	92.6%
50,000 - 100,000	444	37	23	30	41	18	593	13,404	96.9%
100,000 - 250,000	236	18	27	22	12	1	316	13,720	99.2%
250,000 - 500,000	79	3	8	3	2	0	95	13,815	99.8%
500,000 - 750,000	16	0	0	0	0	0	16	13,831	100.0%
750,000 - 1,000,000	3	0	0	0	0	0	3	13,834	100.0%
Over 1,000,000	3	0	0	0	0	0	3	13,837	100.0%
Total	26,871	788	783	716	752	762	30,672	13,837	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2010/11 (3)	2011/12 (4)	2012/13 (5)	2013/14 (6)	2014/15 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
0.01 - 5,000	6,664,602	230,650	208,366	161,037	201,808	201,732	7,668,195	7,668,195	3.5%
5,000 - 10,000	8,999,061	269,884	285,863	174,680	253,211	149,727	10,132,427	17,800,622	8.2%
10,000 - 25,000	22,078,652	1,176,301	773,971	1,012,611	930,513	1,493,595	27,465,643	45,266,265	20.9%
25,000 - 50,000	26,573,481	1,584,901	1,787,862	1,025,055	1,981,642	2,362,477	35,315,417	80,581,682	37.3%
50,000 - 100,000	30,387,602	2,654,819	1,546,420	2,147,285	2,750,228	1,189,981	40,676,335	121,258,017	56.1%
100,000 - 250,000	36,348,092	2,760,041	4,287,990	3,270,606	1,803,662	101,705	48,572,096	169,830,113	78.6%
250,000 - 500,000	26,303,775	908,448	2,437,523	814,825	523,121	0	30,987,692	200,817,805	92.9%
500,000 - 750,000	9,373,828	0	0	0	0	0	9,373,828	210,191,633	97.2%
750,000 - 1,000,000	2,375,649	0	0	0	0	0	2,375,649	212,567,282	98.3%
Over 1,000,000	3,588,911	0	0	0	0	0	3,588,911	216,156,193	100.0%
Total	\$172,693,652	\$9,585,044	\$11,327,995	\$8,606,099	\$8,444,185	\$5,499,217	\$216,156,193	\$216,156,193	

Amounts are gross of excess insurance.

Data was provided by the County.



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

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

Data Summary as of November 30, 2015
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Payroll (000) (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Limited Paid Losses 11/30/15 (8)	Limited Case Reserves 11/30/15 (9)	Limited Reported Incurred Losses 11/30/15 (10)
to 1995/96	See Note	None	240.0	Not Provided	11,630	13	\$22,397,167	\$171,528	\$22,568,694
1996/97	Unlimited	None	228.0	Not Provided	1,237	1	1,718,758	0	1,718,758
1997/98	Unlimited	None	216.0	Not Provided	1,181	3	1,779,612	10,596	1,790,209
1998/99	Unlimited	None	204.0	Not Provided	1,120	0	2,504,395	0	2,504,395
1999/00	Unlimited	None	192.0	Not Provided	1,133	5	2,885,859	65,024	2,950,882
2000/01	9,500,000	None	180.0	719,952	1,183	6	4,886,356	130,181	5,016,537
2001/02	9,500,000	None	168.0	752,457	1,161	6	4,543,023	3,904	4,546,927
2002/03	9,500,000	None	156.0	779,098	1,223	5	4,546,835	0	4,546,835
2003/04	Unlimited	None	144.0	810,182	1,218	10	4,162,192	190,234	4,352,426
2004/05	Unlimited	None	132.0	832,363	1,318	6	12,166,652	22,312	12,188,964
2005/06	Unlimited	None	120.0	826,479	1,159	12	4,313,758	88,262	4,402,021
2006/07	Unlimited	None	108.0	859,906	902	19	5,327,216	141,982	5,469,199
2007/08	Unlimited	None	96.0	914,260	777	33	10,417,763	243,916	10,661,679
2008/09	Unlimited	None	84.0	942,707	767	37	6,385,008	605,006	6,990,014
2009/10	Unlimited	None	72.0	998,250	862	74	6,521,816	670,491	7,192,307
2010/11	Unlimited	None	60.0	928,082	788	76	4,771,144	517,332	5,288,476
2011/12	Unlimited	None	48.0	899,082	783	115	4,797,884	1,047,788	5,845,672
2012/13	Unlimited	None	36.0	949,338	716	117	4,045,405	1,568,046	5,613,451
2013/14	Unlimited	None	24.0	988,081	752	238	4,275,702	3,395,920	7,671,622
2014/15	Unlimited	None	12.0	998,567	762	496	1,801,491	6,426,478	8,227,968
Total					30,672	1,272	\$114,248,036	\$15,299,001	\$129,547,037

* 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)

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

Data Summary as of November 30, 2015
Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Payroll (000) (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Unlimited Paid Losses 11/30/15 (8)	Unlimited Case Reserves 11/30/15 (9)	Unlimited Reported Incurred Losses 11/30/15 (10)
to 1995/96	Unlimited	None	240.0	Not Provided	11,630	13	\$22,397,167	\$171,528	\$22,568,694
1996/97	Unlimited	None	228.0	Not Provided	1,237	1	1,718,758	0	1,718,758
1997/98	Unlimited	None	216.0	Not Provided	1,181	3	1,779,612	10,596	1,790,209
1998/99	Unlimited	None	204.0	Not Provided	1,120	0	2,504,395	0	2,504,395
1999/00	Unlimited	None	192.0	Not Provided	1,133	5	2,885,859	65,024	2,950,882
2000/01	Unlimited	None	180.0	719,952	1,183	6	4,886,356	130,181	5,016,537
2001/02	Unlimited	None	168.0	752,457	1,161	6	4,543,023	3,904	4,546,927
2002/03	Unlimited	None	156.0	779,098	1,223	5	4,546,835	0	4,546,835
2003/04	Unlimited	None	144.0	810,182	1,218	10	4,162,192	190,234	4,352,426
2004/05	Unlimited	None	132.0	832,363	1,318	6	12,166,652	22,312	12,188,964
2005/06	Unlimited	None	120.0	826,479	1,159	12	4,313,758	88,262	4,402,021
2006/07	Unlimited	None	108.0	859,906	902	19	5,327,216	141,982	5,469,199
2007/08	Unlimited	None	96.0	914,260	777	33	10,417,763	243,916	10,661,679
2008/09	Unlimited	None	84.0	942,707	767	37	6,385,008	605,006	6,990,014
2009/10	Unlimited	None	72.0	998,250	862	74	6,521,816	670,491	7,192,307
2010/11	Unlimited	None	60.0	928,082	788	76	4,771,144	517,332	5,288,476
2011/12	Unlimited	None	48.0	899,082	783	115	4,797,884	1,047,788	5,845,672
2012/13	Unlimited	None	36.0	949,338	716	117	4,045,405	1,568,046	5,613,451
2013/14	Unlimited	None	24.0	988,081	752	238	4,275,702	3,395,920	7,671,622
2014/15	Unlimited	None	12.0	998,567	762	496	1,801,491	6,426,478	8,227,968
Total					30,672	1,272	\$114,248,036	\$15,299,001	\$129,547,037

(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)

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)	Months of Development (5)	Percent Losses Paid (6)	Percent Losses Reported (7)	Percent Claims Reported (8)
360.0	99.9%	100.0%	100.0%	354.0	99.9%	100.0%	100.0%
348.0	99.9%	100.0%	100.0%	342.0	99.9%	100.0%	100.0%
336.0	99.8%	100.0%	100.0%	330.0	99.8%	100.0%	100.0%
324.0	99.8%	100.0%	100.0%	318.0	99.7%	100.0%	100.0%
312.0	99.7%	100.0%	100.0%	306.0	99.6%	100.0%	100.0%
300.0	99.6%	100.0%	100.0%	294.0	99.5%	100.0%	100.0%
288.0	99.4%	100.0%	100.0%	282.0	99.2%	100.0%	100.0%
276.0	99.1%	100.0%	100.0%	270.0	98.9%	100.0%	100.0%
264.0	98.7%	100.0%	100.0%	258.0	98.4%	100.0%	100.0%
252.0	98.2%	100.0%	100.0%	246.0	97.8%	100.0%	100.0%
240.0	97.4%	100.0%	100.0%	234.0	97.4%	100.0%	100.0%
228.0	97.4%	100.0%	100.0%	222.0	97.4%	100.0%	100.0%
216.0	97.4%	100.0%	100.0%	210.0	97.3%	100.0%	100.0%
204.0	97.3%	100.0%	100.0%	198.0	97.2%	100.0%	100.0%
192.0	97.2%	99.9%	100.0%	186.0	97.1%	99.9%	100.0%
180.0	97.1%	99.8%	100.0%	174.0	97.0%	99.8%	100.0%
168.0	97.0%	99.7%	100.0%	162.0	96.9%	99.7%	100.0%
156.0	96.8%	99.6%	100.0%	150.0	96.6%	99.6%	100.0%
144.0	96.5%	99.5%	100.0%	138.0	96.4%	99.5%	100.0%
132.0	96.2%	99.4%	100.0%	126.0	96.0%	99.3%	100.0%
120.0	95.7%	99.2%	100.0%	114.0	95.4%	99.1%	100.0%
108.0	95.0%	99.0%	100.0%	102.0	94.3%	98.9%	100.0%
96.0	93.7%	98.7%	100.0%	90.0	92.7%	98.6%	100.0%
84.0	91.8%	98.4%	99.9%	78.0	90.6%	97.9%	99.9%
72.0	89.4%	97.4%	99.8%	66.0	87.6%	96.6%	99.8%
60.0	85.7%	95.8%	99.7%	54.0	82.8%	94.8%	99.7%
48.0	79.9%	93.7%	99.6%	42.0	75.5%	90.3%	99.5%
36.0	71.0%	86.8%	99.3%	30.0	63.5%	80.5%	99.1%
24.0	55.9%	74.2%	98.9%	18.0	37.9%	61.3%	97.7%
12.0	20.0%	48.5%	96.5%	6.0	10.0%	24.2%	48.2%

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

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

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

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



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

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1995/06																					
1996/07																					
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																					

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 1995/06																					
1996/07																					
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																					

Average All	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	
2.634	2.634	2.634	2.634	2.634	2.634	2.634	2.634	2.634	2.634	2.634	2.634	2.634	2.634	2.634	2.634	2.634	2.634	2.634	2.634	2.634	2.634
3.016	3.016	3.016	3.016	3.016	3.016	3.016	3.016	3.016	3.016	3.016	3.016	3.016	3.016	3.016	3.016	3.016	3.016	3.016	3.016	3.016	3.016
3.654	3.654	3.654	3.654	3.654	3.654	3.654	3.654	3.654	3.654	3.654	3.654	3.654	3.654	3.654	3.654	3.654	3.654	3.654	3.654	3.654	3.654
2.873	2.873	2.873	2.873	2.873	2.873	2.873	2.873	2.873	2.873	2.873	2.873	2.873	2.873	2.873	2.873	2.873	2.873	2.873	2.873	2.873	2.873
2.326	2.326	2.326	2.326	2.326	2.326	2.326	2.326	2.326	2.326	2.326	2.326	2.326	2.326	2.326	2.326	2.326	2.326	2.326	2.326	2.326	2.326
2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725	2.725
2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800
5.007	5.007	5.007	5.007	5.007	5.007	5.007	5.007	5.007	5.007	5.007	5.007	5.007	5.007	5.007	5.007	5.007	5.007	5.007	5.007	5.007	5.007
20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%

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



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 1995/06																					
1996/07																					
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																					

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 1995/06																					
1996/07																					
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																					
Average All	1,026	1,016	1,003	1,003	1,002	1,001	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Wtd 3	1,017	1,011	1,006	1,008	1,005	1,003	1,003	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Last 3	1,017	1,011	1,006	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-Hilow	1,018	1,011	1,001	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	1,000	1,000	1,000
Similar Previous	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	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Selected Cumulative Percent	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
	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
10/1995/06																				
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																				
Average																				
All	40.9%	72.7%	81.5%	85.7%	87.3%	88.4%	87.5%	87.2%	87.2%	90.4%	93.6%	95.4%	98.0%	98.4%	98.7%	99.0%	99.6%	99.6%	99.8%	99.2%
Last 3	30.3%	68.6%	85.9%	90.7%	94.2%	95.0%	96.3%	98.7%	98.5%	98.9%	99.5%	98.4%	99.0%	98.5%	98.4%	98.7%	99.7%	99.6%	99.8%	99.6%
Last 5	37.7%	78.1%	92.5%	94.6%	96.5%	97.5%	98.9%	98.6%	98.5%	98.9%	98.9%	98.5%	99.2%	98.9%	98.7%	99.1%	99.7%	99.6%	99.8%	99.6%
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%



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

Exhibit WC-Gov-Med-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Paid Losses 11/30/15 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1995/96	240.0	\$22,397,167	97.4%	\$23,001,890
1996/97	228.0	1,718,758	97.4%	1,765,164
1997/98	216.0	1,779,612	97.4%	1,827,662
1998/99	204.0	2,504,395	97.3%	2,574,585
1999/00	192.0	2,885,859	97.2%	2,969,708
2000/01	180.0	4,886,356	97.1%	5,033,358
2001/02	168.0	4,543,023	97.0%	4,684,375
2002/03	156.0	4,546,835	96.8%	4,697,683
2003/04	144.0	4,162,192	96.5%	4,313,179
2004/05	132.0	12,166,652	96.2%	12,645,832
2005/06	120.0	4,313,758	95.7%	4,506,073
2006/07	108.0	5,327,216	95.0%	5,609,230
2007/08	96.0	10,417,763	93.7%	11,122,831
2008/09	84.0	6,385,008	91.8%	6,953,485
2009/10	72.0	6,521,816	89.4%	7,294,240
2010/11	60.0	4,771,144	85.7%	5,565,681
2011/12	48.0	4,797,884	79.9%	6,005,446
2012/13	36.0	4,045,405	71.0%	5,696,526
2013/14	24.0	4,275,702	55.9%	7,646,439
2014/15	12.0	1,801,491	20.0%	9,020,732

(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 11/30/15 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1995/96	240.0	\$22,568,694	100.0%	\$22,568,694
1996/97	228.0	1,718,758	100.0%	1,718,758
1997/98	216.0	1,790,209	100.0%	1,790,209
1998/99	204.0	2,504,395	100.0%	2,504,395
1999/00	192.0	2,950,882	99.9%	2,953,833
2000/01	180.0	5,016,537	99.8%	5,026,575
2001/02	168.0	4,546,927	99.7%	4,560,582
2002/03	156.0	4,546,835	99.6%	4,565,050
2003/04	144.0	4,352,426	99.5%	4,374,232
2004/05	132.0	12,188,964	99.4%	12,262,281
2005/06	120.0	4,402,021	99.2%	4,437,356
2006/07	108.0	5,469,199	99.0%	5,524,127
2007/08	96.0	10,661,679	98.7%	10,801,062
2008/09	84.0	6,990,014	98.4%	7,102,640
2009/10	72.0	7,192,307	97.4%	7,381,275
2010/11	60.0	5,288,476	95.8%	5,519,689
2011/12	48.0	5,845,672	93.7%	6,235,474
2012/13	36.0	5,613,451	86.8%	6,466,789
2013/14	24.0	7,671,622	74.2%	10,340,269
2014/15	12.0	8,227,968	48.5%	16,967,922

(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 11/30/15 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/15 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/15 (6)	Limited Case Reserves 11/30/15 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1995/96	240.0	97.4%	100.0%	100.0%	\$22,397,167	\$171,528	\$22,568,694
1996/97	228.0	97.4%	100.0%	100.0%	1,718,758	0	1,718,758
1997/98	216.0	97.4%	100.0%	100.0%	1,779,612	10,596	1,790,209
1998/99	204.0	97.3%	100.0%	100.0%	2,504,395	0	2,504,395
1999/00	192.0	97.2%	99.9%	96.5%	2,885,859	65,024	2,953,267
2000/01	180.0	97.1%	99.8%	93.2%	4,886,356	130,181	5,026,092
2001/02	168.0	97.0%	99.7%	90.1%	4,543,023	3,904	4,547,357
2002/03	156.0	96.8%	99.6%	87.6%	4,546,835	0	4,546,835
2003/04	144.0	96.5%	99.5%	85.8%	4,162,192	190,234	4,384,015
2004/05	132.0	96.2%	99.4%	84.2%	12,166,652	22,312	12,193,144
2005/06	120.0	95.7%	99.2%	81.3%	4,313,758	88,262	4,422,266
2006/07	108.0	95.0%	99.0%	80.2%	5,327,216	141,982	5,504,201
2007/08	96.0	93.7%	98.7%	79.6%	10,417,763	243,916	10,724,027
2008/09	84.0	91.8%	98.4%	80.6%	6,385,008	605,006	7,135,598
2009/10	72.0	89.4%	97.4%	75.8%	6,521,816	670,491	7,406,086
2010/11	60.0	85.7%	95.8%	70.7%	4,771,144	517,332	5,503,316
2011/12	48.0	79.9%	93.7%	68.9%	4,797,884	1,047,788	6,318,384
2012/13	36.0	71.0%	86.8%	54.5%	4,045,405	1,568,046	6,923,949
2013/14	24.0	55.9%	74.2%	41.5%	4,275,702	3,395,920	12,467,626
2014/15	12.0	20.0%	48.5%	35.6%	1,801,491	6,426,478	19,834,232

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

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



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

Exhibit WC-Gov-Med-6

Preliminary Projected Ultimate Limited Losses to 2014/15

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 1995/96	\$23,001,890	\$22,568,694	\$22,568,694	\$22,585,847
1996/97	1,765,164	1,718,758	1,718,758	1,718,758
1997/98	1,827,662	1,790,209	1,790,209	1,791,268
1998/99	2,574,585	2,504,395	2,504,395	2,504,395
1999/00	2,969,708	2,953,833	2,953,267	2,957,385
2000/01	5,033,358	5,026,575	5,026,092	5,029,555
2001/02	4,684,375	4,560,582	4,547,357	4,547,357
2002/03	4,697,683	4,565,050	4,546,835	4,546,835
2003/04	4,313,179	4,374,232	4,384,015	4,384,015
2004/05	12,645,832	12,262,281	12,193,144	12,193,144
2005/06	4,506,073	4,437,356	4,422,266	4,422,266
2006/07	5,609,230	5,524,127	5,504,201	5,506,194
2007/08	11,122,831	10,801,062	10,724,027	10,739,434
2008/09	6,953,485	7,102,640	7,135,598	7,125,711
2009/10	7,294,240	7,381,275	7,406,086	7,396,162
2010/11	5,565,681	5,519,689	5,503,316	5,516,102
2011/12	6,005,446	6,235,474	6,318,384	6,222,633
2012/13	5,696,526	6,466,789	6,923,949	6,449,884
2013/14	7,646,439	10,340,269	12,467,626	10,226,974
2014/15	9,020,732	16,967,922	19,834,232	16,459,834
Total	\$132,934,121	\$143,101,210	\$148,472,452	\$142,323,752

(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.



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

Exhibit WC-Gov-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 (2015/16 = 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)
2005/06	\$4,422,266	\$826,479	\$0.54	1.469	\$0.79	\$0.68
2006/07	5,506,194	859,906	0.64	1.380	0.88	0.72
2007/08	10,739,434	914,260	1.17	1.303	1.53	0.77
2008/09	7,125,711	942,707	0.76	1.172	0.89	0.85
2009/10	7,396,162	998,250	0.74	1.123	0.83	0.89
2010/11	5,516,102	928,082	0.59	1.107	0.66	0.90
2011/12	6,222,633	899,082	0.69	1.184	0.82	0.84
2012/13	6,449,884	949,338	0.68	1.135	0.77	0.88
2013/14	10,226,974	988,081	1.04	1.082	1.12	0.92
2014/15	16,459,834	998,567	1.65	1.040	1.71	0.96

(7) Projected 2015/16 a-priori loss rate per \$100 of Payroll \$1.00

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/15 (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)
2010/11	\$4,771,144	85.7%	\$0.90	\$928,082	\$1,196,856	\$5,968,000
2011/12	4,797,884	79.9%	0.84	899,082	1,526,564	6,324,448
2012/13	4,045,405	71.0%	0.88	949,338	2,425,214	6,470,619
2013/14	4,275,702	55.9%	0.92	988,081	4,024,838	8,300,540
2014/15	1,801,491	20.0%	0.96	998,567	7,684,974	9,486,465

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (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)
2010/11	\$5,288,476	95.8%	\$0.90	\$928,082	\$351,192	\$5,639,668
2011/12	5,845,672	93.7%	0.84	899,082	474,597	6,320,269
2012/13	5,613,451	86.8%	0.88	949,338	1,104,113	6,717,564
2013/14	7,671,622	74.2%	0.92	988,081	2,356,362	10,027,985
2014/15	8,227,968	48.5%	0.96	998,567	4,946,216	13,174,185

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

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

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

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

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

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

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



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

Exhibit WC-Gov-Med-8

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/15 (2)	Reported Claims 11/30/15 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Payroll (000) (6)	Frequency (per \$1M of Payroll) (5)/(6)X1,000 (7)
2005/06	120.0	1,159	100.0%	1,159	\$826,479	1.40
2006/07	108.0	902	100.0%	902	859,906	1.05
2007/08	96.0	777	100.0%	777	914,260	0.85
2008/09	84.0	767	99.9%	768	942,707	0.81
2009/10	72.0	862	99.8%	864	998,250	0.87
2010/11	60.0	788	99.7%	790	928,082	0.85
2011/12	48.0	783	99.6%	786	899,082	0.87
2012/13	36.0	716	99.3%	721	949,338	0.76
2013/14	24.0	752	98.9%	760	988,081	0.77
2014/15	12.0	762	96.5%	790	998,567	0.79

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2015/16 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2015/16 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2005/06	\$4,422,266	1,159	\$3,816	1.975	\$7,535	\$6,814	\$7,897,697
2006/07	5,506,194	902	6,104	1.801	10,991	7,474	6,741,181
2007/08	10,739,434	777	13,822	1.650	22,808	8,155	6,336,146
2008/09	7,125,711	768	9,278	1.441	13,370	9,338	7,171,966
2009/10	7,396,162	864	8,560	1.341	11,483	10,032	8,667,484
2010/11	5,516,102	790	6,982	1.283	8,961	10,485	8,282,799
2011/12	6,222,633	786	7,917	1.333	10,554	10,094	7,934,170
2012/13	6,449,884	721	8,946	1.240	11,092	10,852	7,824,564
2013/14	10,226,974	760	13,457	1.148	15,451	11,719	8,906,474
2014/15	16,459,834	790	20,835	1.071	22,319	12,562	9,923,889
(7) Projected 2015/16 average claim severity					\$13,456		

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 2014/15

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 1995/96	\$23,001,890	\$22,568,694	\$22,568,694				\$22,512,227	\$22,586,000
1996/97	1,765,164	1,718,758	1,718,758				1,718,758	1,718,758
1997/98	1,827,662	1,790,209	1,790,209				1,780,465	1,791,268
1998/99	2,574,585	2,504,395	2,504,395				2,504,395	2,504,395
1999/00	2,969,708	2,953,833	2,953,267				2,951,052	2,957,385
2000/01	5,033,358	5,026,575	5,026,092				4,883,276	5,030,000
2001/02	4,684,375	4,560,582	4,547,357				4,546,264	4,547,318
2002/03	4,697,683	4,565,050	4,546,835				4,546,835	4,546,835
2003/04	4,313,179	4,374,232	4,384,015				4,206,000	4,384,000
2004/05	12,645,832	12,262,281	12,193,144				12,168,336	12,193,000
2005/06	4,506,073	4,437,356	4,422,266				4,363,247	4,422,000
2006/07	5,609,230	5,524,127	5,504,201				5,364,000	5,506,000
2007/08	11,122,831	10,801,062	10,724,027				10,320,000	10,739,000
2008/09	6,953,485	7,102,640	7,135,598				6,175,000	7,126,000
2009/10	7,294,240	7,381,275	7,406,086				6,467,000	7,396,000
2010/11	5,565,681	5,519,689	5,503,316	5,968,000	5,639,668	8,282,799	4,967,000	5,516,000
2011/12	6,005,446	6,235,474	6,318,384	6,324,448	6,320,269	7,934,170	5,375,000	6,223,000
2012/13	5,696,526	6,466,789	6,923,949	6,470,619	6,717,564	7,824,564	6,750,000	6,450,000
2013/14	7,646,439	10,340,269	12,467,626	8,300,540	10,027,985	8,906,474	9,000,000	10,020,000
2014/15	9,020,732	16,967,922	19,834,232	9,486,465	13,174,185	9,923,889	9,454,000	12,500,000
Sum	\$132,934,121	\$143,101,210	\$148,472,452				\$130,052,854	\$138,156,959
2010/11 - 2014/15	33,934,824	45,530,143	51,047,508	36,550,072	41,879,670	42,871,895	35,546,000	40,709,000
to 2009/10	98,999,297	97,571,067	97,424,944				94,506,854	97,447,959
						Change		
						All years		\$8,104,104
						2010/11 - 2014/15		5,163,000
						to 2009/10		2,941,104

(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 from prior actuarial study.

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



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

Exhibit WC-Gov-Med-10

Projected Ultimate Limited Losses for 2015/16 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 (2015/16 = 1.000) (5)	Trended Limited Loss Rate per \$100 of Payroll (4)X(5) (6)
2005/06	\$4,422,000	\$826,479	\$0.54	1.469	\$0.79
2006/07	5,506,000	859,906	0.64	1.380	0.88
2007/08	10,739,000	914,260	1.17	1.303	1.53
2008/09	7,126,000	942,707	0.76	1.172	0.89
2009/10	7,396,000	998,250	0.74	1.123	0.83
2010/11	5,516,000	928,082	0.59	1.107	0.66
2011/12	6,223,000	899,082	0.69	1.184	0.82
2012/13	6,450,000	949,338	0.68	1.135	0.77
2013/14	10,020,000	988,081	1.01	1.082	1.10
2014/15	12,500,000	998,567	1.25	1.040	1.30
Total	\$75,898,000	\$9,304,752	\$0.82		\$0.96

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)
2015/16	\$0.96	\$1,054,960	\$10,092,000	0.95	\$0.91	\$9,610,000
2016/17	0.99	1,054,960	10,495,000	0.95	0.95	9,994,000
2017/18	1.03	1,054,960	10,915,000	0.95	0.99	10,394,000

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

(3) was provided by the County.

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

(7) 2015/16 is based on (6) and actuarial judgment.

Other period(s) based on 2015/16 plus the trend in Exhibit WC-Gov-Med-15.

(8) to 2015/16 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.68% 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, 2015

Claim Period (1)	Limited Paid Losses 11/30/15 (2)	Limited Case Reserves 11/30/15 (3)	Limited Reported Incurred Losses 11/30/15 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/15 (5)-(4) (6)	Estimated Outstanding Losses 11/30/15 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/15 (7)X(8) (9)
to 1995/96	\$22,397,167	\$171,528	\$22,568,694	\$22,586,000	\$17,306	\$188,834	0.96	\$181,120
1996/97	1,718,758	0	1,718,758	1,718,758	0	0	0.94	0
1997/98	1,779,612	10,596	1,790,209	1,791,268	1,060	11,656	0.93	10,813
1998/99	2,504,395	0	2,504,395	2,504,395	0	0	0.92	0
1999/00	2,885,859	65,024	2,950,882	2,957,385	6,502	71,526	0.90	64,617
2000/01	4,886,356	130,181	5,016,537	5,030,000	13,463	143,644	0.89	128,131
2001/02	4,543,023	3,904	4,546,927	4,547,318	390	4,294	0.88	3,783
2002/03	4,546,835	0	4,546,835	4,546,835	0	0	0.87	0
2003/04	4,162,192	190,234	4,352,426	4,384,000	31,574	221,808	0.87	193,175
2004/05	12,166,652	22,312	12,188,964	12,193,000	4,036	26,348	0.87	22,844
2005/06	4,313,758	88,262	4,402,021	4,422,000	19,979	108,241	0.87	94,014
2006/07	5,327,216	141,982	5,469,199	5,506,000	36,801	178,783	0.88	156,489
2007/08	10,417,763	243,916	10,661,679	10,739,000	77,321	321,237	0.89	285,333
2008/09	6,385,008	605,006	6,990,014	7,126,000	135,986	740,992	0.90	667,145
2009/10	6,521,816	670,491	7,192,307	7,396,000	203,693	874,184	0.91	795,381
2010/11	4,771,144	517,332	5,288,476	5,516,000	227,524	744,856	0.92	685,244
2011/12	4,797,884	1,047,788	5,845,672	6,223,000	377,328	1,425,116	0.93	1,325,468
2012/13	4,045,405	1,568,046	5,613,451	6,450,000	836,549	2,404,595	0.94	2,256,355
2013/14	4,275,702	3,395,920	7,671,622	10,020,000	2,348,378	5,744,298	0.95	5,436,805
2014/15	1,801,491	6,426,478	8,227,968	12,500,000	4,272,032	10,698,510	0.96	10,251,308
Total	\$114,248,036	\$15,299,001	\$129,547,037	\$138,156,959	\$8,609,922	\$23,908,922		\$22,558,025

(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 1.68% 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, 2015 to November 30, 2016

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Months of Development 11/30/16 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/15 to 11/30/16 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/15 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/16 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/16 (9)X(10) (11)
to 1995/96	240.0	97.4%	252.0	98.2%	30.0%	\$188,834	\$56,650	\$132,184	0.96	\$126,960
1996/97	228.0	97.4%	240.0	97.4%	100.0%	0	0	0	0.96	0
1997/98	216.0	97.4%	228.0	97.4%	100.0%	11,656	11,656	0	0.94	0
1998/99	204.0	97.3%	216.0	97.4%	3.6%	0	0	0	0.93	0
1999/00	192.0	97.2%	204.0	97.3%	3.4%	71,526	2,462	69,064	0.92	63,214
2000/01	180.0	97.1%	192.0	97.2%	3.3%	143,644	4,775	138,869	0.90	125,456
2001/02	168.0	97.0%	180.0	97.1%	3.2%	4,294	138	4,156	0.89	3,707
2002/03	156.0	96.8%	168.0	97.0%	6.0%	0	0	0	0.88	0
2003/04	144.0	96.5%	156.0	96.8%	8.3%	221,808	18,343	203,465	0.87	177,871
2004/05	132.0	96.2%	144.0	96.5%	7.6%	26,348	2,007	24,341	0.87	21,199
2005/06	120.0	95.7%	132.0	96.2%	11.2%	108,241	12,140	96,101	0.87	83,322
2006/07	108.0	95.0%	120.0	95.7%	15.1%	178,783	27,018	151,765	0.87	131,818
2007/08	96.0	93.7%	108.0	95.0%	20.7%	321,237	66,450	254,787	0.88	223,016
2008/09	84.0	91.8%	96.0	93.7%	22.5%	740,992	166,453	574,539	0.89	510,324
2009/10	72.0	89.4%	84.0	91.8%	22.8%	874,184	199,287	674,897	0.90	607,637
2010/11	60.0	85.7%	72.0	89.4%	25.8%	744,856	192,331	552,525	0.91	502,718
2011/12	48.0	79.9%	60.0	85.7%	29.0%	1,425,116	413,346	1,011,770	0.92	930,797
2012/13	36.0	71.0%	48.0	79.9%	30.6%	2,404,595	736,436	1,668,159	0.93	1,551,517
2013/14	24.0	55.9%	36.0	71.0%	34.2%	5,744,298	1,967,358	3,776,940	0.94	3,544,096
2014/15	12.0	20.0%	24.0	55.9%	44.9%	10,698,510	4,805,474	5,893,036	0.95	5,577,582
2015/16	0.0	0.0%	12.0	20.0%	20.0%	10,092,000	2,015,429	8,076,571	0.96	7,738,967
Total						\$34,000,922	\$10,697,753	\$23,303,169		\$21,920,201

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

(7) to 2014/15 is from Exhibit WC-Gov-Med-11. The amount for 2015/16 is from Exhibit WC-Gov-Med-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit WC-Gov-Med-2.



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

Exhibit WC-Gov-Med-13

Projected Losses Paid December 1, 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 1995/96	252.0	98.2%	264.0	98.7%	30.0%	\$132,184	\$39,655	\$92,529	0.96	\$89,030
1996/97	240.0	97.4%	252.0	98.2%	30.0%	0	0	0	0.96	0
1997/98	228.0	97.4%	240.0	97.4%	100.0%	0	0	0	0.96	0
1998/99	216.0	97.4%	228.0	97.4%	100.0%	0	0	0	0.94	0
1999/00	204.0	97.3%	216.0	97.4%	3.6%	69,064	2,464	66,600	0.93	61,786
2000/01	192.0	97.2%	204.0	97.3%	3.4%	138,869	4,780	134,089	0.92	122,732
2001/02	180.0	97.1%	192.0	97.2%	3.3%	4,156	138	4,018	0.90	3,630
2002/03	168.0	97.0%	180.0	97.1%	3.2%	0	0	0	0.89	0
2003/04	156.0	96.8%	168.0	97.0%	6.0%	203,465	12,266	191,199	0.88	168,454
2004/05	144.0	96.5%	156.0	96.8%	8.3%	24,341	2,013	22,328	0.87	19,519
2005/06	132.0	96.2%	144.0	96.5%	7.6%	96,101	7,320	88,781	0.87	77,320
2006/07	120.0	95.7%	132.0	96.2%	11.2%	151,765	17,021	134,744	0.87	116,827
2007/08	108.0	95.0%	120.0	95.7%	15.1%	254,787	38,503	216,284	0.87	187,857
2008/09	96.0	93.7%	108.0	95.0%	20.7%	574,539	118,848	455,691	0.88	398,868
2009/10	84.0	91.8%	96.0	93.7%	22.5%	674,897	151,606	523,291	0.89	464,804
2010/11	72.0	89.4%	84.0	91.8%	22.8%	552,525	125,959	426,566	0.90	384,055
2011/12	60.0	85.7%	72.0	89.4%	25.8%	1,011,770	261,251	750,519	0.91	682,864
2012/13	48.0	79.9%	60.0	85.7%	29.0%	1,668,159	483,839	1,184,320	0.92	1,089,538
2013/14	36.0	71.0%	48.0	79.9%	30.6%	3,776,940	1,156,733	2,620,207	0.93	2,436,995
2014/15	24.0	55.9%	36.0	71.0%	34.2%	5,893,036	2,018,299	3,874,737	0.94	3,635,864
2015/16	12.0	20.0%	24.0	55.9%	44.9%	8,076,571	3,627,771	4,448,800	0.95	4,210,656
2016/17	0.0	0.0%	12.0	20.0%	20.0%	10,495,000	2,095,910	8,399,090	0.96	8,048,004
Total						\$33,798,169	\$10,164,376	\$23,633,793		\$22,198,803

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

(7) to 2015/16 is from Exhibit WC-Gov-Med-12, (9). The amount for 2016/17 is from Exhibit WC-Gov-Med-10.

(10) is based on a 1.68% 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, 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 1995/96	264.0	98.7%	276.0	99.1%	30.0%	\$92,529	\$27,759	\$64,770	0.96	\$62,459
1996/97	252.0	98.2%	264.0	98.7%	30.0%	0	0	0	0.96	0
1997/98	240.0	97.4%	252.0	98.2%	30.0%	0	0	0	0.96	0
1998/99	228.0	97.4%	240.0	97.4%	100.0%	0	0	0	0.96	0
1999/00	216.0	97.4%	228.0	97.4%	100.0%	66,600	66,600	0	0.94	0
2000/01	204.0	97.3%	216.0	97.4%	3.6%	134,089	4,784	129,305	0.93	119,959
2001/02	192.0	97.2%	204.0	97.3%	3.4%	4,018	138	3,880	0.92	3,551
2002/03	180.0	97.1%	192.0	97.2%	3.3%	0	0	0	0.90	0
2003/04	168.0	97.0%	180.0	97.1%	3.2%	191,199	6,145	185,054	0.89	165,069
2004/05	156.0	96.8%	168.0	97.0%	6.0%	22,328	1,346	20,982	0.88	18,486
2005/06	144.0	96.5%	156.0	96.8%	8.3%	88,781	7,342	81,439	0.87	71,195
2006/07	132.0	96.2%	144.0	96.5%	7.6%	134,744	10,264	124,480	0.87	108,411
2007/08	120.0	95.7%	132.0	96.2%	11.2%	216,284	24,257	192,027	0.87	166,492
2008/09	108.0	95.0%	120.0	95.7%	15.1%	455,691	68,864	386,827	0.87	335,985
2009/10	96.0	93.7%	108.0	95.0%	20.7%	523,291	108,247	415,044	0.88	363,290
2010/11	84.0	91.8%	96.0	93.7%	22.5%	426,566	95,822	330,744	0.89	293,778
2011/12	72.0	89.4%	84.0	91.8%	22.8%	750,519	171,095	579,424	0.90	521,679
2012/13	60.0	85.7%	72.0	89.4%	25.8%	1,184,320	305,806	878,514	0.91	799,320
2013/14	48.0	79.9%	60.0	85.7%	29.0%	2,620,207	759,974	1,860,233	0.92	1,711,357
2014/15	36.0	71.0%	48.0	79.9%	30.6%	3,874,737	1,186,685	2,688,052	0.93	2,500,097
2015/16	24.0	55.9%	36.0	71.0%	34.2%	4,448,800	1,523,664	2,925,136	0.94	2,744,805
2016/17	12.0	20.0%	24.0	55.9%	44.9%	8,399,090	3,772,638	4,626,452	0.95	4,378,798
2017/18	0.0	0.0%	12.0	20.0%	20.0%	10,915,000	2,179,786	8,735,214	0.96	8,370,078
Total						\$34,548,793	\$10,321,216	\$24,227,577		\$22,734,809

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

(7) to 2016/17 is from Exhibit WC-Gov-Med-13, (9). The amount for 2017/18 is from Exhibit WC-Gov-Med-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit WC-Gov-Med-2.



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

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

II. Loss Rate and Severity Trend

Claim Period (1)	Benefit Trend (2015/16 = 1.000) (2)	Residual Trend (2015/16 = 1.000) (3)	Retention Index (2015/16 = 1.000) (4)	Loss Rate Trend (2015/16 = 1.000) (2)X(3)X(4) (5)	Wage Trend (2015/16 = 1.000) (6)	Severity Trend (2015/16 = 1.000) (5)X(6) (7)
2005/06	0.993	1.480	1.000	1.469	1.344	1.975
2006/07	0.970	1.423	1.000	1.380	1.305	1.801
2007/08	0.952	1.369	1.000	1.303	1.267	1.650
2008/09	0.890	1.316	1.000	1.172	1.230	1.441
2009/10	0.888	1.265	1.000	1.123	1.194	1.341
2010/11	0.910	1.217	1.000	1.107	1.159	1.283
2011/12	1.012	1.170	1.000	1.184	1.126	1.333
2012/13	1.009	1.125	1.000	1.135	1.093	1.240
2013/14	1.001	1.082	1.000	1.082	1.061	1.148
2014/15	1.000	1.040	1.000	1.040	1.030	1.071
2015/16	1.000	1.000	1.000	1.000	1.000	1.000
2016/17	1.000	0.962	1.000	0.962	0.971	0.934

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

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 11/30/15 (5)	Unlimited Case Reserves 11/30/15 (6)	Unlimited Reported Incurred Losses 11/30/15 (7)
20050352	2/5/2005	2004/05	Unlimited	\$6,217,628	\$0	\$6,217,628
20061775	2/5/2005	2004/05	Unlimited	1,471,257	0	1,471,257
20090036	7/1/2008	2007/08	Unlimited	3,248,259	0	3,248,259
20081090	8/1/2008	2007/08	Unlimited	1,233,408	0	1,233,408

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.



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

Exhibit WC-Gov-Med-17

Size of Loss Distribution

I. Reported Claim Count

Layer (1)	Prior (2)	2010/11 (3)	2011/12 (4)	2012/13 (5)	2013/14 (6)	2014/15 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	14,877	415	428	374	311	237	16,642		
0.01 - 5,000	9,516	233	231	200	236	288	10,704	10,704	76.3%
5,000 - 10,000	926	41	30	28	44	46	1,115	11,819	84.2%
10,000 - 25,000	778	45	38	49	60	57	1,027	12,846	91.6%
25,000 - 50,000	413	30	19	37	58	103	660	13,506	96.3%
50,000 - 100,000	205	14	21	15	32	27	314	13,820	98.5%
100,000 - 250,000	127	9	14	12	10	4	176	13,996	99.8%
250,000 - 500,000	22	1	2	1	1	0	27	14,023	100.0%
500,000 - 750,000	3	0	0	0	0	0	3	14,026	100.0%
750,000 - 1,000,000	0	0	0	0	0	0	0	14,026	100.0%
Over 1,000,000	4	0	0	0	0	0	4	14,030	100.0%
Total	26,871	788	783	716	752	762	30,672	14,030	

II. Total Reported Incurred Losses

Layer (1)	Prior (2)	2010/11 (3)	2011/12 (4)	2012/13 (5)	2013/14 (6)	2014/15 (7)	Total (2)...(7) (8)	Non-Zero Claim Cumulative Total (9)	Non-Zero Claim Cumulative % of Total (10)
0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
0.01 - 5,000	9,626,530	375,539	326,748	266,027	319,718	494,055	11,408,616	11,408,616	8.8%
5,000 - 10,000	6,543,317	282,739	212,422	200,520	336,185	361,513	7,936,697	19,345,314	14.9%
10,000 - 25,000	12,476,178	739,759	636,594	799,927	1,036,334	967,040	16,655,833	36,001,146	27.8%
25,000 - 50,000	14,308,777	1,094,667	686,802	1,310,969	2,159,691	4,164,095	23,725,001	59,726,147	46.1%
50,000 - 100,000	14,028,482	962,999	1,489,040	1,114,249	2,266,934	1,665,486	21,527,190	81,253,338	62.7%
100,000 - 250,000	18,984,896	1,500,139	1,924,636	1,665,744	1,236,260	575,779	25,887,455	107,140,793	82.7%
250,000 - 500,000	6,944,585	332,633	569,430	256,015	316,500	0	8,419,162	115,559,955	89.2%
500,000 - 750,000	1,816,531	0	0	0	0	0	1,816,531	117,376,486	90.6%
750,000 - 1,000,000	0	0	0	0	0	0	0	117,376,486	90.6%
Over 1,000,000	12,170,551	0	0	0	0	0	12,170,551	129,547,037	100.0%
Total	\$96,899,847	\$5,288,476	\$5,845,672	\$5,613,451	\$7,671,622	\$8,227,968	\$129,547,037	\$129,547,037	

Amounts are gross of excess insurance.

Data was provided by the County.



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Exhibit GL-1 (page 1)

Data Summary as of November 30, 2015
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Revenue (000) (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Limited Paid Losses 11/30/15 (8)	Limited Case Reserves 11/30/15 (9)	Limited Reported Incurred Losses 11/30/15 (10)
to 1995/96	See Note	None	240.0	Not Provided	32	0	\$2,895,619	\$0	\$2,895,619
1996/97	Unlimited	None	228.0	911,921	15	0	311,221	0	311,221
1997/98	Unlimited	None	216.0	953,497	22	0	1,096,413	0	1,096,413
1998/99	Unlimited	None	204.0	958,768	29	0	256,471	0	256,471
1999/00	Unlimited	None	192.0	1,018,542	30	0	1,636,116	0	1,636,116
2000/01	9,500,000	40,000,000	180.0	1,068,809	41	0	692,872	0	692,872
2001/02	9,500,000	40,000,000	168.0	1,057,079	33	0	242,675	0	242,675
2002/03	9,500,000	45,000,000	156.0	1,086,728	34	0	428,613	0	428,613
2003/04	10,000,000	None	144.0	1,199,434	34	0	35,161	0	35,161
2004/05	10,000,000	25,000,000	132.0	1,189,789	65	0	222,376	0	222,376
2005/06	10,000,000	25,000,000	120.0	1,357,723	40	0	170,347	0	170,347
2006/07	10,000,000	25,000,000	108.0	1,243,144	49	0	117,830	0	117,830
2007/08	10,000,000	25,000,000	96.0	1,207,801	212	0	446,995	0	446,995
2008/09	10,000,000	25,000,000	84.0	1,303,812	142	0	152,107	0	152,107
2009/10	10,000,000	25,000,000	72.0	1,287,986	68	0	312,995	0	312,995
2010/11	10,000,000	25,000,000	60.0	1,293,078	48	0	138,548	0	138,548
2011/12	10,000,000	25,000,000	48.0	1,331,769	52	3	90,020	305,000	395,020
2012/13	15,000,000	25,000,000	36.0	1,285,791	68	5	315,065	68,500	383,565
2013/14	15,000,000	25,000,000	24.0	1,308,017	222	10	79,933	143,100	223,033
2014/15	15,000,000	25,000,000	12.0	Not Provided	41	28	9,203	74,650	83,853
Total					1,277	46	\$9,650,579	\$591,250	\$10,241,829

* 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.



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Exhibit GL-1 (page 2)

Data Summary as of November 30, 2015
Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Revenue (000) (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Unlimited Paid Losses 11/30/15 (8)	Unlimited Case Reserves 11/30/15 (9)	Unlimited Reported Incurred Losses 11/30/15 (10)
to 1995/96	Unlimited	None	240.0	Not Provided	32	0	\$2,895,619	\$0	\$2,895,619
1996/97	Unlimited	None	228.0	911,921	15	0	311,221	0	311,221
1997/98	Unlimited	None	216.0	953,497	22	0	1,096,413	0	1,096,413
1998/99	Unlimited	None	204.0	958,768	29	0	256,471	0	256,471
1999/00	Unlimited	None	192.0	1,018,542	30	0	1,636,116	0	1,636,116
2000/01	Unlimited	40,000,000	180.0	1,068,809	41	0	692,872	0	692,872
2001/02	Unlimited	40,000,000	168.0	1,057,079	33	0	242,675	0	242,675
2002/03	Unlimited	45,000,000	156.0	1,086,728	34	0	428,613	0	428,613
2003/04	Unlimited	None	144.0	1,199,434	34	0	35,161	0	35,161
2004/05	Unlimited	25,000,000	132.0	1,189,789	65	0	222,376	0	222,376
2005/06	Unlimited	25,000,000	120.0	1,357,723	40	0	170,347	0	170,347
2006/07	Unlimited	25,000,000	108.0	1,243,144	49	0	117,830	0	117,830
2007/08	Unlimited	25,000,000	96.0	1,207,801	212	0	446,995	0	446,995
2008/09	Unlimited	25,000,000	84.0	1,303,812	142	0	152,107	0	152,107
2009/10	Unlimited	25,000,000	72.0	1,287,986	68	0	312,995	0	312,995
2010/11	Unlimited	25,000,000	60.0	1,293,078	48	0	138,548	0	138,548
2011/12	Unlimited	25,000,000	48.0	1,331,769	52	3	90,020	305,000	395,020
2012/13	Unlimited	25,000,000	36.0	1,285,791	68	5	315,065	68,500	383,565
2013/14	Unlimited	25,000,000	24.0	1,308,017	222	10	79,933	143,100	223,033
2014/15	Unlimited	25,000,000	12.0	Not Provided	41	28	9,203	74,650	83,853
Total					1,277	46	\$9,650,579	\$591,250	\$10,241,829

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

Data was provided by the County.



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

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)	Months of Development (5)	Percent Losses Paid (6)	Percent Losses Reported (7)	Percent Claims Reported (8)
360.0	100.0%	100.0%	100.0%	354.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%	342.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%	330.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%	318.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%	306.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%	294.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%	282.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%	270.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%	258.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%	246.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%	234.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%	222.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%	210.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%	198.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%	186.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%	174.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%	162.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%	150.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%	138.0	100.0%	100.0%	100.0%
132.0	100.0%	100.0%	100.0%	126.0	100.0%	100.0%	100.0%
120.0	100.0%	100.0%	100.0%	114.0	100.0%	100.0%	100.0%
108.0	100.0%	100.0%	100.0%	102.0	100.0%	100.0%	100.0%
96.0	100.0%	100.0%	100.0%	90.0	100.0%	100.0%	100.0%
84.0	100.0%	100.0%	100.0%	78.0	99.3%	100.0%	100.0%
72.0	98.5%	100.0%	100.0%	66.0	96.4%	98.8%	100.0%
60.0	94.3%	97.6%	100.0%	54.0	84.9%	95.2%	100.0%
48.0	75.4%	92.9%	100.0%	42.0	62.4%	88.7%	100.0%
36.0	49.5%	84.5%	100.0%	30.0	35.0%	72.4%	100.0%
24.0	20.6%	60.3%	100.0%	18.0	13.0%	46.3%	99.0%
12.0	5.4%	32.2%	98.0%	6.0	2.7%	16.1%	49.0%

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

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

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

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



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

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

Claim Period	Months of Development:																				
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1995/06					\$1,830	\$1,982	\$2,025	\$2,025	\$2,025	\$2,776	\$2,776	\$2,776	\$2,776	\$2,776	\$2,776	\$2,776	\$2,776	\$2,776	\$2,776	\$2,776	\$2,896
1996/07	19	20	40	51	226	226	226	226	226	301	301	301	301	301	301	301	301	301	301	301	311
1997/08	4	66	91	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036
1998/09	5	9	99	154	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236
1999/00	3	20	27	685	710	710	710	710	710	711	711	711	711	711	711	711	711	711	711	711	711
2000/01	6	16	515	579	590	685	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693
2001/02	13	20	93	93	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243
2002/03	1	10	20	24	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429
2003/04	5	18	22	22	35	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	222
2005/06	4	41	74	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164
2006/07	21	38	99	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118
2007/08	37	69	128	398	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402
2008/09	15	40	47	47	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152
2009/10	19	27	119	205	205	205	205	205	205	205	205	205	205	205	205	205	205	205	205	205	205
2010/11	13	20	24	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139
2011/12	20	24	39	90																	
2012/13	303	314	315																		
2013/14	24	80																			
2014/15	9																				

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 1995/06					1,033	1,022	1,000	1,000	1,370	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,043
1996/07	1,048	2,073	1,266	4,417	1,033	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1997/08	16,013	1,389	11,359	1,058	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1998/09	1,835	11,265	1,557	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	1,000
1999/00	5,689	1,398	24,971	1,037	1,000	1,000	1,002	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2000/01	2,549	31,229	1,124	1,020	1,161	1,011	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2001/02	1,557	4,709	1,000	1,000	2,619	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2002/03	8,386	2,019	1,199	17,775	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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	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	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	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	1,000
2007/08	1,851	1,173	1,590	3,101	1,009	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2008/09	2,643	1,180	1,443	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	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	1,000
2010/11	1,534	1,200	5,761	1,000																	
2011/12	1,204	1,622	2,301																		
2012/13	1,038	1,003																			
2013/14	3,276																				
2014/15																					
Average All	3,848	4,315	3,930	2,729	1,160	1,013	1,026	1,000	1,034	1,000	1,000	1,000	1,186	1,006	1,000	1,000	1,000	1,000	1,000	1,000	1,043
Wtd 3	1,205	1,055	2,377	1,269	1,148	1,067	1,000	1,000	1,000	1,000	1,000	1,000	1,562	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Last 3	1,639	1,275	3,251	1,743	1,179	1,037	1,000	1,000	1,000	1,000	1,000	1,000	1,434	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Last 5 x-Hi/low	1,394	1,334	1,670	1,700	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	1,000
Similar Previous	2,400	1,650	1,350	1,205	1,112	1,065	1,045	1,030	1,020	1,019	1,014	1,011	1,008	1,006	1,005	1,003	1,003	1,002	1,001	1,001	1,004
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	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	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%	100.0%

Amounts are limited (net of excess insurance).

Data was provided by the County.



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

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

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

Claim Period	Months of Development:																			
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
to 1995/06					\$3,311	\$2,892	\$2,133	\$2,190	\$2,026	\$2,776	\$2,776	\$2,776	\$2,776	\$2,776	\$2,776	\$2,776	\$2,776	\$2,776	\$2,298	\$2,896
1996/07	476	1,251	1,321	1,017	538	536	536	311	301	301	301	301	301	301	311	311	311	311	311	311
1997/08	240	824	819	1,149	1,142	1,131	1,131	1,066	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086
1998/09	160	869	845	776	776	286	236	236	236	236	236	236	236	236	236	236	236	236	236	236
1999/00	564	1,506	1,830	2,261	962	965	715	2,211	711	711	711	2,211	2,211	2,211	236	236	1,086	1,086	1,086	1,086
2000/01	817	3,836	690	734	725	683	693	2,193	2,193	1,683	683	683	683	683	683	683	683	683	683	683
2001/02	320	2,701	1,108	1,613	761	443	303	303	303	243	243	243	243	243	243	243	243	243	243	243
2002/03	125	1,626	12,779	12,979	439	429	429	429	429	429	429	429	429	429	429	429	429	429	429	429
2003/04	641	327	337	35	55	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
2004/05	488	751	411	287	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222
2005/06	200	527	214	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	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152
2009/10	117	211	332	310	305	313														
2010/11	68	219	59	139	139															
2011/12	205	253	396	395																
2012/13	383	410	384																	
2013/14	135	223																		
2014/15	84																			

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 1995/06					0.874	0.737	1.027	0.925	1.370	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.260
1996/07	2,630	1,056	0.770	0.529	0.974	1.000	0.980	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
1997/08	3,436	0.994	1.403	0.984	0.990	1.000	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
1998/09	4,632	0.972	0.917	1.003	0.869	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	0.955	1.000	3.165	1.000	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	0.843	4.107	1.495	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	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
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	0.756	0.550	0.672	3.229	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2009/10	1,805	1.575	0.935	0.984	1.026	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2010/11	3,222	0.269	2.346	1.000																
2011/12	1,234	1.567	0.998																	
2012/13	1,070	0.936																		
2013/14	1,658																			
2014/15																				
Average All	2,823	1,485	1,135	0.894	0.892	0.921	1,296	0.934	0.995	0.941	1,234	1,028	0.943	1,006	1,000	1,000	1,000	0.914	1,260	1,000
Wtd 3	1,226	0.951	1,072	1,202	1,073	0.917	1,000	1,000	1,000	1,000	1,000	1,000	0.705	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Last 3	1,321	0.924	1,426	1,736	1,052	0.958	1,000	1,000	1,000	1,000	1,000	1,000	0.868	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Last 5 x-Hilow	1,565	1,018	0.929	1,300	0.995	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	100.0%
Similar	1,800	1,350	1,190	1,110	1,060	1,037	1,025	1,020	1,010	1,012	1,009	1,007	1,005	1,004	1,003	1,002	1,001	1,001	1,001	1,003
Previous	1,900	1,400	1,100	1,050	1,025	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Selected	1,875	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 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 1995/06																						
1995/07		25	23	19	15	15	15	30	31	32	32	32	32	32	32	32	32	32	32	32	32	
1997/06		37	36	25	22	22	22	22	22	15	15	15	15	15	15	15	15	15	15	15	15	
1998/09	31	40	48	37	22	29	29	29	22	22	22	22	22	22	22	22	22	22	22	22	22	
1999/00	40	45	39	33	30	30	30	30	29	29	29	29	29	29	29	29	29	29	29	29	29	
2000/01	53	45	41	41	41	41	41	41	30	30	30	30	30	30	30	30	30	30	30	30	30	
2001/02	82	45	41	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
2002/03	46	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	
2003/04	32	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	
2004/05	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	
2005/06	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
2006/07	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	
2007/08	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	
2008/09	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	
2009/10	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	
2010/11	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
2011/12	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	
2012/13	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	
2013/14	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	
2014/15	41																					

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 1995/06																						
1995/07		0.920	0.826	0.885	0.882	1.000	1.000	1.033	1.032	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1997/06	1.194	0.973	0.684	0.960	0.917	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1998/09	1.200	0.771	0.885	0.906	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1999/00	0.849	0.867	0.846	0.909	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2000/01	0.549	0.911	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2001/02	0.739	0.971	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2002/03	1.063	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2003/04	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2004/05	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2005/06	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2006/07	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2007/08	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2008/09	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2009/10	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2010/11	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2011/12	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2012/13	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2013/14	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2014/15	1.000																					
Average All	0.976	0.965	0.952	0.978	0.986	1.000	1.000	1.003	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	
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	
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	
Last 5	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	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																						
Similar	1.219	1.047	1.026	1.015	1.012	1.011	1.012	1.013	1.017	1.003	1.003	1.002	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.001	1.001	
Previous	1.020	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Selected	1.020	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Cumulative	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	
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%	

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 1995/06																						
1996/07	3.9%	1.6%	3.1%	5.0%	55.3%	68.5%	95.0%	92.5%	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%	
1997/08	1.7%	8.0%	11.1%	90.2%	42.1%	42.2%	42.2%	66.8%	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%	
1998/09	2.7%	1.0%	11.7%	19.5%	96.0%	96.9%	96.9%	99.1%	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%	89.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2000/01	0.8%	0.4%	74.6%	78.9%	81.4%	98.9%	100.0%	31.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2001/02	3.9%	7.3%	8.4%	5.7%	12.2%	54.8%	80.2%	80.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2002/03	1.0%	0.6%	0.2%	0.2%	97.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2003/04	0.8%	5.5%	6.4%	2.2%	63.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2004/05	2.0%	3.2%	14.9%	83.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2005/06	1.8%	7.8%	17.5%	76.6%	89.1%	92.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2006/07	5.1%	9.0%	31.1%	88.7%	88.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2007/08	18.9%	10.8%	15.2%	28.3%	87.9%	78.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2008/09	9.0%	31.3%	67.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2009/10	16.1%	12.8%	36.9%	66.1%	67.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2010/11	19.2%	9.1%	40.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2011/12	9.8%	9.5%	9.9%	22.8%																		
2012/13	79.1%	76.7%	82.1%																			
2013/14	18.1%																					
2014/15	11.0%																					
Average																						
All	10.8%	12.9%	25.4%	49.9%	74.3%	86.4%	93.8%	87.1%	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	36.1%	40.7%	44.2%	63.0%	89.1%	92.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Last 5	16.1%	13.4%	48.0%	64.8%	92.2%	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%	
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%	



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Exhibit GL-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Paid Losses 11/30/15 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1995/96	240.0	\$2,895,619	100.0%	\$2,895,619
1996/97	228.0	311,221	100.0%	311,221
1997/98	216.0	1,096,413	100.0%	1,096,413
1998/99	204.0	256,471	100.0%	256,471
1999/00	192.0	1,636,116	100.0%	1,636,116
2000/01	180.0	692,872	100.0%	692,872
2001/02	168.0	242,675	100.0%	242,675
2002/03	156.0	428,613	100.0%	428,613
2003/04	144.0	35,161	100.0%	35,161
2004/05	132.0	222,376	100.0%	222,376
2005/06	120.0	170,347	100.0%	170,347
2006/07	108.0	117,830	100.0%	117,830
2007/08	96.0	446,995	100.0%	446,995
2008/09	84.0	152,107	100.0%	152,107
2009/10	72.0	312,995	98.5%	317,689
2010/11	60.0	138,548	94.3%	146,955
2011/12	48.0	90,020	75.4%	119,352
2012/13	36.0	315,065	49.5%	637,033
2013/14	24.0	79,933	20.6%	387,881
2014/15	12.0	9,203	5.4%	169,705

(3) is from Exhibit GL-1.

(4) is from Exhibit GL-2.



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Exhibit GL-4

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1995/96	240.0	\$2,895,619	100.0%	\$2,895,619
1996/97	228.0	311,221	100.0%	311,221
1997/98	216.0	1,096,413	100.0%	1,096,413
1998/99	204.0	256,471	100.0%	256,471
1999/00	192.0	1,636,116	100.0%	1,636,116
2000/01	180.0	692,872	100.0%	692,872
2001/02	168.0	242,675	100.0%	242,675
2002/03	156.0	428,613	100.0%	428,613
2003/04	144.0	35,161	100.0%	35,161
2004/05	132.0	222,376	100.0%	222,376
2005/06	120.0	170,347	100.0%	170,347
2006/07	108.0	117,830	100.0%	117,830
2007/08	96.0	446,995	100.0%	446,995
2008/09	84.0	152,107	100.0%	152,107
2009/10	72.0	312,995	100.0%	312,995
2010/11	60.0	138,548	97.6%	142,012
2011/12	48.0	395,020	92.9%	425,140
2012/13	36.0	383,565	84.5%	454,093
2013/14	24.0	223,033	60.3%	369,660
2014/15	12.0	83,853	32.2%	260,588

(3) is from Exhibit GL-1.

(4) is from Exhibit GL-2.



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Exhibit GL-5

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/15 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/15 (6)	Limited Case Reserves 11/30/15 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1995/96	240.0	100.0%	100.0%	100.0%	\$2,895,619	\$0	\$2,895,619
1996/97	228.0	100.0%	100.0%	100.0%	311,221	0	311,221
1997/98	216.0	100.0%	100.0%	100.0%	1,096,413	0	1,096,413
1998/99	204.0	100.0%	100.0%	100.0%	256,471	0	256,471
1999/00	192.0	100.0%	100.0%	100.0%	1,636,116	0	1,636,116
2000/01	180.0	100.0%	100.0%	100.0%	692,872	0	692,872
2001/02	168.0	100.0%	100.0%	100.0%	242,675	0	242,675
2002/03	156.0	100.0%	100.0%	100.0%	428,613	0	428,613
2003/04	144.0	100.0%	100.0%	100.0%	35,161	0	35,161
2004/05	132.0	100.0%	100.0%	100.0%	222,376	0	222,376
2005/06	120.0	100.0%	100.0%	100.0%	170,347	0	170,347
2006/07	108.0	100.0%	100.0%	100.0%	117,830	0	117,830
2007/08	96.0	100.0%	100.0%	100.0%	446,995	0	446,995
2008/09	84.0	100.0%	100.0%	100.0%	152,107	0	152,107
2009/10	72.0	98.5%	100.0%	100.0%	312,995	0	312,995
2010/11	60.0	94.3%	97.6%	57.4%	138,548	0	138,548
2011/12	48.0	75.4%	92.9%	71.2%	90,020	305,000	518,557
2012/13	36.0	49.5%	84.5%	69.3%	315,065	68,500	413,954
2013/14	24.0	20.6%	60.3%	50.0%	79,933	143,100	365,911
2014/15	12.0	5.4%	32.2%	28.3%	9,203	74,650	273,082

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

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



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Exhibit GL-6

Preliminary Projected Ultimate Limited Losses to 2014/15

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 1995/96	\$2,895,619	\$2,895,619	\$2,895,619	\$2,895,619
1996/97	311,221	311,221	311,221	311,221
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	317,689	312,995	312,995	312,995
2010/11	146,955	142,012	138,548	138,548
2011/12	119,352	425,140	518,557	441,270
2012/13	637,033	454,093	413,954	474,625
2013/14	387,881	369,660	365,911	371,804
2014/15	169,705	260,588	273,082	247,409
Total	\$10,483,431	\$10,669,304	\$10,727,862	\$10,691,467

(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.



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Exhibit GL-7

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 (2015/16 = 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)
2005/06	\$170,347	\$1,357,723	\$0.13	1.480	\$0.19	\$0.18
2006/07	117,830	1,243,144	0.09	1.423	0.13	0.19
2007/08	446,995	1,207,801	0.37	1.369	0.51	0.20
2008/09	152,107	1,303,812	0.12	1.316	0.15	0.21
2009/10	312,995	1,287,986	0.24	1.265	0.31	0.22
2010/11	138,548	1,293,078	0.11	1.217	0.13	0.22
2011/12	441,270	1,331,769	0.33	1.170	0.39	0.23
2012/13	474,625	1,285,791	0.37	1.125	0.42	0.24
2013/14	371,804	1,308,017	0.28	1.082	0.31	0.25
2014/15	247,409	1,308,017	0.19	1.040	0.20	0.26

(7) Projected 2015/16 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 11/30/15 (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)
2010/11	\$138,548	94.3%	\$0.22	\$1,293,078	\$16,570	\$155,118
2011/12	90,020	75.4%	0.23	1,331,769	76,253	166,273
2012/13	315,065	49.5%	0.24	1,285,791	157,459	472,523
2013/14	79,933	20.6%	0.25	1,308,017	261,680	341,613
2014/15	9,203	5.4%	0.26	1,308,017	324,198	333,401

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (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)
2010/11	\$138,548	97.6%	\$0.22	\$1,293,078	\$7,065	\$145,613
2011/12	395,020	92.9%	0.23	1,331,769	21,982	417,002
2012/13	383,565	84.5%	0.24	1,285,791	48,387	431,952
2013/14	223,033	60.3%	0.25	1,308,017	130,739	353,771
2014/15	83,853	32.2%	0.26	1,308,017	232,484	316,337

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).



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Exhibit GL-8

Frequency Times Severity Analysis

I. Projected Ultimate Claims

Claim Period (1)	Months of Development 11/30/15 (2)	Reported Claims 11/30/15 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Revenue (000) (6)	Frequency (per \$1M of Revenue) (5)/(6)X1,000 (7)
2005/06	120.0	40	100.0%	40	\$1,357,723	0.03
2006/07	108.0	49	100.0%	49	1,243,144	0.04
2007/08	96.0	212	100.0%	212	1,207,801	0.18
2008/09	84.0	142	100.0%	142	1,303,812	0.11
2009/10	72.0	68	100.0%	68	1,287,986	0.05
2010/11	60.0	48	100.0%	48	1,293,078	0.04
2011/12	48.0	52	100.0%	52	1,331,769	0.04
2012/13	36.0	68	100.0%	68	1,285,791	0.05
2013/14	24.0	222	100.0%	222	1,308,017	0.17
2014/15	12.0	41	98.0%	42	1,308,017	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 (2015/16 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2015/16 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2005/06	\$170,347	40	\$4,259	1.480	\$6,304	\$3,315	\$132,611
2006/07	117,830	49	2,405	1.423	3,423	3,448	168,946
2007/08	446,995	212	2,108	1.369	2,886	3,586	760,187
2008/09	152,107	142	1,071	1.316	1,410	3,729	529,549
2009/10	312,995	68	4,603	1.265	5,824	3,878	263,730
2010/11	138,548	48	2,886	1.217	3,512	4,034	193,609
2011/12	441,270	52	8,486	1.170	9,927	4,195	218,133
2012/13	474,625	68	6,980	1.125	7,851	4,363	296,661
2013/14	371,804	222	1,675	1.082	1,811	4,537	1,007,251
2014/15	247,409	42	5,891	1.040	6,126	4,719	198,183
(7) Projected 2015/16 average claim severity					\$4,907		

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.



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Exhibit GL-9

Projected Ultimate Limited Losses to 2014/15

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 1995/96	\$2,895,619	\$2,895,619	\$2,895,619				\$2,895,619	\$2,895,619
1996/97	311,221	311,221	311,221				311,221	311,221
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	317,689	312,995	312,995				350,000	312,995
2010/11	146,955	142,012	138,548	155,118	145,613	193,609	200,000	138,548
2011/12	119,352	425,140	518,557	166,273	417,002	218,133	500,000	450,000
2012/13	637,033	454,093	413,954	472,523	431,952	296,661	700,000	600,000
2013/14	387,881	369,660	365,911	341,613	353,771	1,007,251	500,000	500,000
2014/15	169,705	260,588	273,082	333,401	316,337	198,183	405,000	400,000
Sum	\$10,483,431	\$10,669,304	\$10,727,862				\$11,359,816	\$11,106,359
2010/11 - 2014/15	1,460,926	1,651,493	1,710,052	1,468,928	1,664,676	1,913,838	2,305,000	2,088,548
to 2009/10	9,022,505	9,017,810	9,017,810				9,054,816	9,017,810
						Change		
						All years		-\$253,457
						2010/11 - 2014/15		-216,452
						to 2009/10		-37,006

(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 from prior actuarial study.

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



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Exhibit GL-10

Projected Ultimate Limited Losses for 2015/16 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 (2015/16 = 1.000) (5)	Trended Limited Loss Rate per \$1,000 of Revenue (4)X(5) (6)
2005/06	\$170,347	\$1,357,723	\$0.13	1.480	\$0.19
2006/07	117,830	1,243,144	0.09	1.423	0.13
2007/08	446,995	1,207,801	0.37	1.369	0.51
2008/09	152,107	1,303,812	0.12	1.316	0.15
2009/10	312,995	1,287,986	0.24	1.265	0.31
2010/11	138,548	1,293,078	0.11	1.217	0.13
2011/12	450,000	1,331,769	0.34	1.170	0.40
2012/13	600,000	1,285,791	0.47	1.125	0.52
2013/14	500,000	1,308,017	0.38	1.082	0.41
2014/15	400,000	1,308,017	0.31	1.040	0.32
Total	\$3,288,821	\$12,927,138	\$0.25		\$0.31

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)
2015/16	\$0.31	\$1,308,017	\$402,000	0.95	\$0.29	\$382,000
2016/17	0.32	1,308,017	418,000	0.95	0.30	397,000
2017/18	0.33	1,308,017	434,000	0.95	0.32	413,000

(2) is from Exhibit GL-9.

(3) 2005/06, 2006/07, 2007/08, 2008/09, 2009/10, 2010/11, 2011/12, 2012/13 and 2013/14 were provided by the County. Other periods assume a 0% trend.

(5) is based on a 4% trend.

(7) 2015/16 is based on (6) and actuarial judgment.
Other period(s) based on 2015/16 plus a 4% trend.

(8) is based on (3) for 2014/15 and a 0% trend.

(10) is based on a 1.68% 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, 2015

Claim Period (1)	Limited Paid Losses 11/30/15 (2)	Limited Case Reserves 11/30/15 (3)	Limited Reported Incurred Losses 11/30/15 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/15 (5)-(4) (6)	Estimated Outstanding Losses 11/30/15 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/15 (7)X(8) (9)
to 1995/96	\$2,895,619	\$0	\$2,895,619	\$2,895,619	\$0	\$0	1.00	\$0
1996/97	311,221	0	311,221	311,221	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	0.99	0
2010/11	138,548	0	138,548	138,548	0	0	0.99	0
2011/12	90,020	305,000	395,020	450,000	54,980	359,980	0.99	355,272
2012/13	315,065	68,500	383,565	600,000	216,435	284,935	0.98	279,649
2013/14	79,933	143,100	223,033	500,000	276,967	420,067	0.97	409,504
2014/15	9,203	74,650	83,853	400,000	316,147	390,797	0.96	376,743
Total	\$9,650,579	\$591,250	\$10,241,829	\$11,106,359	\$864,529	\$1,455,779		\$1,421,168

(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 1.68% interest rate and the payout pattern in Exhibit GL-2.



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Exhibit GL-12

Projected Losses Paid December 1, 2015 to November 30, 2016

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Months of Development 11/30/16 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/15 to 11/30/16 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/15 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/16 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/16 (9)X(10) (11)
to 1995/96	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1996/97	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1997/98	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
1998/99	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	84.0	100.0%	96.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	72.0	98.5%	84.0	100.0%	100.0%	0	0	0	1.00	0
2010/11	60.0	94.3%	72.0	98.5%	74.2%	0	0	0	0.99	0
2011/12	48.0	75.4%	60.0	94.3%	76.7%	359,980	276,191	83,789	0.99	82,739
2012/13	36.0	49.5%	48.0	75.4%	51.4%	284,935	146,383	138,552	0.99	136,740
2013/14	24.0	20.6%	36.0	49.5%	36.3%	420,067	152,649	267,418	0.98	262,457
2014/15	12.0	5.4%	24.0	20.6%	16.1%	390,797	62,743	328,054	0.97	319,804
2015/16	0.0	0.0%	12.0	5.4%	5.4%	402,000	21,801	380,199	0.96	366,526
Total						\$1,857,779	\$659,767	\$1,198,012		\$1,168,266

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

(7) to 2014/15 is from Exhibit GL-11. The amount for 2015/16 is from Exhibit GL-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit GL-2.



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Exhibit GL-13

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 1995/96	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	83,789	62,143	21,646	0.99	21,466
2012/13	48.0	75.4%	60.0	94.3%	76.7%	138,552	106,302	32,250	0.99	31,846
2013/14	36.0	49.5%	48.0	75.4%	51.4%	267,418	137,384	130,034	0.99	128,333
2014/15	24.0	20.6%	36.0	49.5%	36.3%	328,054	119,212	208,842	0.98	204,968
2015/16	12.0	5.4%	24.0	20.6%	16.1%	380,199	61,042	319,157	0.97	311,131
2016/17	0.0	0.0%	12.0	5.4%	5.4%	418,000	22,668	395,332	0.96	381,115
Total						\$1,616,012	\$508,751	\$1,107,261		\$1,078,859

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

(7) to 2015/16 is from Exhibit GL-12, (9). The amount for 2016/17 is from Exhibit GL-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit GL-2.



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Exhibit GL-14

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 1995/96	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	21,646	21,646	0	1.00	0
2012/13	60.0	94.3%	72.0	98.5%	74.2%	32,250	23,918	8,332	0.99	8,263
2013/14	48.0	75.4%	60.0	94.3%	76.7%	130,034	99,767	30,267	0.99	29,888
2014/15	36.0	49.5%	48.0	75.4%	51.4%	208,842	107,291	101,551	0.99	100,223
2015/16	24.0	20.6%	36.0	49.5%	36.3%	319,157	115,979	203,178	0.98	199,409
2016/17	12.0	5.4%	24.0	20.6%	16.1%	395,332	63,471	331,861	0.97	323,516
2017/18	0.0	0.0%	12.0	5.4%	5.4%	434,000	23,536	410,464	0.96	395,703
Total						\$1,541,261	\$455,608	\$1,085,653		\$1,057,002

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

(7) to 2016/17 is from Exhibit GL-13, (9). The amount for 2017/18 is from Exhibit GL-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit GL-2.



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Exhibit GL-15

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

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/15 (5)	Unlimited Case Reserves 11/30/15 (6)	Unlimited Reported Incurred Losses 11/30/15 (7)
97003515	6/9/2000	1999/00	Unlimited	\$925,000	\$0	\$925,000
97010274	3/19/2012	2011/12	10,000,000	0	250,000	250,000

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.



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Data Summary as of November 30, 2015
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Vehicles (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Limited Paid Losses 11/30/15 (8)	Limited Case Reserves 11/30/15 (9)	Limited Reported Incurred Losses 11/30/15 (10)
to 1995/96	See Note	None	240.0	Not Provided	42	0	\$3,816,945	\$0	\$3,816,945
1996/97	Unlimited	None	228.0	Not Provided	38	0	119,841	0	119,841
1997/98	Unlimited	None	216.0	Not Provided	91	0	187,959	0	187,959
1998/99	Unlimited	None	204.0	Not Provided	104	0	479,494	0	479,494
1999/00	Unlimited	None	192.0	Not Provided	93	0	559,093	0	559,093
2000/01	9,500,000	40,000,000	180.0	Not Provided	93	0	9,770,712	0	9,770,712
2001/02	9,500,000	40,000,000	168.0	2,283	80	0	2,497,705	0	2,497,705
2002/03	9,500,000	45,000,000	156.0	2,283	58	0	213,389	0	213,389
2003/04	10,000,000	None	144.0	1,997	81	0	385,312	0	385,312
2004/05	10,000,000	25,000,000	132.0	1,997	72	0	2,832,890	0	2,832,890
2005/06	10,000,000	25,000,000	120.0	1,780	65	0	171,088	0	171,088
2006/07	10,000,000	25,000,000	108.0	Not Provided	72	0	634,042	0	634,042
2007/08	10,000,000	25,000,000	96.0	Not Provided	57	0	128,155	0	128,155
2008/09	10,000,000	25,000,000	84.0	Not Provided	44	0	175,055	0	175,055
2009/10	10,000,000	25,000,000	72.0	Not Provided	55	2	828,345	6,020,000	6,848,345
2010/11	10,000,000	25,000,000	60.0	2,071	61	0	808,599	0	808,599
2011/12	10,000,000	25,000,000	48.0	1,837	67	2	201,959	260,000	461,959
2012/13	15,000,000	25,000,000	36.0	1,892	49	3	171,949	100,000	271,949
2013/14	15,000,000	25,000,000	24.0	1,921	69	9	218,397	1,087,500	1,305,897
2014/15	15,000,000	25,000,000	12.0	2,022	51	33	34,973	102,300	137,273
Total					1,342	49	\$24,235,902	\$7,569,800	\$31,805,702

* 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.



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Exhibit AL-1 (page 2)

Data Summary as of November 30, 2015
Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Vehicles (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Unlimited Paid Losses 11/30/15 (8)	Unlimited Case Reserves 11/30/15 (9)	Unlimited Reported Incurred Losses 11/30/15 (10)
to 1995/96	Unlimited	None	240.0	Not Provided	42	0	\$3,816,945	\$0	\$3,816,945
1996/97	Unlimited	None	228.0	Not Provided	38	0	119,841	0	119,841
1997/98	Unlimited	None	216.0	Not Provided	91	0	187,959	0	187,959
1998/99	Unlimited	None	204.0	Not Provided	104	0	479,494	0	479,494
1999/00	Unlimited	None	192.0	Not Provided	93	0	559,093	0	559,093
2000/01	Unlimited	40,000,000	180.0	Not Provided	93	0	9,770,712	0	9,770,712
2001/02	Unlimited	40,000,000	168.0	2,283	80	0	2,497,705	0	2,497,705
2002/03	Unlimited	45,000,000	156.0	2,283	58	0	213,389	0	213,389
2003/04	Unlimited	None	144.0	1,997	81	0	385,312	0	385,312
2004/05	Unlimited	25,000,000	132.0	1,997	72	0	2,832,890	0	2,832,890
2005/06	Unlimited	25,000,000	120.0	1,780	65	0	171,088	0	171,088
2006/07	Unlimited	25,000,000	108.0	Not Provided	72	0	634,042	0	634,042
2007/08	Unlimited	25,000,000	96.0	Not Provided	57	0	128,155	0	128,155
2008/09	Unlimited	25,000,000	84.0	Not Provided	44	0	175,055	0	175,055
2009/10	Unlimited	25,000,000	72.0	Not Provided	55	2	828,345	6,020,000	6,848,345
2010/11	Unlimited	25,000,000	60.0	2,071	61	0	808,599	0	808,599
2011/12	Unlimited	25,000,000	48.0	1,837	67	2	201,959	260,000	461,959
2012/13	Unlimited	25,000,000	36.0	1,892	49	3	171,949	100,000	271,949
2013/14	Unlimited	25,000,000	24.0	1,921	69	9	218,397	1,087,500	1,305,897
2014/15	Unlimited	25,000,000	12.0	2,022	51	33	34,973	102,300	137,273
Total					1,342	49	\$24,235,902	\$7,569,800	\$31,805,702

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

Data was provided by the County.



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

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)	Months of Development (5)	Percent Losses Paid (6)	Percent Losses Reported (7)	Percent Claims Reported (8)
360.0	100.0%	100.0%	100.0%	354.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%	342.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%	330.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%	318.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%	306.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%	294.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%	282.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%	270.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%	258.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%	246.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%	234.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%	222.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%	210.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%	198.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%	186.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%	174.0	100.0%	100.0%	100.0%
168.0	100.0%	100.0%	100.0%	162.0	100.0%	100.0%	100.0%
156.0	100.0%	100.0%	100.0%	150.0	100.0%	100.0%	100.0%
144.0	100.0%	100.0%	100.0%	138.0	100.0%	100.0%	100.0%
132.0	100.0%	100.0%	100.0%	126.0	100.0%	100.0%	100.0%
120.0	100.0%	100.0%	100.0%	114.0	100.0%	100.0%	100.0%
108.0	100.0%	100.0%	100.0%	102.0	100.0%	100.0%	100.0%
96.0	100.0%	100.0%	100.0%	90.0	99.5%	100.0%	100.0%
84.0	99.0%	100.0%	100.0%	78.0	98.0%	100.0%	100.0%
72.0	97.1%	100.0%	100.0%	66.0	94.8%	99.5%	100.0%
60.0	92.4%	99.0%	100.0%	54.0	89.2%	97.6%	100.0%
48.0	86.0%	96.1%	100.0%	42.0	78.8%	90.8%	100.0%
36.0	71.7%	85.4%	100.0%	30.0	58.2%	75.6%	100.0%
24.0	44.8%	65.7%	100.0%	18.0	30.0%	51.9%	99.0%
12.0	15.2%	38.1%	98.0%	6.0	7.6%	19.1%	49.0%

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

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

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

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



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

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

Claim Period	Months of Development:																			
	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1995/06				\$3,236	\$3,702	\$3,787	\$3,812	\$3,813	\$3,815	\$3,815	\$3,815	\$3,815	\$3,815	\$3,817	\$3,817	\$3,817	\$3,817	\$3,817	\$3,817	\$3,817
1996/07	24	71	113	113	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
1997/08	47	114	165	188	188	188	188	188	188	188	188	188	188	188	188	188	188	188	188	188
1998/09	49	174	326	473	473	479	479	479	479	479	479	479	479	479	479	479	479	479	479	479
1999/00	57	137	196	221	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266
2000/01	38	192	253	308	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358
2001/02	32	143	181	217	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249
2002/03	23	76	125	178	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213
2003/04	50	141	246	256	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355
2004/05	61	159	353	2,333	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833
2005/06	61	136	164	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171
2006/07	33	96	200	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234
2007/08	30	78	101	122	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
2008/09	43	73	163	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173
2009/10	19	67	95	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
2010/11	42	132	234	809	809	809	809	809	809	809	809	809	809	809	809	809	809	809	809	809
2011/12	40	125	157	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202
2012/13	35	103	172																	
2013/14	78	218																		
2014/15	35																			

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 1995/06					1,144	1,023	1,007	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
1996/07	2,970	1,255	1,264	1,000	1,057	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1997/08	2,416	1,449	1,079	1,059	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1998/09	3,541	1,862	1,369	1,059	1,013	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1999/00	2,406	1,426	1,125	1,840	1,377	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2000/01	5,114	1,318	1,050	1,000	22,649	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2001/02	4,491	1,271	1,199	3,944	1,000	2,914	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2002/03	3,262	1,645	1,423	1,196	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2003/04	2,809	1,749	1,039	1,387	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2004/05	2,605	2,220	6,611	1,214	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2005/06	2,228	1,210	1,042	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2006/07	2,932	2,087	1,170	1,000	1,000	1,000	1,000	1,000	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	2,650	1,294	2,029	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2008/09	1,698	2,250	1,061	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2009/10	3,603	1,407	1,090	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2010/11	3,124	1,765	3,461	1,000	8,015	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2011/12	3,121	1,259	1,287	1,000																
2012/13	2,905	1,673																		
2013/14	2,814																			
2014/15																				

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

1,598	1,655	1,313	2,953	1,139	1,139	1,139	1,000	1,000	1,000	1,000	1,069	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2,915	1,563	2,295	2,831	1,003	1,760	1,760	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2,947	1,566	1,946	3,354	1,003	1,570	1,570	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
3,050	1,615	1,195	1,016	1,000	1,026	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

2,135	1,443	1,234	1,048	1,021	1,010	1,004	1,000	1,002	1,002	1,002	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001
2,950	1,600	1,175	1,075	1,050	1,020	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2,950	1,600	1,200	1,075	1,050	1,020	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
6,586	2,233	1,395	1,163	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
15.2%	44.8%	71.7%	86.0%	92.4%	97.1%	99.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

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



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

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

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 1995/06					\$3,692	\$4,105	\$3,812	\$3,814	\$4,615	\$3,815	\$3,815	\$3,815	\$3,815	\$3,818	\$3,817	\$3,817	\$3,817	\$3,817	\$3,817	\$3,817	\$3,817
1996/07	285	1,113	120	133	133	120	188	188	188	188	188	188	188	188	188	188	188	188	188	188	188
1997/08	224	230	450	285	253	188	479	479	479	479	479	479	479	479	479	479	479	479	479	479	479
1998/09	280	631	701	634	558	479	559	559	559	559	559	559	559	559	559	559	559	559	559	559	559
1999/00	218	312	416	469	607	559	559	559	559	559	559	559	559	559	559	559	559	559	559	559	559
2000/01	2,168	2,406	2,873	3,025	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	320	238	213	221	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213
2003/04	163	361	339	571	505	405	455	385	385	385	385	385	385	385	385	385	385	385	385	385	385
2004/05	277	614	2,824	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833
2005/06	204	250	207	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171
2006/07	160	263	633	834	834	834	834	834	834	834	834	834	834	834	834	834	834	834	834	834	834
2007/08	132	155	131	122	130	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
2008/09	132	164	184	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173
2009/10	618	381	2,725	6,473	6,973	6,848	6,848	6,848	6,848	6,848	6,848	6,848	6,848	6,848	6,848	6,848	6,848	6,848	6,848	6,848	6,848
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																	
2012/13	213	334	272																		
2013/14	740	1,306																			
2014/15	137																				

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 1995/06					1,112	0,929	1,001	1,210	0,827	1,000	1,000	1,000	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
1996/07	3,907	0,107	1,115	1,000	0,899	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
1997/08	1,291	1,554	0,634	0,886	0,743	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
1998/09	2,170	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	
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	
2000/01	1,100	1,194	1,053	3,233	2,661	1,000	1,000	1,000	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	
2002/03	1,984	0,656	0,744	0,895	1,035	0,966	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
2003/04	2,215	4,596	1,665	0,885	0,802	1,123	0,846	1,000	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	
2005/06	1,229	0,828	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	
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	
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	
2008/09	1,246	1,123	0,940	1,000	1,000	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	
2009/10	0,617	7,154	2,376	1,077	0,982																
2010/11	1,659	1,353	1,574	1,000																	
2011/12	2,187	2,098	0,606																		
2012/13	1,572	0,814																			
2013/14	1,764																				
2014/15																					

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

1,747	1,839	1,158	1,178	1,107	0,977	0,925	0,984	0,984	0,984	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1,790	1,437	1,936	1,067	0,983	1,134	0,727	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1,841	1,422	1,519	1,026	0,989	1,063	0,861	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1,665	1,525	1,149	1,020	0,995	1,003	0,949	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1,388	1,152	1,072	1,030	1,011	1,005	1,002	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001
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
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
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	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
to 1995/06																					
1996/07		38	38	38	38	38	38	42	43	42	42	42	42	42	42	42	42	42	42	42	42
1997/08	88	99	96	84	93	91	91	36	38	38	38	38	38	38	36	36	38	38	38	38	38
1998/09	119	110	106	104	105	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
1999/00	90	89	94	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
2000/01	112	94	94	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
2001/02	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
2002/03	53	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
2003/04	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
2004/05	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
2005/06	59	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72
2006/07	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57
2007/08	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
2008/09	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
2009/10	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
2010/11	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
2011/12	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
2012/13	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
2013/14	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
2014/15																					

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 1995/06																				
1996/07		1.000	1.000	1.000	1.000	1.000	1.000	1.024	0.977	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1997/08	1.125	0.970	0.979	0.989	0.978	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1998/09	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
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
2000/01	0.839	1.000	0.989	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	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
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
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
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	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	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
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
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
2009/10	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2010/11	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2011/12	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	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
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
2014/15																				
Average All	1.011	1.000	0.995	1.000	0.998	1.000	1.000	1.002	0.998	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
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
Last 5	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	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																				
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
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
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
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
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%

Data was provided by the County.



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Historical Ratio of Limited Paid Losses and Limited Reported Incurred Losses

Claim Period	Months of Development:																					
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240		
to 1995/06																						
1996/07	8.4%	6.4%	74.9%	85.0%	87.6%	90.2%	99.3%	99.9%	82.6%	100.0%	100.0%	100.0%	100.0%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1997/08	20.9%	39.2%	36.6%	62.2%	85.0%	100.0%	100.0%	100.0%	100.0%	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	16.9%	27.5%	46.5%	70.5%	74.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
1999/00	20.6%	44.1%	47.2%	46.2%	84.8%	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%	
2000/01	1.7%	8.0%	8.6%	8.6%	2.7%	23.1%	23.1%	42.9%	61.6%	61.6%	61.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2001/02	13.6%	33.8%	13.6%	9.9%	25.9%	16.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2002/03	9.5%	15.6%	39.1%	74.8%	100.0%	96.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2003/04	30.8%	38.0%	72.7%	44.8%	70.3%	87.7%	78.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2004/05	22.0%	25.9%	12.5%	82.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2005/06	29.9%	54.2%	78.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2006/07	20.4%	36.4%	31.6%	28.1%	28.1%	28.1%	23.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2007/08	32.5%	50.5%	77.1%	100.0%	94.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2008/09	32.5%	44.2%	88.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2009/10	3.0%	17.7%	3.5%	1.6%	1.5%	12.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2010/11	18.5%	34.9%	46.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2011/12	24.1%	34.3%	20.6%	43.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2012/13	16.6%	30.7%	63.2%	43.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
2013/14	10.5%	16.7%																				
2014/15	25.5%																					
Average																						
All	18.8%	31.1%	44.8%	59.8%	70.1%	76.9%	87.4%	95.6%	95.4%	96.5%	96.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Last 3	17.5%	27.3%	43.1%	48.4%	67.2%	70.7%	74.6%	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%	
Last 5	19.7%	27.6%	43.1%	81.2%	74.1%	76.0%	100.0%	100.0%	100.0%	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	39.8%	68.1%	83.9%	89.5%	93.4%	97.1%	99.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Exhibit AL-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Paid Losses 11/30/15 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1995/96	240.0	\$3,816,945	100.0%	\$3,816,945
1996/97	228.0	119,841	100.0%	119,841
1997/98	216.0	187,959	100.0%	187,959
1998/99	204.0	479,494	100.0%	479,494
1999/00	192.0	559,093	100.0%	559,093
2000/01	180.0	9,770,712	100.0%	9,770,712
2001/02	168.0	2,497,705	100.0%	2,497,705
2002/03	156.0	213,389	100.0%	213,389
2003/04	144.0	385,312	100.0%	385,312
2004/05	132.0	2,832,890	100.0%	2,832,890
2005/06	120.0	171,088	100.0%	171,088
2006/07	108.0	634,042	100.0%	634,042
2007/08	96.0	128,155	100.0%	128,155
2008/09	84.0	175,055	99.0%	176,805
2009/10	72.0	828,345	97.1%	853,361
2010/11	60.0	808,599	92.4%	874,670
2011/12	48.0	201,959	86.0%	234,846
2012/13	36.0	171,949	71.7%	239,939
2013/14	24.0	218,397	44.8%	487,604
2014/15	12.0	34,973	15.2%	230,341

(3) is from Exhibit AL-1.

(4) is from Exhibit AL-2.



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Exhibit AL-4

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1995/96	240.0	\$3,816,945	100.0%	\$3,816,945
1996/97	228.0	119,841	100.0%	119,841
1997/98	216.0	187,959	100.0%	187,959
1998/99	204.0	479,494	100.0%	479,494
1999/00	192.0	559,093	100.0%	559,093
2000/01	180.0	9,770,712	100.0%	9,770,712
2001/02	168.0	2,497,705	100.0%	2,497,705
2002/03	156.0	213,389	100.0%	213,389
2003/04	144.0	385,312	100.0%	385,312
2004/05	132.0	2,832,890	100.0%	2,832,890
2005/06	120.0	171,088	100.0%	171,088
2006/07	108.0	634,042	100.0%	634,042
2007/08	96.0	128,155	100.0%	128,155
2008/09	84.0	175,055	100.0%	175,055
2009/10	72.0	6,848,345	100.0%	6,848,345
2010/11	60.0	808,599	99.0%	816,685
2011/12	48.0	461,959	96.1%	480,576
2012/13	36.0	271,949	85.4%	318,272
2013/14	24.0	1,305,897	65.7%	1,986,842
2014/15	12.0	137,273	38.1%	360,269

(3) is from Exhibit AL-1.

(4) is from Exhibit AL-2.



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Exhibit AL-5

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/15 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/15 (6)	Limited Case Reserves 11/30/15 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1995/96	240.0	100.0%	100.0%	100.0%	\$3,816,945	\$0	\$3,816,945
1996/97	228.0	100.0%	100.0%	100.0%	119,841	0	119,841
1997/98	216.0	100.0%	100.0%	100.0%	187,959	0	187,959
1998/99	204.0	100.0%	100.0%	100.0%	479,494	0	479,494
1999/00	192.0	100.0%	100.0%	100.0%	559,093	0	559,093
2000/01	180.0	100.0%	100.0%	100.0%	9,770,712	0	9,770,712
2001/02	168.0	100.0%	100.0%	100.0%	2,497,705	0	2,497,705
2002/03	156.0	100.0%	100.0%	100.0%	213,389	0	213,389
2003/04	144.0	100.0%	100.0%	100.0%	385,312	0	385,312
2004/05	132.0	100.0%	100.0%	100.0%	2,832,890	0	2,832,890
2005/06	120.0	100.0%	100.0%	100.0%	171,088	0	171,088
2006/07	108.0	100.0%	100.0%	100.0%	634,042	0	634,042
2007/08	96.0	100.0%	100.0%	100.0%	128,155	0	128,155
2008/09	84.0	99.0%	100.0%	100.0%	175,055	0	175,055
2009/10	72.0	97.1%	100.0%	100.0%	828,345	6,020,000	6,848,345
2010/11	60.0	92.4%	99.0%	86.9%	808,599	0	808,599
2011/12	48.0	86.0%	96.1%	72.3%	201,959	260,000	561,391
2012/13	36.0	71.7%	85.4%	48.6%	171,949	100,000	377,557
2013/14	24.0	44.8%	65.7%	37.9%	218,397	1,087,500	3,086,040
2014/15	12.0	15.2%	38.1%	27.0%	34,973	102,300	413,545

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

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



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Exhibit AL-6

Preliminary Projected Ultimate Limited Losses to 2014/15

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 1995/96	\$3,816,945	\$3,816,945	\$3,816,945	\$3,816,945
1996/97	119,841	119,841	119,841	119,841
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	176,805	175,055	175,055	175,055
2009/10	853,361	6,848,345	6,848,345	7,450,345
2010/11	874,670	816,685	808,599	808,599
2011/12	234,846	480,576	561,391	496,411
2012/13	239,939	318,272	377,557	326,320
2013/14	487,604	1,986,842	3,086,040	2,126,674
2014/15	230,341	360,269	413,545	355,594
Total	\$24,894,190	\$32,782,670	\$34,067,156	\$33,535,621

(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.



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Exhibit AL-7

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 (2015/16 = 1.000) (5)	Trended Limited Loss Rate per Vehicle (4)X(5) (6)	Projected A-priori Loss Rate per Vehicle (7)/(5) (8)
2005/06	\$171,088	1,780	\$96.12	1.411	\$135.58	\$558.42
2006/07	634,042	1,926	329.29	1.363	448.78	577.96
2007/08	128,155	1,926	66.56	1.317	87.64	598.19
2008/09	175,055	1,926	90.91	1.272	115.67	619.13
2009/10	7,450,345	1,926	3,869.30	1.229	4,756.36	640.80
2010/11	808,599	2,071	390.44	1.188	463.72	663.22
2011/12	496,411	1,837	270.23	1.148	310.09	686.44
2012/13	326,320	1,892	172.47	1.109	191.22	710.46
2013/14	2,126,674	1,921	1,107.07	1.071	1,185.92	735.33
2014/15	355,594	2,022	175.86	1.035	182.02	761.06

(7) Projected 2015/16 a-priori loss rate per Vehicle \$787.70

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/15 (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)
2010/11	\$808,599	92.4%	\$663.22	2,071	\$103,754	\$912,353
2011/12	201,959	86.0%	686.44	1,837	176,582	378,541
2012/13	171,949	71.7%	710.46	1,892	380,894	552,843
2013/14	218,397	44.8%	735.33	1,921	779,879	998,276
2014/15	34,973	15.2%	761.06	2,022	1,305,224	1,340,197

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (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)
2010/11	\$808,599	99.0%	\$663.22	2,071	\$13,599	\$822,199
2011/12	461,959	96.1%	686.44	1,837	48,849	510,808
2012/13	271,949	85.4%	710.46	1,892	195,641	467,591
2013/14	1,305,897	65.7%	735.33	1,921	484,124	1,790,021
2014/15	137,273	38.1%	761.06	2,022	952,519	1,089,791

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 11/30/15 (2)	Reported Claims 11/30/15 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Vehicles (6)	Frequency (per Vehicle) (5)/(6) (7)
2005/06	120.0	65	100.0%	65	1,780	0.04
2006/07	108.0	72	100.0%	72	1,926	0.04
2007/08	96.0	57	100.0%	57	1,926	0.03
2008/09	84.0	44	100.0%	44	1,926	0.02
2009/10	72.0	55	100.0%	55	1,926	0.03
2010/11	60.0	61	100.0%	61	2,071	0.03
2011/12	48.0	67	100.0%	67	1,837	0.04
2012/13	36.0	49	100.0%	49	1,892	0.03
2013/14	24.0	69	100.0%	69	1,921	0.04
2014/15	12.0	51	98.0%	52	2,022	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 (2015/16 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2015/16 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2005/06	\$171,088	65	\$2,632	1.411	\$3,713	\$18,572	\$1,207,182
2006/07	634,042	72	8,806	1.363	12,002	19,222	1,383,987
2007/08	128,155	57	2,248	1.317	2,961	19,895	1,134,004
2008/09	175,055	44	3,979	1.272	5,062	20,591	906,010
2009/10	7,450,345	55	135,461	1.229	166,516	21,312	1,172,150
2010/11	808,599	61	13,256	1.188	15,744	22,058	1,345,522
2011/12	496,411	67	7,409	1.148	8,502	22,830	1,529,594
2012/13	326,320	49	6,660	1.109	7,384	23,629	1,157,811
2013/14	2,126,674	69	30,821	1.071	33,017	24,456	1,687,451
2014/15	355,594	52	6,838	1.035	7,078	25,312	1,316,212
(7) Projected 2015/16 average claim severity						\$26,198	

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.



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Exhibit AL-9

Projected Ultimate Limited Losses to 2014/15

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 1995/96	\$3,816,945	\$3,816,945	\$3,816,945				\$3,816,945	\$3,816,945
1996/97	119,841	119,841	119,841				119,841	119,841
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	176,805	175,055	175,055				173,300	175,055
2009/10	853,361	6,848,345	6,848,345				7,250,000	7,000,000
2010/11	874,670	816,685	808,599	912,353	822,199	1,345,522	900,000	808,599
2011/12	234,846	480,576	561,391	378,541	510,808	1,529,594	1,000,000	700,000
2012/13	239,939	318,272	377,557	552,843	467,591	1,157,811	1,000,000	800,000
2013/14	487,604	1,986,842	3,086,040	998,276	1,790,021	1,687,451	1,650,000	1,650,000
2014/15	230,341	360,269	413,545	1,340,197	1,089,791	1,316,212	1,608,000	1,200,000
Sum	\$24,894,190	\$32,782,670	\$34,067,156				\$35,377,924	\$34,130,279
2010/11 - 2014/15	2,067,400	3,962,646	5,247,132	4,182,211	4,680,410	7,036,589	6,158,000	5,158,599
to 2009/10	22,826,791	28,820,024	28,820,024				29,219,924	28,971,679
						Change		
						All years		-\$1,247,646
						2010/11 - 2014/15		-999,401
						to 2009/10		-248,245

(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 from prior actuarial study.

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



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Exhibit AL-10

Projected Ultimate Limited Losses for 2015/16 and Subsequent

Claim Period (1)	Projected Ultimate Limited Losses (2)	Vehicles (3)	Limited Loss Rate per Vehicle (2)/(3) (4)	Loss Rate Trend (2015/16 = 1.000) (5)	Trended Limited Loss Rate per Vehicle (4)X(5) (6)
2005/06	\$171,088	1,780	\$96.12	1.411	\$135.58
2006/07	634,042	1,926	329.29	1.363	448.78
2007/08	128,155	1,926	66.56	1.317	87.64
2008/09	175,055	1,926	90.91	1.272	115.67
2009/10	7,000,000	1,926	3,635.42	1.229	4,468.86
2010/11	808,599	2,071	390.44	1.188	463.72
2011/12	700,000	1,837	381.06	1.148	437.27
2012/13	800,000	1,892	422.83	1.109	468.80
2013/14	1,650,000	1,921	858.93	1.071	920.10
2014/15	1,200,000	2,022	593.47	1.035	614.24
Total	\$13,266,939	19,225	\$690.09		\$816.07

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)
2015/16	\$816.07	1,915	\$1,563,000	0.96	\$783.82	\$1,501,000
2016/17	844.63	1,915	1,617,000	0.96	811.26	1,554,000
2017/18	874.19	1,915	1,674,000	0.96	839.65	1,608,000

(2) is from Exhibit AL-9.

(3) 2005/06, 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 3.5% trend.

(7) 2015/16 is based on (6) and actuarial judgment.
Other period(s) based on 2015/16 plus a 3% trend.

(8) to 2015/16 was provided by the County. Other claim periods are based on a 0% trend.

(10) is based on a 1.68% 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, 2015

Claim Period (1)	Limited Paid Losses 11/30/15 (2)	Limited Case Reserves 11/30/15 (3)	Limited Reported Incurred Losses 11/30/15 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/15 (5)-(4) (6)	Estimated Outstanding Losses 11/30/15 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/15 (7)X(8) (9)
to 1995/96	\$3,816,945	\$0	\$3,816,945	\$3,816,945	\$0	\$0	1.00	\$0
1996/97	119,841	0	119,841	119,841	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	0.99	0
2009/10	828,345	6,020,000	6,848,345	7,000,000	151,655	6,171,655	0.99	6,086,303
2010/11	808,599	0	808,599	808,599	0	0	0.98	0
2011/12	201,959	260,000	461,959	700,000	238,041	498,041	0.98	487,269
2012/13	171,949	100,000	271,949	800,000	528,051	628,051	0.98	613,686
2013/14	218,397	1,087,500	1,305,897	1,650,000	344,103	1,431,603	0.98	1,397,154
2014/15	34,973	102,300	137,273	1,200,000	1,062,727	1,165,027	0.97	1,131,176
Total	\$24,235,902	\$7,569,800	\$31,805,702	\$34,130,279	\$2,324,577	\$9,894,377		\$9,715,588

(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 1.68% interest rate and the payout pattern in Exhibit AL-2.



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Exhibit AL-12

Projected Losses Paid December 1, 2015 to November 30, 2016

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Months of Development 11/30/16 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/15 to 11/30/16 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/15 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/16 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/16 (9)X(10) (11)
to 1995/96	240.0	100.0%	252.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
1996/97	228.0	100.0%	240.0	100.0%	100.0%	0	0	0	1.00	0
1997/98	216.0	100.0%	228.0	100.0%	100.0%	0	0	0	1.00	0
1998/99	204.0	100.0%	216.0	100.0%	100.0%	0	0	0	1.00	0
1999/00	192.0	100.0%	204.0	100.0%	100.0%	0	0	0	1.00	0
2000/01	180.0	100.0%	192.0	100.0%	100.0%	0	0	0	1.00	0
2001/02	168.0	100.0%	180.0	100.0%	100.0%	0	0	0	1.00	0
2002/03	156.0	100.0%	168.0	100.0%	100.0%	0	0	0	1.00	0
2003/04	144.0	100.0%	156.0	100.0%	100.0%	0	0	0	1.00	0
2004/05	132.0	100.0%	144.0	100.0%	100.0%	0	0	0	1.00	0
2005/06	120.0	100.0%	132.0	100.0%	100.0%	0	0	0	1.00	0
2006/07	108.0	100.0%	120.0	100.0%	100.0%	0	0	0	1.00	0
2007/08	96.0	100.0%	108.0	100.0%	100.0%	0	0	0	1.00	0
2008/09	84.0	99.0%	96.0	100.0%	100.0%	0	0	0	1.00	0
2009/10	72.0	97.1%	84.0	99.0%	66.2%	6,171,655	6,113,679 *	57,976	0.99	57,495
2010/11	60.0	92.4%	72.0	97.1%	61.2%	0	0	0	0.99	0
2011/12	48.0	86.0%	60.0	92.4%	46.1%	498,041	229,388	268,653	0.98	264,149
2012/13	36.0	71.7%	48.0	86.0%	50.6%	628,051	317,674	310,377	0.98	303,664
2013/14	24.0	44.8%	36.0	71.7%	48.7%	1,431,603	696,842	734,761	0.98	717,955
2014/15	12.0	15.2%	24.0	44.8%	34.9%	1,165,027	406,673	758,354	0.98	740,105
2015/16	0.0	0.0%	12.0	15.2%	15.2%	1,563,000	237,310	1,325,690	0.97	1,287,171
Total						\$11,457,377	\$8,001,566	\$3,455,811		\$3,370,539

* - adjusted to reflect large payment based on information provided by the County.

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

(7) to 2014/15 is from Exhibit AL-11. The amount for 2015/16 is from Exhibit AL-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit AL-2.



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Exhibit AL-13

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 1995/96	252.0	100.0%	264.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	57,976	57,976	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%	268,653	164,394	104,259	0.99	102,817
2012/13	48.0	86.0%	60.0	92.4%	46.1%	310,377	142,953	167,424	0.98	164,617
2013/14	36.0	71.7%	48.0	86.0%	50.6%	734,761	371,649	363,112	0.98	355,259
2014/15	24.0	44.8%	36.0	71.7%	48.7%	758,354	369,134	389,220	0.98	380,317
2015/16	12.0	15.2%	24.0	44.8%	34.9%	1,325,690	462,755	862,935	0.98	842,170
2016/17	0.0	0.0%	12.0	15.2%	15.2%	1,617,000	245,509	1,371,491	0.97	1,331,641
Total						\$5,072,811	\$1,814,370	\$3,258,441		\$3,176,821

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

(7) to 2015/16 is from Exhibit AL-12, (9). The amount for 2016/17 is from Exhibit AL-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit AL-2.



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Exhibit AL-14

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 1995/96	264.0	100.0%	276.0	100.0%	100.0%	\$0	\$0	\$0	1.00	\$0
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%	104,259	69,046	35,213	0.99	34,921
2012/13	60.0	92.4%	72.0	97.1%	61.2%	167,424	102,450	64,974	0.99	64,075
2013/14	48.0	86.0%	60.0	92.4%	46.1%	363,112	167,242	195,870	0.98	192,586
2014/15	36.0	71.7%	48.0	86.0%	50.6%	389,220	196,871	192,349	0.98	188,189
2015/16	24.0	44.8%	36.0	71.7%	48.7%	862,935	420,039	442,896	0.98	432,766
2016/17	12.0	15.2%	24.0	44.8%	34.9%	1,371,491	478,743	892,748	0.98	871,265
2017/18	0.0	0.0%	12.0	15.2%	15.2%	1,674,000	254,163	1,419,837	0.97	1,378,583
Total						\$4,932,441	\$1,688,554	\$3,243,887		\$3,162,385

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

(7) to 2016/17 is from Exhibit AL-13, (9). The amount for 2017/18 is from Exhibit AL-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit AL-2.



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Exhibit AL-15

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

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/15 (5)	Unlimited Case Reserves 11/30/15 (6)	Unlimited Reported Incurred Losses 11/30/15 (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	0	6,000,000	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	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.



COOK COUNTY, ILLINOIS
OTHER LIABILITY

Data Summary as of November 30, 2015
Losses Limited to Self-Insured Retention

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Revenue (000) (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Limited Paid Losses 11/30/15 (8)	Limited Case Reserves 11/30/15 (9)	Limited Reported Incurred Losses 11/30/15 (10)
to 1995/96	See Note	None	240.0	Not Provided	N/A	0	\$39,938,297	\$0	\$39,938,297
1996/97	Unlimited	None	228.0	911,921	69	0	1,556,926	0	1,556,926
1997/98	Unlimited	None	216.0	953,497	61	0	2,765,368	0	2,765,368
1998/99	Unlimited	None	204.0	958,768	68	1	4,605,705	500,000	5,105,705
1999/00	Unlimited	None	192.0	1,018,542	66	0	2,713,278	0	2,713,278
2000/01	9,500,000	40,000,000	180.0	1,068,809	97	1	7,263,079	100,000	7,363,079
2001/02	9,500,000	40,000,000	168.0	1,057,079	100	1	12,615,943	10,000	12,625,943
2002/03	9,500,000	45,000,000	156.0	1,086,728	112	0	6,184,351	0	6,184,351
2003/04	10,000,000	None	144.0	1,199,434	77	1	65,613,349	500,000	66,113,349
2004/05	10,000,000	25,000,000	132.0	1,189,789	57	3	4,683,438	11,050,000	15,733,438
2005/06	10,000,000	25,000,000	120.0	1,357,723	79	3	5,632,510	595,000	6,227,510
2006/07	10,000,000	25,000,000	108.0	1,243,144	133	6	9,182,122	225,000	9,407,122
2007/08	10,000,000	25,000,000	96.0	1,207,801	95	5	6,790,598	3,828,000	10,618,598
2008/09	10,000,000	25,000,000	84.0	1,303,812	121	7	5,144,137	253,000	5,397,137
2009/10	10,000,000	25,000,000	72.0	1,287,986	113	20	3,438,084	16,020,000	19,458,084
2010/11	10,000,000	25,000,000	60.0	1,293,078	66	38	2,378,547	17,043,500	19,422,047
2011/12	10,000,000	25,000,000	48.0	1,331,769	155	80	2,596,167	4,967,750	7,563,917
2012/13	15,000,000	25,000,000	36.0	1,285,791	222	199	1,160,565	16,259,100	17,419,665
2013/14	15,000,000	25,000,000	24.0	1,308,017	324	324	241,230	12,852,950	13,094,180
2014/15	15,000,000	25,000,000	12.0	Not Provided	94	91	164,840	587,700	752,540
Total					2,109	780	\$184,668,535	\$84,792,000	\$269,460,535

* 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.



COOK COUNTY, ILLINOIS
OTHER LIABILITY

Exhibit OL-1 (page 2)

Data Summary as of November 30, 2015
Unlimited Losses

Claim Period (1)	Specific Self-Insured Retention (2)	Aggregate Retention (3)	Months of Development 11/30/15 (4)	Revenue (000) (5)	Reported Claims 11/30/15 (6)	Open Claims 11/30/15 (7)	Unlimited Paid Losses 11/30/15 (8)	Unlimited Case Reserves 11/30/15 (9)	Unlimited Reported Incurred Losses 11/30/15 (10)
to 1995/96	Unlimited	None	240.0	Not Provided	N/A	0	\$39,938,297	\$0	\$39,938,297
1996/97	Unlimited	None	228.0	911,921	69	0	1,556,926	0	1,556,926
1997/98	Unlimited	None	216.0	953,497	61	0	2,765,368	0	2,765,368
1998/99	Unlimited	None	204.0	958,768	68	1	4,605,705	500,000	5,105,705
1999/00	Unlimited	None	192.0	1,018,542	66	0	2,713,278	0	2,713,278
2000/01	Unlimited	40,000,000	180.0	1,068,809	97	1	7,263,079	100,000	7,363,079
2001/02	Unlimited	40,000,000	168.0	1,057,079	100	1	12,615,943	10,000	12,625,943
2002/03	Unlimited	45,000,000	156.0	1,086,728	112	0	6,184,351	0	6,184,351
2003/04	Unlimited	None	144.0	1,199,434	77	1	65,613,349	500,000	66,113,349
2004/05	Unlimited	25,000,000	132.0	1,189,789	57	3	4,683,438	11,050,000	15,733,438
2005/06	Unlimited	25,000,000	120.0	1,357,723	79	3	5,632,510	595,000	6,227,510
2006/07	Unlimited	25,000,000	108.0	1,243,144	133	6	9,182,122	225,000	9,407,122
2007/08	Unlimited	25,000,000	96.0	1,207,801	95	5	6,790,598	3,828,000	10,618,598
2008/09	Unlimited	25,000,000	84.0	1,303,812	121	7	5,144,137	253,000	5,397,137
2009/10	Unlimited	25,000,000	72.0	1,287,986	113	20	3,438,084	16,020,000	19,458,084
2010/11	Unlimited	25,000,000	60.0	1,293,078	66	38	2,378,547	17,043,500	19,422,047
2011/12	Unlimited	25,000,000	48.0	1,331,769	155	80	2,596,167	4,967,750	7,563,917
2012/13	Unlimited	25,000,000	36.0	1,285,791	222	199	1,160,565	16,259,100	17,419,665
2013/14	Unlimited	25,000,000	24.0	1,308,017	324	324	241,230	12,852,950	13,094,180
2014/15	Unlimited	25,000,000	12.0	Not Provided	94	91	164,840	587,700	752,540
Total					2,109	780	\$184,668,535	\$84,792,000	\$269,460,535

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

Data was provided by the County.



COOK COUNTY, ILLINOIS
OTHER LIABILITY

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)	Months of Development (5)	Percent Losses Paid (6)	Percent Losses Reported (7)	Percent Claims Reported (8)
360.0	100.0%	100.0%	100.0%	354.0	100.0%	100.0%	100.0%
348.0	100.0%	100.0%	100.0%	342.0	100.0%	100.0%	100.0%
336.0	100.0%	100.0%	100.0%	330.0	100.0%	100.0%	100.0%
324.0	100.0%	100.0%	100.0%	318.0	100.0%	100.0%	100.0%
312.0	100.0%	100.0%	100.0%	306.0	100.0%	100.0%	100.0%
300.0	100.0%	100.0%	100.0%	294.0	100.0%	100.0%	100.0%
288.0	100.0%	100.0%	100.0%	282.0	100.0%	100.0%	100.0%
276.0	100.0%	100.0%	100.0%	270.0	100.0%	100.0%	100.0%
264.0	100.0%	100.0%	100.0%	258.0	100.0%	100.0%	100.0%
252.0	100.0%	100.0%	100.0%	246.0	100.0%	100.0%	100.0%
240.0	100.0%	100.0%	100.0%	234.0	100.0%	100.0%	100.0%
228.0	100.0%	100.0%	100.0%	222.0	100.0%	100.0%	100.0%
216.0	100.0%	100.0%	100.0%	210.0	100.0%	100.0%	100.0%
204.0	100.0%	100.0%	100.0%	198.0	100.0%	100.0%	100.0%
192.0	100.0%	100.0%	100.0%	186.0	100.0%	100.0%	100.0%
180.0	100.0%	100.0%	100.0%	174.0	99.8%	100.0%	100.0%
168.0	99.5%	100.0%	100.0%	162.0	99.3%	100.0%	100.0%
156.0	99.0%	100.0%	100.0%	150.0	98.8%	99.8%	100.0%
144.0	98.5%	99.5%	100.0%	138.0	98.0%	99.3%	100.0%
132.0	97.5%	99.0%	100.0%	126.0	96.8%	98.8%	100.0%
120.0	96.1%	98.5%	100.0%	114.0	94.2%	98.0%	100.0%
108.0	92.4%	97.5%	100.0%	102.0	89.8%	96.3%	100.0%
96.0	87.2%	95.2%	100.0%	90.0	84.3%	93.6%	100.0%
84.0	81.5%	91.9%	100.0%	78.0	74.7%	90.2%	100.0%
72.0	67.9%	88.4%	100.0%	66.0	60.1%	85.5%	100.0%
60.0	52.2%	82.6%	100.0%	54.0	41.9%	76.8%	100.0%
48.0	31.7%	70.9%	100.0%	42.0	22.9%	64.8%	100.0%
36.0	14.1%	58.6%	100.0%	30.0	8.4%	44.7%	99.3%
24.0	2.7%	30.8%	98.5%	18.0	1.5%	22.0%	91.2%
12.0	0.2%	13.1%	83.8%	6.0	0.1%	6.6%	41.9%

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

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

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

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



COOK COUNTY, ILLINOIS
OTHER LIABILITY

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

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 1/9/95/96																						
1996/97	792	1,601	3,728	3,333	2,645	2,122	2,097	2,067	2,168	2,308	5,557	1,557	1,557	1,557	1,557	1,557	1,557	1,557	1,557	1,557	1,557	1,557
1997/98	410	1,526	3,522	2,975	3,294	3,501	3,090	2,760	2,760	2,760	2,760	2,760	2,760	2,760	2,760	2,760	2,760	2,760	2,760	2,760	2,760	2,760
1998/99	197	1,565	3,522	4,757	6,452	5,562	6,277	4,796	4,091	4,006	4,006	4,006	4,006	4,006	4,006	4,006	4,006	4,006	4,006	4,006	4,006	4,006
1999/00	4,529	6,421	8,034	6,922	5,610	6,056	6,813	5,235	5,163	5,413	3,163	2,713	2,713	2,713	2,713	2,713	2,713	2,713	2,713	2,713	2,713	2,713
2000/01	3,684	3,812	4,066	12,006	8,360	8,697	8,143	6,623	6,360	7,260	7,260	7,260	7,260	7,260	7,260	7,260	7,260	7,260	7,260	7,260	7,260	7,260
2001/02	1,519	2,478	3,930	6,066	9,357	19,611	19,327	14,124	13,434	11,889	12,491	12,741	15,726	15,726	15,726	15,726	15,726	15,726	15,726	15,726	15,726	15,726
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	6,184	6,184
2003/04	2,287	5,765	18,120	40,102	43,979	64,408	62,263	68,738	65,578	66,003	65,614	66,113	66,113	66,113	66,113	66,113	66,113	66,113	66,113	66,113	66,113	66,113
2004/05	2,102	4,813	11,214	8,406	8,236	7,377	8,101	12,858	19,843	20,433	15,733											
2005/06	3,747	7,296	5,992	4,427	3,683	3,521	7,393	5,843	6,329	6,228												
2006/07	1,767	4,668	4,439	6,087	7,935	9,400	8,815	11,745	9,407													
2007/08	1,928	3,878	8,916	10,754	14,495	13,775	12,474	10,619														
2008/09	1,931	2,115	3,581	4,335	4,391	5,435	5,397															
2009/10	972	3,567	6,505	4,332	8,101	19,422																
2010/11	471	2,406	4,757	5,083																		
2011/12	4,276	6,052	15,539	7,564																		
2012/13	1,364	3,956	17,420																			
2013/14	4,235	13,094																				
2014/15	753																					

II. Limited Reported Incurred Loss Development

Claim Period	Months of Development:																				
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-Ult	
to 1/9/95/96																					
1996/97	2,023	2,328	0,894	0,794	0,802	0,988	0,986	1,049	1,065	2,408	0,280	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1997/98	3,727	2,307	0,845	1,077	1,093	0,862	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	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	1,000
1999/00	1,418	1,251	0,862	0,810	1,080	1,124	0,769	0,886	1,048	0,988	0,858	1,000	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	1,014	1,000	1,000	1,000	1,000	1,000	1,000
2001/02	1,631	1,586	1,549	1,636	1,970	0,985	0,731	0,951	0,885	1,142	1,020	1,234	0,803	0,803	0,803	0,803	0,803	0,803	0,803	0,803	0,803
2002/03	2,725	1,670	1,101	2,165	0,790	0,857	0,817	1,005	0,884	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	2,520	3,143	2,213	1,097	1,465	0,967	1,104	0,954	1,006	0,994	1,008	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	1,088	1,587	1,543	1,030	0,770	1,008	1,000	1,000	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												
2006/07	2,642	0,951	1,371	1,304	1,185	0,938	1,332	0,801													
2007/08	2,012	2,299	1,206	1,348	0,950	0,906	0,851														
2008/09	1,096	1,693	1,211	1,013	1,238	0,983															
2009/10	3,671	1,824	0,666	1,870	2,402																
2010/11	5,103	1,977	1,071	3,813																	
2011/12	1,415	2,568	0,487																		
2012/13	2,901																				
2013/14	3,092																				
2014/15																					
Average All	3,113	2,090	1,068	1,386	1,195	1,074	0,963	1,004	1,009	1,110	0,891	1,034	0,967	1,003	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Wtd 3	2,339	3,038	0,634	2,319	1,433	0,933	0,983	1,169	1,010	0,945	1,009	1,114	0,879	1,007	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Last 3	2,469	2,983	0,741	2,232	1,530	0,945	0,891	1,142	1,007	0,821	1,009	1,078	0,934	1,005	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Last 5	3,221	2,123	0,961	1,507	1,126	1,010	1,096	1,014	0,992	1,015	1,003	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
x-Follow																					
Previous	2,300	1,850	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	1,000
Selected	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	1,000
Cumulative	7,618	3,242	1,706	1,410	1,210	1,131	1,088	1,051	1,025	1,015	1,010	1,005	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Percent	13.1%	30.8%	58.6%	70.9%	82.6%	88.4%	91.9%	95.2%	97.5%	98.5%	99.0%	99.5%	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
OTHER LIABILITY

Exhibit OL-3

Developed Limited Paid Losses

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Paid Losses 11/30/15 (3)	Percent Losses Paid (4)	Developed Limited Paid Losses (3)/(4) (5)
to 1995/96	240.0	\$39,938,297	100.0%	\$39,938,297
1996/97	228.0	1,556,926	100.0%	1,556,926
1997/98	216.0	2,765,368	100.0%	2,765,368
1998/99	204.0	4,605,705	100.0%	4,605,705
1999/00	192.0	2,713,278	100.0%	2,713,278
2000/01	180.0	7,263,079	100.0%	7,263,079
2001/02	168.0	12,615,943	99.5%	12,679,023
2002/03	156.0	6,184,351	99.0%	6,246,349
2003/04	144.0	65,613,349	98.5%	65,919,063 *
2004/05	132.0	4,683,438	97.5%	4,801,581
2005/06	120.0	5,632,510	96.1%	5,861,214
2006/07	108.0	9,182,122	92.4%	9,937,154
2007/08	96.0	6,790,598	87.2%	7,789,917
2008/09	84.0	5,144,137	81.5%	6,314,240
2009/10	72.0	3,438,084	67.9%	5,064,147
2010/11	60.0	2,378,547	52.2%	4,554,544
2011/12	48.0	2,596,167	31.7%	8,202,566
2012/13	36.0	1,160,565	14.1%	8,250,290
2013/14	24.0	241,230	2.7%	9,003,056
2014/15	12.0	164,840	0.2%	70,748,851

* - 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.



COOK COUNTY, ILLINOIS
OTHER LIABILITY

Exhibit OL-4

Developed Limited Reported Incurred Losses

Claim Period (1)	Months of Development 11/30/15 (2)	Limited Reported Incurred Losses 11/30/15 (3)	Percent Losses Reported (4)	Developed Limited Reported Incurred Losses (3)/(4) (5)
to 1995/96	240.0	\$39,938,297	100.0%	\$39,938,297
1996/97	228.0	1,556,926	100.0%	1,556,926
1997/98	216.0	2,765,368	100.0%	2,765,368
1998/99	204.0	5,105,705	100.0%	5,105,705
1999/00	192.0	2,713,278	100.0%	2,713,278
2000/01	180.0	7,363,079	100.0%	7,363,079
2001/02	168.0	12,625,943	100.0%	12,625,943
2002/03	156.0	6,184,351	100.0%	6,184,351
2003/04	144.0	66,113,349	99.5%	66,217,246 *
2004/05	132.0	15,733,438	99.0%	15,790,915 *
2005/06	120.0	6,227,510	98.5%	6,321,390
2006/07	108.0	9,407,122	97.5%	9,644,425
2007/08	96.0	10,618,598	95.2%	11,158,623
2008/09	84.0	5,397,137	91.9%	5,870,123
2009/10	72.0	19,458,084	88.4%	20,698,436 *
2010/11	60.0	19,422,047	82.6%	20,352,100 *
2011/12	48.0	7,563,917	70.9%	10,665,312
2012/13	36.0	17,419,665	58.6%	22,658,915 *
2013/14	24.0	13,094,180	30.8%	31,238,478 *
2014/15	12.0	752,540	13.1%	5,732,753

* - 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.



COOK COUNTY, ILLINOIS
OTHER LIABILITY

Exhibit OL-5

Developed Limited Case Reserves

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Percent Losses Reported (4)	Percent Losses Reserved 11/30/15 [(4)-(3)]/ [100.0%-(3)] (5)	Limited Paid Losses 11/30/15 (6)	Limited Case Reserves 11/30/15 (7)	Developed Limited Case Reserves (6)+(7)/(5) (8)
to 1995/96	240.0	100.0%	100.0%	100.0%	\$39,938,297	\$0	\$39,938,297
1996/97	228.0	100.0%	100.0%	100.0%	1,556,926	0	1,556,926
1997/98	216.0	100.0%	100.0%	100.0%	2,765,368	0	2,765,368
1998/99	204.0	100.0%	100.0%	100.0%	4,605,705	500,000	5,105,705
1999/00	192.0	100.0%	100.0%	100.0%	2,713,278	0	2,713,278
2000/01	180.0	100.0%	100.0%	100.0%	7,263,079	100,000	7,363,079
2001/02	168.0	99.5%	100.0%	100.0%	12,615,943	10,000	12,625,943
2002/03	156.0	99.0%	100.0%	100.0%	6,184,351	0	6,184,351
2003/04	144.0	98.5%	99.5%	66.5%	65,613,349	500,000	66,365,226
2004/05	132.0	97.5%	99.0%	59.7%	4,683,438	11,050,000	16,443,382 *
2005/06	120.0	96.1%	98.5%	61.9%	5,632,510	595,000	6,593,128
2006/07	108.0	92.4%	97.5%	67.6%	9,182,122	225,000	9,514,881
2007/08	96.0	87.2%	95.2%	62.3%	6,790,598	3,828,000	12,937,550
2008/09	84.0	81.5%	91.9%	56.5%	5,144,137	253,000	5,591,773
2009/10	72.0	67.9%	88.4%	63.9%	3,438,084	16,020,000	22,860,112 *
2010/11	60.0	52.2%	82.6%	63.6%	2,378,547	17,043,500	20,590,196 *
2011/12	48.0	31.7%	70.9%	57.5%	2,596,167	4,967,750	11,242,509
2012/13	36.0	14.1%	58.6%	51.8%	1,160,565	16,259,100	23,235,118 *
2013/14	24.0	2.7%	30.8%	28.9%	241,230	12,852,950	32,372,161 *
2014/15	12.0	0.2%	13.1%	12.9%	164,840	587,700	4,712,143

* - 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.



COOK COUNTY, ILLINOIS
OTHER LIABILITY

Exhibit OL-6

Preliminary Projected Ultimate Limited Losses to 2014/15

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 1995/96	\$39,938,297	\$39,938,297	\$39,938,297	\$39,938,297
1996/97	1,556,926	1,556,926	1,556,926	1,556,926
1997/98	2,765,368	2,765,368	2,765,368	2,765,368
1998/99	4,605,705	5,105,705	5,105,705	5,155,705
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	12,679,023	12,625,943	12,625,943	12,626,943
2002/03	6,246,349	6,184,351	6,184,351	6,184,351
2003/04	65,919,063	66,217,246	66,365,226	66,365,226
2004/05	4,801,581	15,790,915	16,443,382	16,838,438
2005/06	5,861,214	6,321,390	6,593,128	6,593,128
2006/07	9,937,154	9,644,425	9,514,881	9,514,881
2007/08	7,789,917	11,158,623	12,937,550	12,759,657
2008/09	6,314,240	5,870,123	5,591,773	5,647,443
2009/10	5,064,147	20,698,436	22,860,112	22,211,609
2010/11	4,554,544	20,352,100	20,590,196	21,126,397
2011/12	8,202,566	10,665,312	11,242,509	10,707,636
2012/13	8,250,290	22,658,915	23,235,118	20,007,671
2013/14	9,003,056	31,238,478	32,372,161	27,244,867
2014/15	70,748,851	5,732,753	4,712,143	18,327,729
Total	\$284,214,649	\$304,601,665	\$310,711,127	\$315,658,629

(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 (2015/16 = 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)
2005/06	\$6,593,128	\$1,357,723	\$4.86	1.480	\$7.19	\$9.11
2006/07	9,514,881	1,243,144	7.65	1.423	10.89	9.48
2007/08	12,759,657	1,207,801	10.56	1.369	14.46	9.86
2008/09	5,647,443	1,303,812	4.33	1.316	5.70	10.25
2009/10	22,211,609	1,287,986	17.25	1.265	21.82	10.66
2010/11	21,126,397	1,293,078	16.34	1.217	19.88	11.09
2011/12	10,707,636	1,331,769	8.04	1.170	9.41	11.53
2012/13	20,007,671	1,285,791	15.56	1.125	17.50	11.99
2013/14	27,244,867	1,308,017	20.83	1.082	22.53	12.47
2014/15	18,327,729	1,308,017	14.01	1.040	14.57	12.97

(7) Projected 2015/16 a-priori loss rate per \$1,000 of Revenue \$13.49

II. Bornhuetter - Ferguson Analysis Based on Limited Paid Losses

Claim Period (1)	Limited Paid Losses 11/30/15 (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)
2010/11	\$2,378,547	52.2%	\$11.09	\$1,293,078	\$6,850,460	\$9,229,006
2011/12	2,596,167	31.7%	11.53	1,331,769	10,497,308	13,093,475
2012/13	1,160,565	14.1%	11.99	1,285,791	13,251,923	14,412,489
2013/14	241,230	2.7%	12.47	1,308,017	15,878,138	16,119,368
2014/15	164,840	0.2%	12.97	1,308,017	16,928,371	17,093,211

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

Claim Period (1)	Limited Reported Incurred Losses 11/30/15 (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)
2010/11	\$19,422,047	82.6%	\$11.09	\$1,293,078	\$2,491,666	\$21,913,713
2011/12	7,563,917	70.9%	11.53	1,331,769	4,466,087	12,030,004
2012/13	17,419,665	58.6%	11.99	1,285,791	6,382,508	23,802,174
2013/14	13,094,180	30.8%	12.47	1,308,017	11,282,268	24,376,448
2014/15	752,540	13.1%	12.97	1,308,017	14,740,524	15,493,064

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 11/30/15 (2)	Reported Claims 11/30/15 (3)	Percent Claims Reported (4)	Projected Ultimate Claims (3)/(4) (5)	Revenue (000) (6)	Frequency (per \$1M of Revenue) (5)/(6)X1,000 (7)
2005/06	120.0	79	100.0%	79	\$1,357,723	0.06
2006/07	108.0	133	100.0%	133	1,243,144	0.11
2007/08	96.0	95	100.0%	95	1,207,801	0.08
2008/09	84.0	121	100.0%	121	1,303,812	0.09
2009/10	72.0	113	100.0%	113	1,287,986	0.09
2010/11	60.0	66	100.0%	66	1,293,078	0.05
2011/12	48.0	155	100.0%	155	1,331,769	0.12
2012/13	36.0	222	100.0%	222	1,285,791	0.17
2013/14	24.0	324	98.5%	329	1,308,017	0.25
2014/15	12.0	94	83.8%	112	1,308,017	0.09

II. Frequency Times Severity

Claim Period (1)	Preliminary Projected Ultimate Limited Losses (2)	Projected Ultimate Claims (3)	Average Severity (2)/(3) (4)	Severity Trend (2015/16 = 1.000) (5)	Trended Average Claim Severity (4)X(5) (6)	De-Trended Projected 2015/16 Average Claim Severity (7)/(5) (8)	Frequency Times Severity (3)X(8) (9)
2005/06	\$6,593,128	79	\$83,457	1.480	\$123,537	\$109,677	\$8,664,472
2006/07	9,514,881	133	71,540	1.423	101,824	114,064	15,170,504
2007/08	12,759,657	95	134,312	1.369	183,815	118,626	11,269,517
2008/09	5,647,443	121	46,673	1.316	61,419	123,372	14,927,958
2009/10	22,211,609	113	196,563	1.265	248,715	128,306	14,498,625
2010/11	21,126,397	66	320,097	1.217	389,447	133,439	8,806,952
2011/12	10,707,636	155	69,082	1.170	80,816	138,776	21,510,314
2012/13	20,007,671	222	90,125	1.125	101,378	144,327	32,040,654
2013/14	27,244,867	329	82,811	1.082	89,569	150,100	49,383,019
2014/15	18,327,729	112	163,640	1.040	170,186	156,104	17,483,690
						(7) Projected 2015/16 average claim severity \$162,349	

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.



COOK COUNTY, ILLINOIS
OTHER LIABILITY

Exhibit OL-9

Projected Ultimate Limited Losses to 2014/15

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 1995/96	\$39,938,297	\$39,938,297	\$39,938,297				\$42,689,397	\$39,938,297
1996/97	1,556,926	1,556,926	1,556,926				1,556,926	1,556,926
1997/98	2,765,368	2,765,368	2,765,368				2,765,368	2,765,368
1998/99	4,605,705	5,105,705	5,105,705				4,605,705	5,156,000
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				7,263,079	7,373,079
2001/02	12,679,023	12,625,943	12,625,943				16,037,000	12,627,000
2002/03	6,246,349	6,184,351	6,184,351				6,184,351	6,184,351
2003/04	65,919,063	66,217,246	66,365,226				65,649,000	66,365,000
2004/05	4,801,581	15,790,915	16,443,382				22,008,438	18,500,000
2005/06	5,861,214	6,321,390	6,593,128				6,662,000	6,593,000
2006/07	9,937,154	9,644,425	9,514,881				13,269,000	9,515,000
2007/08	7,789,917	11,158,623	12,937,550				16,000,000	12,760,000
2008/09	6,314,240	5,870,123	5,591,773				6,339,000	5,647,000
2009/10	5,064,147	20,698,436	22,860,112				10,200,000	22,212,000
2010/11	4,554,544	20,352,100	20,590,196	9,229,006	21,913,713	8,806,952	8,500,000	22,000,000
2011/12	8,202,566	10,665,312	11,242,509	13,093,475	12,030,004	21,510,314	18,800,000	12,000,000
2012/13	8,250,290	22,658,915	23,235,118	14,412,489	23,802,174	32,040,654	13,500,000	23,000,000
2013/14	9,003,056	31,238,478	32,372,161	16,119,368	24,376,448	49,383,019	20,000,000	22,000,000
2014/15	70,748,851	5,732,753	4,712,143	17,093,211	15,493,064	17,483,690	16,732,000	18,000,000
Sum	\$284,214,649	\$304,601,665	\$310,711,127				\$301,474,543	\$316,906,300
2010/11 - 2014/15	100,759,307	90,647,558	92,152,127	69,947,548	97,615,403	129,224,629	77,532,000	97,000,000
to 2009/10	183,455,342	213,954,106	218,559,000				223,942,543	219,906,300
						Change		
						All years		\$15,431,757
						2010/11 - 2014/15		19,468,000
						to 2009/10		-4,036,243

(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 from prior actuarial study.

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



COOK COUNTY, ILLINOIS
OTHER LIABILITY

Exhibit OL-10

Projected Ultimate Limited Losses for 2015/16 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 (2015/16 = 1.000) (5)	Trended Limited Loss Rate per \$1,000 of Revenue (4)X(5) (6)
2005/06	\$6,593,000	\$1,357,723	\$4.86	1.480	\$7.19
2006/07	9,515,000	1,243,144	7.65	1.423	10.89
2007/08	12,760,000	1,207,801	10.56	1.369	14.46
2008/09	5,647,000	1,303,812	4.33	1.316	5.70
2009/10	22,212,000	1,287,986	17.25	1.265	21.82
2010/11	22,000,000	1,293,078	17.01	1.217	20.70
2011/12	12,000,000	1,331,769	9.01	1.170	10.54
2012/13	23,000,000	1,285,791	17.89	1.125	20.12
2013/14	22,000,000	1,308,017	16.82	1.082	18.19
2014/15	18,000,000	1,308,017	13.76	1.040	14.31
Total	\$153,727,000	\$12,927,138	\$11.89		\$14.39

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)
2015/16	\$13.97	\$1,308,017	\$18,274,000	0.92	\$12.80	\$16,743,000
2016/17	14.53	1,308,017	19,005,000	0.92	13.31	17,413,000
2017/18	15.11	1,308,017	19,765,000	0.92	13.84	18,109,000

(2) is from Exhibit OL-9.

(3) 2005/06, 2006/07, 2007/08, 2008/09, 2009/10, 2010/11, 2011/12, 2012/13 and 2013/14 were provided by the County. Other periods assume a 0% trend.

(5) is based on a 4% trend.

(7) 2015/16 is based on (6) and actuarial judgment.
Other period(s) based on 2015/16 plus a 4% trend.

(8) is based on (3) for 2014/15 and a 0% trend.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit OL-2.



COOK COUNTY, ILLINOIS
OTHER LIABILITY

Exhibit OL-11

Estimated Outstanding Losses as of November 30, 2015

Claim Period (1)	Limited Paid Losses 11/30/15 (2)	Limited Case Reserves 11/30/15 (3)	Limited Reported Incurred Losses 11/30/15 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/15 (5)-(4) (6)	Estimated Outstanding Losses 11/30/15 (3)+(6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/15 (7)X(8) (9)
to 1995/96	\$39,938,297	\$0	\$39,938,297	\$39,938,297	\$0	\$0	1.00	\$0
1996/97	1,556,926	0	1,556,926	1,556,926	0	0	1.00	0
1997/98	2,765,368	0	2,765,368	2,765,368	0	0	1.00	0
1998/99	4,605,705	500,000	5,105,705	5,156,000	50,295	550,295	1.00	550,295
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	12,627,000	1,057	11,057	0.99	10,965
2002/03	6,184,351	0	6,184,351	6,184,351	0	0	0.98	0
2003/04	65,613,349	500,000	66,113,349	66,365,000	251,651	751,651	0.98	733,127
2004/05	4,683,438	11,050,000	15,733,438	18,500,000	2,766,562	13,816,562	0.97	13,431,211
2005/06	5,632,510	595,000	6,227,510	6,593,000	365,490	960,490	0.97	930,926
2006/07	9,182,122	225,000	9,407,122	9,515,000	107,878	332,878	0.97	323,535
2007/08	6,790,598	3,828,000	10,618,598	12,760,000	2,141,402	5,969,402	0.97	5,793,204
2008/09	5,144,137	253,000	5,397,137	5,647,000	249,863	502,863	0.97	485,722
2009/10	3,438,084	16,020,000	19,458,084	22,212,000	2,753,916	18,773,916	0.97	18,165,815
2010/11	2,378,547	17,043,500	19,422,047	22,000,000	2,577,953	19,621,453	0.96	18,930,111
2011/12	2,596,167	4,967,750	7,563,917	12,000,000	4,436,083	9,403,833	0.96	9,043,968
2012/13	1,160,565	16,259,100	17,419,665	23,000,000	5,580,335	21,839,435	0.96	20,861,604
2013/14	241,230	12,852,950	13,094,180	22,000,000	8,905,820	21,758,770	0.95	20,574,196
2014/15	164,840	587,700	752,540	18,000,000	17,247,460	17,835,160	0.93	16,612,569
Total	\$184,668,535	\$84,792,000	\$269,460,535	\$316,906,300	\$47,445,765	\$132,237,765		\$126,557,248

(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 1.68% interest rate and the payout pattern in Exhibit OL-2.



COOK COUNTY, ILLINOIS
OTHER LIABILITY

Exhibit OL-12

Projected Losses Paid December 1, 2015 to November 30, 2016

Claim Period (1)	Months of Development 11/30/15 (2)	Percent Losses Paid (3)	Months of Development 11/30/16 (4)	Percent Losses Paid (5)	Percent Outstanding Losses Paid 12/1/15 to 11/30/16 [(5)-(3)]/ [100.0%-(3)] (6)	Estimated Outstanding Losses 11/30/15 (7)	Projected Losses Paid (6)X(7) (8)	Estimated Outstanding Losses 11/30/16 (7)-(8) (9)	Present Value Factor (10)	Present Value of Estimated Outstanding Losses 11/30/16 (9)X(10) (11)
to 1995/96	240.0	100.0%	252.0	100.0%	15.0% *	\$0	\$0	\$0	1.00	\$0
1996/97	228.0	100.0%	240.0	100.0%	15.0% *	0	0	0	1.00	0
1997/98	216.0	100.0%	228.0	100.0%	15.0% *	0	0	0	1.00	0
1998/99	204.0	100.0%	216.0	100.0%	15.0% *	550,295	82,544	467,751	1.00	467,751
1999/00	192.0	100.0%	204.0	100.0%	15.0% *	0	0	0	1.00	0
2000/01	180.0	100.0%	192.0	100.0%	15.0% *	110,000	16,500	93,500	1.00	93,500
2001/02	168.0	99.5%	180.0	100.0%	15.0% *	11,057	1,659	9,398	1.00	9,398
2002/03	156.0	99.0%	168.0	99.5%	15.0% *	0	0	0	0.99	0
2003/04	144.0	98.5%	156.0	99.0%	15.0% *	751,651	112,748	638,903	0.98	628,356
2004/05	132.0	97.5%	144.0	98.5%	15.0% *	13,816,562	2,072,484	11,744,078	0.98	11,454,648
2005/06	120.0	96.1%	132.0	97.5%	15.0% *	960,490	144,074	816,416	0.97	793,646
2006/07	108.0	92.4%	120.0	96.1%	15.0% *	332,878	49,932	282,946	0.97	274,237
2007/08	96.0	87.2%	108.0	92.4%	15.0% *	5,969,402	895,410	5,073,992	0.97	4,931,583
2008/09	84.0	81.5%	96.0	87.2%	15.0% *	502,863	75,429	427,434	0.97	414,817
2009/10	72.0	67.9%	84.0	81.5%	15.0% *	18,773,916	2,816,087	15,957,829	0.97	15,413,884
2010/11	60.0	52.2%	72.0	67.9%	15.0% *	19,621,453	2,943,218	16,678,235	0.97	16,138,015
2011/12	48.0	31.7%	60.0	52.2%	15.0% *	9,403,833	1,410,575	7,993,258	0.96	7,711,624
2012/13	36.0	14.1%	48.0	31.7%	15.0% *	21,839,435	3,275,915	18,563,520	0.96	17,853,133
2013/14	24.0	2.7%	36.0	14.1%	11.7% *	21,758,770	2,546,007	19,212,763	0.96	18,352,538
2014/15	12.0	0.2%	24.0	2.7%	2.5% *	17,835,160	437,343	17,397,817	0.95	16,450,658
2015/16	0.0	0.0%	12.0	0.2%	0.2% *	18,274,000	42,577	18,231,423	0.93	16,981,668
Total						\$150,511,765	\$16,922,502	\$133,589,263		\$127,969,456

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

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

(7) to 2014/15 is from Exhibit OL-11. The amount for 2015/16 is from Exhibit OL-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit OL-2.



COOK COUNTY, ILLINOIS
OTHER LIABILITY

Exhibit OL-13

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 1995/96	252.0	100.0%	264.0	100.0%	15.0% *	\$0	\$0	\$0	1.00	\$0
1996/97	240.0	100.0%	252.0	100.0%	15.0% *	0	0	0	1.00	0
1997/98	228.0	100.0%	240.0	100.0%	15.0% *	0	0	0	1.00	0
1998/99	216.0	100.0%	228.0	100.0%	15.0% *	467,751	70,163	397,588	1.00	397,588
1999/00	204.0	100.0%	216.0	100.0%	15.0% *	0	0	0	1.00	0
2000/01	192.0	100.0%	204.0	100.0%	15.0% *	93,500	14,025	79,475	1.00	79,475
2001/02	180.0	100.0%	192.0	100.0%	15.0% *	9,398	1,410	7,988	1.00	7,988
2002/03	168.0	99.5%	180.0	100.0%	15.0% *	0	0	0	1.00	0
2003/04	156.0	99.0%	168.0	99.5%	15.0% *	638,903	95,835	543,068	0.99	538,563
2004/05	144.0	98.5%	156.0	99.0%	15.0% *	11,744,078	1,761,612	9,982,466	0.98	9,817,668
2005/06	132.0	97.5%	144.0	98.5%	15.0% *	816,416	122,462	693,954	0.98	676,852
2006/07	120.0	96.1%	132.0	97.5%	15.0% *	282,946	42,442	240,504	0.97	233,796
2007/08	108.0	92.4%	120.0	96.1%	15.0% *	5,073,992	761,099	4,312,893	0.97	4,180,142
2008/09	96.0	87.2%	108.0	92.4%	15.0% *	427,434	64,115	363,319	0.97	353,122
2009/10	84.0	81.5%	96.0	87.2%	15.0% *	15,957,829	2,393,674	13,564,155	0.97	13,163,783
2010/11	72.0	67.9%	84.0	81.5%	15.0% *	16,678,235	2,501,735	14,176,500	0.97	13,693,274
2011/12	60.0	52.2%	72.0	67.9%	15.0% *	7,993,258	1,198,989	6,794,269	0.97	6,574,198
2012/13	48.0	31.7%	60.0	52.2%	15.0% *	18,563,520	2,784,528	15,778,992	0.96	15,223,036
2013/14	36.0	14.1%	48.0	31.7%	15.0% *	19,212,763	2,881,914	16,330,849	0.96	15,705,902
2014/15	24.0	2.7%	36.0	14.1%	11.7% *	17,397,817	2,035,729	15,362,088	0.96	14,674,271
2015/16	12.0	0.2%	24.0	2.7%	2.5% *	18,231,423	447,060	17,784,363	0.95	16,816,160
2016/17	0.0	0.0%	12.0	0.2%	0.2% *	19,005,000	44,280	18,960,720	0.93	17,660,972
Total						\$152,594,263	\$17,221,072	\$135,373,191		\$129,796,790

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

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

(7) to 2015/16 is from Exhibit OL-12, (9). The amount for 2016/17 is from Exhibit OL-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit OL-2.



COOK COUNTY, ILLINOIS
OTHER LIABILITY

Exhibit OL-14

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 1995/96	264.0	100.0%	276.0	100.0%	15.0% *	\$0	\$0	\$0	1.00	\$0
1996/97	252.0	100.0%	264.0	100.0%	15.0% *	0	0	0	1.00	0
1997/98	240.0	100.0%	252.0	100.0%	15.0% *	0	0	0	1.00	0
1998/99	228.0	100.0%	240.0	100.0%	15.0% *	397,588	59,638	337,950	1.00	337,950
1999/00	216.0	100.0%	228.0	100.0%	15.0% *	0	0	0	1.00	0
2000/01	204.0	100.0%	216.0	100.0%	15.0% *	79,475	11,921	67,554	1.00	67,554
2001/02	192.0	100.0%	204.0	100.0%	15.0% *	7,988	1,198	6,790	1.00	6,790
2002/03	180.0	100.0%	192.0	100.0%	15.0% *	0	0	0	1.00	0
2003/04	168.0	99.5%	180.0	100.0%	15.0% *	543,068	81,460	461,608	1.00	461,608
2004/05	156.0	99.0%	168.0	99.5%	15.0% *	9,982,466	1,497,370	8,485,096	0.99	8,414,707
2005/06	144.0	98.5%	156.0	99.0%	15.0% *	693,954	104,093	589,861	0.98	580,123
2006/07	132.0	97.5%	144.0	98.5%	15.0% *	240,504	36,076	204,428	0.98	199,390
2007/08	120.0	96.1%	132.0	97.5%	15.0% *	4,312,893	646,934	3,665,959	0.97	3,563,713
2008/09	108.0	92.4%	120.0	96.1%	15.0% *	363,319	54,498	308,821	0.97	299,316
2009/10	96.0	87.2%	108.0	92.4%	15.0% *	13,564,155	2,034,623	11,529,532	0.97	11,205,940
2010/11	84.0	81.5%	96.0	87.2%	15.0% *	14,176,500	2,126,475	12,050,025	0.97	11,694,345
2011/12	72.0	67.9%	84.0	81.5%	15.0% *	6,794,269	1,019,140	5,775,129	0.97	5,578,276
2012/13	60.0	52.2%	72.0	67.9%	15.0% *	15,778,992	2,366,849	13,412,143	0.97	12,977,714
2013/14	48.0	31.7%	60.0	52.2%	15.0% *	16,330,849	2,449,627	13,881,222	0.96	13,392,132
2014/15	36.0	14.1%	48.0	31.7%	15.0% *	15,362,088	2,304,313	13,057,775	0.96	12,558,081
2015/16	24.0	2.7%	36.0	14.1%	11.7% *	17,784,363	2,080,959	15,703,404	0.96	15,000,306
2016/17	12.0	0.2%	24.0	2.7%	2.5% *	18,960,720	464,944	18,495,776	0.95	17,488,843
2017/18	0.0	0.0%	12.0	0.2%	0.2% *	19,765,000	46,051	19,718,949	0.93	18,367,225
Total						\$155,138,191	\$17,386,169	\$137,752,022		\$132,194,013

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

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

(7) to 2016/17 is from Exhibit OL-13, (9). The amount for 2017/18 is from Exhibit OL-10.

(10) is based on a 1.68% interest rate and the payout pattern in Exhibit OL-2.



COOK COUNTY, ILLINOIS
OTHER LIABILITY

Exhibit OL-15

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

Claim Number (1)	Date of Loss (2)	Claim Period (3)	Specific Self-Insured Retention (4)	Unlimited Paid Losses 11/30/15 (5)	Unlimited Case Reserves 11/30/15 (6)	Unlimited Reported Incurred Losses 11/30/15 (7)
97001561	5/13/1978	to 1995/96	Unlimited	\$4,000,000	\$0	\$4,000,000
97002759	1/1/1989	to 1995/96	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	10,000,000	0	3,000,000	3,000,000
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	0	4,000,000	4,000,000
97012635	9/1/2010	2009/10	10,000,000	0	10,000,000 *	10,000,000 *
97009812	11/16/2011	2010/11	5,000,000	0	5,000,000 *	5,000,000 *
97009813	11/16/2011	2010/11	5,000,000	0	5,000,000 *	5,000,000 *
97009834	11/16/2011	2010/11	5,000,000	0	5,000,000 *	5,000,000 *
97010532	4/3/2012	2011/12	10,000,000	0	2,000,000	2,000,000
97011513	5/6/2013	2012/13	15,000,000	0	1,500,000	1,500,000
97010892	9/1/2013	2012/13	10,000,000	0	10,000,000 *	10,000,000 *
97011159	12/30/2013	2013/14	15,000,000	0	2,000,000	2,000,000
97011535	1/10/2014	2013/14	5,000,000	0	5,000,000 *	5,000,000 *

Amounts are gross of excess insurance.

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

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