

# Cook County, Illinois

Actuarial Analysis – Workers Compensation and  
Liability

Evaluated as of November 30, 2023

Issue Date – April 29, 2024





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# Introduction

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## Purpose

Aon Global Risk Consulting (“AGRC”) was retained by Cook County (the County) to perform an actuarial analysis of its retained loss liabilities for workers compensation and liability. The unpaid loss estimates in our analysis are provided to assist the County with its financial reporting requirements. The purpose of this report is to provide assistance to the County in establishing a reasonable estimate of retained losses and defense cost and containment expense (also known as allocated loss adjustment expense, “ALAE”) as of November 30, 2023.

## Scope

The scope of our analysis is as follows:

- Provide a point estimate by coverage for the retained unpaid loss and ALAE for the County as of November 30, 2023.
  - Coverages include workers compensation (WC), medical malpractice (MM), general liability (GL), automobile liability (AL), law enforcement liability (LEL), other liability (OL), and claim expense. These coverages are further organized as follows.
    - WC: Healthcare Facilities – Indemnity, Healthcare Facilities – Medical, General Government – Indemnity, General Government – Medical
    - MM: Cermak, John H. Stroger, Oak Forest, Provident/Unspecified
    - GL
    - AL
    - LEL
    - OL
    - Claim Expense
  - The selected point estimate for unpaid loss and ALAE is presented on a discounted and undiscounted basis.
- Provide a point estimate by coverage for the forecasted losses within policy retentions for years 12/1/23-24, 12/1/24-25, and 12/1/25-26 for all coverages.
- Provide a point estimate for losses paid (including ALAE for workers compensation) during the 12/1/23-24, 12/1/24-25, and 12/1/25-26 claim periods.



The "Selected" unpaid loss estimates presented in this report are actuarial central estimates (i.e., expected values over a range of reasonably possibly outcomes). Our unpaid claim estimates are presented on a discounted and undiscounted basis. We have performed no additional work to verify the financial condition of the assuming insurance companies or the collectability of insured losses. Other program costs, such as unallocated loss adjustment expenses, insurance costs, or loss- or exposure-based assessments, are not within the scope of this analysis. The impact of any catastrophic risk exposure has not been included in this analysis.

### COVID-19

The estimates provided in this report have not been adjusted for the potential impact of the COVID-19 pandemic.

The potential short- and long-term impacts of this emerging risk are not fully known. Consequently, the uncertainty in our estimates is greater than would otherwise be the case.

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Matthew Schira and Elissa Sirovatka are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

We performed this analysis using generally accepted actuarial principles and in accordance with all relevant Actuarial Standards of Practice.

Please contact us if you have any questions regarding this report.

Respectfully submitted,

Aon Global Risk Consulting

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## Conditions and Limitations

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### **Inherent Uncertainty**

Actuarial calculations produce estimates of inherently uncertain future contingent events. We believe that the estimates provided represent reasonable provisions based on the appropriate application of actuarial techniques to the available data. However, there is no guarantee that actual future payments will not differ from estimates included herein.

### **Extraordinary Future Emergence**

Our projections make no provision for the extraordinary future emergence of losses or types of losses not sufficiently represented in the historical data or which are not yet quantifiable. See the Introduction section for limitations regarding the COVID-19 pandemic.

### **Data Reliance**

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.

### **Recoverable Collectability**

We have implicitly estimated the County's (re)insurance recoverable amounts. However, we have performed no additional work to verify the claims payment ability of the (re)insurers or third parties.

### **Discounting**

The uncertainty inherent in the discounted unpaid loss estimates is greater than that of the undiscounted unpaid loss estimates. This is because undiscounted liabilities normally contemplate an implicit risk margin for the uncertainty in the loss estimation process (e.g., under-estimation). Discounting removes this implicit risk margin and would subject the unpaid loss estimates to additional risks such as yields on the investment portfolio. Additionally, future loss payments could occur more or less rapidly than expected due to random variation and the timing of claim payments. We made no adjustment to account for these risks. The interest rate used to discount the unpaid losses was provided by the County.

### **Use and Distribution**

Use of this report is limited to the County for the specific purpose described in the Introduction section. Other uses are prohibited without an executed release with Aon.



Distribution within the County's Bureau of Finance is unrestricted. We recognize that this report may be distributed to the County's auditors. No further distribution of this report is permitted unless authorized by Aon. The report should only be distributed in its entirety including all supporting exhibits.



# Executive Summary

## Summary of Results

The unpaid liability estimates as of 11/30/23 by coverage and confidence level are shown in the table below. The estimated unpaid liability estimates include case reserves, the development of known claims and IBNR claims. The amounts are limited to the self-insured retention.

The present value of the estimated outstanding losses is the estimated outstanding losses discounted to reflect future investment earnings assuming a 4.48% interest rate.

Coverage (1)	Full Value			Present Value		
	Expected (2)	70% Level (3)	90% Level (4)	Expected (5)	70% Level (6)	90% Level (7)
<b>I. Healthcare Facilities</b>						
(Ai) Indemnity	\$23,543,247	\$25,343,402	\$29,065,519	\$19,967,221	\$21,493,947	\$24,650,705
(Aii) Medical	11,698,364	12,949,962	15,917,383	9,907,296	10,967,269	13,480,366
<b>(A) Workers Compensation</b>	<b>\$35,241,611</b>	<b>\$38,293,363</b>	<b>\$44,982,902</b>	<b>\$29,874,517</b>	<b>\$32,461,216</b>	<b>\$38,131,071</b>
(Bi) Cermak	3,100,000	3,218,555	6,337,552	2,661,814	2,763,611	5,441,737
(Bii) John H. Stroger	133,343,001	151,529,055	225,312,986	115,346,370	131,077,944	194,903,631
(Biii) Oak Forest/Unspecified	141,285	145,399	285,107	125,085	128,727	252,416
(Biv) Provident	3,380,000	3,507,707	7,105,087	2,893,540	3,002,867	6,082,501
<b>(B) Medical Malpractice</b>	<b>\$139,964,286</b>	<b>\$158,400,715</b>	<b>\$239,040,733</b>	<b>\$121,026,809</b>	<b>\$136,973,149</b>	<b>\$206,680,286</b>
(C) Claim Expense	3,158,535	3,600,730	4,579,875	2,731,178	3,113,543	3,960,208
<b>(D) Subtotal</b>	<b>\$178,364,431</b>	<b>\$200,294,808</b>	<b>\$288,603,510</b>	<b>\$153,632,504</b>	<b>\$172,547,908</b>	<b>\$248,771,565</b>
<b>II. General Government</b>						
(Ei) Indemnity	\$218,388,800	\$240,525,690	\$290,759,797	\$180,600,161	\$198,906,621	\$240,448,531
(Eii) Medical	74,053,646	82,244,128	102,068,876	63,150,647	70,135,235	87,041,164
<b>(E) Workers Compensation</b>	<b>\$292,442,446</b>	<b>\$322,769,818</b>	<b>\$392,828,674</b>	<b>\$243,750,808</b>	<b>\$269,041,857</b>	<b>\$327,489,696</b>
(F) General liability	6,556,540	7,167,087	12,582,690	6,222,929	6,802,409	11,942,455
(G) Automobile liability	3,357,131	3,562,813	6,506,729	3,151,651	3,344,744	6,108,472
(H) Law enforcement liability	397,877,258	455,232,364	631,592,648	336,427,789	384,924,784	534,047,407
(I) Other liability	103,977,705	117,715,085	153,521,194	89,547,019	101,377,838	132,214,548
(J) Claim Expense	150,612,972	171,698,788	218,388,809	128,122,868	146,060,069	185,778,158
<b>(K) Subtotal</b>	<b>\$954,824,052</b>	<b>\$1,078,145,954</b>	<b>\$1,415,420,743</b>	<b>\$807,223,064</b>	<b>\$911,551,701</b>	<b>\$1,197,580,735</b>
<b>(L) Total</b>	<b>\$1,133,188,483</b>	<b>\$1,278,440,762</b>	<b>\$1,704,024,253</b>	<b>\$960,855,568</b>	<b>\$1,084,099,609</b>	<b>\$1,446,352,300</b>

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



### Comparison to prior

Undiscounted outstanding losses excluding claim expenses increased from \$720.3 million as of November 30, 2022, to \$979.4 million as of November 30, 2023. 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 the table below (in thousands).

Time Period (1)	As of 11/30/22			As of 11/30/23			Change		
	Case Reserves (2)	IBNR (3)	Total (4)	Case Reserves (5)	IBNR (6)	Total (7)	Case Reserves (8)	IBNR (9)	Total (10)
Prior	\$54,063	\$11,964	\$66,027	\$112,492	\$26,766	\$139,258	\$58,429	\$14,802	\$73,231
12/1/2001	27	7	34	0	9	9	(27)	2	(25)
12/1/2002	4,391	127	4,518	4,986	154	5,140	595	27	621
12/1/2003	2,042	237	2,279	2,008	216	2,224	(34)	(21)	(55)
12/1/2004	1,067	283	1,350	768	186	954	(299)	(97)	(396)
12/1/2005	2,934	254	3,188	890	211	1,101	(2,044)	(43)	(2,087)
12/1/2006	5,666	637	6,303	5,547	545	6,092	(119)	(92)	(211)
12/1/2007	1,982	602	2,584	141	455	595	(1,841)	(147)	(1,989)
12/1/2008	1,507	532	2,039	449	398	848	(1,058)	(134)	(1,191)
12/1/2009	2,321	559	2,881	2,074	757	2,831	(247)	198	(49)
12/1/2010	3,564	1,151	4,715	3,392	1,133	4,526	(172)	(17)	(189)
12/1/2011	9,477	3,501	12,977	5,632	3,685	9,317	(3,845)	184	(3,661)
12/1/2012	10,169	2,165	12,334	8,260	1,756	10,016	(1,909)	(409)	(2,318)
12/1/2013	29,814	4,612	34,426	28,052	4,119	32,171	(1,761)	(493)	(2,254)
12/1/2014	21,730	6,714	28,444	4,935	5,306	10,241	(16,795)	(1,408)	(18,203)
12/1/2015	28,533	9,096	37,629	26,505	7,874	34,379	(2,028)	(1,222)	(3,250)
12/1/2016	24,355	11,995	36,350	19,874	9,838	29,711	(4,482)	(2,157)	(6,639)
12/1/2017	25,595	15,841	41,436	27,769	14,659	42,427	2,173	(1,182)	991
12/1/2018	26,553	27,530	54,083	22,502	21,450	43,953	(4,051)	(6,080)	(10,130)
12/1/2019	71,796	43,581	115,377	65,079	32,002	97,081	(6,718)	(11,579)	(18,297)
12/1/2020	46,052	63,210	109,262	62,382	45,976	108,358	16,330	(17,235)	(905)
12/1/2021	47,532	94,536	142,068	129,804	84,592	214,396	82,271	(9,943)	72,328
12/1/2022				69,795	113,995	183,790	69,795	113,995	183,790
Total	\$421,172	\$299,135	\$720,306	\$603,336	\$376,081	\$979,417	\$182,164	\$76,946	\$259,111

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





### 12/1/23-24 Projection

The below table displays the projected ultimate limited losses for 12/1/23-24. The projected ultimate limited losses are the accrual value of losses with accident dates during 12/1/23-24 regardless of report or payment date.

The present value of the estimated outstanding losses is the estimated outstanding losses discounted to reflect future investment earnings and is based on a 4.48% interest rate.

Coverage (1)	Full Value			Present Value		
	Expected (2)	70% Level (3)	90% Level (4)	Expected (5)	70% Level (6)	90% Level (7)
<b>I. Healthcare Facilities</b>						
(Ai) Indemnity	\$4,700,000	\$5,193,000	\$3,137,000	\$4,000,000	\$4,420,000	\$2,670,000
(Aii) Medical	<u>2,588,000</u>	<u>2,929,000</u>	<u>3,784,000</u>	<u>2,320,000</u>	<u>2,626,000</u>	<u>3,392,000</u>
<b>(A) Workers Compensation</b>	<b>\$7,288,000</b>	<b>\$8,122,000</b>	<b>\$6,921,000</b>	<b>\$6,320,000</b>	<b>\$7,046,000</b>	<b>\$6,062,000</b>
(Bi) Cermak	870,000	435,000	986,000	670,000	335,000	759,000
(Bii) John H. Stroger	27,600,000	30,415,000	54,967,000	21,100,000	23,252,000	42,022,000
(Biii) Oak Forest/Unspecified	23,000	24,000	48,000	17,000	18,000	36,000
(Biv) Provident	<u>1,140,000</u>	<u>570,000</u>	<u>1,286,000</u>	<u>880,000</u>	<u>440,000</u>	<u>993,000</u>
<b>(B) Medical Malpractice</b>	<b>\$29,633,000</b>	<b>\$31,444,000</b>	<b>\$57,287,000</b>	<b>\$22,667,000</b>	<b>\$24,045,000</b>	<b>\$43,810,000</b>
<b>(C) Subtotal</b>	<b>\$36,921,000</b>	<b>\$39,566,000</b>	<b>\$64,208,000</b>	<b>\$28,987,000</b>	<b>\$31,091,000</b>	<b>\$49,872,000</b>
<b>II. General Government</b>						
(Di) Indemnity	\$60,100,000	\$33,776,000	\$43,082,000	\$49,700,000	\$27,931,000	\$35,627,000
(Dii) Medical	<u>23,200,000</u>	<u>26,522,000</u>	<u>35,610,000</u>	<u>20,800,000</u>	<u>23,778,000</u>	<u>31,926,000</u>
<b>(D) Workers Compensation</b>	<b>\$83,300,000</b>	<b>\$60,298,000</b>	<b>\$78,692,000</b>	<b>\$70,500,000</b>	<b>\$51,709,000</b>	<b>\$67,553,000</b>
(E) General liability	820,000	442,000	859,000	717,000	386,000	751,000
(F) Automobile liability	2,040,000	2,157,000	4,168,000	1,840,000	1,945,000	3,759,000
(G) Law enforcement liability	29,400,000	32,905,000	53,930,000	22,900,000	25,630,000	42,006,000
(H) Other liability	16,400,000	18,910,000	26,407,000	13,000,000	14,990,000	20,932,000
<b>(I) Subtotal</b>	<b>\$131,960,000</b>	<b>\$114,712,000</b>	<b>\$164,056,000</b>	<b>\$108,957,000</b>	<b>\$94,660,000</b>	<b>\$135,001,000</b>
<b>(J) Total</b>	<b>\$168,881,000</b>	<b>\$154,278,000</b>	<b>\$228,264,000</b>	<b>\$137,944,000</b>	<b>\$125,751,000</b>	<b>\$184,873,000</b>

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



### Projected Paid Losses

We project losses paid during 12/1/23-24 through 12/1/25-26 to be as shown below. The projected losses paid are the claim disbursements during 12/1/23-24, 12/1/24-25, and 12/1/25-26, regardless of accident or report date.

Coverage (1)	FY2024 (2)	FY2025 (3)	FY2026 (4)
<b>I. Healthcare Facilities</b>			
(Ai) Indemnity	\$5,370,977	\$5,114,006	\$4,962,506
(Aii) Medical	<u>4,446,091</u>	<u>3,608,337</u>	<u>3,348,131</u>
<b>(A) Workers Compensation</b>	<b>\$9,817,068</b>	<b>\$8,722,343</b>	<b>\$8,310,637</b>
(Bi) Cermak	343,659	400,428	474,411
(Bii) John H. Stroger	19,058,709	21,891,027	22,904,025
(Biii) Oak Forest/Unspecified	28,122	24,724	23,056
(Biv) Provident	<u>319,089</u>	<u>459,549</u>	<u>542,027</u>
<b>(B) Medical Malpractice</b>	<b>\$19,749,579</b>	<b>\$22,775,729</b>	<b>\$23,943,519</b>
<b>(C) Subtotal</b>	<b>\$29,566,647</b>	<b>\$31,498,072</b>	<b>\$32,254,155</b>
<b>II. General Government</b>			
(Di) Indemnity	\$54,001,187	\$55,194,944	\$57,384,724
(Dii) Medical	<u>16,356,084</u>	<u>17,267,739</u>	<u>18,413,955</u>
<b>(D) Workers Compensation</b>	<b>\$70,357,271</b>	<b>\$72,462,682</b>	<b>\$75,798,679</b>
(E) General liability	3,579,280	2,094,722	1,089,999
(F) Automobile liability	1,821,464	1,840,534	1,957,477
(G) Law enforcement liability	50,914,516	46,658,072	40,341,503
(H) Other liability	9,311,781	8,743,413	8,495,935
<b>(I) Subtotal</b>	<b>\$135,984,313</b>	<b>\$131,799,424</b>	<b>\$127,683,594</b>
<b>(J) Total</b>	<b>\$165,550,960</b>	<b>\$163,297,496</b>	<b>\$159,937,749</b>

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

### Observations/Findings

Estimated outstanding losses as of November 30, 2023, and November 30, 2024 are shown in Summary Exhibit 1.

A comparison of estimated outstanding losses as of November 30, 2022 and November 30, 2023 is shown in Summary Exhibit 2. Detail by year and coverage is provided in Summary Exhibits 10 through 24.

Estimated outstanding losses increased \$312.5 million from our prior analysis. This is primarily driven by an increase in LEL (\$178.8 million) and smaller increases in WC General Government (\$47.5 million), MM Stroger (\$17.4 million), and OL (\$13.9 million).

Case reserves are up \$182.2 million from our prior analysis. LEL reserves increased by \$128.9 million compared to the prior study. This increase is driven by new claims occurring from 12/1/21 to 11/30/22 where 9 new claims relating to accusations of misconduct by a police officer were reported, each with an incurred value of \$5 million. In addition, a new claim was reported in 1982 with an incurred value of



\$22 million. At the expected level, LEL IBNR is up \$49.9 million with the majority of the increase in the years prior to 12/1/2001 and in policy years 12/1/21-22 and 12/1/22-23.

Claim expense for General Government increased \$53 million. We estimate claim expense as a percentage of total reserves, therefore the increase in the expected outstanding claim expenses is a direct result of the increase in outstanding losses.

Summary Exhibit 4 divides the estimated outstanding losses and projected ultimate losses for the liability coverages among Healthcare and Government. The estimates are split based on the distribution of: i) fiscal year 2023 payments, ii) case reserves, and iii) cumulative reported incurred amounts as of November 30, 2023.

Beginning with this analysis Oak Forest and Unspecified MM have been combined into one segment.

### **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. Our estimate of outstanding loss for LEL is particularly impacted by this uncertainty.
- 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 law enforcement liability segment continue to be newly reported or significantly revalued as has happened over the last few years. Many of 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 11/30/23. The County should be aware that these critical assumptions could significantly influence our estimates up or down.



## Program Description

The self-insurance program for the County has three components: workers compensation, medical malpractice, and liability. Liability includes general, automobile, law enforcement, and other liability. Other liability includes error and omissions, employment practices, and public officials liability. The tables below display the historical self-insured retentions by segment.

### Historical Workers Compensation Self-Insured Retentions

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

### Historical Medical Malpractice Self-Insured Retentions

Claim Period (1)	Specific (2)	Aggregate (3)
12/31/00 to 12/30/01	\$10,000,000	\$25,000,000
12/31/01 to 12/30/02	15,000,000	50,000,000
12/31/02 to 12/30/03	20,000,000	80,000,000
12/31/03 to 12/30/04	20,000,000	None
12/31/04 to 12/30/05	20,000,000	None
12/31/05 to 2/28/09	20,000,000	None
3/1/10 to 2/28/13	40,000,000	None
3/1/13 to 6/30/15	30,000,000	None
7/1/15 to 6/30/20	25,000,000	80,000,000
7/1/20 to present	35,000,000	80,000,000



### Historical Liability Self-Insured Retentions

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

The 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 County State's Attorney's Office. In some situations, outside legal counsel may be assigned.

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

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



## Data

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Cumulative loss data valued as of November 30, 2023 was provided to us by the County for all coverages. For workers compensation, the analysis is completed net of recoveries. Recovery amounts were not provided for the liability and medical malpractice coverages.

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

The County also provided vehicles and law enforcement officers for 12/1/23-24 and medical malpractice exposures for years through 12/1/22-23. Starting with the November 30, 2022 analysis, medical malpractice exposure for Cermak Health Services only includes Physician Full-time Equivalent (FTE) amounts. 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.

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.

## Actuarial Analysis

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### Overview

The primary objective is to estimate the ultimate settlement value of the losses incurred (occurring) during the period. It is normal for the valuation of casualty losses to increase during the time period from occurrence to settlement. The difference between the ultimate settlement value and the current reported (incurred) loss valuation is referred to as “IBNR”: Incurred but not reported. IBNR consists of two quantities, both of which are estimates:

- A provision for losses that have occurred as of the valuation date, but have not been reflected in the loss data (Incurred but not yet reported, or IBNYR), and
- A provision for losses that are reflected in the loss data, but are valued at less than the ultimate settlement value (Incurred but not enough recorded, or IBNER).

Subtracting the amount of losses paid to date (a known quantity) gives us an estimate of the County’s remaining liability for unpaid losses within its retention.

Performing an actuarial analysis involves developing a qualitative understanding of the risk and applying actuarial techniques and methods to the available data. These methods attempt to project unpaid and / or unreported losses to their ultimate settlement value. Each method requires certain underlying assumptions and varies in its responsiveness to loss data. As a result, not all methods are appropriate for use in all circumstances. For each unique situation, actuaries assess the strengths and weaknesses inherent in the results of each method in producing reasonable estimates of ultimate loss.

The following actuarial methods were employed in developing the recommendations contained in this report.

### Methods Used to Estimate Ultimate Losses

#### Paid and Incurred Loss Development Methods

The development method tracks the changes in paid or reported losses over time (e.g., in annual evaluations). The Paid and Incurred Loss Development Methods are based on the assumption that losses from a group of claims are paid or reported in a sufficiently consistent pattern such that prior experience can be used to predict future development. The term “loss development” is used to describe the changes in loss amounts, either paid or reported, that occur over time in a group of claims. In order to reflect loss development arithmetically, incremental loss development factors are calculated by dividing loss amounts at a given evaluation date by those values as of the immediately preceding evaluation date. The incremental loss development factors are then accumulated multiplicatively to derive cumulative loss development factors.



The Loss Development Methods can be applied using either cumulative paid losses or incurred losses (cumulative paid losses plus case reserves). For a given group of claims (grouped by accident year, report year, or on some other basis), cumulative paid or incurred losses are multiplied by the appropriate cumulative loss development factor to estimate ultimate losses.

The Paid and Incurred Loss Development Methods rely heavily on data as of the most recent evaluation date and assume past patterns are predictive of future development. The Incurred Loss Development Method assumes that claim reporting and case reserving practices remain relatively consistent over time. One advantage of the incurred development method is that it uses the greatest amount of data available by including payments and case reserve estimates. A potential disadvantage is that estimates can be distorted by changes in reserving philosophy.

The Paid Loss Development Method assumes that claim payment and settlement patterns remain relatively consistent over time. A primary advantage of this method that estimates are not distorted by changes in reserving philosophy since case reserves are not used in the calculation. However, the estimates can be influenced by unusual large settlements or changes in payment pattern.

If the program under study has inadequate history to develop predictive loss development patterns, then other sources of loss development information may be considered.

#### Outstanding Loss Development Method

The Outstanding Loss Development Method is similar to the Paid and Incurred Loss Development Methods. The difference is that the projected values are “unpaid losses” and not ultimate losses. It uses assumed paid and reported loss development factors to derive the development factor for case outstanding. The following presents the formula for the case outstanding development factor:

$$\frac{(\text{Reported LDF to Ultimate} - 1.00) \times (\text{Paid LDF to Ultimate})}{(\text{Paid LDF to Ultimate} - \text{Reported LDF to Ultimate})} + 1$$

The resulting case development factor includes provisions for case reserves and IBNR (the broad definition of IBNR, which includes development on known claims). The ultimate loss estimate equals paid loss plus (case reserve times reserve development factor).

Since the Outstanding Loss Development Method relies on both the payout and reporting patterns to determine the future changes in case reserves, this method is susceptible to distortion due to changes in case reserving practices and payment patterns.

#### Paid and Incurred Bornhuetter-Ferguson (BF) Methods

The BF method is a combination of the paid or incurred development method and an a priori expected loss figure which is estimated from other sources. Effectively, a “credibility” weight, which is equivalent to the inverse of the selected development factor, is given to the development method, and the complement of the weight is given to the a priori expected amount. The BF method avoids potential distortions caused by unusual variations in paid or incurred amounts at early development ages. In our analysis, a priori expected loss rates (ELRs) are selected. The assumed ELRs are then applied to the subject exposure to arrive at the expected loss amounts.

As the weight assigned to the Loss Development Methods is equal to the percent of losses paid or reported, estimates for the most recent periods will principally be based on the a priori expected amount. For more mature periods, the BF Method estimates will principally be based on the Loss Development Methods. Thus, the BF Methods are less responsive to actual loss experience than the Loss Development Methods, but more responsive than the assumed a priori loss estimate. A potential disadvantage is that these methods do not react quickly to changes in the claims handling environment.



## Paid and Incurred Cape Cod Methods

The Cape Cod Method is a special case of the BF Method described above, with the ELRs calculated via a specific method. That is, an ELR is computed as a weighted average of the ultimate loss rates arising from the development method (adjusted to a common cost level), with the weights proportional to the percentage developed for each loss period and perhaps also to the exposure during the loss period. This ELR is then adjusted to the cost level for each year, and multiplied by the exposure for that year, to determine an expected loss estimate conceptually similar to the a priori loss estimate used in the BF method.

The Cape Cod methods possess the same advantages and disadvantages as do the BF methods. An additional advantage is that the ELRs are based on the current loss data, and hence may be somewhat more responsive to the actual loss experience than are the BF methods.

## Frequency-Severity Method

In the frequency-severity method, the ultimate loss is estimated as the product of average claim cost (i.e., severity) and number of claims. The ultimate loss is derived separately for reported and unreported claims. For reported claims, the ultimate loss is derived by multiplying the number of reported claims by the ultimate average severity of these claims. The ultimate loss for unreported claims equals the product of the estimated number of unreported claims and the ultimate average severity of these claims. The number of unreported claims is calculated as the ultimate claim counts (using the claim development method similar to the loss development method described earlier) minus the number of reported claims. The average severity for unreported claims is calculated as the weighted average of ultimate severity from all prior years, adjusted for claim cost inflation.

## **Actuarial Assumptions**

The following assumptions and conditions have been used in this analysis:

### Emergence Pattern

The delay between the occurrence of claims and the recording of claims on the books of the County was considered in the estimation of loss development factors.

### Settlement Patterns

The rate at which claims are closed and its impact upon incurred losses was considered in the calculation of loss development factors.

### Development Patterns

The rate at which known cases develop to their ultimate level was included in the calculation of loss development factors. For loss development patterns, we relied on our analysis of historical experience as compiled by AM Best, the National Council on Compensation Insurance, and specific patterns as experienced by the County.



#### Frequency and Severity

Consideration of average and potential frequency and severity has been included in this analysis. However, no cause for a change in either frequency or severity has been cited by the County and no change has been assumed other than by ordinary loss cost trending.

#### Reopened Claim Potential

The effect of reopened claims is included in the calculation of loss development factors.

#### External Influences

This analysis contemplates a continuation of current social, economic, judicial, and legislative trends.

#### Discounting

Since the financial liability for WC and liability claims that have occurred as of the evaluation date of this analysis may not be paid out for many years, the investment income potential on outstanding losses may be recognized. Discounted outstanding liabilities are included in this report. The County has provided the interest rate of 4.13% used in this analysis.

#### Provision for Uncertainty

Ultimate losses are estimates and, as such, a degree of uncertainty is inherent. Estimates of outstanding loss are provided at the 70% and 90% confidence levels to provide a provision for the inherent uncertainty.

#### Reasonableness

Within the confines of the data provided, we believe the ultimate loss estimates provided in this report are reasonable. This judgement is made in light of developed and trended historic experience from which no material departure has been anticipated.

#### Loss Reserving Methods

All methods used in this report to estimate ultimate loss costs are standard actuarial techniques.



## Description of Exhibits

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### **Summary Exhibit 1**

This exhibit displays the summary of estimated total outstanding losses, both discounted and undiscounted, at the expected and 70% and 90% confidence levels as of 11/30/23, 11/30/24, and 11/30/25.

### **Summary Exhibit 2**

This exhibit displays the comparison of estimated total outstanding losses as of 11/30/23 to the prior estimate as of 11/30/22.

### **Summary Exhibit 3**

This exhibit displays the summary of projected ultimate losses, both discounted and undiscounted, at the 70% and 90% confidence levels for the 12/1/23-24, 12/1/24-25, and 12/1/25-26 policy years.

### **Summary Exhibit 4**

This exhibit displays the split of liability losses between Healthcare and Government.

### **Summary Exhibit 5**

This exhibit displays the summary of historical paid losses by fiscal year and coverage as well as projected payments for the 2024, 2025, and 2026 fiscal years.

### **Summary Exhibit 6**

This exhibit displays the summary of historical ultimate losses by fiscal year and coverage as well as projected ultimate losses for the 2024, 2025, and 2026 fiscal years.

### **Summary Exhibit 7**

This exhibit displays the calculation of claims-related expense reserves.

### **Summary Exhibit 8**

This exhibit displays the summary of the selected ultimate settlement values, along with the current reported incurred, paid losses, IBNR, case reserves, and total outstanding for medical malpractice.



### **Summary Exhibit 9**

This exhibit displays the split of loss payments between workers compensation, common liability claims, common medical malpractice claims, and catastrophe liability and medical malpractice claims. Catastrophe claims are defined as at least \$1 million for AL and at least \$3 million for GL, OL, and MM.

### **Summary Exhibit 10**

This exhibit displays the comparison of selected ultimate settlement values, along with the current reported incurred, paid losses, case reserves, IBNR, and total outstanding as of 11/30/23 to the prior estimates as of 11/30/22 by coverage.

### **Summary Exhibit 11**

This exhibit displays the comparison of selected ultimate settlement values, along with the current reported incurred, paid losses, case reserves, IBNR, and total outstanding as of 11/30/23 to the prior estimates as of 11/30/22 by policy period.

### **Summary Exhibits 12 – 24**

These exhibits display the comparison of selected ultimate settlement values, along with the current reported incurred, paid losses, case reserves, IBNR, and total outstanding as of 11/30/23 to the prior estimates as of 11/30/22 for each coverage.

### **Executive Summary**

This exhibit displays the summary of current exposure, reported claims, paid and incurred losses, along with estimated ultimate loss and ultimate loss rates by policy year. Also included is the loss forecast for the prospective policy year.

### **Exhibit 1**

This exhibit displays the summary of the eight actuarial techniques used in this analysis.

### **Exhibit 2**

This exhibit displays the summary of the selected ultimate settlement values, along with the current reported incurred, paid losses, IBNR, and total outstanding, which is the sum of IBNR and case reserves.

### **Exhibit 3**

This exhibit displays the chain ladder techniques. These techniques apply loss development factors against known losses and reserves.

### **Exhibits 4 & 5**

These exhibits display the Generalized Cape Cod method of analysis. This method basically takes all of the known experience as a function of development and applies the complement of the reciprocal of the loss development factor against an expected loss for each year.



**Exhibit 6**

This exhibit displays the Frequency and Severity method.

**Exhibits 7 & 8**

These exhibits display the reported and paid Bornhuetter-Ferguson methods.

**Exhibit 9**

This exhibit displays the major parameter values in the actuarial review.

**Exhibit 10**

This exhibit displays the unlimited and limited loss information.

**Exhibit 11**

This exhibit displays the analysis based on expected claim counts to develop projections for future years.

**Exhibit 12**

This exhibit displays the analysis based on expected loss rates to develop projections for future years.

**Exhibit 13 (WC Only)**

This exhibit displays the limited incurred and limited paid loss development factor selections for workers compensation.

**Exhibit 13 (MM Only)**

This exhibit displays the calculation of occupied bed equivalents for medical malpractice.

**FY2023 Payments**

This exhibit displays the summary of projected loss payments for the 2024 fiscal year.

**FY2024 Payments**

This exhibit displays the summary of projected loss payments for the 2025 fiscal year.

**FY2025 Payments**

This exhibit displays the summary of projected loss payments for the 2026 fiscal year.

**Large Claims Listing**

This exhibit displays the summary of claims of at least \$1 million.



**Incurred Triangle**

This exhibit displays the incurred loss development triangles and selections.

**Paid Triangle**

This exhibit displays the paid loss development triangles and selections.

**Claim Count Triangle**

This exhibit displays the frequency development triangles and selections.

**Exhibits**

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COOK COUNTY, ILLINOIS  
SUMMARY EXHIBITS

Summary Exhibit 1 (page 1)

Estimated Outstanding Losses

A. Estimated Outstanding Losses as of 11/30/23

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$23,543,247	\$25,343,402	\$29,065,519	\$19,967,221	\$21,493,947	\$24,650,705
(Aii) WC - Medical	<u>11,698,364</u>	<u>12,949,962</u>	<u>15,917,383</u>	<u>9,907,296</u>	<u>10,967,269</u>	<u>13,480,366</u>
(A) Workers compensation	\$35,241,611	\$38,293,363	\$44,982,902	\$29,874,517	\$32,461,216	\$38,131,071
(Bi) Cermak	3,100,000	3,218,555	6,337,552	2,661,814	2,763,611	5,441,737
(Bii) John H. Stroger	133,343,001	151,529,055	225,312,986	115,346,370	131,077,944	194,903,631
(Biii) Oak Forest/Unspecified	141,285	145,399	285,107	125,085	128,727	252,416
(Biv) Provident	3,380,000	3,507,707	7,105,087	2,893,540	3,002,867	6,082,501
(B) Medical malpractice	\$139,964,286	\$158,400,715	\$239,040,733	\$121,026,809	\$136,973,149	\$206,680,286
(C) Claim Expense Reserves	3,158,535	3,600,730	4,579,875	2,731,178	3,113,543	3,960,208
(D) Subtotal	\$178,364,431	\$200,294,808	\$288,603,510	\$153,632,504	\$172,547,908	\$248,771,565
<b>II. General Government</b>						
(Ei) WC - Indemnity	218,388,800	240,525,690	290,759,797	180,600,161	198,906,621	240,448,531
(Eii) WC - Medical	<u>74,053,646</u>	<u>82,244,128</u>	<u>102,068,876</u>	<u>63,150,647</u>	<u>70,135,235</u>	<u>87,041,164</u>
(E) Workers compensation	\$292,442,446	\$322,769,818	\$392,828,674	\$243,750,808	\$269,041,857	\$327,489,696
(F) General liability	6,556,540	7,167,087	12,582,690	6,222,929	6,802,409	11,942,455
(G) Automobile liability	3,357,131	3,562,813	6,506,729	3,151,651	3,344,744	6,108,472
(H) Law enforcement liability	397,877,258	455,232,364	631,592,648	336,427,789	384,924,784	534,047,407
(I) Other liability	103,977,705	117,715,085	153,521,194	89,547,019	101,377,838	132,214,548
(J) Claim Expense Reserves	150,612,972	171,698,788	218,388,809	128,122,868	146,060,069	185,778,158
(K) Subtotal	\$954,824,052	\$1,078,145,954	\$1,415,420,743	\$807,223,064	\$911,551,701	\$1,197,580,735
<b>Total</b>	<b>\$1,133,188,483</b>	<b>\$1,278,440,762</b>	<b>\$1,704,024,253</b>	<b>\$960,855,568</b>	<b>\$1,084,099,609</b>	<b>\$1,446,352,300</b>

B. Estimated Outstanding Losses as of 11/30/24

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$22,872,270	\$24,621,121	\$28,237,159	\$19,378,940	\$20,860,685	\$23,924,438
(Aii) WC - Medical	<u>9,840,273</u>	<u>10,893,075</u>	<u>13,389,171</u>	<u>8,230,561</u>	<u>9,111,141</u>	<u>11,198,915</u>
(A) Workers compensation	\$32,712,543	\$35,514,196	\$41,626,330	\$27,609,501	\$29,971,826	\$35,123,353
(Bi) Cermak	3,626,341	3,765,025	7,413,589	3,117,911	3,237,151	6,374,170
(Bii) John H. Stroger	141,884,292	161,235,255	239,745,418	123,128,268	139,921,180	208,052,897
(Biii) Oak Forest/Unspecified	136,163	140,127	274,771	119,940	123,432	242,033
(Biv) Provident	4,200,911	4,359,634	8,830,721	3,599,508	3,735,508	7,566,515
(B) Medical malpractice	\$149,847,707	\$169,500,041	\$256,264,499	\$129,965,627	\$147,017,272	\$222,235,615
(C) Claim Expense Reserves	3,381,571	3,854,991	4,903,278	2,924,037	3,333,402	4,239,854
(D) Subtotal	\$185,941,821	\$208,869,228	\$302,794,107	\$160,499,165	\$180,322,500	\$261,598,822
<b>II. General Government</b>						
(Ei) WC - Indemnity	224,487,613	247,242,706	298,879,671	185,464,765	204,264,324	246,925,197
(Eii) WC - Medical	<u>56,263,289</u>	<u>62,486,122</u>	<u>77,548,251</u>	<u>46,976,959</u>	<u>52,172,705</u>	<u>64,748,809</u>
(E) Workers compensation	\$280,750,902	\$309,728,828	\$376,427,922	\$232,441,724	\$256,437,029	\$311,674,007
(F) General liability	3,797,260	4,150,862	7,287,341	3,592,015	3,926,505	6,893,455
(G) Automobile liability	3,575,667	3,794,738	6,930,291	3,348,152	3,553,284	6,489,327
(H) Law enforcement liability	376,362,742	430,616,471	597,440,381	319,002,344	364,987,413	506,386,155
(I) Other liability	111,065,924	125,739,789	163,986,820	95,664,791	108,303,881	141,247,327
(J) Claim Expense Reserves	145,619,589	166,006,331	211,148,404	123,875,116	141,217,632	179,618,918
(K) Subtotal	\$921,172,083	\$1,040,037,018	\$1,363,221,159	\$777,924,142	\$878,425,743	\$1,152,309,188
<b>Total</b>	<b>\$1,107,113,904</b>	<b>\$1,248,906,246</b>	<b>\$1,666,015,266</b>	<b>\$938,423,307</b>	<b>\$1,058,748,244</b>	<b>\$1,413,908,010</b>

C. Estimated Outstanding Losses as of 11/30/25

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$21,907,625	\$23,582,717	\$27,046,248	\$18,548,837	\$19,967,111	\$22,899,626
(Aii) WC - Medical	<u>8,977,936</u>	<u>9,938,478</u>	<u>12,215,832</u>	<u>7,483,088</u>	<u>8,283,697</u>	<u>10,181,867</u>
(A) Workers compensation	\$30,885,561	\$33,521,195	\$39,262,079	\$26,031,925	\$28,250,808	\$33,081,493
(Bi) Cermak	4,125,913	4,283,702	8,434,899	3,559,011	3,695,120	7,275,941
(Bii) John H. Stroger	148,693,265	168,972,872	251,250,709	129,248,181	146,875,760	218,393,866
(Biii) Oak Forest/Unspecified	135,439	139,382	273,309	118,819	122,279	239,772
(Biv) Provident	4,931,361	5,117,683	10,366,199	4,235,642	4,395,677	8,903,729
(B) Medical malpractice	\$157,885,977	\$178,513,640	\$270,325,116	\$137,161,652	\$155,088,836	\$234,813,308
(C) Claim Expense Reserves	3,562,968	4,061,784	5,166,304	3,080,891	3,512,216	4,467,292
(D) Subtotal	\$192,334,507	\$216,096,619	\$314,753,500	\$166,274,468	\$186,851,859	\$272,362,093
<b>II. General Government</b>						
(Ei) WC - Indemnity	232,092,669	255,618,646	309,004,937	191,661,904	211,089,633	255,175,981
(Eii) WC - Medical	<u>60,723,606</u>	<u>67,439,758</u>	<u>83,695,949</u>	<u>51,105,525</u>	<u>56,757,899</u>	<u>70,439,253</u>
(E) Workers compensation	\$292,816,275	\$323,058,405	\$392,700,886	\$242,767,429	\$267,847,532	\$325,615,234
(F) General liability	2,551,538	2,789,138	4,896,670	2,387,092	2,609,379	4,581,081
(G) Automobile liability	3,865,133	4,101,938	7,491,328	3,618,543	3,840,241	7,013,393
(H) Law enforcement liability	334,268,891	382,454,675	530,620,360	283,335,163	324,178,710	449,767,868
(I) Other liability	106,763,806	120,869,281	157,634,821	92,045,431	104,206,336	135,903,407
(J) Claim Expense Reserves	131,683,879	150,119,622	190,941,624	112,020,339	127,703,187	162,429,492
(K) Subtotal	\$871,949,521	\$983,393,059	\$1,284,285,691	\$736,173,998	\$830,385,384	\$1,085,310,476
<b>Total</b>	<b>\$1,064,284,028</b>	<b>\$1,199,489,678</b>	<b>\$1,599,039,190</b>	<b>\$902,448,465</b>	<b>\$1,017,237,244</b>	<b>\$1,357,672,568</b>



Estimated Outstanding Losses

Footnotes:

Section I, Ai is from WC Health Care Indemnity Executive Summary.

Section I, Aii is from WC Health Care Medical Executive Summary.

Section I, Bi is from MM Cermak Executive Summary.

Section I, Bii is from MM Stroger Executive Summary.

Section I, Biii is from MM Oak Forest/Unspecified Executive Summary.

Section I, Biv is from MM Provident Executive Summary.

Section I, C is from Summary Exhibit 7.

Section II, Ei is from WC Government Indemnity Executive Summary.

Section II, Eii is from WC Government Medical Executive Summary.

Section II, F is from GL Executive Summary.

Section II, G is from AL Executive Summary.

Section II, H is from LEL Executive Summary.

Section II, I is from OL Executive Summary.

Section II, J is from Summary Exhibit 7.



COOK COUNTY, ILLINOIS  
SUMMARY EXHIBITS

Summary Exhibit 2

Comparison of Estimated Outstanding Losses

	As of November 30, 2022			As of November 30, 2023			Change		
	Case Reserves	IBNR	Total	Case Reserves	IBNR	Total	Case Reserves	IBNR	Total
I. Health Care Facilities									
(Ai) WC - Indemnity	\$15,645,020	\$7,495,734	\$23,140,754	\$16,399,868	\$7,143,380	\$23,543,247	\$754,847	(\$352,354)	\$402,493
(Aii) WC - Medical	<u>8,022,962</u>	<u>1,472,750</u>	<u>9,495,712</u>	<u>10,127,978</u>	<u>1,570,386</u>	<u>11,698,364</u>	<u>2,105,015</u>	<u>97,636</u>	<u>2,202,652</u>
(A) Workers compensation	\$23,667,982	\$8,968,483	\$32,636,466	\$26,527,845	\$8,713,766	\$35,241,611	\$2,859,863	(\$254,718)	\$2,605,145
(Bi) Cermak	50,000	2,980,000	3,030,000	120,000	2,980,000	3,100,000	70,000	0	70,000
(Bii) John H. Stroger	61,030,000	54,953,001	115,983,001	75,680,000	57,663,001	133,343,001	14,650,000	2,710,000	17,360,000
(Biii) Oak Forest/Unspecified	50,000	108,285	158,285	50,000	91,285	141,285	0	(17,000)	(17,000)
(Biv) Provident	150,000	3,240,000	3,390,000	100,000	3,280,000	3,380,000	(50,000)	40,000	(10,000)
(B) Medical malpractice	\$61,280,000	\$61,281,286	\$122,561,286	\$75,950,000	\$64,014,286	\$139,964,286	\$14,670,000	\$2,733,000	\$17,403,000
(C) Claim Expense Reserves		<u>2,757,639</u>	<u>2,757,639</u>		<u>3,158,535</u>	<u>3,158,535</u>	<u>0</u>	<u>400,896</u>	<u>400,896</u>
(D) Subtotal	\$84,947,982	\$73,007,408	\$157,955,390	\$102,477,845	\$75,886,586	\$178,364,431	\$17,529,863	\$2,879,178	\$20,409,041
II. General Government									
(Ei) WC - Indemnity	99,257,698	85,027,125	184,284,822	116,299,452	102,089,349	218,388,800	17,041,754	17,062,224	34,103,978
(Eii) WC - Medical	<u>50,594,507</u>	<u>10,035,907</u>	<u>60,630,414</u>	<u>58,664,154</u>	<u>15,389,493</u>	<u>74,053,646</u>	<u>8,069,646</u>	<u>5,353,585</u>	<u>13,423,232</u>
(E) Workers compensation	\$149,852,205	\$95,063,032	\$244,915,237	\$174,963,605	\$117,478,841	\$292,442,446	\$25,111,400	\$22,415,809	\$47,527,210
(F) General liability	4,955,483	1,838,702	6,794,184	4,978,283	1,578,258	6,556,540	22,800	(260,444)	(237,644)
(G) Automobile liability	1,639,412	2,566,732	4,206,144	646,844	2,710,287	3,357,131	(992,568)	143,555	(849,013)
(H) Law enforcement liability	135,609,312	83,463,663	219,072,975	264,491,979	133,385,279	397,877,258	128,882,667	49,921,616	178,804,283
(I) Other liability	44,167,301	45,952,849	90,120,150	55,777,363	48,200,343	103,977,705	11,610,062	2,247,493	13,857,555
(J) Claim Expense Reserves		<u>97,613,311</u>	<u>97,613,311</u>		<u>150,612,972</u>	<u>150,612,972</u>	<u>0</u>	<u>52,999,661</u>	<u>52,999,661</u>
(K) Subtotal	\$336,223,712	\$326,498,289	\$662,722,001	\$500,858,073	\$453,965,979	\$954,824,052	\$164,634,361	\$127,467,690	\$292,102,051
Total	<b>\$421,171,695</b>	<b>\$399,505,696</b>	<b>\$820,677,391</b>	<b>\$603,335,918</b>	<b>\$529,852,565</b>	<b>\$1,133,188,483</b>	<b>\$182,164,223</b>	<b>\$130,346,869</b>	<b>\$312,511,092</b>



COOK COUNTY, ILLINOIS  
SUMMARY EXHIBITS

Summary Exhibit 3 (page 1)

Projected Ultimate Losses

A. 12/1/2023-24 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$4,700,000	\$5,193,000	\$3,137,000	\$4,000,000	\$4,420,000	\$2,670,000
(Aii) WC - Medical	<u>2,588,000</u>	<u>2,929,000</u>	<u>3,784,000</u>	<u>2,320,000</u>	<u>2,626,000</u>	<u>3,392,000</u>
(A) Workers compensation	\$7,288,000	\$8,122,000	\$6,921,000	\$6,320,000	\$7,046,000	\$6,062,000
(Bi) Cermak	870,000	435,000	986,000	670,000	335,000	759,000
(Bii) John H. Stroger	27,600,000	30,415,000	54,967,000	21,100,000	23,252,000	42,022,000
(Biii) Oak Forest/Unspecified	23,000	24,000	48,000	17,000	18,000	36,000
(Biv) Provident	1,140,000	570,000	1,286,000	880,000	440,000	993,000
(B) Medical malpractice	\$29,633,000	\$31,444,000	\$57,287,000	\$22,667,000	\$24,045,000	\$43,810,000
(C) Subtotal	36,921,000	39,566,000	64,208,000	28,987,000	31,091,000	49,872,000
<b>II. General Government</b>						
(Di) WC - Indemnity	60,100,000	33,776,000	43,082,000	49,700,000	27,931,000	35,627,000
(Dii) WC - Medical	<u>23,200,000</u>	<u>26,522,000</u>	<u>35,610,000</u>	<u>20,800,000</u>	<u>23,778,000</u>	<u>31,926,000</u>
(D) Workers compensation	\$83,300,000	\$60,298,000	\$78,692,000	\$70,500,000	\$51,709,000	\$67,553,000
(E) General liability	820,000	442,000	859,000	717,000	386,000	751,000
(F) Automobile liability	2,040,000	2,157,000	4,168,000	1,840,000	1,945,000	3,759,000
(G) Law enforcement liability	29,400,000	32,905,000	53,930,000	22,900,000	25,630,000	42,006,000
(H) Other liability	16,400,000	18,910,000	26,407,000	13,000,000	14,990,000	20,932,000
(I) Subtotal	131,960,000	114,712,000	164,056,000	108,957,000	94,660,000	135,001,000
<b>Total</b>	<b>\$168,881,000</b>	<b>\$154,278,000</b>	<b>\$228,264,000</b>	<b>\$137,944,000</b>	<b>\$125,751,000</b>	<b>\$184,873,000</b>

B. 12/1/2024-25 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$5,000,000	\$5,525,000	\$6,105,000	\$4,200,000	\$4,641,000	\$5,128,000
(Aii) WC - Medical	<u>2,746,000</u>	<u>3,108,000</u>	<u>3,518,000</u>	<u>2,462,000</u>	<u>2,787,000</u>	<u>3,155,000</u>
(A) Workers compensation	\$7,746,000	\$8,633,000	\$9,623,000	\$6,662,000	\$7,428,000	\$8,283,000
(Bi) Cermak	900,000	450,000	225,000	690,000	345,000	173,000
(Bii) John H. Stroger	28,700,000	31,628,000	34,854,000	22,000,000	24,244,000	26,717,000
(Biii) Oak Forest/Unspecified	24,000	25,000	26,000	18,000	19,000	20,000
(Biv) Provident	1,190,000	595,000	298,000	910,000	455,000	228,000
(B) Medical malpractice	\$30,814,000	\$32,698,000	\$35,403,000	\$23,618,000	\$25,063,000	\$27,138,000
(C) Subtotal	38,560,000	41,331,000	45,026,000	30,280,000	32,491,000	35,421,000
<b>II. General Government</b>						
(Di) WC - Indemnity	62,800,000	35,294,000	19,835,000	52,000,000	29,224,000	16,424,000
(Dii) WC - Medical	<u>24,900,000</u>	<u>28,465,000</u>	<u>32,541,000</u>	<u>22,200,000</u>	<u>25,379,000</u>	<u>29,013,000</u>
(D) Workers compensation	\$87,700,000	\$63,759,000	\$52,376,000	\$74,200,000	\$54,603,000	\$45,437,000
(E) General liability	849,000	457,000	246,000	742,000	400,000	216,000
(F) Automobile liability	2,130,000	2,252,000	2,381,000	1,920,000	2,030,000	2,146,000
(G) Law enforcement liability	30,600,000	34,248,000	38,331,000	23,800,000	26,637,000	29,813,000
(H) Other liability	16,800,000	19,372,000	22,337,000	13,200,000	15,221,000	17,551,000
(I) Subtotal	138,079,000	120,088,000	115,671,000	113,862,000	98,891,000	95,163,000
<b>Total</b>	<b>\$176,639,000</b>	<b>\$161,419,000</b>	<b>\$160,697,000</b>	<b>\$144,142,000</b>	<b>\$131,382,000</b>	<b>\$130,584,000</b>

C. 12/1/2025-26 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
<b>I. Health Care Facilities</b>						
(Ai) WC - Indemnity	\$5,200,000	\$5,746,000	\$6,349,000	\$4,400,000	\$4,862,000	\$5,372,000
(Aii) WC - Medical	<u>2,905,000</u>	<u>3,288,000</u>	<u>3,722,000</u>	<u>2,604,000</u>	<u>2,948,000</u>	<u>3,337,000</u>
(A) Workers compensation	\$8,105,000	\$9,034,000	\$10,071,000	\$7,004,000	\$7,810,000	\$8,709,000
(Bi) Cermak	940,000	470,000	235,000	720,000	360,000	180,000
(Bii) John H. Stroger	29,800,000	32,840,000	36,190,000	22,900,000	25,236,000	27,810,000
(Biii) Oak Forest/Unspecified	25,000	26,000	27,000	19,000	20,000	21,000
(Biv) Provident	1,240,000	620,000	310,000	950,000	475,000	238,000
(B) Medical malpractice	\$32,005,000	\$33,956,000	\$36,762,000	\$24,589,000	\$26,091,000	\$28,249,000
(C) Subtotal	40,110,000	42,990,000	46,833,000	31,593,000	33,901,000	36,958,000
<b>II. General Government</b>						
(Di) WC - Indemnity	65,600,000	36,867,000	20,719,000	54,300,000	30,517,000	17,151,000
(Dii) WC - Medical	<u>26,700,000</u>	<u>30,523,000</u>	<u>34,894,000</u>	<u>23,800,000</u>	<u>27,208,000</u>	<u>31,104,000</u>
(D) Workers compensation	\$92,300,000	\$67,390,000	\$55,613,000	\$78,100,000	\$57,725,000	\$48,255,000
(E) General liability	877,000	473,000	255,000	767,000	413,000	223,000
(F) Automobile liability	2,210,000	2,337,000	2,471,000	1,990,000	2,104,000	2,225,000
(G) Law enforcement liability	31,600,000	35,367,000	39,583,000	24,700,000	27,645,000	30,941,000
(H) Other liability	17,100,000	19,718,000	22,736,000	13,500,000	15,566,000	17,949,000
(I) Subtotal	144,087,000	125,285,000	120,658,000	119,057,000	103,453,000	99,593,000
<b>Total</b>	<b>\$184,197,000</b>	<b>\$168,275,000</b>	<b>\$167,491,000</b>	<b>\$150,650,000</b>	<b>\$137,354,000</b>	<b>\$136,551,000</b>

Projected Ultimate Losses

Footnotes:

Section I, Ai is from WC Health Care Indemnity Executive Summary & Exhibit 13.

Section I, Aii is from WC Health Care Medical Executive Summary & Exhibit 13.

Section I, Bi is from MM Cermak Executive Summary & Exhibit 13.

Section I, Bii is from MM Stroger Executive Summary & Exhibit 13.

Section I, Biii is from MM Oak Forest Executive Summary & Exhibit 13.

Section I, Biv is from MM Provident Executive Summary & Exhibit 13.

Section II, Di is from WC Government Indemnity Executive Summary & Exhibit 13.

Section II, Dii is from WC Government Medical Executive Summary & Exhibit 13.

Section II, E is from GL Executive Summary & Exhibit 13.

Section II, F is from AL Executive Summary & Exhibit 13.

Section II, G is from LEL Executive Summary & Exhibit 13.

Section II, H is from OL Executive Summary & Exhibit 13.



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)
<b>1. FY2023 Payments</b>				
General liability		\$187,644	\$51,412	\$136,231
Automobile liability		1,209,013	24,338	1,184,675
Law enforcement liability		24,620,717	3,345,509	21,275,208
Other liability		1,112,990	226,276	886,714
Average		\$6,782,591	\$911,884	\$5,870,707
<b>2. 11/30/23 Case Reserves</b>				
General liability		4,978,283	3,595,000	1,383,283
Automobile liability		646,844	0	646,844
Law enforcement liability		264,491,979	14,486,851	250,005,128
Other liability		55,777,363	1,733,100	54,044,263
Average		\$81,473,617	\$4,953,738	\$76,519,879
<b>3. 11/30/23 Reported Incurred</b>				
General liability		16,538,759	5,561,981	10,976,778
Automobile liability		46,267,216	2,687,100	43,580,116
Law enforcement liability		468,273,145	47,510,540	420,762,605
Other liability		257,447,214	55,160,913	202,286,301
Average		\$197,131,583	\$27,730,133	\$169,401,450
<b>4. Ratio to Total</b>				
		Payments	13.4%	86.6%
		Case Reserves	6.1%	93.9%
		Reported Incurred	14.1%	85.9%
		Prior	15.5%	84.5%
		Selected	15.5%	84.5%
<b>5. Estimated Outstanding Losses</b>				
<b>Estimated Outstanding Losses as of 11/30/23</b>				
a. General Liability		\$6,556,540	\$1,016,264	\$5,540,277
b. Automobile Liability		3,357,131	520,355	2,836,776
c. Law Enforcement Liability		397,877,258	61,670,975	336,206,283
d. Other Liability		103,977,705	16,116,544	87,861,161
<b>Estimated Outstanding Losses as of 11/30/24</b>				
a. General Liability		\$3,797,260	\$588,575	\$3,208,685
b. Automobile Liability		3,575,667	554,228	3,021,438
c. Law Enforcement Liability		376,362,742	58,336,225	318,026,517
d. Other Liability		111,065,924	17,215,218	93,850,706
<b>Estimated Outstanding Losses as of 11/30/25</b>				
a. General Liability		\$2,551,538	\$395,488	\$2,156,050
b. Automobile Liability		3,865,133	599,096	3,266,037
c. Law Enforcement Liability		334,268,891	51,811,678	282,457,213
d. Other Liability		106,763,806	16,548,390	90,215,416
<b>6. Projected Ultimate Losses</b>				
<b>12/1/2023-24</b>				
a. General Liability		\$820,000	\$127,100	\$692,900
b. Automobile Liability		2,040,000	316,200	1,723,800
c. Law Enforcement Liability		29,400,000	4,557,000	24,843,000
d. Other Liability		16,400,000	2,542,000	13,858,000
<b>12/1/2024-25</b>				
a. General Liability		\$849,000	\$131,595	\$717,405
b. Automobile Liability		2,130,000	330,150	1,799,850
c. Law Enforcement Liability		30,600,000	4,743,000	25,857,000
d. Other Liability		16,800,000	2,604,000	14,196,000
<b>12/1/2025-26</b>				
a. General Liability		\$877,000	\$135,935	\$741,065
b. Automobile Liability		2,210,000	342,550	1,867,450
c. Law Enforcement Liability		31,600,000	4,898,000	26,702,000
d. Other Liability		17,100,000	2,650,500	14,449,500

Actual and Projected Paid Losses (\$000s)

	Actual Limited Paid Losses FY2020	Actual Limited Paid Losses FY2021	Actual Limited Paid Losses FY2022	Actual Limited Paid Losses FY2023	Average Paid Losses FY2020 to FY2023	Projected Paid Losses FY 2024	Projected Paid Losses FY 2025	Projected Paid Losses FY 2026
<b>I. Health Care Facilities</b>								
(Ai) WC - Indemnity	\$2,890	\$3,340	\$2,177	\$3,426	\$2,958	\$5,371	\$5,114	\$4,963
(Aii) WC - Medical	951	648	504	1,307	853	4,446	3,608	3,348
(A) Workers compensation	\$3,841	\$3,988	\$2,681	\$4,732	\$3,811	\$9,817	\$8,722	\$8,311
(Bi) Cermak	0	6,000	975	0	1,744	344	400	474
(Bii) John H. Stroger	48,050	17,609	34,049	28,733	32,110	19,059	21,891	22,904
(Biii) Oak Forest/Unspecified	0	0	0	0	0	28	25	23
(Biv) Provident	155	0	0	0	39	319	460	542
(B) Medical malpractice	\$48,205	\$23,609	\$35,024	\$28,733	\$33,893	\$19,750	\$22,776	\$23,944
(C) Subtotal	\$52,046	\$27,597	\$37,705	\$33,465	\$37,703	\$29,567	\$31,498	\$32,254
<b>II. General Government</b>								
(Di) WC - Indemnity	29,654	31,438	31,364	33,997	31,613	54,001	55,195	57,385
(Dii) WC - Medical	10,074	9,481	10,048	9,852	9,864	16,356	17,268	18,414
(D) Workers compensation	\$39,728	\$40,919	\$41,412	\$43,849	\$41,477	\$70,357	\$72,463	\$75,799
(E) General liability	367	464	116	188	284	3,579	2,095	1,090
(F) Automobile liability	245	214	9,716	1,209	2,846	1,821	1,841	1,957
(G) Law enforcement liability	2,062	8,249	19,948	24,621	13,720	50,915	46,658	40,342
(H) Other liability	24,342	4,245	9,588	1,113	9,822	9,312	8,743	8,496
(I) Subtotal	\$66,745	\$54,090	\$80,780	\$70,979	\$68,148	\$135,984	\$131,799	\$127,684
<b>Total</b>	<b>\$118,791</b>	<b>\$81,687</b>	<b>\$118,486</b>	<b>\$104,444</b>	<b>\$105,852</b>	<b>\$165,551</b>	<b>\$163,297</b>	<b>\$159,938</b>

Section I, Ai is from WC Health Care Indemnity FY2022 Payments, FY2023 Payments, & FY2024 Payments.

Section I, Aii is from WC Health Care Medical FY2022 Payments, FY2023 Payments, & FY2024 Payments.

Section I, Bi is from MM Cermak FY2022 Payments, FY2023 Payments, & FY2024 Payments.

Section I, Bii is from MM Stroger FY2022 Payments, FY2023 Payments, & FY2024 Payments.

Section I, Biii is from MM Oak Forest FY2022 Payments, FY2023 Payments, & FY2024 Payments.

Section I, Biv is from MM Provident FY2022 Payments, FY2023 Payments, & FY2024 Payments.

Section I, Bv is from MM Unspecified FY2022 Payments, FY2023 Payments, & FY2024 Payments.

Section II, Di is from WC Government Indemnity FY2022 Payments, FY2023 Payments, & FY2024 Payments.

Section II, Dii is from WC Government Medical FY2022 Payments, FY2023 Payments, & FY2024 Payments.

Section II, E is from GL FY2022 Payments, FY2023 Payments, & FY2024 Payments.

Section II, F is from AL FY2022 Payments, FY2023 Payments, & FY2024 Payments.

Section II, G is from LEL FY2022 Payments, FY2023 Payments, & FY2024 Payments.

Section II, H is from OL FY2022 Payments, FY2023 Payments, & FY2024 Payments.



COOK COUNTY, ILLINOIS  
SUMMARY EXHIBITS

Summary Exhibit 6

Projected Ultimate Limited Losses (\$000s)

	Projected Ultimate Limited Losses FY2020	Projected Ultimate Limited Losses FY2021	Projected Ultimate Limited Losses FY2022	Projected Ultimate Limited Losses FY2023	Average Ultimate Limited Losses 12/1/2019 to 12/1/2022	Projected Ultimate Limited Losses FY2024	Projected Ultimate Limited Losses FY2025	Projected Ultimate Limited Losses FY2026
<b>I. Health Care Facilities</b>								
(Ai) WC - Indemnity	\$3,200	\$4,400	\$4,900	\$4,300	\$4,200	\$4,700	\$5,000	\$5,200
(Aii) WC - Medical	1,776	1,573	3,250	2,700	2,325	2,588	2,746	2,905
<b>(A) Workers compensation</b>	<b>\$4,976</b>	<b>\$5,973</b>	<b>\$8,150</b>	<b>\$7,000</b>	<b>\$6,525</b>	<b>\$7,288</b>	<b>\$7,746</b>	<b>\$8,105</b>
(Bi) Cermak	340	480	690	810	580	870	900	940
(Bii) John H. Stroger	35,000	21,000	41,000	22,000	29,750	27,600	28,700	29,800
(Biii) Oak Forest/Unspecified	11	15	17	19	16	23	24	25
(Biv) Provident	600	500	800	900	700	1,140	1,190	1,240
<b>(B) Medical malpractice</b>	<b>\$35,951</b>	<b>\$21,995</b>	<b>\$42,507</b>	<b>\$23,729</b>	<b>\$31,046</b>	<b>\$29,633</b>	<b>\$30,814</b>	<b>\$32,005</b>
<b>(C) Subtotal</b>	<b>\$40,927</b>	<b>\$27,968</b>	<b>\$50,657</b>	<b>\$30,729</b>	<b>\$37,570</b>	<b>\$36,921</b>	<b>\$38,560</b>	<b>\$40,110</b>
<b>II. General Government</b>								
(Di) WC - Indemnity	52,500	46,000	57,000	69,000	56,125	60,100	62,800	65,600
(Dii) WC - Medical	19,000	17,400	23,000	27,000	21,600	23,200	24,900	26,700
<b>(D) Workers compensation</b>	<b>\$71,500</b>	<b>\$63,400</b>	<b>\$80,000</b>	<b>\$96,000</b>	<b>\$77,725</b>	<b>\$83,300</b>	<b>\$87,700</b>	<b>\$92,300</b>
(E) General liability	887	3,852	639	713	1,523	820	849	877
(F) Automobile liability	310	690	1,070	1,500	893	2,040	2,130	2,210
(G) Law enforcement liability	27,000	38,000	82,000	48,000	48,750	29,400	30,600	31,600
(H) Other liability	10,500	8,300	24,000	15,900	14,675	16,400	16,800	17,100
<b>(I) Subtotal</b>	<b>\$110,197</b>	<b>\$114,242</b>	<b>\$187,709</b>	<b>\$162,113</b>	<b>\$143,565</b>	<b>\$131,960</b>	<b>\$138,079</b>	<b>\$144,087</b>
<b>Total</b>	<b>\$151,124</b>	<b>\$142,210</b>	<b>\$238,366</b>	<b>\$192,842</b>	<b>\$181,136</b>	<b>\$168,881</b>	<b>\$176,639</b>	<b>\$184,197</b>

Section I, Ai is from WC Health Care Indemnity Executive Summary.

Section I, Aii is from WC Health Care Medical Executive Summary.

Section I, Bi is from MM Cermak Executive Summary.

Section I, Bii is from MM Stroger Executive Summary.

Section I, Biii is from MM Oak Forest Executive Summary.

Section I, Biv is from MM Provident Executive Summary.

Section I, Bv is from MM Unspecified Executive Summary.

Section II, Di is from WC Government Indemnity Executive Summary.

Section II, Dii is from WC Government Medical Executive Summary.

Section II, E is from GL Executive Summary.

Section II, F is from AL Executive Summary.

Section II, G is from LEL Executive Summary.

Section II, H is from OL Executive Summary.



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				
	12/1/2000	\$2,388,809	\$238,881	\$2,149,928
	12/1/2001	2,400,000	240,000	2,160,000
	12/1/2002	3,300,699	330,070	2,970,629
	12/1/2003	5,625,222	562,522	5,062,700
	12/1/2004	5,813,337	581,334	5,232,004
	12/1/2005	5,333,045	533,305	4,799,741
	12/1/2006	7,372,403	737,240	6,635,162
	12/1/2007	9,439,841	943,984	8,495,856
	12/1/2008	10,508,333	1,050,833	9,457,500
	12/1/2009	10,557,734	1,055,773	9,501,961
	12/1/2010	8,848,598	884,860	7,963,739
	12/1/2011	7,002,846	700,285	6,302,562
	12/1/2012	9,003,473	900,347	8,103,126
	12/1/2013	8,317,476	831,748	7,485,728
	12/1/2014	6,732,840	384,101	6,348,739
	12/1/2015	5,722,540	345,259	5,377,281
	12/1/2016	7,097,527	709,753	6,387,774
	12/1/2017	14,449,327	1,444,933	13,004,394
	12/1/2018	14,241,539	1,424,154	12,817,385
	12/1/2019	12,910,728	1,291,073	11,619,655
	12/1/2020	11,465,282	1,146,528	10,318,754
	12/1/2021	13,968,462	1,396,846	12,571,616
	12/1/2022	13,129,511	1,312,951	11,816,560
	Average	\$8,505,634	\$828,121	\$7,677,513
2. Average FY 2001-2023 Loss Payments		\$42,009,222	\$24,444,844	\$17,564,378
3. Ratio of Expense Payments to Loss Payments (Section 1 / Section 2)				
	Actual		3.39%	43.71%
	Prior		3.00%	43.00%
	Selected		3.10%	43.18%
4. Case Reserves as of 11/30/23		\$401,844,468	\$75,950,000	\$325,894,468
5. IBNR Reserves as of 11/30/23		249,888,453	64,014,286	185,874,167
6. Estimated Undiscounted Expense Reserves as of 11/30/23		153,771,506	3,158,535	150,612,972
7. Discount Factor		0.851	0.865	0.851
8. Estimated Discounted Expense Reserves as of 11/30/23		130,854,046	2,731,178	128,122,868
9. Estimated Outstanding Losses as of 11/30/24		644,649,299	149,847,707	494,801,592
9a. Estimated Case Reserves as of 11/30/24		396,402,973	81,313,124	315,089,849
9b. Estimated IBNR Reserves as of 11/30/24		248,246,326	68,534,583	179,711,744
10. Estimated Undiscounted Expense Reserves as of 11/30/24		149,001,160	3,381,571	145,619,589
11. Estimated Discounted Expense Reserves as of 11/30/24		126,799,153	2,924,037	123,875,116
12. Estimated Outstanding Losses as of 11/30/25		605,335,345	157,885,977	447,449,368
12a. Estimated Case Reserves as of 11/30/25		370,610,932	85,674,998	284,935,934
12b. Estimated IBNR Reserves as of 11/30/25		234,724,413	72,210,979	162,513,434
13. Estimated Undiscounted Expense Reserves as of 11/30/25		135,246,847	3,562,968	131,683,879
14. Estimated Discounted Expense Reserves as of 11/30/25		115,101,230	3,080,891	112,020,339

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, 2023

Claim Period (1)	Limited Paid Losses 11/30/23 (2)	Limited Case Reserves 11/30/23 (3)	Limited Reported Incurred Losses 11/30/23 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/23 (5)-(4) (6)	Estimated Outstanding Losses 11/30/23 (3) + (6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/23 (7) x (8) (9)
Prior	\$333,622,424	\$0	\$333,622,424	\$333,622,424	\$0	\$0	1.00	\$0
12/1/2001	25,697,540	0	25,697,540	25,697,540	0	0	1.00	0
12/1/2002	7,162,645	0	7,162,645	7,162,645	0	0	1.00	0
12/1/2003	39,571,000	0	39,571,000	39,571,000	0	0	1.00	0
12/1/2004	35,597,600	0	35,597,600	35,597,600	0	0	1.00	0
12/1/2005	25,370,000	0	25,370,000	25,370,000	0	0	1.00	0
12/1/2006	4,752,500	100,000	4,852,500	4,862,500	10,000	110,000	1.00	110,000
12/1/2007	8,302,000	0	8,302,000	8,302,000	0	0	1.00	0
12/1/2008	8,867,500	0	8,867,500	8,867,500	0	0	1.00	0
12/1/2009	11,202,500	0	11,202,500	11,202,500	0	0	1.00	0
12/1/2010	10,718,000	100,000	10,818,000	11,003,000	185,000	285,000	0.95	270,907
12/1/2011	37,843,999	4,350,000	42,193,999	42,775,000	581,001	4,931,001	0.94	4,653,939
12/1/2012	61,315,000	200,000	61,515,000	61,675,000	160,000	360,000	0.94	336,617
12/1/2013	2,050,000	150,000	2,200,000	2,625,000	425,000	575,000	0.93	532,199
12/1/2014	29,931,715	50,000	29,981,715	31,196,000	1,214,285	1,264,285	0.92	1,160,324
12/1/2015	11,112,500	5,380,000	16,492,500	18,325,000	1,832,500	7,212,500	0.92	6,618,172
12/1/2016	5,594,000	1,500,000	7,094,000	8,524,000	1,430,000	2,930,000	0.93	2,710,596
12/1/2017	30,835,000	5,500,000	36,335,000	38,470,000	2,135,000	7,635,000	0.91	6,979,504
12/1/2018	9,820,000	2,750,000	12,570,000	16,741,000	4,171,000	6,921,000	0.92	6,344,867
12/1/2019	14,442,500	15,350,000	29,792,500	35,951,000	6,158,500	21,508,500	0.90	19,311,678
12/1/2020	1,999,000	11,020,000	13,019,000	21,995,000	8,976,000	19,996,000	0.87	17,412,821
12/1/2021	0	29,500,000	29,500,000	42,507,000	13,007,000	42,507,000	0.84	35,576,925
12/1/2022	0	0	0	23,729,000	23,729,000	23,729,000	0.80	19,008,262
<b>Total</b>	<b>\$715,807,423</b>	<b>\$75,950,000</b>	<b>\$791,757,423</b>	<b>\$855,771,709</b>	<b>\$64,014,286</b>	<b>\$139,964,286</b>		<b>\$121,026,810</b>



COOK COUNTY, ILLINOIS  
SUMMARY EXHIBITS

Summary Exhibit 9

Summary of Loss Payments

Claim Period (1)	Workers Compensation (2)	Liability Common Claims (3)	Medical Malpractice (Excluding Large Claims) (4)	Liability Catastrophe Claims and Med Mal Claims (5)	Total (6)
<b>I. Actual Payments</b>					
FY1996	\$10,993,178	\$2,423,315	\$17,479,600	\$750,000	\$31,646,093
FY1997	8,868,321	3,072,412	6,189,500	0	18,130,233
FY1998	9,055,271	2,956,966	23,423,000	0	35,435,237
FY1999	9,294,766	3,339,344	19,898,900	15,772,220	48,305,230
FY2000	9,777,906	3,779,701	36,918,877	11,635,555	62,112,039
FY2001	10,377,014	3,842,381	30,313,000	17,894,722	62,427,117
FY2002	11,711,329	1,231,819	21,071,700	2,975,000	36,989,848
FY2003	11,743,398	2,184,184	28,420,541	5,200,000	47,548,123
FY2004	14,846,640	3,467,845	17,786,500	625,000	36,725,985
FY2005	16,136,301	2,754,958	13,779,500	17,750,000	50,420,759
FY2006	16,824,867	2,573,671	16,605,040	29,567,543	65,571,121
FY2007	16,278,694	7,784,841	24,334,820	16,760,000	65,158,355
FY2008	19,695,589	9,983,268	22,141,450	29,450,250	81,270,557
FY2009	24,349,162	8,530,865	16,469,000	0	49,349,027
FY2010	19,238,537	12,743,402	16,758,000	0	48,739,939
FY2011	21,648,616	6,855,702	18,765,000	44,634,001	91,903,319
FY2012	20,142,760	18,175,329	3,740,000	0	42,058,088
FY2013	18,890,070	9,919,330	9,292,499	20,000,000	58,101,899
FY2014	23,156,358	9,323,194	12,080,000	0	44,559,552
FY2015	23,678,804	6,752,584	14,303,000	12,000,000	56,734,388
FY2016	31,071,950	11,235,817	9,130,000	10,250,000	61,687,767
FY2017	33,526,713	9,334,603	4,039,000	27,125,000	74,025,316
FY2018	33,390,655	5,044,759	7,813,000	31,518,600	77,767,013
FY2019	36,515,313	11,625,831	4,888,860	39,870,000	92,900,004
FY2020	43,569,284	25,516,404	24,455,000	25,250,000	118,790,688
FY2021	44,906,576	10,097,925	14,959,000	17,723,363	87,686,863
FY2022	44,093,467	24,218,135	13,524,000	36,650,000	118,485,603
FY2023	48,581,096	27,130,364	5,857,500	22,875,000	104,443,960
<b>II. Estimated Future Payments</b>					
FY2024	80,174,339	65,627,042	19,749,579		165,550,960
FY2025	81,185,025	59,336,742	22,775,729		163,297,496
FY2026	84,109,316	51,884,915	23,943,519		159,937,749

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

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

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

COOK COUNTY, ILLINOIS  
SUMMARY EXHIBITS

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 11/30/22 (2)	Limited Reported Incurred Losses 11/30/23 (3)	Estimated Outstanding Losses 11/30/22 (6) - (9)	Estimated Outstanding Losses 11/30/23 (7) - (10)	Projected Ultimate Limited Losses 11/30/22 (6)	Projected Ultimate Limited Losses 11/30/23 (7)	Change in Ultimate (7) - (6) (8)	Percentage Change in Ultimate (7) / (6) - 1 (9)	Limited Paid Losses 11/30/22 (10)	Limited Paid Losses 11/30/23 (11)	Limited Case Reserves 11/30/22 (2) - (10) (12)	Limited Case Reserves 11/30/23 (3) - (11) (13)	Estimated IBNR 11/30/22 (4)-(12) (14)	Estimated IBNR 11/30/23 (5)-(13) (15)
<b>A. Health Care Facilities</b>														
(A) WC - Indemnity	\$108,160	\$112,340	\$23,141	\$23,543	\$119,455	\$119,483	\$28	0.0%	\$92,515	\$95,940	\$15,645	\$16,400	\$7,496	\$7,143
(Ai) WC - Medical	36,026	39,438	9,496	11,698	39,327	41,008	1,681	4.3%	28,003	29,310	8,023	10,128	1,473	1,570
(B) Cermak	29,237	29,307	3,030	3,100	33,507	32,287	(1,220)	-3.6%	29,187	29,187	50	120	2,980	2,980
(Bii) John H. Stroger	614,059	657,442	115,983	133,343	694,412	715,105	20,693	3.0%	553,029	581,762	61,030	75,680	54,953	57,663
(Biii) Oak Forest/Unspecified	74,184	74,184	158	141	74,316	74,275	(41)	-0.1%	74,134	74,134	50	50	108	91
(Biv) Provident	30,875	30,825	3,390	3,380	35,385	34,105	(1,280)	-3.6%	30,725	30,725	150	100	3,240	3,280
<b>B. General Government</b>														
(E) WC - Indemnity	483,720	534,759	184,285	218,389	621,947	636,848	14,901	2.4%	384,462	418,459	99,258	116,299	85,027	102,089
(Ei) WC - Medical	207,894	225,815	60,630	74,054	237,430	241,205	3,775	1.6%	157,299	167,151	50,595	58,664	10,036	15,389
(F) General liability	16,328	16,539	6,794	6,557	19,022	18,117	(905)	-4.8%	11,373	11,560	4,955	4,978	1,839	1,578
(G) Automobile liability	46,051	46,267	4,206	3,357	50,648	48,978	(1,670)	-3.3%	44,411	45,620	1,639	647	2,567	2,710
(H) Law enforcement liability	314,770	468,273	219,073	397,877	418,533	601,658	183,125	43.8%	179,160	203,781	135,609	264,492	83,464	133,385
(I) Other liability	244,724	257,447	90,120	103,978	307,077	305,648	(1,429)	-0.5%	200,557	201,670	44,167	55,777	45,953	48,200
<b>Total</b>	<b>\$2,206,027</b>	<b>\$2,492,635</b>	<b>\$720,306</b>	<b>\$979,417</b>	<b>\$2,651,059</b>	<b>\$2,868,716</b>	<b>\$217,657</b>	<b>8.2%</b>	<b>\$1,784,856</b>	<b>\$1,889,299</b>	<b>\$421,172</b>	<b>\$603,336</b>	<b>\$299,135</b>	<b>\$376,081</b>



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 11/30/22 (2)	Limited Reported Incurred Losses 11/30/23 (3)	Estimated Outstanding Losses 11/30/22 (6) - (9)	Estimated Outstanding Losses 11/30/23 (7) - (10)	Projected Ultimate Limited Losses 11/30/22 (6)	Projected Ultimate Limited Losses 11/30/23 (7)	Change in Ultimate (7) - (6) (8)	Percentage Change in Ultimate (7) / (6) - 1 (9)	Limited Paid Losses 11/30/22 (10)	Limited Paid Losses 11/30/23 (11)	Limited Case Reserves 11/30/22 (2) - (10)	Limited Case Reserves 11/30/23 (3) - (11)	Estimated IBNR 11/30/22 (4)-(12)	Estimated IBNR 11/30/23 (5)-(13)
Prior	\$700,118	\$777,611	\$66,027	\$139,258	\$712,082	\$804,377	\$92,295	13.0%	\$646,055	\$665,119	\$54,063	\$112,492	\$11,964	\$26,766
12/1/2001	55,148	55,121	34	9	55,155	55,130	(25)	0.0%	55,121	55,121	27	-	7	9
12/1/2002	34,839	35,481	4,518	5,140	34,966	35,635	669	1.9%	30,448	30,496	4,391	4,986	127	154
12/1/2003	128,786	128,791	2,279	2,224	129,023	129,007	(16)	0.0%	126,744	126,783	2,042	2,008	237	216
12/1/2004	76,859	76,807	1,350	954	77,142	76,994	(149)	-0.2%	75,792	76,039	1,067	768	283	186
12/1/2005	51,234	50,235	3,188	1,101	51,488	50,445	(1,043)	-2.0%	48,301	49,345	2,934	890	254	211
12/1/2006	40,758	40,772	6,303	6,092	41,395	41,317	(78)	-0.2%	35,092	35,225	5,666	5,547	637	545
12/1/2007	51,293	51,454	2,584	595	51,895	51,909	14	0.0%	49,311	51,314	1,982	141	602	455
12/1/2008	43,399	42,892	2,039	848	43,931	43,290	(642)	-1.5%	41,892	42,442	1,507	449	532	398
12/1/2009	51,862	51,915	2,881	2,831	52,421	52,672	251	0.5%	49,541	49,841	2,321	2,074	559	757
12/1/2010	72,594	72,578	4,715	4,526	73,745	73,711	(34)	0.0%	69,030	69,186	3,564	3,392	1,151	1,133
12/1/2011	74,676	70,916	12,977	9,317	78,177	74,601	(3,576)	-4.6%	65,200	65,285	9,477	5,632	3,501	3,685
12/1/2012	102,602	101,297	12,334	10,016	104,767	103,053	(1,714)	-1.6%	92,433	93,038	10,169	8,260	2,165	1,756
12/1/2013	68,279	70,052	34,426	32,171	72,891	74,171	1,280	1.8%	38,466	42,000	29,814	28,052	4,612	4,119
12/1/2014	82,826	79,735	28,444	10,241	89,540	85,040	(4,500)	-5.0%	61,096	74,799	21,730	4,935	6,714	5,306
12/1/2015	82,950	83,212	37,629	34,379	92,046	91,086	(960)	-1.0%	54,417	56,707	28,533	26,505	9,096	7,874
12/1/2016	73,533	71,443	36,350	29,711	85,527	81,280	(4,247)	-5.0%	49,177	51,569	24,355	19,874	11,995	9,838
12/1/2017	107,640	112,241	41,436	42,427	123,481	126,900	3,419	2.8%	82,045	84,473	25,595	27,769	15,841	14,659
12/1/2018	66,134	72,105	54,083	43,953	93,664	93,555	(109)	-0.1%	39,581	49,602	26,553	22,502	27,530	21,450
12/1/2019	110,961	119,122	115,377	97,081	154,542	151,124	(3,418)	-2.2%	39,165	54,043	71,796	65,079	43,581	32,002
12/1/2020	70,238	96,234	109,262	108,358	133,448	142,210	8,762	6.6%	24,186	33,852	46,052	62,382	63,210	45,976
12/1/2021	59,297	153,774	142,068	214,396	153,833	238,366	84,533	55.0%	11,765	23,970	47,532	129,804	94,536	84,592
12/1/2022		78,847		183,790	145,897	192,842	46,945	32.2%		9,052		69,795		113,995
Total	\$2,206,027	\$2,492,635	\$720,306	\$979,417	\$2,651,059	\$2,868,716	\$217,657	8.2%	\$1,784,856	\$1,889,299	\$421,172	\$603,336	\$299,135	\$376,081
Total (ex FY2023)	\$2,206,027	\$2,413,788	\$720,306	\$795,627	\$2,505,162	\$2,675,874	\$170,712	6.8%	\$1,784,856	\$1,880,248	\$421,172	\$533,541	\$299,135	\$262,086



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 11/30/22 (2)	Limited Reported Incurred Losses 11/30/23 (3)	Estimated Outstanding Losses 11/30/22 (6) - (9)	Estimated Outstanding Losses 11/30/23 (7) - (10)	Projected Ultimate Limited Losses 11/30/22 (6)	Projected Ultimate Limited Losses 11/30/23 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/22 (9)	Limited Paid Losses 11/30/23 (10)	Limited Case Reserves 11/30/22 (2) - (9) (11)	Limited Case Reserves 11/30/23 (3) - (10) (12)	Estimated IBNR 11/30/22 (4)-(11) (13)	Estimated IBNR 11/30/23 (5)-(12) (14)
Prior	\$56,101	\$56,417	\$4,475	\$4,451	\$56,520	\$56,741	\$221	\$52,045	\$52,290	\$4,056	\$4,127	\$419	\$324
12/1/2001	1,211	1,187	28	5	1,215	1,192	(23)	1,187	1,187	23	0	4	5
12/1/2002	3,277	3,265	266	228	3,290	3,270	(20)	3,024	3,042	253	223	13	5
12/1/2003	1,952	1,955	90	85	1,961	1,962	1	1,871	1,877	81	78	9	7
12/1/2004	2,816	2,667	307	10	2,870	2,677	(193)	2,563	2,667	253	0	54	10
12/1/2005	1,739	1,739	0	0	1,739	1,739	0	1,739	1,739	0	0	0	0
12/1/2006	2,087	2,087	8	6	2,095	2,093	(2)	2,087	2,087	0	0	8	6
12/1/2007	1,974	1,931	65	11	1,995	1,942	(53)	1,930	1,931	44	0	21	11
12/1/2008	2,135	2,135	84	78	2,160	2,156	(4)	2,076	2,078	59	57	25	21
12/1/2009	2,620	2,879	452	714	2,700	2,975	275	2,248	2,261	373	618	80	96
12/1/2010	2,008	2,002	111	66	2,050	2,026	(24)	1,939	1,960	69	43	42	24
12/1/2011	2,377	2,360	230	141	2,440	2,404	(36)	2,210	2,263	167	97	63	44
12/1/2012	3,753	3,761	655	549	3,890	3,866	(24)	3,235	3,317	517	444	137	105
12/1/2013	3,236	3,237	821	800	3,330	3,310	(20)	2,509	2,510	727	727	94	73
12/1/2014	1,706	1,739	295	171	1,810	1,810	0	1,515	1,639	192	99	104	71
12/1/2015	2,441	2,488	380	252	2,620	2,620	0	2,240	2,368	201	120	179	132
12/1/2016	2,818	2,793	875	693	3,090	2,990	(100)	2,215	2,297	603	495	272	197
12/1/2017	2,352	2,157	1,178	512	2,780	2,410	(370)	1,602	1,898	750	259	428	253
12/1/2018	3,916	4,061	2,864	2,223	4,600	4,500	(100)	1,736	2,277	2,181	1,785	684	439
12/1/2019	2,553	2,548	2,443	1,855	3,500	3,200	(300)	1,057	1,345	1,496	1,203	947	652
12/1/2020	3,160	3,282	3,678	3,170	4,700	4,400	(300)	1,022	1,230	2,138	2,052	1,540	1,118
12/1/2021	1,926	3,447	3,836	3,596	4,300	4,900	600	464	1,304	1,462	2,142	2,374	1,453
12/1/2022		2,203		3,927	3,800	4,300	500		373		1,830		2,097
Total	\$108,160	\$112,340	\$23,141	\$23,543	\$119,455	\$119,483	\$28	\$92,515	\$95,940	\$15,645	\$16,400	\$7,496	\$7,143
Total (ex FY2023)	\$108,160	\$110,137	\$23,141	\$19,616	\$115,655	\$115,183	(\$472)	\$92,515	\$95,568	\$15,645	\$14,570	\$7,496	\$5,046



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 11/30/22 (2)	Limited Reported Incurred Losses 11/30/23 (3)	Estimated Outstanding Losses 11/30/22 (6) - (9)	Estimated Outstanding Losses 11/30/23 (7) - (10)	Projected Ultimate Limited Losses 11/30/22 (6)	Projected Ultimate Limited Losses 11/30/23 (7)	Change in Ultimate (7) - (6)	Limited Paid Losses 11/30/22 (9)	Limited Paid Losses 11/30/23 (10)	Limited Case Reserves 11/30/22 (2) - (9)	Limited Case Reserves 11/30/23 (3) - (10)	Estimated IBNR 11/30/22 (4)-(11)	Estimated IBNR 11/30/23 (5)-(12)
Prior	\$13,747	\$13,834	\$658	\$428	\$13,750	\$13,864	\$114	\$13,092	\$13,436	\$655	\$398	\$3	\$30
12/1/2001	624	620	7	5	627	625	(2)	620	620	4	0	3	5
12/1/2002	919	917	21	20	920	919	(1)	899	899	20	18	1	2
12/1/2003	1,325	1,325	110	111	1,328	1,329	1	1,218	1,218	107	107	3	4
12/1/2004	1,385	1,261	128	0	1,389	1,261	(128)	1,261	1,261	124	0	4	0
12/1/2005	764	764	0	0	764	764	0	764	764	0	0	0	0
12/1/2006	925	925	0	0	925	925	0	925	925	0	0	0	0
12/1/2007	747	747	0	0	747	747	0	747	747	0	0	0	0
12/1/2008	694	694	5	5	695	695	0	690	690	5	5	1	1
12/1/2009	1,164	1,339	439	625	1,174	1,360	186	735	735	429	604	10	21
12/1/2010	682	680	16	16	684	684	0	668	668	14	13	2	4
12/1/2011	998	999	21	17	1,010	1,010	0	989	993	9	6	12	11
12/1/2012	1,642	1,642	491	484	1,670	1,670	0	1,179	1,186	463	456	28	28
12/1/2013	991	992	376	372	1,041	1,041	0	665	669	326	323	50	49
12/1/2014	541	529	67	67	552	552	0	485	485	56	44	11	23
12/1/2015	779	738	101	61	798	759	(39)	697	698	82	40	19	21
12/1/2016	776	732	299	246	806	760	(46)	507	514	269	217	30	28
12/1/2017	701	552	381	224	775	619	(156)	394	395	307	157	74	67
12/1/2018	2,149	2,059	1,684	1,390	2,226	2,125	(101)	542	735	1,607	1,324	77	66
12/1/2019	1,201	1,692	1,008	1,448	1,294	1,776	482	286	328	915	1,364	93	84
12/1/2020	1,498	1,445	1,281	1,023	1,800	1,573	(227)	519	550	979	895	302	128
12/1/2021	1,773	2,872	2,402	2,556	2,524	3,250	726	122	694	1,651	2,179	751	378
12/1/2022		2,079		2,600	1,828	2,700	872		100		1,979		621
Total	\$36,026	\$39,438	\$9,496	\$11,698	\$39,327	\$41,008	\$1,681	\$28,003	\$29,310	\$8,023	\$10,128	\$1,473	\$1,570
Total (ex FY2023)	\$36,026	\$37,359	\$9,496	\$9,099	\$37,499	\$38,308	\$809	\$28,003	\$29,210	\$8,023	\$8,149	\$1,473	\$949



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 11/30/22 (2)	Limited Reported Incurred Losses 11/30/23 (3)	Estimated Outstanding Losses 11/30/22 (6) - (9)	Estimated Outstanding Losses 11/30/23 (7) - (10)	Projected Ultimate Limited Losses 11/30/22 (6)	Projected Ultimate Limited Losses 11/30/23 (7)	Change in Ultimate (7) - (6)	Limited Paid Losses 11/30/22 (9)	Limited Paid Losses 11/30/23 (10)	Limited Case Reserves 11/30/22 (2) - (9)	Limited Case Reserves 11/30/23 (3) - (10)	Estimated IBNR 11/30/22 (4)-(11)	Estimated IBNR 11/30/23 (5)-(12)
Prior	\$12,012	\$12,012	\$0	\$0	\$12,012	\$12,012	\$0	\$12,012	\$12,012	\$0	\$0	\$0	\$0
12/1/2001	1,000	1,000	0	0	1,000	1,000	0	1,000	1,000	0	0	0	0
12/1/2002	19	19	0	0	19	19	0	19	19	0	0	0	0
12/1/2003	2,959	2,959	0	0	2,959	2,959	0	2,959	2,959	0	0	0	0
12/1/2004	1	1	0	0	1	1	0	1	1	0	0	0	0
12/1/2005	1,000	1,000	0	0	1,000	1,000	0	1,000	1,000	0	0	0	0
12/1/2006	3	3	0	0	3	3	0	3	3	0	0	0	0
12/1/2007	1,000	1,000	0	0	1,000	1,000	0	1,000	1,000	0	0	0	0
12/1/2008	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2009	1,310	1,310	0	0	1,310	1,310	0	1,310	1,310	0	0	0	0
12/1/2010	3	3	0	0	3	3	0	3	3	0	0	0	0
12/1/2011	10	10	0	0	10	10	0	10	10	0	0	0	0
12/1/2012	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2013	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2014	6,041	6,041	0	0	6,041	6,041	0	6,041	6,041	0	0	0	0
12/1/2015	2,930	2,930	170	150	3,100	3,080	(20)	2,930	2,930	0	0	170	150
12/1/2016	900	900	80	60	980	960	(20)	900	900	0	0	80	60
12/1/2017	0	0	300	240	300	240	(60)	0	0	0	0	300	240
12/1/2018	50	100	410	330	410	330	(80)	0	0	50	100	360	230
12/1/2019	0	0	470	340	470	340	(130)	0	0	0	0	470	340
12/1/2020	0	20	700	480	700	480	(220)	0	0	0	20	700	460
12/1/2021	0	0	900	690	900	690	(210)	0	0	0	0	900	690
12/1/2022		0		810	1,290	810	(480)		0		0		810
Total	\$29,237	\$29,307	\$3,030	\$3,100	\$33,507	\$32,287	(\$1,220)	\$29,187	\$29,187	\$50	\$120	\$2,980	\$2,980
Total (ex FY2023)	\$29,237	\$29,307	\$3,030	\$2,290	\$32,217	\$31,477	(\$740)	\$29,187	\$29,187	\$50	\$120	\$2,980	\$2,170



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 11/30/22 (2)	Limited Reported Incurred Losses 11/30/23 (3)	Estimated Outstanding Losses 11/30/22 (6) - (9)	Estimated Outstanding Losses 11/30/23 (7) - (10)	Projected Limited Losses 11/30/22 (6)	Projected Limited Losses 11/30/23 (7)	Change in Ultimate (7) - (6)	Limited Paid Losses 11/30/22 (9)	Limited Paid Losses 11/30/23 (10)	Limited Case Reserves 11/30/22 (2) - (9)	Limited Case Reserves 11/30/23 (3) - (10)	Estimated IBNR 11/30/22 (4)-(11)	Estimated IBNR 11/30/23 (5)-(12)
Prior	\$259,882	\$259,882	\$0	\$0	\$259,882	\$259,882	\$0	\$259,882	\$259,882	\$0	\$0	\$0	\$0
12/1/2001	23,648	23,648	0	0	23,648	23,648	0	23,648	23,648	0	0	0	0
12/1/2002	4,269	4,269	0	0	4,269	4,269	0	4,269	4,269	0	0	0	0
12/1/2003	8,378	8,378	0	0	8,378	8,378	0	8,378	8,378	0	0	0	0
12/1/2004	33,607	33,607	0	0	33,607	33,607	0	33,607	33,607	0	0	0	0
12/1/2005	23,325	23,325	0	0	23,325	23,325	0	23,325	23,325	0	0	0	0
12/1/2006	4,850	4,850	110	110	4,860	4,860	0	4,750	4,750	100	100	10	10
12/1/2007	7,002	7,002	0	0	7,002	7,002	0	7,002	7,002	0	0	0	0
12/1/2008	8,905	8,393	1,115	0	9,020	8,393	(628)	7,905	8,393	1,000	0	115	0
12/1/2009	9,093	9,093	0	0	9,093	9,093	0	9,093	9,093	0	0	0	0
12/1/2010	10,815	10,815	285	285	11,000	11,000	0	10,715	10,715	100	100	185	185
12/1/2011	39,869	40,369	4,681	4,931	40,700	40,950	250	36,019	36,019	3,850	4,350	831	581
12/1/2012	60,340	60,340	360	360	60,500	60,500	0	60,140	60,140	200	200	160	160
12/1/2013	2,275	1,775	875	575	2,500	2,200	(300)	1,625	1,625	650	150	225	425
12/1/2014	25,890	23,890	16,810	1,210	27,700	25,100	(2,600)	10,890	23,890	15,000	0	1,810	1,210
12/1/2015	11,018	10,618	7,393	7,063	12,630	12,300	(330)	5,238	5,238	5,780	5,380	1,613	1,683
12/1/2016	8,080	6,194	5,470	2,806	9,900	7,500	(2,400)	4,430	4,694	3,650	1,500	1,820	1,306
12/1/2017	33,435	36,335	5,165	7,265	36,000	38,100	2,100	30,835	30,835	2,600	5,500	2,565	1,765
12/1/2018	11,295	12,470	11,905	6,180	16,800	16,000	(800)	4,895	9,820	6,400	2,650	5,505	3,530
12/1/2019	20,337	29,693	22,514	20,558	28,600	35,000	6,400	6,087	14,443	14,250	15,250	8,264	5,308
12/1/2020	5,249	12,999	17,301	19,001	17,600	21,000	3,400	299	1,999	4,950	11,000	12,351	8,001
12/1/2021	2,500	29,500	22,000	41,000	22,000	41,000	19,000	0	0	2,500	29,500	19,500	11,500
12/1/2022		0		22,000	25,400	22,000	(3,400)		0		0		22,000
Total	\$614,059	\$657,442	\$115,983	\$133,343	\$694,412	\$715,105	\$20,693	\$553,029	\$581,762	\$61,030	\$75,680	\$54,953	\$57,663
Total (ex FY2023)	\$614,059	\$657,442	\$115,983	\$111,343	\$669,012	\$693,105	\$24,093	\$553,029	\$581,762	\$61,030	\$75,680	\$54,953	\$35,663





COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER & UNSPECIFIED/AMBULATORY CARE

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 11/30/22 (2)	Limited Reported Incurred Losses 11/30/23 (3)	Estimated Outstanding Losses 11/30/22 (6) - (9)	Estimated Outstanding Losses 11/30/23 (7) - (10)	Projected Ultimate Limited Losses 11/30/22 (6)	Projected Ultimate Limited Losses 11/30/23 (7)	Change in Ultimate (7) - (6)	Limited Paid Losses 11/30/22 (9)	Limited Paid Losses 11/30/23 (10)	Limited Case Reserves 11/30/22 (2) - (9)	Limited Case Reserves 11/30/23 (3) - (10)	Estimated IBNR 11/30/22 (4)-(11)	Estimated IBNR 11/30/23 (5)-(12)
Prior	\$48,363	\$48,363	\$0	\$0	\$48,363	\$48,363	\$0	\$48,363	\$48,363	\$0	\$0	\$0	\$0
12/1/2001	850	850	0	0	850	850	0	850	850	0	0	0	0
12/1/2002	1850	1,850	0	0	1850	1,850	0	1850	1,850	0	0	0	0
12/1/2003	20375	20,375	0	0	20375	20,375	0	20375	20,375	0	0	0	0
12/1/2004	1900	1,900	0	0	1900	1,900	0	1900	1,900	0	0	0	0
12/1/2005	620	620	0	0	620	620	0	620	620	0	0	0	0
12/1/2006	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2007	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2008	175	175	0	0	175	175	0	175	175	0	0	0	0
12/1/2009	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2010	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2011	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2012	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2013	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2014	51	51	54	54	55	55	0	1	1	50	50	4	4
12/1/2015	0	0	1	0	1	0	(1)	0	0	0	0	1	0
12/1/2016	0	0	5	4	5	4	(1)	0	0	0	0	5	4
12/1/2017	0	0	16	10	16	10	(6)	0	0	0	0	16	10
12/1/2018	0	0	24	11	24	11	(13)	0	0	0	0	24	11
12/1/2019	0	0	20	11	20	11	(9)	0	0	0	0	20	11
12/1/2020	0	0	18	15	18	15	(3)	0	0	0	0	18	15
12/1/2021	0	0	20	17	20	17	(3)	0	0	0	0	20	17
12/1/2022	0	0	0	19	24	19	(5)	0	0	0	0	0	19
Total	\$74,184	\$74,184	\$158	\$141	\$74,316	\$74,275	(\$41)	\$74,134	\$74,134	\$50	\$50	\$108	\$91



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 11/30/22 (2)	Limited Reported Incurred Losses 11/30/23 (3)	Estimated Outstanding Losses 11/30/22 (6) - (9)	Estimated Outstanding Losses 11/30/23 (7) - (10)	Projected Ultimate Limited Losses 11/30/22 (6)	Projected Ultimate Limited Losses 11/30/23 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/22 (9)	Limited Paid Losses 11/30/23 (10)	Limited Case Reserves 11/30/22 (2) - (9) (11)	Limited Case Reserves 11/30/23 (3) - (10) (12)	Estimated IBNR 11/30/22 (4)-(11) (13)	Estimated IBNR 11/30/23 (5)-(12) (14)
Prior	\$13,365	\$13,365	\$0	\$0	\$13,365	\$13,365	\$0	\$13,365	\$13,365	\$0	\$0	\$0	\$0
12/1/2001	200	200	0	0	200	200	0	200	200	0	0	0	0
12/1/2002	1,025	1,025	0	0	1,025	1,025	0	1,025	1,025	0	0	0	0
12/1/2003	7,860	7,860	0	0	7,860	7,860	0	7,860	7,860	0	0	0	0
12/1/2004	90	90	0	0	90	90	0	90	90	0	0	0	0
12/1/2005	425	425	0	0	425	425	0	425	425	0	0	0	0
12/1/2006	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2007	300	300	0	0	300	300	0	300	300	0	0	0	0
12/1/2008	300	300	0	0	300	300	0	300	300	0	0	0	0
12/1/2009	800	800	0	0	800	800	0	800	800	0	0	0	0
12/1/2010	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2011	1,815	1,815	0	0	1,815	1,815	0	1,815	1,815	0	0	0	0
12/1/2012	1,175	1,175	0	0	1,175	1,175	0	1,175	1,175	0	0	0	0
12/1/2013	425	425	0	0	425	425	0	425	425	0	0	0	0
12/1/2014	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2015	2,945	2,945	0	0	2,945	2,945	0	2,945	2,945	0	0	0	0
12/1/2016	50	0	140	60	140	60	(80)	0	0	50	0	90	60
12/1/2017	0	0	150	120	150	120	(30)	0	0	0	0	150	120
12/1/2018	0	0	600	400	600	400	(200)	0	0	0	0	600	400
12/1/2019	100	100	700	600	700	600	(100)	0	0	100	100	600	500
12/1/2020	0	0	700	500	700	500	(200)	0	0	0	0	700	500
12/1/2021	0	0	1,100	800	1,100	800	(300)	0	0	0	0	1,100	800
12/1/2022	0	0	0	900	1,270	900	(370)	0	0	0	0	0	900
Total	\$30,875	\$30,825	\$3,390	\$3,380	\$35,385	\$34,105	(\$1,280)	\$30,725	\$30,725	\$150	\$100	\$3,240	\$3,280
Total (ex FY2023)	\$30,875	\$30,825	\$3,390	\$2,480	\$34,115	\$33,205	(\$910)	\$30,725	\$30,725	\$150	\$100	\$3,240	\$2,380



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

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 11/30/22 (2)	Limited Reported Incurred Losses 11/30/23 (3)	Estimated Outstanding Losses 11/30/22 (6) - (9)	Estimated Outstanding Losses 11/30/23 (7) - (10)	Projected Ultimate Limited Losses 11/30/22 (6)	Projected Ultimate Limited Losses 11/30/23 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/22 (9)	Limited Paid Losses 11/30/23 (10)	Limited Case Reserves 11/30/22 (2) - (9) (11)	Limited Case Reserves 11/30/23 (3) - (10) (12)	Estimated IBNR 11/30/22 (4)-(11) (13)	Estimated IBNR 11/30/23 (5)-(12) (14)
Prior	\$88,727	\$88,851	\$3,982	\$3,419	\$90,000	\$89,900	(\$100)	\$86,018	\$86,481	\$2,709	\$2,371	\$1,273	\$1,049
12/1/2001	8,632	8,632	0	0	8,632	8,632	0	8,632	8,632	0	0	0	0
12/1/2002	8,393	8,995	112	711	8,417	9,045	628	8,305	8,334	88	660	24	50
12/1/2003	9,786	9,788	1,367	1,315	9,994	9,976	(18)	8,627	8,661	1,159	1,128	208	188
12/1/2004	9,477	9,615	509	590	9,570	9,679	109	9,061	9,089	417	526	93	64
12/1/2005	9,622	9,622	521	477	9,709	9,709	0	9,188	9,232	434	390	87	87
12/1/2006	14,223	14,237	2,367	2,189	14,710	14,644	(66)	12,343	12,455	1,880	1,782	487	407
12/1/2007	18,373	18,602	716	292	18,630	18,808	178	17,914	18,516	459	86	257	206
12/1/2008	14,775	14,782	617	562	15,045	15,045	0	14,428	14,483	347	298	270	263
12/1/2009	14,444	14,119	1,387	941	14,740	14,580	(160)	13,353	13,639	1,091	479	296	461
12/1/2010	13,262	13,214	2,794	2,683	13,800	13,800	0	11,006	11,117	2,256	2,097	538	586
12/1/2011	13,394	13,224	904	683	14,000	13,800	(200)	13,096	13,117	298	106	606	576
12/1/2012	12,938	13,140	2,428	2,082	13,400	13,530	130	10,972	11,448	1,966	1,692	462	390
12/1/2013	16,459	16,296	2,946	2,419	17,000	17,000	0	14,054	14,581	2,404	1,715	541	704
12/1/2014	18,262	18,165	3,574	2,957	19,700	19,600	(100)	16,126	16,643	2,136	1,521	1,438	1,435
12/1/2015	26,401	27,235	6,418	4,975	28,800	29,300	500	22,382	24,325	4,019	2,911	2,399	2,065
12/1/2016	28,715	29,728	10,422	9,113	32,700	33,000	300	22,278	23,887	6,437	5,841	3,985	3,272
12/1/2017	30,742	33,011	10,414	11,891	34,000	37,300	3,300	23,586	25,409	7,156	7,601	3,258	4,289
12/1/2018	27,076	29,388	13,427	11,619	34,000	35,000	1,000	20,573	23,381	6,503	6,007	6,924	5,612
12/1/2019	41,016	41,911	33,538	26,294	55,000	52,500	(2,500)	21,462	26,206	19,554	15,705	13,984	10,589
12/1/2020	29,783	33,724	32,952	27,094	46,900	46,000	(900)	13,948	18,906	15,835	14,817	17,117	12,276
12/1/2021	29,221	35,582	52,890	43,072	60,000	57,000	(3,000)	7,110	13,928	22,110	21,654	30,779	21,418
12/1/2022		32,898		63,012	53,200	69,000	15,800		5,988		26,910		36,102
Total	\$483,720	\$534,759	\$184,285	\$218,389	\$621,947	\$636,848	\$14,901	\$384,462	\$418,459	\$99,258	\$116,299	\$85,027	\$102,089
Total (ex FY2023)	\$483,720	\$501,860	\$184,285	\$155,377	\$568,747	\$567,848	(\$899)	\$384,462	\$412,471	\$99,258	\$89,389	\$85,027	\$65,988



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

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 11/30/22 (2)	Limited Reported Incurred Losses 11/30/23 (3)	Estimated Outstanding Losses 11/30/22 (6) - (9)	Estimated Outstanding Losses 11/30/23 (7) - (10)	Projected Ultimate Limited Losses 11/30/22 (6)	Projected Ultimate Limited Losses 11/30/23 (7)	Change in Ultimate (7) - (6)	Limited Paid Losses 11/30/22 (9)	Limited Paid Losses 11/30/23 (10)	Limited Case Reserves 11/30/22 (2) - (9)	Limited Case Reserves 11/30/23 (3) - (10)	Estimated IBNR 11/30/22 (4)-(11)	Estimated IBNR 11/30/23 (5)-(12)
Prior	\$32,447	\$32,412	\$734	\$680	\$32,538	\$32,497	(\$41)	\$31,804	\$31,817	\$643	\$596	\$91	\$85
12/1/2001	4,042	4,042	0	0	4,042	4,042	0	4,042	4,042	0	0	0	0
12/1/2002	4,177	4,231	43	105	4,190	4,252	62	4,147	4,147	30	84	13	21
12/1/2003	4,507	4,507	713	713	4,524	4,524	0	3,811	3,811	696	696	17	17
12/1/2004	12,024	12,143	81	204	12,082	12,205	123	12,001	12,001	23	142	58	62
12/1/2005	4,204	4,204	16	13	4,220	4,217	(3)	4,204	4,204	0	0	16	13
12/1/2006	4,909	4,909	99	78	4,944	4,944	0	4,845	4,866	64	43	35	35
12/1/2007	6,624	6,200	535	119	6,680	6,264	(416)	6,145	6,145	479	54	56	64
12/1/2008	6,578	6,576	218	203	6,700	6,690	(10)	6,482	6,487	96	89	122	114
12/1/2009	6,842	6,786	405	355	6,920	6,870	(50)	6,515	6,515	327	271	78	84
12/1/2010	5,554	5,543	636	602	5,620	5,610	(10)	4,984	5,008	571	535	66	67
12/1/2011	4,523	4,504	200	189	4,610	4,600	(10)	4,410	4,411	113	93	87	96
12/1/2012	4,457	4,397	314	235	4,560	4,490	(70)	4,246	4,255	211	143	103	93
12/1/2013	5,540	5,474	888	786	5,700	5,600	(100)	4,812	4,814	729	660	160	126
12/1/2014	6,220	5,955	1,207	881	6,400	6,100	(300)	5,193	5,219	1,027	736	180	145
12/1/2015	9,543	9,428	1,240	1,034	9,800	9,700	(100)	8,560	8,666	984	762	257	272
12/1/2016	10,638	10,480	2,914	2,621	11,100	10,900	(200)	8,186	8,279	2,452	2,201	462	420
12/1/2017	10,422	9,854	3,547	2,706	11,000	10,300	(700)	7,453	7,594	2,970	2,260	578	446
12/1/2018	10,430	10,186	3,886	3,233	11,400	11,000	(400)	7,514	7,767	2,916	2,419	970	814
12/1/2019	18,092	17,556	10,848	9,464	19,500	19,000	(500)	8,652	9,536	9,440	8,020	1,408	1,444
12/1/2020	15,133	16,330	11,264	9,103	17,400	17,400	0	6,136	8,297	8,996	8,032	2,267	1,070
12/1/2021	20,987	20,598	20,840	16,097	24,000	23,000	(1,000)	3,160	6,903	17,828	13,695	3,013	2,402
12/1/2022		19,498		24,634	19,500	27,000	7,500		2,366		17,133		7,502
Total	\$207,894	\$225,815	\$60,630	\$74,054	\$237,430	\$241,205	\$3,775	\$157,299	\$167,151	\$50,595	\$58,664	\$10,036	\$15,389
Total (ex FY2023)	\$207,894	\$206,317	\$60,630	\$49,419	\$217,930	\$214,205	(\$3,725)	\$157,299	\$164,785	\$50,595	\$41,532	\$10,036	\$7,888



COOK COUNTY, ILLINOIS  
GENERAL LIABILITY

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 11/30/22 (2)	Limited Reported Incurred Losses 11/30/23 (3)	Estimated Outstanding Losses 11/30/22 (6) - (9)	Estimated Outstanding Losses 11/30/23 (7) - (10)	Projected Ultimate Limited Losses 11/30/22 (6)	Projected Ultimate Limited Losses 11/30/23 (7)	Change in Ultimate (7) - (6)	Limited Paid Losses 11/30/22 (9)	Limited Paid Losses 11/30/23 (10)	Limited Case Reserves 11/30/22 (2) - (9)	Limited Case Reserves 11/30/23 (3) - (10)	Estimated IBNR 11/30/22 (4)-(11)	Estimated IBNR 11/30/23 (5)-(12)
Prior	\$6,388	\$6,388	\$0	\$0	\$6,388	\$6,388	\$0	\$6,388	\$6,388	\$0	\$0	\$0	\$0
12/1/2001	265	265	0	0	265	265	0	265	265	0	0	0	0
12/1/2002	432	432	0	0	432	432	0	432	432	0	0	0	0
12/1/2003	40	40	0	0	40	40	0	40	40	0	0	0	0
12/1/2004	236	236	0	0	236	236	0	236	236	0	0	0	0
12/1/2005	152	152	0	0	152	152	0	152	152	0	0	0	0
12/1/2006	112	112	0	0	112	112	0	112	112	0	0	0	0
12/1/2007	538	538	0	0	538	538	0	538	538	0	0	0	0
12/1/2008	195	195	0	0	195	195	0	195	195	0	0	0	0
12/1/2009	325	325	0	0	325	325	0	325	325	0	0	0	0
12/1/2010	154	154	0	0	154	154	0	154	154	0	0	0	0
12/1/2011	147	147	0	0	147	147	0	147	147	0	0	0	0
12/1/2012	370	370	0	0	370	370	0	370	370	0	0	0	0
12/1/2013	259	259	0	0	259	259	0	259	259	0	0	0	0
12/1/2014	373	373	0	0	373	373	0	373	373	0	0	0	0
12/1/2015	258	258	104	104	262	262	0	158	158	100	100	4	4
12/1/2016	474	474	18	18	477	477	0	459	459	15	15	3	3
12/1/2017	866	866	403	394	900	891	(9)	497	497	369	369	34	25
12/1/2018	331	377	234	161	384	409	25	150	248	181	129	53	32
12/1/2019	895	795	973	842	1,018	887	(131)	45	45	850	750	123	92
12/1/2020	3,456	3,399	4,449	3,758	4,500	3,852	(648)	51	94	3,405	3,305	1,044	453
12/1/2021	61	310	613	589	639	639	0	26	50	35	260	578	329
12/1/2022		72		691	855	713	(142)		22		50		641
Total	\$16,328	\$16,539	\$6,794	\$6,557	\$19,022	\$18,117	(\$905)	\$11,373	\$11,560	\$4,955	\$4,978	\$1,839	\$1,578
Total (ex FY2023)	\$16,328	\$16,466	\$6,794	\$5,866	\$18,167	\$17,404	(\$763)	\$11,373	\$11,538	\$4,955	\$4,928	\$1,839	\$938



COOK COUNTY, ILLINOIS  
AUTOMOBILE 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 11/30/22 (2)	Limited Reported Incurred Losses 11/30/23 (3)	Estimated Outstanding Losses 11/30/22 (6) - (9) (4)	Estimated Outstanding Losses 11/30/23 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/22 (6)	Projected Ultimate Limited Losses 11/30/23 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/22 (9)	Limited Paid Losses 11/30/23 (10)	Limited Case Reserves 11/30/22 (2) - (9) (11)	Limited Case Reserves 11/30/23 (3) - (10) (12)	Estimated IBNR 11/30/22 (4)-(11) (13)	Estimated IBNR 11/30/23 (5)-(12) (14)
Prior	\$13,250	\$13,250	\$0	\$0	\$13,250	\$13,250	\$0	\$13,250	\$13,250	\$0	\$0	\$0	\$0
12/1/2001	2,524	2,524	0	0	2,524	2,524	0	2,524	2,524	0	0	0	0
12/1/2002	234	234	0	0	234	234	0	234	234	0	0	0	0
12/1/2003	431	431	0	0	431	431	0	431	431	0	0	0	0
12/1/2004	2,857	2,857	0	0	2,857	2,857	0	2,857	2,857	0	0	0	0
12/1/2005	201	201	0	0	201	201	0	201	201	0	0	0	0
12/1/2006	653	653	0	0	653	653	0	653	653	0	0	0	0
12/1/2007	150	150	0	0	150	150	0	150	150	0	0	0	0
12/1/2008	192	192	0	0	192	192	0	192	192	0	0	0	0
12/1/2009	6,849	6,849	0	0	6,849	6,849	0	6,849	6,849	0	0	0	0
12/1/2010	834	834	0	0	834	834	0	834	834	0	0	0	0
12/1/2011	445	445	0	0	445	445	0	445	445	0	0	0	0
12/1/2012	302	302	0	0	302	302	0	302	302	0	0	0	0
12/1/2013	2,936	2,936	0	0	2,936	2,936	0	2,936	2,936	0	0	0	0
12/1/2014	309	309	0	0	309	309	0	309	309	0	0	0	0
12/1/2015	1,520	1,520	0	0	1,520	1,520	0	1,520	1,520	0	0	0	0
12/1/2016	1,529	1,529	0	0	1,529	1,529	0	1,529	1,529	0	0	0	0
12/1/2017	8,990	8,968	321	251	9,060	9,010	(50)	8,739	8,759	251	209	70	42
12/1/2018	1,122	1,157	1,011	86	1,220	1,180	(40)	209	1,094	913	63	98	23
12/1/2019	176	234	324	101	440	310	(130)	116	209	60	25	264	76
12/1/2020	413	348	1,032	542	1,130	690	(440)	98	148	316	200	717	342
12/1/2021	133	305	1,517	915	1,550	1,070	(480)	33	155	100	150	1,417	765
12/1/2022		38		1,462	2,030	1,500	(530)		38		0		1,462
Total	\$46,051	\$46,267	\$4,206	\$3,357	\$50,648	\$48,978	(\$1,670)	\$44,411	\$45,620	\$1,639	\$647	\$2,567	\$2,710
Total (ex FY2023)	\$46,051	\$46,229	\$4,206	\$1,895	\$48,618	\$47,478	(\$1,140)	\$44,411	\$45,582	\$1,639	\$647	\$2,567	\$1,248



COOK COUNTY, ILLINOIS  
LAW ENFORCEMENT 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 11/30/22 (2)	Limited Reported Incurred Losses 11/30/23 (3)	Estimated Outstanding Losses 11/30/22 (6) - (9)	Estimated Outstanding Losses 11/30/23 (7) - (10)	Projected Ultimate Limited Losses 11/30/22 (6)	Projected Ultimate Limited Losses 11/30/23 (7)	Change in Ultimate (7) - (6)	Limited Paid Losses 11/30/22 (9)	Limited Paid Losses 11/30/23 (10)	Limited Case Reserves 11/30/22 (2) - (9)	Limited Case Reserves 11/30/23 (3) - (10)	Estimated IBNR 11/30/22 (4)-(11)	Estimated IBNR 11/30/23 (5)-(12)
Prior	\$59,722	\$136,722	\$56,178	\$130,278	\$69,900	\$162,000	\$92,100	\$13,722	\$31,722	\$46,000	\$105,000	\$10,178	\$25,278
12/1/2001	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2002	5,024	5,024	4,076	4,076	5,100	5,100	0	1,024	1,024	4,000	4,000	76	76
12/1/2003	54,222	54,222	0	0	54,222	54,222	0	54,222	54,222	0	0	0	0
12/1/2004	1,421	1,405	59	15	1,430	1,420	(10)	1,371	1,405	50	0	9	15
12/1/2005	5,159	4,159	2,651	611	5,310	4,270	(1,040)	2,659	3,659	2,500	500	151	111
12/1/2006	2,403	2,403	0	0	2,403	2,403	0	2,403	2,403	0	0	0	0
12/1/2007	13,297	13,697	1,268	173	13,565	13,870	305	12,297	13,697	1,000	0	268	173
12/1/2008	4,393	4,393	0	0	4,393	4,393	0	4,393	4,393	0	0	0	0
12/1/2009	6,603	6,603	8	8	6,610	6,610	0	6,602	6,602	1	1	7	7
12/1/2010	31,268	31,268	232	232	31,400	31,400	0	31,168	31,168	100	100	132	132
12/1/2011	8,332	4,257	6,671	3,091	10,000	6,420	(3,580)	3,329	3,329	5,003	928	1,668	2,163
12/1/2012	11,696	10,230	3,135	1,370	12,700	10,950	(1,750)	9,565	9,580	2,131	650	1,004	720
12/1/2013	29,979	32,479	22,771	21,671	33,000	34,900	1,900	10,229	13,229	19,750	19,250	3,021	2,421
12/1/2014	6,104	5,354	3,756	3,221	7,600	7,100	(500)	3,844	3,879	2,260	1,475	1,496	1,746
12/1/2015	14,983	14,920	11,944	11,533	17,600	17,300	(300)	5,656	5,767	9,328	9,153	2,617	2,380
12/1/2016	12,695	11,654	7,615	6,036	16,000	14,500	(1,500)	8,385	8,464	4,310	3,190	3,305	2,846
12/1/2017	8,451	8,389	11,386	11,133	14,000	13,800	(200)	2,614	2,667	5,837	5,722	5,549	5,411
12/1/2018	6,618	9,000	11,515	13,257	14,000	16,000	2,000	2,485	2,743	4,133	6,257	7,382	7,000
12/1/2019	20,526	18,028	31,869	25,408	33,000	27,000	(6,000)	1,131	1,592	19,395	16,435	12,474	8,972
12/1/2020	10,269	23,431	22,938	35,876	25,000	38,000	13,000	2,062	2,124	8,208	21,307	14,731	14,569
12/1/2021	1,604	49,865	21,000	81,914	21,000	82,000	61,000	0	86	1,604	49,779	19,396	32,135
12/1/2022		20,771		47,974	20,300	48,000	27,700		26		20,745		27,229
Total	\$314,770	\$468,273	\$219,073	\$397,877	\$418,533	\$601,658	\$183,125	\$179,160	\$203,781	\$135,609	\$264,492	\$83,464	\$133,385
Total (ex FY2023)	\$314,770	\$447,502	\$219,073	\$349,903	\$398,233	\$553,658	\$155,425	\$179,160	\$203,755	\$135,609	\$243,747	\$83,464	\$106,156



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 (1)	Limited Reported Incurred Losses 11/30/22 (2)	Limited Reported Incurred Losses 11/30/23 (3)	Estimated Outstanding Losses 11/30/22 (6) - (9)	Estimated Outstanding Losses 11/30/23 (7) - (10)	Projected Ultimate Limited Losses 11/30/22 (6)	Projected Ultimate Limited Losses 11/30/23 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/22 (9)	Limited Paid Losses 11/30/23 (10)	Limited Case Reserves 11/30/22 (2) - (9) (11)	Limited Case Reserves 11/30/23 (3) - (10) (12)	Estimated IBNR 11/30/22 (4)-(11) (13)	Estimated IBNR 11/30/23 (5)-(12) (14)
Prior	\$96,113	\$96,114	\$0	\$1	\$96,113	\$96,114	\$1	\$96,113	\$96,113	\$0	\$0	\$0	\$0
12/1/2001	12,154	12,154	0	0	12,154	12,154	0	12,154	12,154	0	0	0	0
12/1/2002	5,220	5,220	0	0	5,220	5,220	0	5,220	5,220	0	0	0	0
12/1/2003	16,952	16,952	0	0	16,952	16,952	0	16,952	16,952	0	0	0	0
12/1/2004	11,044	11,024	266	136	11,110	11,060	(50)	10,844	10,924	200	100	66	36
12/1/2005	4,024	4,024	0	0	4,024	4,024	0	4,024	4,024	0	0	0	0
12/1/2006	10,593	10,593	3,719	3,709	10,690	10,680	(10)	6,971	6,971	3,622	3,622	97	87
12/1/2007	1,288	1,288	0	0	1,288	1,288	0	1,288	1,288	0	0	0	0
12/1/2008	5,056	5,056	0	0	5,056	5,056	0	5,056	5,056	0	0	0	0
12/1/2009	1,812	1,812	188	188	1,900	1,900	0	1,712	1,712	100	100	88	88
12/1/2010	8,013	8,063	641	641	8,200	8,200	0	7,559	7,559	455	505	187	137
12/1/2011	2,766	2,787	270	264	3,000	3,000	0	2,730	2,736	36	51	234	213
12/1/2012	5,929	5,939	4,951	4,936	6,200	6,200	0	1,249	1,264	4,680	4,675	271	261
12/1/2013	6,179	6,179	5,748	5,548	6,700	6,500	(200)	952	952	5,227	5,227	521	321
12/1/2014	17,329	17,329	2,681	1,681	19,000	18,000	(1,000)	16,319	16,319	1,010	1,010	1,671	671
12/1/2015	10,132	10,132	9,878	9,208	11,970	11,300	(670)	2,092	2,092	8,040	8,040	1,838	1,168
12/1/2016	6,857	6,959	8,512	8,055	8,800	8,600	(200)	288	545	6,569	6,414	1,943	1,641
12/1/2017	11,682	12,110	8,174	7,681	14,500	14,100	(400)	6,326	6,419	5,356	5,691	2,818	1,990
12/1/2018	3,146	3,306	6,523	5,063	8,000	6,600	(1,400)	1,477	1,537	1,669	1,769	4,854	3,294
12/1/2019	6,066	6,566	10,670	10,160	11,000	10,500	(500)	330	340	5,736	6,226	4,934	3,934
12/1/2020	1,277	1,258	12,948	7,796	13,000	8,300	(4,700)	52	504	1,225	754	11,723	7,042
12/1/2021	1,093	11,295	14,950	23,150	15,800	24,000	8,200	850	850	243	10,445	14,708	12,705
12/1/2022		1,288		15,761	16,400	15,900	(500)		139		1,149		14,612
Total	\$244,724	\$257,447	\$90,120	\$103,978	\$307,077	\$305,648	(\$1,429)	\$200,557	\$201,670	\$44,167	\$55,777	\$45,953	\$48,200
Total (ex FY2023)	\$244,724	\$256,160	\$90,120	\$88,216	\$290,677	\$289,748	(\$929)	\$200,557	\$201,531	\$44,167	\$54,629	\$45,953	\$33,588





**Cook County, Illinois**  
**Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/23**  
**Losses Limited to Retentions**

Policy Period	Payroll (in 00s)	Retention	Reported Claims	Open Claims	Incurred	Paid	Case	Est IBNR	Total O/S	Ultimate	Ultimate Loss Rate
	(1)	(2)	(3)	(3a)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
							[(4)-(5)]		[(6)+(7)]	[(4)+(7)]	[(9)/(1)]

**Historical Experience**

Prior	-	Various	7,414	15	56,417,147	52,289,662	4,127,486	323,853	4,451,338	56,741,000	
1-Dec-01	4,348,459	9,500,000	490	-	1,187,430	1,187,430	-	4,570	4,570	1,192,000	0.27
1-Dec-02	4,411,415	9,500,000	514	1	3,265,178	3,042,070	223,108	4,822	227,930	3,270,000	0.74
1-Dec-03	4,536,443	Various	593	1	1,954,982	1,877,007	77,975	7,018	84,993	1,962,000	0.43
1-Dec-04	4,587,757	Unlimited	518	-	2,666,932	2,666,932	-	10,068	10,068	2,677,000	0.58
1-Dec-05	4,646,188	Unlimited	510	-	1,739,346	1,739,346	-	-	-	1,739,346	0.37
1-Dec-06	4,480,513	Unlimited	318	-	2,086,988	2,086,988	-	6,012	6,012	2,093,000	0.47
1-Dec-07	4,456,640	Unlimited	274	-	1,930,536	1,930,536	-	11,464	11,464	1,942,000	0.44
1-Dec-08	5,016,244	Unlimited	280	4	2,135,443	2,078,267	57,176	20,557	77,733	2,156,000	0.43
1-Dec-09	5,265,352	Unlimited	214	7	2,879,276	2,261,144	618,133	95,724	713,856	2,975,000	0.57
1-Dec-10	4,890,532	Unlimited	202	4	2,002,274	1,959,636	42,638	23,726	66,364	2,026,000	0.41
1-Dec-11	5,150,838	Unlimited	169	5	2,359,631	2,262,572	97,058	44,370	141,428	2,404,000	0.47
1-Dec-12	4,827,828	Unlimited	143	4	3,760,785	3,317,197	443,588	105,215	548,803	3,866,000	0.80
1-Dec-13	4,827,828	Unlimited	158	5	3,237,199	2,509,946	727,253	72,801	800,054	3,310,000	0.69
1-Dec-14	4,684,830	Unlimited	158	5	1,738,587	1,639,318	99,269	71,413	170,682	1,810,000	0.39
1-Dec-15	4,970,309	Unlimited	176	3	2,487,923	2,368,172	119,751	132,077	251,828	2,620,000	0.53
1-Dec-16	5,291,126	Unlimited	167	11	2,792,843	2,297,445	495,398	197,157	692,555	2,990,000	0.57
1-Dec-17	5,390,504	Unlimited	180	9	2,157,066	1,898,099	258,966	252,934	511,901	2,410,000	0.45
1-Dec-18	5,802,830	Unlimited	159	18	4,061,135	2,276,584	1,784,551	438,865	2,223,416	4,500,000	0.78
1-Dec-19	5,241,633	Unlimited	223	32	2,548,469	1,345,153	1,203,316	651,531	1,854,847	3,200,000	0.61
1-Dec-20	5,918,294	Unlimited	171	28	3,281,601	1,229,886	2,051,716	1,118,399	3,170,114	4,400,000	0.74
1-Dec-21	6,312,408	Unlimited	174	38	3,446,556	1,304,121	2,142,435	1,453,444	3,595,879	4,900,000	0.78
1-Dec-22	5,897,102	Unlimited	135	61	2,202,641	372,588	1,830,053	2,097,359	3,927,412	4,300,000	0.73
<b>Total</b>	<b>110,955,076</b>		<b>13,340</b>	<b>251</b>	<b>112,339,967</b>	<b>95,940,099</b>	<b>16,399,868</b>	<b>7,143,380</b>	<b>23,543,247</b>	<b>119,483,346</b>	<b>0.57</b>

**Full Policy Period Projections**

1-Dec-23	7,188,384	Unlimited								4,700,000	0.66
1-Dec-24	7,422,296	Unlimited								5,000,000	0.67



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Indemnity)**

**Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/23  
Summary of Various Reserving Methods  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Chain Ladder			Bornhuetter-Ferguson		Generalized Cape Cod		Freq/Sev	Selected Ultimate
	Incurred	Paid	Outstanding	Incurred	Paid	Incurred	Paid		
Prior	\$ 56,520,769	\$ 52,910,655	\$ 57,181,245	N/A	N/A	N/A	N/A	\$ 56,520,769	\$ 56,741,000
1-Dec-01	\$ 1,189,801	\$ 1,202,711	\$ 1,187,430	\$ 1,191,626	\$ 1,214,183	\$ 1,191,385	\$ 1,211,980	\$ 1,189,801	\$ 1,192,000
1-Dec-02	\$ 3,272,263	\$ 3,083,995	\$ 3,307,447	\$ 3,269,870	\$ 3,071,532	\$ 3,269,831	\$ 3,070,437	\$ 3,272,263	\$ 3,270,000
1-Dec-03	\$ 1,961,228	\$ 1,905,048	\$ 1,976,511	\$ 1,962,204	\$ 1,910,385	\$ 1,961,982	\$ 1,908,520	\$ 1,961,228	\$ 1,962,000
1-Dec-04	\$ 2,678,127	\$ 2,709,481	\$ 2,666,932	\$ 2,676,634	\$ 2,703,379	\$ 2,676,262	\$ 2,701,175	\$ 2,678,127	\$ 2,677,000
1-Dec-05	\$ 1,748,395	\$ 1,770,631	\$ 1,739,346	\$ 1,751,688	\$ 1,781,481	\$ 1,750,888	\$ 1,777,774	\$ 1,748,395	\$ 1,739,346
1-Dec-06	\$ 2,099,943	\$ 2,130,899	\$ 2,086,988	\$ 2,101,382	\$ 2,135,067	\$ 2,100,375	\$ 2,130,390	\$ 2,099,943	\$ 2,093,000
1-Dec-07	\$ 1,944,462	\$ 1,977,068	\$ 1,930,536	\$ 1,947,440	\$ 1,986,089	\$ 1,946,220	\$ 1,980,130	\$ 1,944,462	\$ 1,942,000
1-Dec-08	\$ 2,152,999	\$ 2,136,874	\$ 2,159,633	\$ 2,157,367	\$ 2,152,011	\$ 2,155,935	\$ 2,143,731	\$ 2,152,999	\$ 2,156,000
1-Dec-09	\$ 2,908,752	\$ 2,334,207	\$ 3,175,195	\$ 2,907,778	\$ 2,349,181	\$ 2,906,471	\$ 2,339,640	\$ 2,908,752	\$ 2,975,000
1-Dec-10	\$ 2,026,817	\$ 2,031,048	\$ 2,024,673	\$ 2,032,518	\$ 2,047,451	\$ 2,031,495	\$ 2,038,826	\$ 2,026,817	\$ 2,026,000
1-Dec-11	\$ 2,396,903	\$ 2,358,858	\$ 2,419,360	\$ 2,401,342	\$ 2,372,062	\$ 2,401,034	\$ 2,363,373	\$ 2,396,903	\$ 2,404,000
1-Dec-12	\$ 3,835,775	\$ 3,510,238	\$ 4,005,465	\$ 3,810,829	\$ 3,457,967	\$ 3,812,324	\$ 3,450,207	\$ 3,835,775	\$ 3,866,000
1-Dec-13	\$ 3,321,560	\$ 2,705,259	\$ 3,631,877	\$ 3,303,643	\$ 2,698,824	\$ 3,305,505	\$ 2,686,029	\$ 3,321,560	\$ 3,310,000
1-Dec-14	\$ 1,794,597	\$ 1,802,220	\$ 1,790,940	\$ 1,819,322	\$ 1,873,137	\$ 1,819,685	\$ 1,851,850	\$ 1,794,597	\$ 1,810,000
1-Dec-15	\$ 2,611,730	\$ 2,720,658	\$ 2,557,021	\$ 2,620,847	\$ 2,731,461	\$ 2,621,650	\$ 2,695,876	\$ 2,611,730	\$ 2,620,000
1-Dec-16	\$ 2,990,461	\$ 2,771,373	\$ 3,104,847	\$ 2,993,725	\$ 2,817,286	\$ 2,996,661	\$ 2,758,922	\$ 2,990,461	\$ 2,990,000
1-Dec-17	\$ 2,362,819	\$ 2,432,433	\$ 2,327,143	\$ 2,432,622	\$ 2,593,228	\$ 2,440,117	\$ 2,501,930	\$ 2,360,459	\$ 2,410,000
1-Dec-18	\$ 4,717,384	\$ 3,194,622	\$ 5,735,621	\$ 4,544,365	\$ 3,274,807	\$ 4,578,468	\$ 3,131,235	\$ 4,707,964	\$ 4,500,000
1-Dec-19	\$ 3,185,897	\$ 2,149,335	\$ 3,931,526	\$ 3,189,576	\$ 2,544,050	\$ 3,247,286	\$ 2,343,967	\$ 3,196,964	\$ 3,200,000
1-Dec-20	\$ 4,560,289	\$ 2,411,564	\$ 6,026,208	\$ 4,320,867	\$ 3,046,048	\$ 4,450,151	\$ 2,717,315	\$ 4,555,814	\$ 4,400,000
1-Dec-21	\$ 5,557,039	\$ 3,487,758	\$ 6,750,104	\$ 4,971,460	\$ 3,817,965	\$ 5,211,591	\$ 3,359,750	\$ 5,551,434	\$ 4,900,000
1-Dec-22	\$ 5,589,976	\$ 2,242,023	\$ 7,069,655	\$ 4,508,725	\$ 3,545,786	\$ 4,913,926	\$ 2,943,221	\$ 5,511,617	\$ 4,300,000
<b>Total</b>	<b>\$ 121,427,987</b>	<b>\$ 105,978,955</b>	<b>\$ 128,785,705</b>	<b>\$ 62,915,830</b>	<b>\$ 56,123,378</b>	<b>\$ 63,789,242</b>	<b>\$ 54,106,278</b>	<b>\$ 121,338,835</b>	<b>\$ 119,483,346</b>

Column (2) : from Exhibit 3, Column (5)  
 Column (3) : from Exhibit 3, Column (8)  
 Column (4) : from Exhibit 3, Column (11)

Column (5) : from Exhibit 7, Column (11)  
 Column (6) : from Exhibit 8, Column (11)  
 Column (7) : from Exhibit 4, Column (11)  
 Column (8) : from Exhibit 5, Column (11)

Column (9) : from Exhibit 6, Column (11)  
 Column (10) : Ultimate



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Indemnity)**

**Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/23  
Unpaid Liabilities at Various Discount Rates  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.48%
Prior	276	Various	\$ 56,741,000	\$ 56,417,147	\$ 52,289,662	\$ 4,127,486	\$ 323,853	\$ 4,451,338	\$ 3,856,444
1-Dec-01	264	\$ 9,500,000	\$ 1,192,000	\$ 1,187,430	\$ 1,187,430	\$ -	\$ 4,570	\$ 4,570	\$ 3,841
1-Dec-02	252	\$ 9,500,000	\$ 3,270,000	\$ 3,265,178	\$ 3,042,070	\$ 223,108	\$ 4,822	\$ 227,930	\$ 185,970
1-Dec-03	240	Various	\$ 1,962,000	\$ 1,954,982	\$ 1,877,007	\$ 77,975	\$ 7,018	\$ 84,993	\$ 67,496
1-Dec-04	228	Unlimited	\$ 2,677,000	\$ 2,666,932	\$ 2,666,932	\$ -	\$ 10,068	\$ 10,068	\$ 7,791
1-Dec-05	216	Unlimited	\$ 1,739,346	\$ 1,739,346	\$ 1,739,346	\$ -	\$ -	\$ -	\$ -
1-Dec-06	204	Unlimited	\$ 2,093,000	\$ 2,086,988	\$ 2,086,988	\$ -	\$ 6,012	\$ 6,012	\$ 4,623
1-Dec-07	192	Unlimited	\$ 1,942,000	\$ 1,930,536	\$ 1,930,536	\$ -	\$ 11,464	\$ 11,464	\$ 8,784
1-Dec-08	180	Unlimited	\$ 2,156,000	\$ 2,135,443	\$ 2,078,267	\$ 57,176	\$ 20,557	\$ 77,733	\$ 59,704
1-Dec-09	168	Unlimited	\$ 2,975,000	\$ 2,879,276	\$ 2,261,144	\$ 618,133	\$ 95,724	\$ 713,856	\$ 546,276
1-Dec-10	156	Unlimited	\$ 2,026,000	\$ 2,002,274	\$ 1,959,636	\$ 42,638	\$ 23,726	\$ 66,364	\$ 50,399
1-Dec-11	144	Unlimited	\$ 2,404,000	\$ 2,359,631	\$ 2,262,572	\$ 97,058	\$ 44,370	\$ 141,428	\$ 107,729
1-Dec-12	132	Unlimited	\$ 3,866,000	\$ 3,760,785	\$ 3,317,197	\$ 443,588	\$ 105,215	\$ 548,803	\$ 435,376
1-Dec-13	120	Unlimited	\$ 3,310,000	\$ 3,237,199	\$ 2,509,946	\$ 727,253	\$ 72,801	\$ 800,054	\$ 649,241
1-Dec-14	108	Unlimited	\$ 1,810,000	\$ 1,738,587	\$ 1,639,318	\$ 99,269	\$ 71,413	\$ 170,682	\$ 139,495
1-Dec-15	96	Unlimited	\$ 2,620,000	\$ 2,487,923	\$ 2,368,172	\$ 119,751	\$ 132,077	\$ 251,828	\$ 211,919
1-Dec-16	84	Unlimited	\$ 2,990,000	\$ 2,792,843	\$ 2,297,445	\$ 495,398	\$ 197,157	\$ 692,555	\$ 586,833
1-Dec-17	72	Unlimited	\$ 2,410,000	\$ 2,157,066	\$ 1,898,099	\$ 258,966	\$ 252,934	\$ 511,901	\$ 434,131
1-Dec-18	60	Unlimited	\$ 4,500,000	\$ 4,061,135	\$ 2,276,584	\$ 1,784,551	\$ 438,865	\$ 2,223,416	\$ 1,892,047
1-Dec-19	48	Unlimited	\$ 3,200,000	\$ 2,548,469	\$ 1,345,153	\$ 1,203,316	\$ 651,531	\$ 1,854,847	\$ 1,581,221
1-Dec-20	36	Unlimited	\$ 4,400,000	\$ 3,281,601	\$ 1,229,886	\$ 2,051,716	\$ 1,118,399	\$ 3,170,114	\$ 2,708,302
1-Dec-21	24	Unlimited	\$ 4,900,000	\$ 3,446,556	\$ 1,304,121	\$ 2,142,435	\$ 1,453,444	\$ 3,595,879	\$ 3,065,865
1-Dec-22	12	Unlimited	\$ 4,300,000	\$ 2,202,641	\$ 372,588	\$ 1,830,053	\$ 2,097,359	\$ 3,927,412	\$ 3,363,732
<b>Total</b>			\$ 119,483,346	\$ 112,339,967	\$ 95,940,099	\$ 16,399,868	\$ 7,143,380	\$ 23,543,247	\$ 19,967,221

Column (4) : from Exhibit 1, Column (10)  
Columns (5), (6), (7) : Exhibit 10

Column (8) : Column (4) - Column (5)  
Column (9) : Column (4) - Column (6)  
Column (9) : Column (10) discounted



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Indemnity)**

**Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/23  
Incurred, Paid, & Outstanding "Chain Ladder" Methods  
Losses Limited to Retentions**

(1)	(2)	(3) Incurred Chain-Ladder			(6) Paid Chain-Ladder			(9) Outstanding Chain-Ladder		
Policy Period Inception	Evaluation in Months	Incurred Loss	Incurred LDF	Ultimate Loss	Paid Loss	Paid LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss
Prior	276	\$ 56,417,147	1.002	\$ 56,520,769	\$ 52,289,662	1.012	\$ 52,910,655	\$ 4,127,486	1.185	\$ 57,181,245
1-Dec-01	264	\$ 1,187,430	1.002	\$ 1,189,801	\$ 1,187,430	1.013	\$ 1,202,711	\$ -	1.186	\$ 1,187,430
1-Dec-02	252	\$ 3,265,178	1.002	\$ 3,272,263	\$ 3,042,070	1.014	\$ 3,083,995	\$ 223,108	1.189	\$ 3,307,447
1-Dec-03	240	\$ 1,954,982	1.003	\$ 1,961,228	\$ 1,877,007	1.015	\$ 1,905,048	\$ 77,975	1.276	\$ 1,976,511
1-Dec-04	228	\$ 2,666,932	1.004	\$ 2,678,127	\$ 2,666,932	1.016	\$ 2,709,481	\$ -	1.363	\$ 2,666,932
1-Dec-05	216	\$ 1,739,346	1.005	\$ 1,748,395	\$ 1,739,346	1.018	\$ 1,770,631	\$ -	1.414	\$ 1,739,346
1-Dec-06	204	\$ 2,086,988	1.006	\$ 2,099,943	\$ 2,086,988	1.021	\$ 2,130,899	\$ -	1.427	\$ 2,086,988
1-Dec-07	192	\$ 1,930,536	1.007	\$ 1,944,462	\$ 1,930,536	1.024	\$ 1,977,068	\$ -	1.437	\$ 1,930,536
1-Dec-08	180	\$ 2,135,443	1.008	\$ 2,152,999	\$ 2,078,267	1.028	\$ 2,136,874	\$ 57,176	1.423	\$ 2,159,633
1-Dec-09	168	\$ 2,879,276	1.010	\$ 2,908,752	\$ 2,261,144	1.032	\$ 2,334,207	\$ 618,133	1.479	\$ 3,175,195
1-Dec-10	156	\$ 2,002,274	1.012	\$ 2,026,817	\$ 1,959,636	1.036	\$ 2,031,048	\$ 42,638	1.525	\$ 2,024,673
1-Dec-11	144	\$ 2,359,631	1.016	\$ 2,396,903	\$ 2,262,572	1.043	\$ 2,358,858	\$ 97,058	1.615	\$ 2,419,360
1-Dec-12	132	\$ 3,760,785	1.020	\$ 3,835,775	\$ 3,317,197	1.058	\$ 3,510,238	\$ 443,588	1.552	\$ 4,005,465
1-Dec-13	120	\$ 3,237,199	1.026	\$ 3,321,560	\$ 2,509,946	1.078	\$ 2,705,259	\$ 727,253	1.543	\$ 3,631,877
1-Dec-14	108	\$ 1,738,587	1.032	\$ 1,794,597	\$ 1,639,318	1.099	\$ 1,802,220	\$ 99,269	1.527	\$ 1,790,940
1-Dec-15	96	\$ 2,487,923	1.050	\$ 2,611,730	\$ 2,368,172	1.149	\$ 2,720,658	\$ 119,751	1.577	\$ 2,557,021
1-Dec-16	84	\$ 2,792,843	1.071	\$ 2,990,461	\$ 2,297,445	1.206	\$ 2,771,373	\$ 495,398	1.630	\$ 3,104,847
1-Dec-17	72	\$ 2,157,066	1.095	\$ 2,362,819	\$ 1,898,099	1.282	\$ 2,432,433	\$ 258,966	1.657	\$ 2,327,143
1-Dec-18	60	\$ 4,061,135	1.162	\$ 4,717,384	\$ 2,276,584	1.403	\$ 3,194,622	\$ 1,784,551	1.938	\$ 5,735,621
1-Dec-19	48	\$ 2,548,469	1.250	\$ 3,185,897	\$ 1,345,153	1.598	\$ 2,149,335	\$ 1,203,316	2.149	\$ 3,931,526
1-Dec-20	36	\$ 3,281,601	1.390	\$ 4,560,289	\$ 1,229,886	1.961	\$ 2,411,564	\$ 2,051,716	2.338	\$ 6,026,208
1-Dec-21	24	\$ 3,446,556	1.612	\$ 5,557,039	\$ 1,304,121	2.674	\$ 3,487,758	\$ 2,142,435	2.542	\$ 6,750,104
1-Dec-22	12	\$ 2,202,641	2.538	\$ 5,589,976	\$ 372,588	6.017	\$ 2,242,023	\$ 1,830,053	3.659	\$ 7,069,655
Total		\$ 112,339,967		\$ 121,427,987	\$ 95,940,099		\$ 105,978,955	\$ 16,399,868		\$ 128,785,705

Columns (3), (6), (9) : Exhibit 10

Column (4) & (7) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (8) : Column (6) X Column (7)

Column (10) : Outstanding LDF = (Incurred LDF - 1) X Paid LDF / (Paid LDF - Incurred LDF) + 1

Column (11) : Column (9) X Column (10) + Column (6)



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Indemnity)**

**Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/23  
Generalized Cape Cod Incurred Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Incurred Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Incurred Loss	Trended Payroll (in 00s)	Incurred LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 1,187,430	2.478	1.000	\$ 2,943,947	8,089,415	1.002	0.61	\$ 1,984,706	\$ 1,191,385
1-Dec-02	252	\$ 3,265,178	2.372	1.000	\$ 7,746,622	7,967,507	1.002	0.64	\$ 2,148,891	\$ 3,269,831
1-Dec-03	240	\$ 1,954,982	2.269	1.000	\$ 4,436,642	7,974,299	1.003	0.63	\$ 2,197,844	\$ 1,961,982
1-Dec-04	228	\$ 2,666,932	2.172	1.000	\$ 5,791,714	7,810,350	1.004	0.62	\$ 2,231,884	\$ 2,676,262
1-Dec-05	216	\$ 1,739,346	2.078	1.000	\$ 3,614,640	7,679,441	1.005	0.60	\$ 2,230,189	\$ 1,750,888
1-Dec-06	204	\$ 2,086,988	1.989	1.000	\$ 4,150,330	7,189,908	1.006	0.60	\$ 2,170,026	\$ 2,100,375
1-Dec-07	192	\$ 1,930,536	1.903	1.000	\$ 3,673,874	6,960,424	1.007	0.60	\$ 2,190,010	\$ 1,946,220
1-Dec-08	180	\$ 2,135,443	1.821	1.000	\$ 3,888,823	7,587,520	1.008	0.60	\$ 2,513,117	\$ 2,155,935
1-Dec-09	168	\$ 2,879,276	1.774	1.000	\$ 5,108,266	7,732,346	1.010	0.62	\$ 2,683,665	\$ 2,906,471
1-Dec-10	156	\$ 2,002,274	1.802	1.000	\$ 3,607,413	6,972,729	1.012	0.62	\$ 2,413,125	\$ 2,031,495
1-Dec-11	144	\$ 2,359,631	1.720	1.000	\$ 4,057,652	7,147,549	1.016	0.64	\$ 2,662,543	\$ 2,401,034
1-Dec-12	132	\$ 3,760,785	1.636	1.000	\$ 6,151,660	6,488,197	1.020	0.66	\$ 2,636,216	\$ 3,812,324
1-Dec-13	120	\$ 3,237,199	1.554	1.000	\$ 5,030,197	6,299,220	1.026	0.66	\$ 2,689,418	\$ 3,305,505
1-Dec-14	108	\$ 1,738,587	1.481	1.000	\$ 2,574,039	5,934,603	1.032	0.65	\$ 2,598,424	\$ 1,819,685
1-Dec-15	96	\$ 2,487,923	1.410	1.000	\$ 3,508,762	6,127,929	1.050	0.65	\$ 2,820,993	\$ 2,621,650
1-Dec-16	84	\$ 2,792,843	1.341	1.000	\$ 3,745,876	6,317,882	1.071	0.65	\$ 3,084,291	\$ 2,996,661
1-Dec-17	72	\$ 2,157,066	1.274	1.000	\$ 2,748,992	6,249,072	1.095	0.66	\$ 3,250,490	\$ 2,440,117
1-Dec-18	60	\$ 4,061,135	1.213	1.000	\$ 4,927,632	6,531,137	1.162	0.69	\$ 3,718,799	\$ 4,578,468
1-Dec-19	48	\$ 2,548,469	1.156	1.000	\$ 2,947,028	5,741,800	1.250	0.70	\$ 3,492,724	\$ 3,247,286
1-Dec-20	36	\$ 3,281,601	1.093	1.000	\$ 3,587,490	6,278,718	1.390	0.73	\$ 4,167,494	\$ 4,450,151
1-Dec-21	24	\$ 3,446,556	1.045	1.000	\$ 3,601,651	6,501,781	1.612	0.75	\$ 4,647,453	\$ 5,211,591
1-Dec-22	12	\$ 2,202,641	1.000	1.000	\$ 2,202,641	5,897,102	2.538	0.76	\$ 4,474,319	\$ 4,913,926
Total		\$ 55,922,819			\$ 90,045,891	151,478,928			\$ 63,006,620	\$ 63,789,242

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (Workers Compensation - Health Care Facilities (Indemnity))

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Indemnity)**

**Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/23  
Generalized Cape Cod Paid Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Paid Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Paid Loss	Trended Payroll (in 00s)	Paid LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 1,187,430	2.478	1.000	\$ 2,943,947	8,089,415	1.013	0.59	\$ 1,932,293	\$ 1,211,980
1-Dec-02	252	\$ 3,042,070	2.372	1.000	\$ 7,217,299	7,967,507	1.014	0.62	\$ 2,086,690	\$ 3,070,437
1-Dec-03	240	\$ 1,877,007	2.269	1.000	\$ 4,259,684	7,974,299	1.015	0.61	\$ 2,140,880	\$ 1,908,520
1-Dec-04	228	\$ 2,666,932	2.172	1.000	\$ 5,791,714	7,810,350	1.016	0.61	\$ 2,180,607	\$ 2,701,175
1-Dec-05	216	\$ 1,739,346	2.078	1.000	\$ 3,614,640	7,679,441	1.018	0.59	\$ 2,174,912	\$ 1,777,774
1-Dec-06	204	\$ 2,086,988	1.989	1.000	\$ 4,150,330	7,189,908	1.021	0.58	\$ 2,106,238	\$ 2,130,390
1-Dec-07	192	\$ 1,930,536	1.903	1.000	\$ 3,673,874	6,960,424	1.024	0.58	\$ 2,107,177	\$ 1,980,130
1-Dec-08	180	\$ 2,078,267	1.821	1.000	\$ 3,784,700	7,587,520	1.028	0.57	\$ 2,386,900	\$ 2,143,731
1-Dec-09	168	\$ 2,261,144	1.774	1.000	\$ 4,011,607	7,732,346	1.032	0.58	\$ 2,507,780	\$ 2,339,640
1-Dec-10	156	\$ 1,959,636	1.802	1.000	\$ 3,530,593	6,972,729	1.036	0.58	\$ 2,252,280	\$ 2,038,826
1-Dec-11	144	\$ 2,262,572	1.720	1.000	\$ 3,890,750	7,147,549	1.043	0.59	\$ 2,469,472	\$ 2,363,373
1-Dec-12	132	\$ 3,317,197	1.636	1.000	\$ 5,426,066	6,488,197	1.058	0.61	\$ 2,418,646	\$ 3,450,207
1-Dec-13	120	\$ 2,509,946	1.554	1.000	\$ 3,900,138	6,299,220	1.078	0.60	\$ 2,438,914	\$ 2,686,029
1-Dec-14	108	\$ 1,639,318	1.481	1.000	\$ 2,427,069	5,934,603	1.099	0.59	\$ 2,351,286	\$ 1,851,850
1-Dec-15	96	\$ 2,368,172	1.410	1.000	\$ 3,339,875	6,127,929	1.149	0.58	\$ 2,529,383	\$ 2,695,876
1-Dec-16	84	\$ 2,297,445	1.341	1.000	\$ 3,081,428	6,317,882	1.206	0.57	\$ 2,698,565	\$ 2,758,922
1-Dec-17	72	\$ 1,898,099	1.274	1.000	\$ 2,418,962	6,249,072	1.282	0.56	\$ 2,748,800	\$ 2,501,930
1-Dec-18	60	\$ 2,276,584	1.213	1.000	\$ 2,762,323	6,531,137	1.403	0.55	\$ 2,974,043	\$ 3,131,235
1-Dec-19	48	\$ 1,345,153	1.156	1.000	\$ 1,555,523	5,741,800	1.598	0.54	\$ 2,669,526	\$ 2,343,967
1-Dec-20	36	\$ 1,229,886	1.093	1.000	\$ 1,344,528	6,278,718	1.961	0.53	\$ 3,035,540	\$ 2,717,315
1-Dec-21	24	\$ 1,304,121	1.045	1.000	\$ 1,362,807	6,501,781	2.674	0.53	\$ 3,283,300	\$ 3,359,750
1-Dec-22	12	\$ 372,588	1.000	1.000	\$ 372,588	5,897,102	6.017	0.52	\$ 3,082,973	\$ 2,943,221
<b>Total</b>		<b>\$ 43,650,437</b>			<b>\$ 74,860,445</b>	<b>151,478,928</b>			<b>\$ 54,576,209</b>	<b>\$ 54,106,278</b>

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (Workers Compensation - Health Care Facilities (Indemnity))

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Indemnity)**

**Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/23  
Frequency & Severity Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Reported Claims	Claim CDF	Ultimate Claims	Severity LDF	Reported Severity	Ultimate Reported Severity	Unreported Claims	Ultimate Unreported Severity	Ultimate Loss
Prior	276	7,414	1.000	7,414	1.002	\$ 7,610	\$ 7,624	0	\$ 7,058	\$ 56,520,769
1-Dec-01	264	490	1.000	490	1.002	\$ 2,423	\$ 2,428	0	\$ 7,028	\$ 1,189,801
1-Dec-02	252	514	1.000	514	1.002	\$ 6,352	\$ 6,366	0	\$ 7,059	\$ 3,272,263
1-Dec-03	240	593	1.000	593	1.003	\$ 3,297	\$ 3,307	0	\$ 7,015	\$ 1,961,228
1-Dec-04	228	518	1.000	518	1.004	\$ 5,149	\$ 5,170	0	\$ 7,106	\$ 2,678,127
1-Dec-05	216	510	1.000	510	1.005	\$ 3,410	\$ 3,428	0	\$ 7,260	\$ 1,748,395
1-Dec-06	204	318	1.000	318	1.006	\$ 6,563	\$ 6,604	0	\$ 7,694	\$ 2,099,943
1-Dec-07	192	274	1.000	274	1.007	\$ 7,046	\$ 7,097	0	\$ 8,262	\$ 1,944,462
1-Dec-08	180	280	1.000	280	1.008	\$ 7,627	\$ 7,689	0	\$ 9,019	\$ 2,152,999
1-Dec-09	168	214	1.000	214	1.010	\$ 13,455	\$ 13,592	0	\$ 9,882	\$ 2,908,752
1-Dec-10	156	202	1.000	202	1.012	\$ 9,912	\$ 10,034	0	\$ 10,312	\$ 2,026,817
1-Dec-11	144	169	1.000	169	1.016	\$ 13,962	\$ 14,183	0	\$ 11,611	\$ 2,396,903
1-Dec-12	132	143	1.000	143	1.020	\$ 26,299	\$ 26,824	0	\$ 13,113	\$ 3,835,775
1-Dec-13	120	158	1.000	158	1.026	\$ 20,489	\$ 21,023	0	\$ 14,143	\$ 3,321,560
1-Dec-14	108	158	1.000	158	1.032	\$ 11,004	\$ 11,358	0	\$ 14,770	\$ 1,794,597
1-Dec-15	96	176	1.000	176	1.050	\$ 14,136	\$ 14,839	0	\$ 15,679	\$ 2,611,730
1-Dec-16	84	167	1.000	167	1.071	\$ 16,724	\$ 17,907	0	\$ 16,771	\$ 2,990,461
1-Dec-17	72	180	1.001	180	1.094	\$ 11,984	\$ 13,114	0	\$ 17,894	\$ 2,360,459
1-Dec-18	60	159	1.002	159	1.159	\$ 25,542	\$ 29,610	0	\$ 19,591	\$ 4,707,964
1-Dec-19	48	223	1.003	224	1.246	\$ 11,428	\$ 14,244	1	\$ 20,605	\$ 3,196,964
1-Dec-20	36	171	1.006	172	1.381	\$ 19,191	\$ 26,509	1	\$ 22,778	\$ 4,555,814
1-Dec-21	24	174	1.010	176	1.596	\$ 19,808	\$ 31,620	2	\$ 24,806	\$ 5,551,434
1-Dec-22	12	135	1.050	142	2.418	\$ 16,316	\$ 39,449	7	\$ 26,576	\$ 5,511,617
Total		13,340		13,351				11		\$ 121,338,835

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (6) : from {Exhibit 3, Column (4)} / Column (4)

Column (7) : from {Exhibit 3, Column (3)} / Column (3)

Column (8) : Column (6) X Column (7)

Column (9) : Column (5) - Column (3)

Column (10) : Weighted Average of Column (8) adjusted for Trend and Retention

Column (11) : Column (3) X Column (8) + Column (9) X Column (10)



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Indemnity)**

**Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/23  
Incurred Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Incurred Losses	Incurred LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	IBNR Factor	IBNR	Expected Ultimate Loss
1-Dec-01	\$ 9,500,000	\$ 1,187,430	1.002	0.48	1.000	0.48	\$ 2,105,637	0.002	\$ 4,195	\$ 1,191,626
1-Dec-02	\$ 9,500,000	\$ 3,265,178	1.002	0.49	1.000	0.49	\$ 2,167,230	0.002	\$ 4,693	\$ 3,269,870
1-Dec-03	Various	\$ 1,954,982	1.003	0.50	1.000	0.50	\$ 2,267,614	0.003	\$ 7,222	\$ 1,962,204
1-Dec-04	Unlimited	\$ 2,666,932	1.004	0.51	1.000	0.51	\$ 2,320,937	0.004	\$ 9,703	\$ 2,676,634
1-Dec-05	Unlimited	\$ 1,739,346	1.005	0.51	1.000	0.51	\$ 2,384,728	0.005	\$ 12,342	\$ 1,751,688
1-Dec-06	Unlimited	\$ 2,086,988	1.006	0.52	1.000	0.52	\$ 2,333,183	0.006	\$ 14,394	\$ 2,101,382
1-Dec-07	Unlimited	\$ 1,930,536	1.007	0.53	1.000	0.53	\$ 2,360,356	0.007	\$ 16,905	\$ 1,947,440
1-Dec-08	Unlimited	\$ 2,135,443	1.008	0.54	1.000	0.54	\$ 2,688,797	0.008	\$ 21,924	\$ 2,157,367
1-Dec-09	Unlimited	\$ 2,879,276	1.010	0.53	1.000	0.53	\$ 2,812,609	0.010	\$ 28,502	\$ 2,907,778
1-Dec-10	Unlimited	\$ 2,002,274	1.012	0.51	1.000	0.51	\$ 2,497,576	0.012	\$ 30,244	\$ 2,032,518
1-Dec-11	Unlimited	\$ 2,359,631	1.016	0.52	1.000	0.52	\$ 2,682,344	0.016	\$ 41,711	\$ 2,401,342
1-Dec-12	Unlimited	\$ 3,760,785	1.020	0.53	1.000	0.53	\$ 2,559,755	0.020	\$ 50,044	\$ 3,810,829
1-Dec-13	Unlimited	\$ 3,237,199	1.026	0.54	1.000	0.54	\$ 2,616,130	0.025	\$ 66,444	\$ 3,303,643
1-Dec-14	Unlimited	\$ 1,738,587	1.032	0.55	1.000	0.55	\$ 2,586,789	0.031	\$ 80,735	\$ 1,819,322
1-Dec-15	Unlimited	\$ 2,487,923	1.050	0.56	1.000	0.56	\$ 2,804,044	0.047	\$ 132,925	\$ 2,620,847
1-Dec-16	Unlimited	\$ 2,792,843	1.071	0.57	1.000	0.57	\$ 3,039,855	0.066	\$ 200,882	\$ 2,993,725
1-Dec-17	Unlimited	\$ 2,157,066	1.095	0.59	1.000	0.59	\$ 3,164,416	0.087	\$ 275,557	\$ 2,432,622
1-Dec-18	Unlimited	\$ 4,061,135	1.162	0.60	1.000	0.60	\$ 3,473,650	0.139	\$ 483,230	\$ 4,544,365
1-Dec-19	Unlimited	\$ 2,548,469	1.250	0.61	1.000	0.61	\$ 3,204,286	0.200	\$ 641,107	\$ 3,189,576
1-Dec-20	Unlimited	\$ 3,281,601	1.390	0.63	1.000	0.63	\$ 3,706,417	0.280	\$ 1,039,265	\$ 4,320,867
1-Dec-21	Unlimited	\$ 3,446,556	1.612	0.64	1.000	0.64	\$ 4,015,172	0.380	\$ 1,524,904	\$ 4,971,460
1-Dec-22	Unlimited	\$ 2,202,641	2.538	0.65	1.000	0.65	\$ 3,805,633	0.606	\$ 2,306,083	\$ 4,508,725
Total		\$ 55,922,819					\$ 61,597,159		\$ 6,993,010	\$ 62,915,830

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Payroll) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)





**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Indemnity)**

**Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/23  
Paid Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Paid Losses	Paid LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	Unpaid Factor	Unpaid	Expected Ultimate Loss
1-Dec-01	\$ 9,500,000	\$ 1,187,430	1.013	0.48	1.000	0.48	\$ 2,105,637	0.013	\$ 26,752	\$ 1,214,183
1-Dec-02	\$ 9,500,000	\$ 3,042,070	1.014	0.49	1.000	0.49	\$ 2,167,230	0.014	\$ 29,462	\$ 3,071,532
1-Dec-03	Various	\$ 1,877,007	1.015	0.50	1.000	0.50	\$ 2,267,614	0.015	\$ 33,378	\$ 1,910,385
1-Dec-04	Unlimited	\$ 2,666,932	1.016	0.51	1.000	0.51	\$ 2,320,937	0.016	\$ 36,447	\$ 2,703,379
1-Dec-05	Unlimited	\$ 1,739,346	1.018	0.51	1.000	0.51	\$ 2,384,728	0.018	\$ 42,134	\$ 1,781,481
1-Dec-06	Unlimited	\$ 2,086,988	1.021	0.52	1.000	0.52	\$ 2,333,183	0.021	\$ 48,079	\$ 2,135,067
1-Dec-07	Unlimited	\$ 1,930,536	1.024	0.53	1.000	0.53	\$ 2,360,356	0.024	\$ 55,553	\$ 1,986,089
1-Dec-08	Unlimited	\$ 2,078,267	1.028	0.54	1.000	0.54	\$ 2,688,797	0.027	\$ 73,743	\$ 2,152,011
1-Dec-09	Unlimited	\$ 2,261,144	1.032	0.53	1.000	0.53	\$ 2,812,609	0.031	\$ 88,037	\$ 2,349,181
1-Dec-10	Unlimited	\$ 1,959,636	1.036	0.51	1.000	0.51	\$ 2,497,576	0.035	\$ 87,816	\$ 2,047,451
1-Dec-11	Unlimited	\$ 2,262,572	1.043	0.52	1.000	0.52	\$ 2,682,344	0.041	\$ 109,490	\$ 2,372,062
1-Dec-12	Unlimited	\$ 3,317,197	1.058	0.53	1.000	0.53	\$ 2,559,755	0.055	\$ 140,770	\$ 3,457,967
1-Dec-13	Unlimited	\$ 2,509,946	1.078	0.54	1.000	0.54	\$ 2,616,130	0.072	\$ 188,878	\$ 2,698,824
1-Dec-14	Unlimited	\$ 1,639,318	1.099	0.55	1.000	0.55	\$ 2,586,789	0.090	\$ 233,818	\$ 1,873,137
1-Dec-15	Unlimited	\$ 2,368,172	1.149	0.56	1.000	0.56	\$ 2,804,044	0.130	\$ 363,289	\$ 2,731,461
1-Dec-16	Unlimited	\$ 2,297,445	1.206	0.57	1.000	0.57	\$ 3,039,855	0.171	\$ 519,840	\$ 2,817,286
1-Dec-17	Unlimited	\$ 1,898,099	1.282	0.59	1.000	0.59	\$ 3,164,416	0.220	\$ 695,129	\$ 2,593,228
1-Dec-18	Unlimited	\$ 2,276,584	1.403	0.60	1.000	0.60	\$ 3,473,650	0.287	\$ 998,223	\$ 3,274,807
1-Dec-19	Unlimited	\$ 1,345,153	1.598	0.61	1.000	0.61	\$ 3,204,286	0.374	\$ 1,198,897	\$ 2,544,050
1-Dec-20	Unlimited	\$ 1,229,886	1.961	0.63	1.000	0.63	\$ 3,706,417	0.490	\$ 1,816,162	\$ 3,046,048
1-Dec-21	Unlimited	\$ 1,304,121	2.674	0.64	1.000	0.64	\$ 4,015,172	0.626	\$ 2,513,844	\$ 3,817,965
1-Dec-22	Unlimited	\$ 372,588	6.017	0.65	1.000	0.65	\$ 3,805,633	0.834	\$ 3,173,197	\$ 3,545,786
Total		\$ 43,650,437					\$ 61,597,159		\$ 12,472,940	\$ 56,123,378

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Payroll) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Indemnity)**

**Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/23  
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred LDF's		(4) Paid LDF's		(6) Claim CDF	(8) Trend Factors		(9) Payroll (in 00s)
	Unlimited	Limited	Unlimited	Limited		Loss	Exposure	
Prior	1.002	1.002	1.012	1.012	1.000	2.590	1.893	-
1-Dec-01	1.002	1.002	1.013	1.013	1.000	2.478	1.860	4,348,459
1-Dec-02	1.002	1.002	1.014	1.014	1.000	2.372	1.806	4,411,415
1-Dec-03	1.003	1.003	1.015	1.015	1.000	2.269	1.758	4,536,443
1-Dec-04	1.004	1.004	1.016	1.016	1.000	2.172	1.702	4,587,757
1-Dec-05	1.005	1.005	1.018	1.018	1.000	2.078	1.653	4,646,188
1-Dec-06	1.006	1.006	1.021	1.021	1.000	1.989	1.605	4,480,513
1-Dec-07	1.007	1.007	1.024	1.024	1.000	1.903	1.562	4,456,640
1-Dec-08	1.008	1.008	1.028	1.028	1.000	1.821	1.513	5,016,244
1-Dec-09	1.010	1.010	1.032	1.032	1.000	1.774	1.469	5,265,352
1-Dec-10	1.012	1.012	1.036	1.036	1.000	1.802	1.426	4,890,532
1-Dec-11	1.016	1.016	1.043	1.043	1.000	1.720	1.388	5,150,838
1-Dec-12	1.020	1.020	1.058	1.058	1.000	1.636	1.344	4,827,828
1-Dec-13	1.026	1.026	1.078	1.078	1.000	1.554	1.305	4,827,828
1-Dec-14	1.032	1.032	1.099	1.099	1.000	1.481	1.267	4,684,830
1-Dec-15	1.050	1.050	1.149	1.149	1.000	1.410	1.233	4,970,309
1-Dec-16	1.071	1.071	1.206	1.206	1.000	1.341	1.194	5,291,126
1-Dec-17	1.095	1.095	1.282	1.282	1.001	1.274	1.159	5,390,504
1-Dec-18	1.162	1.162	1.403	1.403	1.002	1.213	1.126	5,802,830
1-Dec-19	1.250	1.250	1.598	1.598	1.003	1.156	1.095	5,241,633
1-Dec-20	1.390	1.390	1.961	1.961	1.006	1.093	1.061	5,918,294
1-Dec-21	1.612	1.612	2.674	2.674	1.010	1.045	1.030	6,312,408
1-Dec-22	2.538	2.538	6.017	6.017	1.050	1.000	1.000	5,897,102

Methods Included in Analysis :  
Source Used for LDFs :

**Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity  
Company Exclusively**

LDF Annual Decay Rate (Incurred/Paid/Clm Count): **0.75**  
ELR for B/F Method : **0.66**  
Generalized Cape Cod Decay Factor: **0.75**  
Loss Limitation : **Exhibit 10, Column (5)**  
Discount Rates : **4.48%**  
States Selected for WC : **IL**

**Column (2) : Company Exclusively**  
**Column (3) : Exhibit 13, Sheet 1, Column (15)**  
**Column (4) : Company Exclusively**

**Column (5) : Exhibit 13, Sheet 2, Column (15)**  
**Column (6) : Company Exclusively**  
**Column (7) : Aon Compilation of Estimated Trends, California Indices, Benefit Level Adjustment Factors**

**Column (8) : Flat 3.00%**  
**Column (9) : supplied by Cook County, Illinois**



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Indemnity)**

**Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/23  
Limited Loss Calculations**

(1) Policy Period Inception	(2) Unlimited			(5) Retention	(6) Claims valued over the Retention			(10) Limited			
	Incurred	Paid	Case O/S		No.	Incurred	No.	Paid	Incurred	Paid	Case O/S
Prior	\$ 56,417,147	\$ 52,289,662	\$ 4,127,486	Various	-	\$ -	-	\$ -	\$ 56,417,147	\$ 52,289,662	\$ 4,127,486
1-Dec-01	\$ 1,187,430	\$ 1,187,430	\$ -	\$ 9,500,000	-	\$ -	-	\$ -	\$ 1,187,430	\$ 1,187,430	\$ -
1-Dec-02	\$ 3,265,178	\$ 3,042,070	\$ 223,108	\$ 9,500,000	-	\$ -	-	\$ -	\$ 3,265,178	\$ 3,042,070	\$ 223,108
1-Dec-03	\$ 1,954,982	\$ 1,877,007	\$ 77,975	Various	-	\$ -	-	\$ -	\$ 1,954,982	\$ 1,877,007	\$ 77,975
1-Dec-04	\$ 2,666,932	\$ 2,666,932	\$ -	Unlimited	-	\$ -	-	\$ -	\$ 2,666,932	\$ 2,666,932	\$ -
1-Dec-05	\$ 1,739,346	\$ 1,739,346	\$ -	Unlimited	-	\$ -	-	\$ -	\$ 1,739,346	\$ 1,739,346	\$ -
1-Dec-06	\$ 2,086,988	\$ 2,086,988	\$ -	Unlimited	-	\$ -	-	\$ -	\$ 2,086,988	\$ 2,086,988	\$ -
1-Dec-07	\$ 1,930,536	\$ 1,930,536	\$ -	Unlimited	-	\$ -	-	\$ -	\$ 1,930,536	\$ 1,930,536	\$ -
1-Dec-08	\$ 2,135,443	\$ 2,078,267	\$ 57,176	Unlimited	-	\$ -	-	\$ -	\$ 2,135,443	\$ 2,078,267	\$ 57,176
1-Dec-09	\$ 2,879,276	\$ 2,261,144	\$ 618,133	Unlimited	-	\$ -	-	\$ -	\$ 2,879,276	\$ 2,261,144	\$ 618,133
1-Dec-10	\$ 2,002,274	\$ 1,959,636	\$ 42,638	Unlimited	-	\$ -	-	\$ -	\$ 2,002,274	\$ 1,959,636	\$ 42,638
1-Dec-11	\$ 2,359,631	\$ 2,262,572	\$ 97,058	Unlimited	-	\$ -	-	\$ -	\$ 2,359,631	\$ 2,262,572	\$ 97,058
1-Dec-12	\$ 3,760,785	\$ 3,317,197	\$ 443,588	Unlimited	-	\$ -	-	\$ -	\$ 3,760,785	\$ 3,317,197	\$ 443,588
1-Dec-13	\$ 3,237,199	\$ 2,509,946	\$ 727,253	Unlimited	-	\$ -	-	\$ -	\$ 3,237,199	\$ 2,509,946	\$ 727,253
1-Dec-14	\$ 1,738,587	\$ 1,639,318	\$ 99,269	Unlimited	-	\$ -	-	\$ -	\$ 1,738,587	\$ 1,639,318	\$ 99,269
1-Dec-15	\$ 2,487,923	\$ 2,368,172	\$ 119,751	Unlimited	-	\$ -	-	\$ -	\$ 2,487,923	\$ 2,368,172	\$ 119,751
1-Dec-16	\$ 2,792,843	\$ 2,297,445	\$ 495,398	Unlimited	-	\$ -	-	\$ -	\$ 2,792,843	\$ 2,297,445	\$ 495,398
1-Dec-17	\$ 2,157,066	\$ 1,898,099	\$ 258,966	Unlimited	-	\$ -	-	\$ -	\$ 2,157,066	\$ 1,898,099	\$ 258,966
1-Dec-18	\$ 4,061,135	\$ 2,276,584	\$ 1,784,551	Unlimited	-	\$ -	-	\$ -	\$ 4,061,135	\$ 2,276,584	\$ 1,784,551
1-Dec-19	\$ 2,548,469	\$ 1,345,153	\$ 1,203,316	Unlimited	-	\$ -	-	\$ -	\$ 2,548,469	\$ 1,345,153	\$ 1,203,316
1-Dec-20	\$ 3,281,601	\$ 1,229,886	\$ 2,051,716	Unlimited	-	\$ -	-	\$ -	\$ 3,281,601	\$ 1,229,886	\$ 2,051,716
1-Dec-21	\$ 3,446,556	\$ 1,304,121	\$ 2,142,435	Unlimited	-	\$ -	-	\$ -	\$ 3,446,556	\$ 1,304,121	\$ 2,142,435
1-Dec-22	\$ 2,202,641	\$ 372,588	\$ 1,830,053	Unlimited	-	\$ -	-	\$ -	\$ 2,202,641	\$ 372,588	\$ 1,830,053
	\$ 112,339,967	\$ 95,940,099	\$ 16,399,868		-	\$ -	-	\$ -	\$ 112,339,967	\$ 95,940,099	\$ 16,399,868

Column (2) and Column (3) : Supplied by Cook County, Illinois  
 Column (4) : Column (2) - Column (3)  
 Column (5) : Individual loss limitation

Column (6) through Column (9) : supplied by Cook County, Illinois  
 Column (10) : Column (2) - Column (7) + [Column (5) x Column (6)]  
 Column (11) : Column (3) - Column (9) + [Column (5) x Column (8)]

**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Indemnity)**

**Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/23  
Selected Ultimate Claim Counts**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Policy Period Inception	Trended Payroll (in 00s)	Reported Claims	Claim CDF	Chain-Ladder Developed Claims	Frequency Trend	Trended Developed Claims	Trended Frequency Rate	Bornhuetter-Ferguson Developed	Selected Trended Claims	Selected Untrended Claims	Trended Frequency Rate
1-Dec-01	8,089,415	490	1.000	490	1.000	490	0.00606%		490	490	0.00606%
1-Dec-02	7,967,507	514	1.000	514	1.000	514	0.00645%		514	514	0.00645%
1-Dec-03	7,974,299	593	1.000	593	1.000	593	0.00744%		593	593	0.00744%
1-Dec-04	7,810,350	518	1.000	518	1.000	518	0.00663%		518	518	0.00663%
1-Dec-05	7,679,441	510	1.000	510	1.000	510	0.00664%		510	510	0.00664%
1-Dec-06	7,189,908	318	1.000	318	1.000	318	0.00442%		318	318	0.00442%
1-Dec-07	6,960,424	274	1.000	274	1.000	274	0.00394%		274	274	0.00394%
1-Dec-08	7,587,520	280	1.000	280	1.000	280	0.00369%		280	280	0.00369%
1-Dec-09	7,732,346	214	1.000	214	1.000	214	0.00277%		214	214	0.00277%
1-Dec-10	6,972,729	202	1.000	202	1.000	202	0.00290%		202	202	0.00290%
1-Dec-11	7,147,549	169	1.000	169	1.000	169	0.00236%		169	169	0.00236%
1-Dec-12	6,488,197	143	1.000	143	1.000	143	0.00220%		143	143	0.00220%
1-Dec-13	6,299,220	158	1.000	158	1.000	158	0.00251%		158	158	0.00251%
1-Dec-14	5,934,603	158	1.000	158	1.000	158	0.00266%		158	158	0.00266%
1-Dec-15	6,127,929	176	1.000	176	1.000	176	0.00287%		176	176	0.00287%
1-Dec-16	6,317,882	167	1.000	167	1.000	167	0.00264%		167	167	0.00264%
1-Dec-17	6,249,072	180	1.001	180	1.000	180	0.00288%		180	180	0.00288%
1-Dec-18	6,531,137	159	1.002	159	1.000	159	0.00244%		159	159	0.00244%
1-Dec-19	5,741,800	223	1.003	224	1.000	224	0.00390%		224	224	0.00390%
1-Dec-20	6,278,718	171	1.006	172	1.000	172	0.00274%		172	172	0.00274%
1-Dec-21	6,501,781	174	1.010	176	1.000	176	0.00270%		176	176	0.00270%
1-Dec-22	5,897,102	135	1.050	142	1.000	142	0.00240%		142	142	0.00240%
<b>Total</b>	<b>151,478,928</b>	<b>5,926</b>		<b>5,937</b>		<b>5,937</b>	<b>0.00392%</b>		<b>5,937</b>	<b>5,937</b>	<b>0.00392%</b>

Column (2) : from Exhibit 4  
 Column (3) : supplied by Cook County, Illinois  
 Column (4) : from Exhibit 9

Column (5) : Column (3) x Column (4)  
 Column (6) : Assumption  
 Column (7) : Column (5) x Column (6)  
 Column (8) : Column (7) / Column (2)

Column (9) : Bornhuetter Method = (3) + (1.0 - 1.0 / (4)) x 535  
 Column (10) : Selected Trended Ultimate Claims  
 Column (11) : Column (10) / Column (6)  
 Column (12) : Column (10) / Column (2)

<b>Selected Frequency Rate for Renewal Policy Period 1-Dec-23</b>					
<u>Weighted Averages through and including Policy Period 1-Dec-22</u>					
Last 5 Policies	30,950,538			872	0.00282%
Last 3 Policies	18,677,602			489	0.00262%
Last 2 Policies	12,398,883			317	0.00256%
Last 22 Policies	151,478,928			5,937	0.00392%
Selected Bornhuetter-Ferguson Frequency Rate					<b>0.00301%</b>
Factor to adjust the Claims / Exposure Trend Rate from Policy Period 1-Dec-22 to Renewal Period 1-Dec-23					0.973
Selected Frequency Rate adjusted to the Renewal Policy Period Level					0.00293%
Payroll for 1-Dec-23					7,188,384
Projected Count for 1-Dec-23					211



**Cook County, Illinois**  
**Workers Compensation - Health Care Facilities (Indemnity)**  
**Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/23**  
**Losses Limited to Retentions**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
<b>Policy Period Inception</b>	<b>Incurred Loss</b>	<b>Selected Ultimate Loss</b>	<b>Loss Trend Factor</b>	<b>Retention Adjustment Factor</b>	<b>Trended Ultimate Loss</b>	<b>Payroll (in 00s)</b>	<b>Exposure Trend Factor</b>	<b>Trended Payroll (in 00s)</b>	<b>Trended Loss Rate</b>
1-Dec-01	1,187,430	1,192,000	2.590	1.000	3,088,264	4,348,459	1.911	8,311,599	0.37
1-Dec-02	3,265,178	3,270,000	2.478	1.000	8,107,176	4,411,415	1.856	8,186,343	0.99
1-Dec-03	1,954,982	1,962,000	2.372	1.000	4,652,933	4,536,443	1.806	8,193,322	0.57
1-Dec-04	2,666,932	2,677,000	2.269	1.000	6,075,190	4,587,757	1.749	8,024,869	0.76
1-Dec-05	1,739,346	1,739,346	2.172	1.000	3,777,299	4,646,188	1.698	7,890,365	0.48
1-Dec-06	2,086,988	2,093,000	2.078	1.000	4,349,589	4,480,513	1.649	7,387,386	0.59
1-Dec-07	1,930,536	1,942,000	1.989	1.000	3,861,997	4,456,640	1.605	7,151,599	0.54
1-Dec-08	2,135,443	2,156,000	1.903	1.000	4,102,940	5,016,244	1.554	7,795,918	0.53
1-Dec-09	2,879,276	2,975,000	1.854	1.000	5,515,609	5,265,352	1.509	7,944,723	0.69
1-Dec-10	2,002,274	2,026,000	1.883	1.000	3,814,416	4,890,532	1.465	7,164,242	0.53
1-Dec-11	2,359,631	2,404,000	1.797	1.000	4,319,978	5,150,838	1.426	7,343,863	0.59
1-Dec-12	3,760,785	3,866,000	1.709	1.000	6,608,334	4,827,828	1.381	6,666,401	0.99
1-Dec-13	3,237,199	3,310,000	1.624	1.000	5,374,770	4,827,828	1.341	6,472,234	0.83
1-Dec-14	1,738,587	1,810,000	1.547	1.000	2,800,359	4,684,830	1.302	6,097,603	0.46
1-Dec-15	2,487,923	2,620,000	1.474	1.000	3,861,309	4,970,309	1.267	6,296,239	0.61
1-Dec-16	2,792,843	2,990,000	1.402	1.000	4,190,775	5,291,126	1.227	6,491,408	0.65
1-Dec-17	2,157,066	2,410,000	1.332	1.000	3,209,545	5,390,504	1.191	6,420,709	0.50
1-Dec-18	4,061,135	4,500,000	1.268	1.000	5,705,841	5,802,830	1.156	6,710,521	0.85
1-Dec-19	2,548,469	3,200,000	1.208	1.000	3,866,973	5,241,633	1.126	5,899,504	0.66
1-Dec-20	3,281,601	4,400,000	1.142	1.000	5,026,595	5,918,294	1.090	6,451,170	0.78
1-Dec-21	3,446,556	4,900,000	1.092	1.000	5,350,923	6,312,408	1.058	6,680,359	0.80
1-Dec-22	2,202,641	4,300,000	1.045	1.000	4,493,500	5,897,102	1.027	6,059,072	0.74

All Year Weighted Average					102,154,315			155,639,449	0.66
Latest 5-Year Weighted Average					24,443,832			31,800,626	0.77
Latest 3-Year Weighted Average					14,871,018			19,190,601	0.77
<b>SELECTED</b>									<b>0.66</b>

Column (1) : from Exhibit 10 Column (10)  
 Column (2) : from Exhibit 2, Column (10)  
 Column (3) : Trend Indices appropriate for Workers Compensation - Health Care Facilities (Ir  
 Column (4) : from Retention Analysis  
 Column (5) : Column (2) x Column (3) x Column (4)  
 Column (6) : supplied by Cook County, Illinois  
 Column (7) : Annual Exposure Trend  
 Column (8) : Column (6) x Column (7)  
 Column (9) : Column (5) / Column (8)

Renewal Projections (Losses and Claims developed to Ultimate)						
	(10)	(11)	(12)	(13)	(14)	(15)
<b>Policy Period Inception</b>	<b>Retention</b>	<b>Payroll (in 00s)</b>	<b>Claim Count</b>	<b>Loss Rate</b>	<b>Loss Amount</b>	
1-Dec-23	Unlimited	7,188,384	211	0.66	4,700,000	
1-Dec-24	Unlimited	7,422,296	211	0.67	5,000,000	
1-Dec-25	Unlimited	7,644,965	211	0.68	5,200,000	

Columns (11) - (15) : Projections. These are preliminary and should be monitored with actuarial updates.



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Indemnity)**

Average : \$9,027      sigma = 2.192  
CV : 11.00            mu = 6.706

**Limitation of Incurred LDF's for Workers Compensation - Health Care Facilities (Indemnity)**

Evaluation	(1) Incurred LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.002	1.000	9,500,000	4.271	2.079	1.000	0.981	8,949	9,517,631	4.272	2.080	1.000	0.981	8,950	1.002
264	1.002	1.000	9,500,000	4.271	2.079	1.000	0.981	8,949	9,519,164	4.272	2.080	1.000	0.981	8,950	1.002
252	1.002	1.000	9,500,000	4.271	2.079	1.000	0.981	8,949	9,520,831	4.272	2.080	1.000	0.981	8,950	1.002
240	1.003	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,003,194,877	6.397	4.205	1.000	1.000	9,027	1.003
228	1.004	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,004,198,072	6.397	4.205	1.000	1.000	9,027	1.004
216	1.005	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,005,202,270	6.398	4.206	1.000	1.000	9,027	1.005
204	1.006	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,006,207,473	6.398	4.206	1.000	1.000	9,027	1.006
192	1.007	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,007,213,680	6.399	4.207	1.000	1.000	9,027	1.007
180	1.008	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,008,220,894	6.399	4.207	1.000	1.000	9,027	1.008
168	1.010	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,010,237,335	6.400	4.208	1.000	1.000	9,027	1.010
156	1.012	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,012,257,810	6.401	4.209	1.000	1.000	9,027	1.012
144	1.016	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,015,796,058	6.402	4.211	1.000	1.000	9,027	1.016
132	1.020	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,019,940,348	6.404	4.213	1.000	1.000	9,027	1.020
120	1.026	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,026,059,990	6.407	4.215	1.000	1.000	9,027	1.026
108	1.032	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,032,216,350	6.410	4.218	1.000	1.000	9,027	1.032
96	1.050	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,049,764,028	6.417	4.226	1.000	1.000	9,027	1.050
84	1.071	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,070,759,308	6.427	4.235	1.000	1.000	9,027	1.071
72	1.095	1.001	999,999,999	6.395	4.204	1.000	1.000	9,027	1,094,292,480	6.436	4.245	1.000	1.000	9,027	1.095
60	1.162	1.002	999,999,999	6.395	4.204	1.000	1.000	9,027	1,159,274,295	6.463	4.271	1.000	1.000	9,027	1.162
48	1.250	1.003	999,999,999	6.395	4.204	1.000	1.000	9,027	1,246,381,061	6.496	4.304	1.000	1.000	9,027	1.250
36	1.390	1.006	999,999,999	6.395	4.204	1.000	1.000	9,027	1,381,351,774	6.543	4.351	1.000	1.000	9,027	1.390
24	1.612	1.010	999,999,999	6.395	4.204	1.000	1.000	9,027	1,596,329,007	6.609	4.417	1.000	1.000	9,027	1.612
12	2.538	1.050	999,999,999	6.395	4.204	1.000	1.000	9,027	2,417,826,526	6.798	4.606	1.000	1.000	9,027	2.538

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Indemnity)**

Average : \$9,027      sigma = 2.192  
CV : 11.00            mu = 6.706

**Limitation of Paid LDF's for Workers Compensation - Health Care Facilities (Indemnity)**

Evaluation	(1) Paid LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.012	1.000	9,500,000	4.271	2.079	1.000	0.981	8,949	9,614,000	4.276	2.084	1.000	0.981	8,950	1.012
264	1.013	1.000	9,500,000	4.271	2.079	1.000	0.981	8,949	9,623,528	4.277	2.085	1.000	0.981	8,951	1.013
252	1.014	1.000	9,500,000	4.271	2.079	1.000	0.981	8,949	9,632,293	4.277	2.085	1.000	0.981	8,951	1.014
240	1.015	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,014,939,517	6.402	4.210	1.000	1.000	9,027	1.015
228	1.016	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,015,954,456	6.403	4.211	1.000	1.000	9,027	1.016
216	1.018	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,017,986,365	6.403	4.212	1.000	1.000	9,027	1.018
204	1.021	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,021,040,324	6.405	4.213	1.000	1.000	9,027	1.021
192	1.024	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,024,103,445	6.406	4.214	1.000	1.000	9,027	1.024
180	1.028	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,028,199,859	6.408	4.216	1.000	1.000	9,027	1.028
168	1.032	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,032,312,659	6.410	4.218	1.000	1.000	9,027	1.032
156	1.036	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,036,441,909	6.412	4.220	1.000	1.000	9,027	1.036
144	1.043	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,042,556,198	6.414	4.223	1.000	1.000	9,027	1.043
132	1.058	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,058,194,541	6.421	4.229	1.000	1.000	9,027	1.058
120	1.078	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,077,816,111	6.430	4.238	1.000	1.000	9,027	1.078
108	1.099	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,099,372,433	6.439	4.247	1.000	1.000	9,027	1.099
96	1.149	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,148,844,192	6.459	4.267	1.000	1.000	9,027	1.149
84	1.206	1.000	999,999,999	6.395	4.204	1.000	1.000	9,027	1,206,286,402	6.481	4.289	1.000	1.000	9,027	1.206
72	1.282	1.001	999,999,999	6.395	4.204	1.000	1.000	9,027	1,280,231,886	6.508	4.316	1.000	1.000	9,027	1.282
60	1.403	1.002	999,999,999	6.395	4.204	1.000	1.000	9,027	1,400,453,461	6.549	4.357	1.000	1.000	9,027	1.403
48	1.598	1.003	999,999,999	6.395	4.204	1.000	1.000	9,027	1,593,057,547	6.608	4.416	1.000	1.000	9,027	1.598
36	1.961	1.006	999,999,999	6.395	4.204	1.000	1.000	9,027	1,949,091,109	6.700	4.508	1.000	1.000	9,027	1.961
24	2.674	1.010	999,999,999	6.395	4.204	1.000	1.000	9,027	2,647,848,352	6.840	4.648	1.000	1.000	9,027	2.674
12	6.017	1.050	999,999,999	6.395	4.204	1.000	1.000	9,027	5,732,841,479	7.192	5.000	1.000	1.000	9,027	6.017

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Indemnity)  
Projected Losses Paid 12/1/2023 to 11/30/2024**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/23	Percent Losses Paid	Months of Development 11/30/24	Percent Losses Paid	Estimated Outstanding Losses 11/30/23	Projected Losses Paid	Estimated Outstanding Losses 11/30/24	Discount Factor	Discounted Outstanding Losses 11/30/24
Prior	276	98.8%	288	99.1%	\$ 4,451,338	\$ 890,268 *	\$ 3,561,071	0.867	\$ 3,086,074
1-Dec-01	264	98.7%	276	98.8%	\$ 4,570	\$ 348 *	\$ 4,221	0.866	\$ 3,657
1-Dec-02	252	98.6%	264	98.7%	\$ 227,930	\$ 14,909 *	\$ 213,021	0.841	\$ 179,061
1-Dec-03	240	98.5%	252	98.6%	\$ 84,993	\$ 5,689 *	\$ 79,304	0.816	\$ 64,705
1-Dec-04	228	98.4%	240	98.5%	\$ 10,068	\$ 631 *	\$ 9,437	0.794	\$ 7,495
1-Dec-05	216	98.2%	228	98.4%	\$ -	\$ - *	\$ -	0.774	\$ -
1-Dec-06	204	97.9%	216	98.2%	\$ 6,012	\$ 857 *	\$ 5,155	0.767	\$ 3,954
1-Dec-07	192	97.6%	204	97.9%	\$ 11,464	\$ 1,427 *	\$ 10,037	0.769	\$ 7,718
1-Dec-08	180	97.3%	192	97.6%	\$ 77,733	\$ 11,026 *	\$ 66,707	0.766	\$ 51,108
1-Dec-09	168	96.9%	180	97.3%	\$ 713,856	\$ 88,369 *	\$ 625,488	0.768	\$ 480,420
1-Dec-10	156	96.5%	168	96.9%	\$ 66,364	\$ 7,284 *	\$ 59,080	0.765	\$ 45,211
1-Dec-11	144	95.9%	156	96.5%	\$ 141,428	\$ 19,605 *	\$ 121,822	0.759	\$ 92,515
1-Dec-12	132	94.5%	144	95.9%	\$ 548,803	\$ 109,761 *	\$ 439,043	0.762	\$ 334,431
1-Dec-13	120	92.8%	132	94.5%	\$ 800,054	\$ 160,011 *	\$ 640,043	0.793	\$ 507,759
1-Dec-14	108	91.0%	120	92.8%	\$ 170,682	\$ 34,136 *	\$ 136,545	0.811	\$ 110,806
1-Dec-15	96	87.0%	108	91.0%	\$ 251,828	\$ 50,366 *	\$ 201,462	0.817	\$ 164,652
1-Dec-16	84	82.9%	96	87.0%	\$ 692,555	\$ 138,511 *	\$ 554,044	0.842	\$ 466,241
1-Dec-17	72	78.0%	84	82.9%	\$ 511,901	\$ 102,380 *	\$ 409,520	0.847	\$ 347,005
1-Dec-18	60	71.3%	72	78.0%	\$ 2,223,416	\$ 444,683 *	\$ 1,778,733	0.848	\$ 1,508,502
1-Dec-19	48	62.6%	60	71.3%	\$ 1,854,847	\$ 370,969 *	\$ 1,483,878	0.851	\$ 1,262,727
1-Dec-20	36	51.0%	48	62.6%	\$ 3,170,114	\$ 634,023 *	\$ 2,536,091	0.852	\$ 2,161,969
1-Dec-21	24	37.4%	36	51.0%	\$ 3,595,879	\$ 719,176 *	\$ 2,876,703	0.854	\$ 2,457,634
1-Dec-22	12	16.6%	24	37.4%	\$ 3,927,412	\$ 785,482 *	\$ 3,141,929	0.853	\$ 2,678,825
1-Dec-23	0	0.0%	12	16.6%	\$ 4,700,000	\$ 781,065 *	\$ 3,918,935	0.856	\$ 3,356,472
Total					\$ 28,243,247	\$ 5,370,977	\$ 22,872,270		\$ 19,378,940

Column (3): 1 / Exhibit 9 Column (3)  
 Column (5): 1 / Rollforward Exhibit Column (54)  
 Column (6): From Executive Summary  
 Column (7): Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)  
 \* - Limited to a maximum of 20% per actuarial judgement





**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Indemnity)  
Projected Losses Paid 12/1/2024 to 11/30/2025**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/24	Percent Losses Paid	Months of Development 11/30/25	Percent Losses Paid	Estimated Outstanding Losses 11/30/24	Projected Losses Paid	Estimated Outstanding Losses 11/30/25	Discount Factor	Discounted Outstanding Losses 11/30/25
Prior	288	99.1%	300	99.3%	\$ 3,348,325	\$ 669,665	* \$ 2,678,660	0.867	\$ 2,321,999
1-Dec-01	276	98.8%	288	99.1%	\$ 4,221	\$ 844	* \$ 3,377	0.867	\$ 2,927
1-Dec-02	264	98.7%	276	98.8%	\$ 213,021	\$ 16,238	* \$ 196,783	0.866	\$ 170,484
1-Dec-03	252	98.6%	264	98.7%	\$ 79,304	\$ 5,187	* \$ 74,117	0.841	\$ 62,301
1-Dec-04	240	98.5%	252	98.6%	\$ 9,437	\$ 632	* \$ 8,806	0.816	\$ 7,185
1-Dec-05	228	98.4%	240	98.5%	\$ -	\$ -	* \$ -	0.794	\$ -
1-Dec-06	216	98.2%	228	98.4%	\$ 5,155	\$ 573	* \$ 4,582	0.774	\$ 3,545
1-Dec-07	204	97.9%	216	98.2%	\$ 10,037	\$ 1,431	* \$ 8,606	0.767	\$ 6,601
1-Dec-08	192	97.6%	204	97.9%	\$ 66,707	\$ 8,303	* \$ 58,404	0.769	\$ 44,911
1-Dec-09	180	97.3%	192	97.6%	\$ 625,488	\$ 88,722	* \$ 536,766	0.766	\$ 411,250
1-Dec-10	168	96.9%	180	97.3%	\$ 59,080	\$ 7,314	* \$ 51,766	0.768	\$ 39,760
1-Dec-11	156	96.5%	168	96.9%	\$ 121,822	\$ 13,372	* \$ 108,451	0.765	\$ 82,992
1-Dec-12	144	95.9%	156	96.5%	\$ 407,346	\$ 56,468	* \$ 350,878	0.759	\$ 266,466
1-Dec-13	132	94.5%	144	95.9%	\$ 609,412	\$ 121,882	* \$ 487,530	0.762	\$ 371,365
1-Dec-14	120	92.8%	132	94.5%	\$ 136,330	\$ 27,266	* \$ 109,064	0.793	\$ 86,523
1-Dec-15	108	91.0%	120	92.8%	\$ 175,693	\$ 35,139	* \$ 140,554	0.811	\$ 114,059
1-Dec-16	96	87.0%	108	91.0%	\$ 524,692	\$ 104,938	* \$ 419,754	0.817	\$ 343,057
1-Dec-17	84	82.9%	96	87.0%	\$ 398,503	\$ 79,701	* \$ 318,802	0.842	\$ 268,279
1-Dec-18	72	78.0%	84	82.9%	\$ 1,699,617	\$ 339,923	* \$ 1,359,694	0.847	\$ 1,152,130
1-Dec-19	60	71.3%	72	78.0%	\$ 1,424,620	\$ 284,924	* \$ 1,139,696	0.848	\$ 966,550
1-Dec-20	48	62.6%	60	71.3%	\$ 2,420,611	\$ 484,122	* \$ 1,936,489	0.851	\$ 1,647,882
1-Dec-21	36	51.0%	48	62.6%	\$ 2,814,306	\$ 562,861	* \$ 2,251,445	0.852	\$ 1,919,313
1-Dec-22	24	37.4%	36	51.0%	\$ 2,948,969	\$ 589,794	* \$ 2,359,175	0.854	\$ 2,015,498
1-Dec-23	12	16.6%	24	37.4%	\$ 3,918,935	\$ 783,787	* \$ 3,135,148	0.853	\$ 2,673,044
1-Dec-24	0	0.0%	12	16.6%	\$ 5,000,000	\$ 830,920	* \$ 4,169,080	0.856	\$ 3,570,715
<b>Total</b>					<b>\$ 27,021,631</b>	<b>\$ 5,114,006</b>	<b>\$ 21,907,625</b>		<b>\$ 18,548,837</b>

Column (3): 1 / Rollforward Exhibit Column (54)  
 Column (5): 1 / Rollforward Exhibit 2 Column (54)  
 Column (6): Rollforward Exhibit Column (21) & Projection  
 Column (7): Rollforward Exhibit 2 Column (31) - Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)  
 \* - Limited to a maximum of 20% per actuarial judgement



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Indemnity)  
Projected Losses Paid 12/1/2025 to 11/30/2026**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/25	Percent Losses Paid	Months of Development 11/30/26	Percent Losses Paid	Estimated Outstanding Losses 11/30/25	Projected Losses Paid	Estimated Outstanding Losses 11/30/26	Discount Factor	Discounted Outstanding Losses 11/30/26
Prior	300	99.3%	312	99.5%	\$ 2,516,796	\$ 503,359	* \$ 2,013,437	0.867	\$ 1,745,820
1-Dec-01	288	99.1%	300	99.3%	\$ 3,175	\$ 635	* \$ 2,540	0.867	\$ 2,202
1-Dec-02	276	98.8%	288	99.1%	\$ 196,783	\$ 39,357	* \$ 157,426	0.867	\$ 136,428
1-Dec-03	264	98.7%	276	98.8%	\$ 74,117	\$ 5,649	* \$ 68,468	0.866	\$ 59,318
1-Dec-04	252	98.6%	264	98.7%	\$ 8,806	\$ 576	* \$ 8,230	0.841	\$ 6,918
1-Dec-05	240	98.5%	252	98.6%	\$ -	\$ -	* \$ -	0.816	\$ -
1-Dec-06	228	98.4%	240	98.5%	\$ 4,582	\$ 287	* \$ 4,294	0.794	\$ 3,410
1-Dec-07	216	98.2%	228	98.4%	\$ 8,606	\$ 957	* \$ 7,649	0.774	\$ 5,919
1-Dec-08	204	97.9%	216	98.2%	\$ 58,404	\$ 8,327	* \$ 50,077	0.767	\$ 38,410
1-Dec-09	192	97.6%	204	97.9%	\$ 536,766	\$ 66,808	* \$ 469,958	0.769	\$ 361,383
1-Dec-10	180	97.3%	192	97.6%	\$ 51,766	\$ 7,343	* \$ 44,424	0.766	\$ 34,036
1-Dec-11	168	96.9%	180	97.3%	\$ 108,451	\$ 13,425	* \$ 95,025	0.768	\$ 72,986
1-Dec-12	156	96.5%	168	96.9%	\$ 350,878	\$ 38,514	* \$ 312,364	0.765	\$ 239,036
1-Dec-13	144	95.9%	156	96.5%	\$ 452,332	\$ 62,704	* \$ 389,628	0.759	\$ 295,895
1-Dec-14	132	94.5%	144	95.9%	\$ 103,844	\$ 20,769	* \$ 83,075	0.762	\$ 63,281
1-Dec-15	120	92.8%	132	94.5%	\$ 140,332	\$ 28,066	* \$ 112,266	0.793	\$ 89,063
1-Dec-16	108	91.0%	120	92.8%	\$ 366,062	\$ 73,212	* \$ 292,850	0.811	\$ 237,646
1-Dec-17	96	87.0%	108	91.0%	\$ 301,913	\$ 60,383	* \$ 241,530	0.817	\$ 197,398
1-Dec-18	84	82.9%	96	87.0%	\$ 1,323,112	\$ 264,622	* \$ 1,058,490	0.842	\$ 890,744
1-Dec-19	72	78.0%	84	82.9%	\$ 1,089,004	\$ 217,801	* \$ 871,203	0.847	\$ 738,210
1-Dec-20	60	71.3%	72	78.0%	\$ 1,859,157	\$ 371,831	* \$ 1,487,325	0.848	\$ 1,261,366
1-Dec-21	48	62.6%	60	71.3%	\$ 2,148,926	\$ 429,785	* \$ 1,719,141	0.851	\$ 1,462,927
1-Dec-22	36	51.0%	48	62.6%	\$ 2,308,004	\$ 461,601	* \$ 1,846,403	0.852	\$ 1,574,023
1-Dec-23	24	37.4%	36	51.0%	\$ 2,942,605	\$ 588,521	* \$ 2,354,084	0.854	\$ 2,011,148
1-Dec-24	12	16.6%	24	37.4%	\$ 4,169,080	\$ 833,816	* \$ 3,335,264	0.853	\$ 2,843,663
1-Dec-25	0	0.0%	12	16.6%	\$ 5,200,000	\$ 864,157	* \$ 4,335,843	0.856	\$ 3,713,543
Total					\$ 26,323,500	\$ 4,962,506	\$ 21,360,994		\$ 18,084,773

Column (3): 1 / Rollforward Exhibit 2 Column (54)

Column (5): 1 / Rollforward Exhibit 3 Column (54)

Column (6): Rollforward Exhibit 2 Column (21) & Projection

Column (7): Rollforward Exhibit 3 Column (31) - Rollforward Exhibit 2 Column (31)

Column (8): Column (6) - Column (7)

Column (9): Based on Column (3) and 4.48% Interest Rate

Column (10): Column (8) x Column (9)

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



**Cook County, Illinois**  
**Workers Compensation - Health Care Facilities (Indemnity)**  
**Large Claims**

All Claims greater than or equal to \$1,000,000

(1)	(2)	(3)	(4)	(5)
<u>Policy</u> <u>Period</u>	<u>Loss</u> <u>Date</u>	<u>Incurred</u> <u>Loss</u>	<u>Paid</u> <u>Loss</u>	<u>Case</u> <u>Reserves</u>
Prior	7/28/1989	1,139,094	812,468	326,626
Prior	7/17/1990	1,009,383	619,908	389,475
Prior	6/14/1995	1,811,316	208,350	1,602,966
Prior	11/12/1995	1,436,290	909,198	527,092
Prior	7/28/1997	1,194,480	1,103,672	90,809
12/1/2002	12/23/2002	1,009,118	786,010	223,108
12/1/2012	8/22/2013	1,207,413	839,946	367,467
12/1/2018	5/8/2019	1,065,817	193,022	872,795

Cook County, Illinois  
Workers' Compensation - Health Care Facilities  
Occurrence  
Indemnity  
Incurred Development Triangle  
Data Unlimited (000s)  
As of 11/30/2023

Table with columns: Policy Year, Age in Months (12, 24, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, 204, 216, 228, 240, 252, 264, 276). Rows include years from 12/1/2001 to 12/1/2022.

Table with columns: Policy Year, Age-to-Age (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, 240-252, 252-264, 264-276, 276-Ult). Rows include years from 12/1/2001 to 12/1/2022.

Averages table with columns: 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, 240-252, 252-264, 264-276, 276-Ult. Rows include All Year Average, 3 Yr Average, 5 Yr Average, 3 Yr Wtd Average, 5 Yr Wtd Average, Avg X HI-Lo (3yr X 2), Avg X HI-Lo (5yr X 2), Prior, Industry, and Initial Selected.

Tail Factor Calculation table with columns: 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, 240-252, 252-264, 264-276, 276-Ult. Rows include Inverse Power Curve Fit, Exponential Curve Fit, Weibull Curve Fit, Manual Entry, Selected Tail Method, Final Link Ratio, and Final CDF.

The County changed data systems during 2016, resulting in a shift between indemnity and medical. The amounts in the 2016 diagonal are not consistent with prior diagonals.  
Industry Factor Source: 2023 NCCI Indemnity Only

Cook County, Illinois  
Workers' Compensation - Health Care Facilities  
Occurrence  
Indemnity  
Paid Development Triangle  
Data Unlimited (000s)  
As of 11/30/2023

		Age in Months																																						
Policy Year		12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276																
Prior																																								
12/1/2001						902	975	1,041	1,045	1,069	1,069	1,093	1,095	1,095	1,176	1,176	1,176	1,176	1,181	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	
12/1/2002					1,336	1,415	1,592	2,362	2,426	2,575	2,697	2,715	2,731	2,746	2,930	2,946	2,965	2,981	2,999	3,015	3,030	3,048																		
12/1/2003				1,101	1,221	1,381	1,547	1,647	1,648	1,648	1,653	1,653	1,659	1,773	1,815	1,847	1,859	1,860	1,870	1,872	1,877																			
12/1/2004		784		1,002	1,136	1,437	1,734	1,781	1,833	1,880	1,957	2,090	2,334	2,381	2,462	2,524	2,536	2,536	2,563	2,667																				
12/1/2005	303	518	920	1,137	1,264	1,344	1,437	1,442	1,501	1,619	1,733	1,733	1,733	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739	1,739																		
12/1/2006	368	809	1,184	1,411	1,629	1,714	1,869	1,877	1,920	2,087	2,087	2,087	2,087	2,087	2,087	2,087	2,087	2,087	2,087	2,087	2,087																			
12/1/2007	442	931	1,263	1,481	1,566	1,580	1,597	1,605	1,742	1,767	1,772	1,883	1,885	1,912	1,930	1,931																								
12/1/2008	309	575	756	995	1,148	1,360	1,495	1,920	1,955	2,016	2,048	2,075	2,076	2,076	2,078																									
12/1/2009	332	781	1,032	1,146	1,246	1,580	1,709	1,815	1,941	2,046	2,122	2,211	2,248	2,261																										
12/1/2010	503	758	947	1,115	1,281	1,594	1,631	1,667	1,722	1,731	1,937	1,939	1,960																											
12/1/2011	558	903	1,169	1,369	1,755	1,913	2,108	2,128	2,161	2,227	2,237	2,290																												
12/1/2012	334	930	1,179	1,711	2,255	2,422	2,582	2,903	3,209	3,265	3,347																													
12/1/2013	480	1,031	1,686	2,042	2,117	2,218	2,282	2,436	2,509	2,510																														
12/1/2014	283	881	1,063	1,298	1,374	1,437	1,520	1,528	1,653																															
12/1/2015	722	1,329	1,494	1,693	1,901	2,203	2,243	2,372																																
12/1/2016	358	1,021	1,392	1,854	2,099	2,218	2,301																																	
12/1/2017	505	1,017	1,222	1,486	1,637	1,933																																		
12/1/2018	353	1,097	1,532	1,737	2,278																																			
12/1/2019	420	793	1,058	1,346																																				
12/1/2020	540	1,023	1,230																																					
12/1/2021	464	1,304																																						
12/1/2022	373																																							

		Age-to-Age																								
Policy Year		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	240-252	252-264	264-276	276-Ult		
Prior																										
12/1/2001					1,081	1,068	1,004	1,023	1,000	1,022	1,001	1,000	1,000	1,076	1,000	1,005	1,012	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
12/1/2002					1,059	1,125	1,484	1,027	1,061	1,048	1,007	1,006	1,005	1,067	1,005	1,006	1,005	1,006	1,005	1,005	1,005	1,005	1,005	1,000		
12/1/2003				1,110	1,131	1,120	1,064	1,000	1,000	1,003	1,000	1,004	1,069	1,024	1,017	1,007	1,001	1,006	1,001	1,003						
12/1/2004			1,278	1,134	1,265	1,206	1,027	1,029	1,026	1,041	1,053	1,133	1,020	1,034	1,025	1,005	1,000	1,011	1,041							
12/1/2005	1,708	1,777	1,236	1,112	1,063	1,069	1,003	1,110	1,011	1,070	1,000	1,000	1,004	1,000	1,000	1,000	1,000	1,000								
12/1/2006	2,198	1,464	1,192	1,154	1,052	1,090	1,004	1,022	1,087	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000								
12/1/2007	2,105	1,356	1,173	1,057	1,009	1,011	1,005	1,086	1,014	1,003	1,063	1,001	1,014	1,010	1,000											
12/1/2008	1,862	1,315	1,315	1,155	1,184	1,099	1,284	1,018	1,031	1,016	1,013	1,001	1,000	1,001												
12/1/2009	2,354	1,322	1,111	1,087	1,268	1,082	1,062	1,069	1,054	1,037	1,042	1,017	1,006													
12/1/2010	1,506	1,250	1,178	1,149	1,244	1,023	1,022	1,033	1,005	1,119	1,001	1,010														
12/1/2011	1,620	1,295	1,170	1,282	1,090	1,102	1,010	1,015	1,031	1,004	1,024															
12/1/2012	2,782	1,268	1,452	1,318	1,074	1,066	1,124	1,105	1,018	1,025																
12/1/2013	2,147	1,636	1,211	1,036	1,048	1,029	1,068	1,030	1,000																	
12/1/2014	3,108	1,207	1,221	1,059	1,046	1,058	1,005	1,082																		
12/1/2015	1,840	1,124	1,133	1,123	1,159	1,018	1,057																			
12/1/2016	2,849	1,364	1,332	1,132	1,057	1,037																				
12/1/2017	2,014	1,202	1,216	1,101	1,181																					
12/1/2018	3,107	1,397	1,134	1,311																						
12/1/2019	1,889	1,333	1,272																							
12/1/2020	1,894	1,203																								
12/1/2021	2,808																									
12/1/2022																										

		Averages																									
Policy Year		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	240-252	252-264	264-276	276-Ult			
All Year Average		2,223	1,341	1,211	1,149	1,118	1,083	1,047	1,049	1,026	1,030	1,026	1,014	1,016	1,016	1,004	1,003	1,007	1,011	1,025	1,004	1,002	1,005	1,005			
3 Yr Average		2,197	1,311	1,207	1,182	1,132	1,038	1,043	1,072	1,016	1,049	1,022	1,009	1,007	1,004	1,000	1,000	1,005	1,016	1,003	1,004	NA	NA				
5 Yr Average		2,342	1,300	1,217	1,145	1,098	1,042	1,053	1,053	1,022	1,040	1,029	1,006	1,005	1,007	1,002	1,001	1,007	1,011	NA	NA	NA	NA				
3 Yr Wtd Average		2,190	1,311	1,199	1,184	1,127	1,035	1,048	1,073	1,016	1,041	1,023	1,009	1,007	1,003	1,000	1,000	1,006	1,016	1,003	1,005	NA	NA				
5 Yr Wtd Average		2,293	1,300	1,212	1,151	1,097	1,041	1,059	1,055	1,021	1,036	1,028	1,006	1,005	1,008	1,002	1,002	1,007	1,009	NA	NA	NA	NA				
Avg X Hi-Lo (3yr X 2)		1,894	1,333	1,216	1,132	1,159	1,037	1,057	1,082	1,018	1,025	1,024	1,010	1,006	1,001	1,000	1,000	1,006	1,005	1,003	1,005	NA	NA				
Avg X Hi-Lo (5yr X 2)		2,238	1,300	1,207</																							

Cook County, Illinois  
 Workers' Compensation - Health Care Facilities  
 Occurrence  
 Indemnity  
 Reported Claim Count Development Triangle  
 Data Unlimited  
 As of 11/30/2023

		Age in Months																									
Policy Year	Prior	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276			
12/1/2001						489	489	489	489	489	489	489	489	489	489	489	489	489	489	489	489	489	489	489			
12/1/2002					512	512	513	513	513	513	513	513	513	513	513	513	513	513	513	513	513	513	513	513			
12/1/2003				589	589	590	591	591	591	591	591	591	591	591	591	591	591	591	591	591	591	591	591	591			
12/1/2004			516	516	516	517	517	517	517	517	517	517	517	517	517	517	517	517	517	517	517	517	517	517			
12/1/2005	503		507	509	511	511	511	511	511	511	510	510	510	510	510	510	510	510	510	510	510	510	510	510			
12/1/2006	306	313	313	313	313	314	314	314	314	314	318	318	318	318	318	318	318	318	318	318	318	318	318	318			
12/1/2007	263	266	267	268	267	267	274	274	274	274	274	274	274	274	274	274	274	274	274	274	274	274	274	274			
12/1/2008	241	244	270	270	271	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280			
12/1/2009	181	204	205	206	213	213	214	214	214	214	214	214	214	214	214	214	214	214	214	214	214	214	214	214			
12/1/2010	187	193	193	201	201	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202			
12/1/2011	158	161	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169			
12/1/2012	136	140	142	143	143	143	143	143	143	143	143	143	143	143	143	143	143	143	143	143	143	143	143	143			
12/1/2013	145	155	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158			
12/1/2014	149	155	157	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158			
12/1/2015	169	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176			
12/1/2016	149	166	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167			
12/1/2017	174	179	179	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180			
12/1/2018	153	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159			
12/1/2019	209	220	222	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223			
12/1/2020	169	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171			
12/1/2021	171	174	174	174	174	174	174	174	174	174	174	174	174	174	174	174	174	174	174	174	174	174	174	174			
12/1/2022	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135			

		Age-to-Age																										
Policy Year	Prior	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	240-252	252-264	264-276	276-Ult				
12/1/2001						1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2002					1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2003				1.000	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2004			1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2005	1.008	1.004	1.004	1.000	1.000	1.000	1.000	1.000	0.998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2006	1.023	1.003	1.000	1.000	1.003	1.000	1.013	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2007	1.011	1.004	1.004	0.996	1.000	1.026	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2008	1.012	1.107	1.000	1.004	1.033	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2009	1.127	1.005	1.005	1.034	1.000	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2010	1.032	1.000	1.041	1.000	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2011	1.019	1.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2012	1.029	1.014	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2013	1.069	1.019	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2014	1.040	1.013	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2015	1.041	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2016	1.114	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2017	1.029	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2018	1.039	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2019	1.053	1.009	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005				
12/1/2020	1.012	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2021	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018				
12/1/2022	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018				

		Averages																										
Policy Year	Prior	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	240-252	252-264	264-276	276-Ult				
All Year Average		1.040	1.014	1.005	1.002	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				
3 Yr Average		1.027	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	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
5 Yr Average		1.030	1.003	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
3 Yr Wtd Average		1.029	1																									



**Cook County, Illinois**  
**Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/23**  
**Losses Limited to Retentions**

Policy Period	Payroll (in 00s)	Retention	Reported Claims	Open Claims	Incurred	Paid	Case	Est IBNR	Total O/S	Ultimate	Ultimate Loss Rate
	(1)	(2)	(3)	(3a)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
							[(4)-(5)]		[(6)+(7)]	[(4)+(7)]	[(9)/(1)]

**Historical Experience**

Prior	-	Various	7,414	15	13,833,947	13,435,956	397,991	30,053	428,044	13,864,000	
1-Dec-01	4,348,459	9,500,000	490	-	620,425	620,425	-	4,575	4,575	625,000	0.14
1-Dec-02	4,411,415	9,500,000	514	1	916,557	898,593	17,963	2,443	20,407	919,000	0.21
1-Dec-03	4,536,443	Various	593	1	1,325,120	1,218,201	106,920	3,880	110,799	1,329,000	0.29
1-Dec-04	4,587,757	Unlimited	518	-	1,261,451	1,261,451	-	-	-	1,261,451	0.27
1-Dec-05	4,646,188	Unlimited	510	-	763,576	763,576	-	-	-	763,576	0.16
1-Dec-06	4,480,513	Unlimited	318	-	925,319	925,319	-	-	-	925,319	0.21
1-Dec-07	4,456,640	Unlimited	274	-	747,148	747,148	-	-	-	747,148	0.17
1-Dec-08	5,016,244	Unlimited	280	4	694,482	689,795	4,687	518	5,205	695,000	0.14
1-Dec-09	5,265,352	Unlimited	214	7	1,338,927	734,658	604,268	21,073	625,342	1,360,000	0.26
1-Dec-10	4,890,532	Unlimited	202	4	680,500	667,867	12,633	3,500	16,133	684,000	0.14
1-Dec-11	5,150,838	Unlimited	169	5	998,986	992,538	6,448	11,014	17,462	1,010,000	0.20
1-Dec-12	4,827,828	Unlimited	143	4	1,642,415	1,185,983	456,432	27,585	484,017	1,670,000	0.35
1-Dec-13	4,827,828	Unlimited	158	5	991,842	668,948	322,894	49,158	372,052	1,041,000	0.22
1-Dec-14	4,684,830	Unlimited	158	5	529,096	485,490	43,606	22,904	66,510	552,000	0.12
1-Dec-15	4,970,309	Unlimited	176	3	737,666	697,546	40,119	21,334	61,454	759,000	0.15
1-Dec-16	5,291,126	Unlimited	167	11	731,596	514,347	217,248	28,404	245,653	760,000	0.14
1-Dec-17	5,390,504	Unlimited	180	9	551,748	394,841	156,907	67,252	224,159	619,000	0.11
1-Dec-18	5,802,830	Unlimited	159	18	2,059,011	735,175	1,323,836	65,989	1,389,825	2,125,000	0.37
1-Dec-19	5,241,633	Unlimited	223	32	1,691,765	327,858	1,363,907	84,235	1,448,142	1,776,000	0.34
1-Dec-20	5,918,294	Unlimited	171	28	1,445,174	550,297	894,877	127,826	1,022,703	1,573,000	0.27
1-Dec-21	6,312,408	Unlimited	174	38	2,872,414	693,732	2,178,682	377,586	2,556,268	3,250,000	0.51
1-Dec-22	5,897,102	Unlimited	135	61	2,078,944	100,385	1,978,559	621,056	2,599,615	2,700,000	0.46
<b>Total</b>	<b>110,955,076</b>		<b>13,340</b>	<b>251</b>	<b>39,438,107</b>	<b>29,310,130</b>	<b>10,127,978</b>	<b>1,570,386</b>	<b>11,698,364</b>	<b>41,008,493</b>	<b>0.24</b>

**Full Policy Period Projections**

1-Dec-23	7,188,384	Unlimited								2,588,000	0.36
1-Dec-24	7,422,296	Unlimited								2,746,000	0.37



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Medical)**

**Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/23  
Summary of Various Reserving Methods  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Chain Ladder			Bornhuetter-Ferguson		Generalized Cape Cod		Freq/Sev	Selected Ultimate
	Incurred	Paid	Outstanding	Incurred	Paid	Incurred	Paid		
Prior	\$ 13,864,496	\$ 13,571,331	\$ 13,946,785	N/A	N/A	N/A	N/A	\$ 13,864,496	\$ 13,864,000
1-Dec-01	\$ 621,795	\$ 627,371	\$ 620,425	\$ 621,942	\$ 628,048	\$ 622,195	\$ 629,035	\$ 621,795	\$ 625,000
1-Dec-02	\$ 919,497	\$ 909,771	\$ 922,876	\$ 918,877	\$ 907,508	\$ 919,342	\$ 908,916	\$ 919,497	\$ 919,000
1-Dec-03	\$ 1,330,713	\$ 1,234,632	\$ 1,374,463	\$ 1,328,386	\$ 1,228,543	\$ 1,329,101	\$ 1,230,286	\$ 1,330,713	\$ 1,329,000
1-Dec-04	\$ 1,268,041	\$ 1,279,744	\$ 1,261,451	\$ 1,265,683	\$ 1,273,092	\$ 1,266,451	\$ 1,274,629	\$ 1,268,041	\$ 1,261,451
1-Dec-05	\$ 768,332	\$ 775,424	\$ 763,576	\$ 768,880	\$ 776,667	\$ 769,460	\$ 777,379	\$ 768,332	\$ 763,576
1-Dec-06	\$ 932,014	\$ 940,616	\$ 925,319	\$ 931,485	\$ 939,278	\$ 931,869	\$ 939,219	\$ 932,014	\$ 925,319
1-Dec-07	\$ 753,307	\$ 761,019	\$ 747,148	\$ 754,418	\$ 763,354	\$ 754,525	\$ 762,219	\$ 753,307	\$ 747,148
1-Dec-08	\$ 700,907	\$ 704,006	\$ 698,381	\$ 703,989	\$ 710,729	\$ 703,825	\$ 708,047	\$ 700,907	\$ 695,000
1-Dec-09	\$ 1,352,665	\$ 752,043	\$ 1,812,464	\$ 1,350,208	\$ 760,336	\$ 1,349,981	\$ 756,032	\$ 1,352,665	\$ 1,360,000
1-Dec-10	\$ 688,170	\$ 686,406	\$ 689,375	\$ 691,756	\$ 695,146	\$ 691,237	\$ 689,888	\$ 688,170	\$ 684,000
1-Dec-11	\$ 1,011,256	\$ 1,025,190	\$ 1,002,954	\$ 1,012,461	\$ 1,027,911	\$ 1,011,805	\$ 1,020,576	\$ 1,011,256	\$ 1,010,000
1-Dec-12	\$ 1,665,913	\$ 1,232,349	\$ 1,916,151	\$ 1,657,722	\$ 1,226,814	\$ 1,656,994	\$ 1,217,215	\$ 1,665,913	\$ 1,670,000
1-Dec-13	\$ 1,008,044	\$ 699,271	\$ 1,182,009	\$ 1,010,095	\$ 718,195	\$ 1,008,324	\$ 703,552	\$ 1,008,044	\$ 1,041,000
1-Dec-14	\$ 538,815	\$ 511,049	\$ 553,692	\$ 549,835	\$ 542,995	\$ 546,765	\$ 522,497	\$ 538,815	\$ 552,000
1-Dec-15	\$ 753,469	\$ 740,144	\$ 760,669	\$ 764,432	\$ 770,994	\$ 759,885	\$ 741,391	\$ 753,469	\$ 759,000
1-Dec-16	\$ 751,005	\$ 552,852	\$ 859,776	\$ 768,207	\$ 613,011	\$ 761,920	\$ 568,414	\$ 751,005	\$ 760,000
1-Dec-17	\$ 569,218	\$ 431,725	\$ 639,716	\$ 598,089	\$ 523,841	\$ 591,355	\$ 460,565	\$ 568,649	\$ 619,000
1-Dec-18	\$ 2,145,447	\$ 836,006	\$ 2,723,026	\$ 2,127,385	\$ 939,867	\$ 2,122,660	\$ 835,224	\$ 2,141,163	\$ 2,125,000
1-Dec-19	\$ 1,785,701	\$ 390,442	\$ 2,358,043	\$ 1,776,089	\$ 584,798	\$ 1,774,483	\$ 446,998	\$ 1,789,615	\$ 1,776,000
1-Dec-20	\$ 1,548,299	\$ 707,554	\$ 1,828,108	\$ 1,571,627	\$ 972,256	\$ 1,574,976	\$ 742,825	\$ 1,549,709	\$ 1,573,000
1-Dec-21	\$ 3,462,057	\$ 1,115,012	\$ 4,660,593	\$ 3,231,082	\$ 1,489,392	\$ 3,271,259	\$ 1,057,581	\$ 3,452,728	\$ 3,250,000
1-Dec-22	\$ 3,448,412	\$ 437,246	\$ 4,183,890	\$ 2,890,577	\$ 1,674,918	\$ 3,015,924	\$ 806,806	\$ 3,383,912	\$ 2,700,000
Total	\$ 41,887,572	\$ 30,921,203	\$ 46,430,889	\$ 27,293,227	\$ 19,767,695	\$ 27,434,337	\$ 17,799,295	\$ 41,814,214	\$ 41,008,493

Column (2) : from Exhibit 3, Column (5)  
 Column (3) : from Exhibit 3, Column (8)  
 Column (4) : from Exhibit 3, Column (11)

Column (5) : from Exhibit 7, Column (11)  
 Column (6) : from Exhibit 8, Column (11)  
 Column (7) : from Exhibit 4, Column (11)  
 Column (8) : from Exhibit 5, Column (11)

Column (9) : from Exhibit 6, Column (11)  
 Column (10) : Ultimate





**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Medical)**

**Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/23  
Unpaid Liabilities at Various Discount Rates  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.48%
Prior	276	Various	\$ 13,864,000	\$ 13,833,947	\$ 13,435,956	\$ 397,991	\$ 30,053	\$ 428,044	\$ 370,887
1-Dec-01	264	\$ 9,500,000	\$ 625,000	\$ 620,425	\$ 620,425	\$ -	\$ 4,575	\$ 4,575	\$ 3,862
1-Dec-02	252	\$ 9,500,000	\$ 919,000	\$ 916,557	\$ 898,593	\$ 17,963	\$ 2,443	\$ 20,407	\$ 16,830
1-Dec-03	240	Various	\$ 1,329,000	\$ 1,325,120	\$ 1,218,201	\$ 106,920	\$ 3,880	\$ 110,799	\$ 89,015
1-Dec-04	228	Unlimited	\$ 1,261,451	\$ 1,261,451	\$ 1,261,451	\$ -	\$ -	\$ -	\$ -
1-Dec-05	216	Unlimited	\$ 763,576	\$ 763,576	\$ 763,576	\$ -	\$ -	\$ -	\$ -
1-Dec-06	204	Unlimited	\$ 925,319	\$ 925,319	\$ 925,319	\$ -	\$ -	\$ -	\$ -
1-Dec-07	192	Unlimited	\$ 747,148	\$ 747,148	\$ 747,148	\$ -	\$ -	\$ -	\$ -
1-Dec-08	180	Unlimited	\$ 695,000	\$ 694,482	\$ 689,795	\$ 4,687	\$ 518	\$ 5,205	\$ 3,837
1-Dec-09	168	Unlimited	\$ 1,360,000	\$ 1,338,927	\$ 734,658	\$ 604,268	\$ 21,073	\$ 625,342	\$ 462,827
1-Dec-10	156	Unlimited	\$ 684,000	\$ 680,500	\$ 667,867	\$ 12,633	\$ 3,500	\$ 16,133	\$ 12,056
1-Dec-11	144	Unlimited	\$ 1,010,000	\$ 998,986	\$ 992,538	\$ 6,448	\$ 11,014	\$ 17,462	\$ 13,188
1-Dec-12	132	Unlimited	\$ 1,670,000	\$ 1,642,415	\$ 1,185,983	\$ 456,432	\$ 27,585	\$ 484,017	\$ 368,852
1-Dec-13	120	Unlimited	\$ 1,041,000	\$ 991,842	\$ 668,948	\$ 322,894	\$ 49,158	\$ 372,052	\$ 283,631
1-Dec-14	108	Unlimited	\$ 552,000	\$ 529,096	\$ 485,490	\$ 43,606	\$ 22,904	\$ 66,510	\$ 50,729
1-Dec-15	96	Unlimited	\$ 759,000	\$ 737,666	\$ 697,546	\$ 40,119	\$ 21,334	\$ 61,454	\$ 46,861
1-Dec-16	84	Unlimited	\$ 760,000	\$ 731,596	\$ 514,347	\$ 217,248	\$ 28,404	\$ 245,653	\$ 189,890
1-Dec-17	72	Unlimited	\$ 619,000	\$ 551,748	\$ 394,841	\$ 156,907	\$ 67,252	\$ 224,159	\$ 175,724
1-Dec-18	60	Unlimited	\$ 2,125,000	\$ 2,059,011	\$ 735,175	\$ 1,323,836	\$ 65,989	\$ 1,389,825	\$ 1,135,226
1-Dec-19	48	Unlimited	\$ 1,776,000	\$ 1,691,765	\$ 327,858	\$ 1,363,907	\$ 84,235	\$ 1,448,142	\$ 1,202,596
1-Dec-20	36	Unlimited	\$ 1,573,000	\$ 1,445,174	\$ 550,297	\$ 894,877	\$ 127,826	\$ 1,022,703	\$ 865,199
1-Dec-21	24	Unlimited	\$ 3,250,000	\$ 2,872,414	\$ 693,732	\$ 2,178,682	\$ 377,586	\$ 2,556,268	\$ 2,247,325
1-Dec-22	12	Unlimited	\$ 2,700,000	\$ 2,078,944	\$ 100,385	\$ 1,978,559	\$ 621,056	\$ 2,599,615	\$ 2,368,763
<b>Total</b>			\$ 41,008,493	\$ 39,438,107	\$ 29,310,130	\$ 10,127,978	\$ 1,570,386	\$ 11,698,364	\$ 9,907,296

Column (4) : from Exhibit 1, Column (10)  
Columns (5), (6), (7) : Exhibit 10

Column (8) : Column (4) - Column (5)  
Column (9) : Column (4) - Column (6)  
Column (9) : Column (10) discounted



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Medical)**

**Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/23  
Incurred, Paid, & Outstanding "Chain Ladder" Methods  
Losses Limited to Retentions**

(1)	(2)	(3)			(4)			(5)			(6)			(7)			(8)			(9)			(10)			(11)		
Policy Period Inception	Evaluation in Months	Incurred Chain-Ladder			Paid Chain-Ladder			Outstanding Chain-Ladder			Case Reserves	Outstanding LDF	Ultimate Loss	Paid Loss	Paid LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss			
		Incurred Loss	Incurred LDF	Ultimate Loss	Paid Loss	Paid LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss																		
Prior	276	\$ 13,833,947	1.002	\$ 13,864,496	\$ 13,435,956	1.010	\$ 13,571,331	\$ 397,991	1.284	\$ 13,946,785																		
1-Dec-01	264	\$ 620,425	1.002	\$ 621,795	\$ 620,425	1.011	\$ 627,371	\$ -	1.248	\$ 620,425																		
1-Dec-02	252	\$ 916,557	1.003	\$ 919,497	\$ 898,593	1.012	\$ 909,771	\$ 17,963	1.352	\$ 922,876																		
1-Dec-03	240	\$ 1,325,120	1.004	\$ 1,330,713	\$ 1,218,201	1.013	\$ 1,234,632	\$ 106,920	1.461	\$ 1,374,463																		
1-Dec-04	228	\$ 1,261,451	1.005	\$ 1,268,041	\$ 1,261,451	1.015	\$ 1,279,744	\$ -	1.571	\$ 1,261,451																		
1-Dec-05	216	\$ 763,576	1.006	\$ 768,332	\$ 763,576	1.016	\$ 775,424	\$ -	1.681	\$ 763,576																		
1-Dec-06	204	\$ 925,319	1.007	\$ 932,014	\$ 925,319	1.017	\$ 940,616	\$ -	1.791	\$ 925,319																		
1-Dec-07	192	\$ 747,148	1.008	\$ 753,307	\$ 747,148	1.019	\$ 761,019	\$ -	1.813	\$ 747,148																		
1-Dec-08	180	\$ 694,482	1.009	\$ 700,907	\$ 689,795	1.021	\$ 704,006	\$ 4,687	1.832	\$ 698,381																		
1-Dec-09	168	\$ 1,338,927	1.010	\$ 1,352,665	\$ 734,658	1.024	\$ 752,043	\$ 604,268	1.784	\$ 1,812,464																		
1-Dec-10	156	\$ 680,500	1.011	\$ 688,170	\$ 667,867	1.028	\$ 686,406	\$ 12,633	1.703	\$ 689,375																		
1-Dec-11	144	\$ 998,986	1.012	\$ 1,011,256	\$ 992,538	1.033	\$ 1,025,190	\$ 6,448	1.615	\$ 1,002,954																		
1-Dec-12	132	\$ 1,642,415	1.014	\$ 1,665,913	\$ 1,185,983	1.039	\$ 1,232,349	\$ 456,432	1.600	\$ 1,916,151																		
1-Dec-13	120	\$ 991,842	1.016	\$ 1,008,044	\$ 668,948	1.045	\$ 699,271	\$ 322,894	1.589	\$ 1,182,009																		
1-Dec-14	108	\$ 529,096	1.018	\$ 538,815	\$ 485,490	1.053	\$ 511,049	\$ 43,606	1.564	\$ 553,692																		
1-Dec-15	96	\$ 737,666	1.021	\$ 753,469	\$ 697,546	1.061	\$ 740,144	\$ 40,119	1.573	\$ 760,669																		
1-Dec-16	84	\$ 731,596	1.027	\$ 751,005	\$ 514,347	1.075	\$ 552,852	\$ 217,248	1.590	\$ 859,776																		
1-Dec-17	72	\$ 551,748	1.032	\$ 569,218	\$ 394,841	1.093	\$ 431,725	\$ 156,907	1.561	\$ 639,716																		
1-Dec-18	60	\$ 2,059,011	1.042	\$ 2,145,447	\$ 735,175	1.137	\$ 836,006	\$ 1,323,836	1.502	\$ 2,723,026																		
1-Dec-19	48	\$ 1,691,765	1.056	\$ 1,785,701	\$ 327,858	1.191	\$ 390,442	\$ 1,363,907	1.489	\$ 2,358,043																		
1-Dec-20	36	\$ 1,445,174	1.071	\$ 1,548,299	\$ 550,297	1.286	\$ 707,554	\$ 894,877	1.428	\$ 1,828,108																		
1-Dec-21	24	\$ 2,872,414	1.205	\$ 3,462,057	\$ 693,732	1.607	\$ 1,115,012	\$ 2,178,682	1.821	\$ 4,660,593																		
1-Dec-22	12	\$ 2,078,944	1.659	\$ 3,448,412	\$ 100,385	4.356	\$ 437,246	\$ 1,978,559	2.064	\$ 4,183,890																		
Total		\$ 39,438,107		\$ 41,887,572	\$ 29,310,130		\$ 30,921,203	\$ 10,127,978		\$ 46,430,889																		

Columns (3), (6), (9) : Exhibit 10  
 Column (4) & (7) : from Exhibit 9  
 Column (5) : Column (3) X Column (4)

Column (8) : Column (6) X Column (7)  
 Column (10) : Outstanding LDF = (Incurred LDF - 1) X Paid LDF / (Paid LDF - Incurred LDF) + 1  
 Column (11) : Column (9) X Column (10) + Column (6)



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Medical)**

**Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/23  
Generalized Cape Cod Incurred Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Incurred Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Incurred Loss	Trended Payroll (in 00s)	Incurred LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 620,425	4.072	1.000	\$ 2,526,271	8,089,415	1.002	0.40	\$ 803,125	\$ 622,195
1-Dec-02	252	\$ 916,557	3.805	1.000	\$ 3,487,918	7,967,507	1.003	0.42	\$ 871,161	\$ 919,342
1-Dec-03	240	\$ 1,325,120	3.556	1.000	\$ 4,712,475	7,974,299	1.004	0.42	\$ 947,317	\$ 1,329,101
1-Dec-04	228	\$ 1,261,451	3.324	1.000	\$ 4,192,569	7,810,350	1.005	0.41	\$ 962,141	\$ 1,266,451
1-Dec-05	216	\$ 763,576	3.106	1.000	\$ 2,371,801	7,679,441	1.006	0.38	\$ 950,498	\$ 769,460
1-Dec-06	204	\$ 925,319	2.903	1.000	\$ 2,686,172	7,189,908	1.007	0.37	\$ 911,813	\$ 931,869
1-Dec-07	192	\$ 747,148	2.713	1.000	\$ 2,027,055	6,960,424	1.008	0.35	\$ 902,237	\$ 754,525
1-Dec-08	180	\$ 694,482	2.536	1.000	\$ 1,760,905	7,587,520	1.009	0.34	\$ 1,019,184	\$ 703,825
1-Dec-09	168	\$ 1,338,927	2.413	1.000	\$ 3,230,162	7,732,346	1.010	0.34	\$ 1,088,415	\$ 1,349,981
1-Dec-10	156	\$ 680,500	2.393	1.000	\$ 1,628,209	6,972,729	1.011	0.33	\$ 963,390	\$ 691,237
1-Dec-11	144	\$ 998,986	2.230	1.000	\$ 2,228,089	7,147,549	1.012	0.33	\$ 1,056,549	\$ 1,011,805
1-Dec-12	132	\$ 1,642,415	2.072	1.000	\$ 3,403,076	6,488,197	1.014	0.33	\$ 1,033,591	\$ 1,656,994
1-Dec-13	120	\$ 991,842	1.922	1.000	\$ 1,906,626	6,299,220	1.016	0.31	\$ 1,025,474	\$ 1,008,324
1-Dec-14	108	\$ 529,096	1.789	1.000	\$ 946,440	5,934,603	1.018	0.30	\$ 979,611	\$ 546,765
1-Dec-15	96	\$ 737,666	1.664	1.000	\$ 1,227,578	6,127,929	1.021	0.29	\$ 1,059,405	\$ 759,885
1-Dec-16	84	\$ 731,596	1.546	1.000	\$ 1,130,792	6,317,882	1.027	0.29	\$ 1,173,352	\$ 761,920
1-Dec-17	72	\$ 551,748	1.434	1.000	\$ 791,386	6,249,072	1.032	0.30	\$ 1,290,492	\$ 591,355
1-Dec-18	60	\$ 2,059,011	1.334	1.000	\$ 2,746,119	6,531,137	1.042	0.32	\$ 1,579,856	\$ 2,122,660
1-Dec-19	48	\$ 1,691,765	1.241	1.000	\$ 2,100,136	5,741,800	1.056	0.34	\$ 1,572,455	\$ 1,774,483
1-Dec-20	36	\$ 1,445,174	1.146	1.000	\$ 1,656,380	6,278,718	1.071	0.36	\$ 1,948,823	\$ 1,574,976
1-Dec-21	24	\$ 2,872,414	1.070	1.000	\$ 3,073,483	6,501,781	1.205	0.39	\$ 2,341,794	\$ 3,271,259
1-Dec-22	12	\$ 2,078,944	1.000	1.000	\$ 2,078,944	5,897,102	1.659	0.40	\$ 2,359,378	\$ 3,015,924
Total		\$ 25,604,161			\$ 51,912,586	151,478,928			\$ 26,840,062	\$ 27,434,337

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (Workers Compensation - Health Care Facilities (Medical))

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Medical)**

**Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/23  
Generalized Cape Cod Paid Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Paid Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Paid Loss	Trended Payroll (in 00s)	Paid LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 620,425	4.072	1.000	\$ 2,526,271	8,089,415	1.011	0.39	\$ 777,688	\$ 629,035
1-Dec-02	252	\$ 898,593	3.805	1.000	\$ 3,419,559	7,967,507	1.012	0.40	\$ 840,163	\$ 908,916
1-Dec-03	240	\$ 1,218,201	3.556	1.000	\$ 4,332,241	7,974,299	1.013	0.40	\$ 908,058	\$ 1,230,286
1-Dec-04	228	\$ 1,261,451	3.324	1.000	\$ 4,192,569	7,810,350	1.015	0.39	\$ 921,947	\$ 1,274,629
1-Dec-05	216	\$ 763,576	3.106	1.000	\$ 2,371,801	7,679,441	1.016	0.37	\$ 903,382	\$ 777,379
1-Dec-06	204	\$ 925,319	2.903	1.000	\$ 2,686,172	7,189,908	1.017	0.35	\$ 854,699	\$ 939,219
1-Dec-07	192	\$ 747,148	2.713	1.000	\$ 2,027,055	6,960,424	1.019	0.32	\$ 826,847	\$ 762,219
1-Dec-08	180	\$ 689,795	2.536	1.000	\$ 1,749,020	7,587,520	1.021	0.30	\$ 904,213	\$ 708,047
1-Dec-09	168	\$ 734,658	2.413	1.000	\$ 1,772,364	7,732,346	1.024	0.29	\$ 924,581	\$ 756,032
1-Dec-10	156	\$ 667,867	2.393	1.000	\$ 1,597,984	6,972,729	1.028	0.28	\$ 815,307	\$ 689,888
1-Dec-11	144	\$ 992,538	2.230	1.000	\$ 2,213,707	7,147,549	1.033	0.27	\$ 880,343	\$ 1,020,576
1-Dec-12	132	\$ 1,185,983	2.072	1.000	\$ 2,457,351	6,488,197	1.039	0.27	\$ 830,121	\$ 1,217,215
1-Dec-13	120	\$ 668,948	1.922	1.000	\$ 1,285,924	6,299,220	1.045	0.24	\$ 797,991	\$ 703,552
1-Dec-14	108	\$ 485,490	1.789	1.000	\$ 868,438	5,934,603	1.053	0.22	\$ 739,940	\$ 522,497
1-Dec-15	96	\$ 697,546	1.664	1.000	\$ 1,160,813	6,127,929	1.061	0.21	\$ 761,816	\$ 741,391
1-Dec-16	84	\$ 514,347	1.546	1.000	\$ 795,002	6,317,882	1.075	0.19	\$ 776,288	\$ 568,414
1-Dec-17	72	\$ 394,841	1.434	1.000	\$ 566,330	6,249,072	1.093	0.18	\$ 769,291	\$ 460,565
1-Dec-18	60	\$ 735,175	1.334	1.000	\$ 980,509	6,531,137	1.137	0.17	\$ 829,526	\$ 835,224
1-Dec-19	48	\$ 327,858	1.241	1.000	\$ 406,999	5,741,800	1.191	0.16	\$ 743,286	\$ 446,998
1-Dec-20	36	\$ 550,297	1.146	1.000	\$ 630,721	6,278,718	1.286	0.16	\$ 866,250	\$ 742,825
1-Dec-21	24	\$ 693,732	1.070	1.000	\$ 742,293	6,501,781	1.607	0.16	\$ 963,010	\$ 1,057,581
1-Dec-22	12	\$ 100,385	1.000	1.000	\$ 100,385	5,897,102	4.356	0.16	\$ 916,935	\$ 806,806
<b>Total</b>		<b>\$ 15,874,174</b>			<b>\$ 38,883,508</b>	<b>151,478,928</b>			<b>\$ 18,551,684</b>	<b>\$ 17,799,295</b>

Column (3) : supplied by Cook County, Illinois  
 Column (4) : Aon Indices appropriate for coverage (Workers Compensation - Health Care Facilities (Medical))  
 Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period  
 Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.  
 Column (8) : from Exhibit 9  
 Columns (9) and (10) : Quantities used in Cape Cod  
 Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Medical)**

**Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/23  
Frequency & Severity Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Reported Claims	Claim CDF	Ultimate Claims	Severity LDF	Reported Severity	Ultimate Reported Severity	Unreported Claims	Ultimate Unreported Severity	Ultimate Loss
Prior	276	7,414	1.000	7,414	1.002	\$ 1,866	\$ 1,870	0	\$ 1,824	\$ 13,864,496
1-Dec-01	264	490	1.000	490	1.002	\$ 1,266	\$ 1,269	0	\$ 1,923	\$ 621,795
1-Dec-02	252	514	1.000	514	1.003	\$ 1,783	\$ 1,789	0	\$ 2,046	\$ 919,497
1-Dec-03	240	593	1.000	593	1.004	\$ 2,235	\$ 2,244	0	\$ 2,189	\$ 1,330,713
1-Dec-04	228	518	1.000	518	1.005	\$ 2,435	\$ 2,448	0	\$ 2,336	\$ 1,268,041
1-Dec-05	216	510	1.000	510	1.006	\$ 1,497	\$ 1,507	0	\$ 2,482	\$ 768,332
1-Dec-06	204	318	1.000	318	1.007	\$ 2,910	\$ 2,931	0	\$ 2,719	\$ 932,014
1-Dec-07	192	274	1.000	274	1.008	\$ 2,727	\$ 2,749	0	\$ 2,988	\$ 753,307
1-Dec-08	180	280	1.000	280	1.009	\$ 2,480	\$ 2,503	0	\$ 3,325	\$ 700,907
1-Dec-09	168	214	1.000	214	1.010	\$ 6,257	\$ 6,321	0	\$ 3,734	\$ 1,352,665
1-Dec-10	156	202	1.000	202	1.011	\$ 3,369	\$ 3,407	0	\$ 3,920	\$ 688,170
1-Dec-11	144	169	1.000	169	1.012	\$ 5,911	\$ 5,984	0	\$ 4,455	\$ 1,011,256
1-Dec-12	132	143	1.000	143	1.014	\$ 11,485	\$ 11,650	0	\$ 5,032	\$ 1,665,913
1-Dec-13	120	158	1.000	158	1.016	\$ 6,277	\$ 6,380	0	\$ 5,329	\$ 1,008,044
1-Dec-14	108	158	1.000	158	1.018	\$ 3,349	\$ 3,410	0	\$ 5,532	\$ 538,815
1-Dec-15	96	176	1.000	176	1.021	\$ 4,191	\$ 4,281	0	\$ 5,870	\$ 753,469
1-Dec-16	84	167	1.000	167	1.027	\$ 4,381	\$ 4,497	0	\$ 6,370	\$ 751,005
1-Dec-17	72	180	1.001	180	1.031	\$ 3,065	\$ 3,159	0	\$ 7,092	\$ 568,649
1-Dec-18	60	159	1.002	159	1.040	\$ 12,950	\$ 13,466	0	\$ 8,305	\$ 2,141,163
1-Dec-19	48	223	1.003	224	1.052	\$ 7,586	\$ 7,984	1	\$ 9,261	\$ 1,789,615
1-Dec-20	36	171	1.006	172	1.065	\$ 8,451	\$ 9,000	1	\$ 10,663	\$ 1,549,709
1-Dec-21	24	174	1.010	176	1.193	\$ 16,508	\$ 19,699	2	\$ 12,536	\$ 3,452,728
1-Dec-22	12	135	1.050	142	1.580	\$ 15,400	\$ 24,336	7	\$ 14,086	\$ 3,383,912
Total		13,340		13,351				11		\$ 41,814,214

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (6) : from {Exhibit 3, Column (4)} / Column (4)

Column (7) : from {Exhibit 3, Column (3)} / Column (3)

Column (8) : Column (6) X Column (7)

Column (9) : Column (5) - Column (3)

Column (10) : Weighted Average of Column (8) adjusted for Trend and Retention

Column (11) : Column (3) X Column (8) + Column (9) X Column (10)



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Medical)**

**Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/23  
Incurred Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Incurred Losses	Incurred LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	IBNR Factor	IBNR	Expected Ultimate Loss
1-Dec-01	\$ 9,500,000	\$ 620,425	1.002	0.16	1.000	0.16	\$ 688,517	0.002	\$ 1,517	\$ 621,942
1-Dec-02	\$ 9,500,000	\$ 916,557	1.003	0.16	1.000	0.16	\$ 725,611	0.003	\$ 2,320	\$ 918,877
1-Dec-03	Various	\$ 1,325,120	1.004	0.17	1.000	0.17	\$ 777,118	0.004	\$ 3,266	\$ 1,328,386
1-Dec-04	Unlimited	\$ 1,261,451	1.005	0.18	1.000	0.18	\$ 814,421	0.005	\$ 4,233	\$ 1,265,683
1-Dec-05	Unlimited	\$ 763,576	1.006	0.18	1.000	0.18	\$ 856,824	0.006	\$ 5,305	\$ 768,880
1-Dec-06	Unlimited	\$ 925,319	1.007	0.19	1.000	0.19	\$ 858,359	0.007	\$ 6,166	\$ 931,485
1-Dec-07	Unlimited	\$ 747,148	1.008	0.20	1.000	0.20	\$ 889,130	0.008	\$ 7,269	\$ 754,418
1-Dec-08	Unlimited	\$ 694,482	1.009	0.21	1.000	0.21	\$ 1,037,082	0.009	\$ 9,507	\$ 703,989
1-Dec-09	Unlimited	\$ 1,338,927	1.010	0.21	1.000	0.21	\$ 1,110,790	0.010	\$ 11,282	\$ 1,350,208
1-Dec-10	Unlimited	\$ 680,500	1.011	0.21	1.000	0.21	\$ 1,009,971	0.011	\$ 11,256	\$ 691,756
1-Dec-11	Unlimited	\$ 998,986	1.012	0.22	1.000	0.22	\$ 1,110,637	0.012	\$ 13,476	\$ 1,012,461
1-Dec-12	Unlimited	\$ 1,642,415	1.014	0.22	1.000	0.22	\$ 1,085,234	0.014	\$ 15,307	\$ 1,657,722
1-Dec-13	Unlimited	\$ 991,842	1.016	0.24	1.000	0.24	\$ 1,135,670	0.016	\$ 18,253	\$ 1,010,095
1-Dec-14	Unlimited	\$ 529,096	1.018	0.25	1.000	0.25	\$ 1,149,797	0.018	\$ 20,739	\$ 549,835
1-Dec-15	Unlimited	\$ 737,666	1.021	0.26	1.000	0.26	\$ 1,276,182	0.021	\$ 26,766	\$ 764,432
1-Dec-16	Unlimited	\$ 731,596	1.027	0.27	1.000	0.27	\$ 1,416,602	0.026	\$ 36,612	\$ 768,207
1-Dec-17	Unlimited	\$ 551,748	1.032	0.28	1.000	0.28	\$ 1,509,928	0.031	\$ 46,341	\$ 598,089
1-Dec-18	Unlimited	\$ 2,059,011	1.042	0.29	1.000	0.29	\$ 1,697,134	0.040	\$ 68,375	\$ 2,127,385
1-Dec-19	Unlimited	\$ 1,691,765	1.056	0.31	1.000	0.31	\$ 1,602,983	0.053	\$ 84,324	\$ 1,776,089
1-Dec-20	Unlimited	\$ 1,445,174	1.071	0.32	1.000	0.32	\$ 1,898,538	0.067	\$ 126,453	\$ 1,571,627
1-Dec-21	Unlimited	\$ 2,872,414	1.205	0.33	1.000	0.33	\$ 2,105,895	0.170	\$ 358,667	\$ 3,231,082
1-Dec-22	Unlimited	\$ 2,078,944	1.659	0.35	1.000	0.35	\$ 2,043,746	0.397	\$ 811,633	\$ 2,890,577
Total		\$ 25,604,161					\$ 26,800,171		\$ 1,689,066	\$ 27,293,227

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Payroll) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Medical)**

**Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/23  
Paid Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Paid Losses	Paid LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	Unpaid Factor	Unpaid	Expected Ultimate Loss
1-Dec-01	\$ 9,500,000	\$ 620,425	1.011	0.16	1.000	0.16	\$ 688,517	0.011	\$ 7,623	\$ 628,048
1-Dec-02	\$ 9,500,000	\$ 898,593	1.012	0.16	1.000	0.16	\$ 725,611	0.012	\$ 8,915	\$ 907,508
1-Dec-03	Various	\$ 1,218,201	1.013	0.17	1.000	0.17	\$ 777,118	0.013	\$ 10,343	\$ 1,228,543
1-Dec-04	Unlimited	\$ 1,261,451	1.015	0.18	1.000	0.18	\$ 814,421	0.014	\$ 11,642	\$ 1,273,092
1-Dec-05	Unlimited	\$ 763,576	1.016	0.18	1.000	0.18	\$ 856,824	0.015	\$ 13,092	\$ 776,667
1-Dec-06	Unlimited	\$ 925,319	1.017	0.19	1.000	0.19	\$ 858,359	0.016	\$ 13,960	\$ 939,278
1-Dec-07	Unlimited	\$ 747,148	1.019	0.20	1.000	0.20	\$ 889,130	0.018	\$ 16,206	\$ 763,354
1-Dec-08	Unlimited	\$ 689,795	1.021	0.21	1.000	0.21	\$ 1,037,082	0.020	\$ 20,935	\$ 710,729
1-Dec-09	Unlimited	\$ 734,658	1.024	0.21	1.000	0.21	\$ 1,110,790	0.023	\$ 25,678	\$ 760,336
1-Dec-10	Unlimited	\$ 667,867	1.028	0.21	1.000	0.21	\$ 1,009,971	0.027	\$ 27,278	\$ 695,146
1-Dec-11	Unlimited	\$ 992,538	1.033	0.22	1.000	0.22	\$ 1,110,637	0.032	\$ 35,373	\$ 1,027,911
1-Dec-12	Unlimited	\$ 1,185,983	1.039	0.22	1.000	0.22	\$ 1,085,234	0.038	\$ 40,831	\$ 1,226,814
1-Dec-13	Unlimited	\$ 668,948	1.045	0.24	1.000	0.24	\$ 1,135,670	0.043	\$ 49,247	\$ 718,195
1-Dec-14	Unlimited	\$ 485,490	1.053	0.25	1.000	0.25	\$ 1,149,797	0.050	\$ 57,505	\$ 542,995
1-Dec-15	Unlimited	\$ 697,546	1.061	0.26	1.000	0.26	\$ 1,276,182	0.058	\$ 73,448	\$ 770,994
1-Dec-16	Unlimited	\$ 514,347	1.075	0.27	1.000	0.27	\$ 1,416,602	0.070	\$ 98,663	\$ 613,011
1-Dec-17	Unlimited	\$ 394,841	1.093	0.28	1.000	0.28	\$ 1,509,928	0.085	\$ 129,000	\$ 523,841
1-Dec-18	Unlimited	\$ 735,175	1.137	0.29	1.000	0.29	\$ 1,697,134	0.121	\$ 204,692	\$ 939,867
1-Dec-19	Unlimited	\$ 327,858	1.191	0.31	1.000	0.31	\$ 1,602,983	0.160	\$ 256,940	\$ 584,798
1-Dec-20	Unlimited	\$ 550,297	1.286	0.32	1.000	0.32	\$ 1,898,538	0.222	\$ 421,959	\$ 972,256
1-Dec-21	Unlimited	\$ 693,732	1.607	0.33	1.000	0.33	\$ 2,105,895	0.378	\$ 795,660	\$ 1,489,392
1-Dec-22	Unlimited	\$ 100,385	4.356	0.35	1.000	0.35	\$ 2,043,746	0.770	\$ 1,574,533	\$ 1,674,918
Total		\$ 15,874,174					\$ 26,800,171		\$ 3,893,521	\$ 19,767,695

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Payroll) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Medical)**

**Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/23  
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred LDF's		(4) Paid LDF's		(6) Claim CDF	(8) Trend Factors		(9) Payroll (in 00s)
	Unlimited	Limited	Unlimited	Limited		Loss	Exposure	
Prior	1.002	1.002	1.010	1.010	1.000	4.357	1.893	-
1-Dec-01	1.002	1.002	1.011	1.011	1.000	4.072	1.860	4,348,459
1-Dec-02	1.003	1.003	1.012	1.012	1.000	3.805	1.806	4,411,415
1-Dec-03	1.004	1.004	1.013	1.013	1.000	3.556	1.758	4,536,443
1-Dec-04	1.005	1.005	1.015	1.015	1.000	3.324	1.702	4,587,757
1-Dec-05	1.006	1.006	1.016	1.016	1.000	3.106	1.653	4,646,188
1-Dec-06	1.007	1.007	1.017	1.017	1.000	2.903	1.605	4,480,513
1-Dec-07	1.008	1.008	1.019	1.019	1.000	2.713	1.562	4,456,640
1-Dec-08	1.009	1.009	1.021	1.021	1.000	2.536	1.513	5,016,244
1-Dec-09	1.010	1.010	1.024	1.024	1.000	2.413	1.469	5,265,352
1-Dec-10	1.011	1.011	1.028	1.028	1.000	2.393	1.426	4,890,532
1-Dec-11	1.012	1.012	1.033	1.033	1.000	2.230	1.388	5,150,838
1-Dec-12	1.014	1.014	1.039	1.039	1.000	2.072	1.344	4,827,828
1-Dec-13	1.016	1.016	1.045	1.045	1.000	1.922	1.305	4,827,828
1-Dec-14	1.018	1.018	1.053	1.053	1.000	1.789	1.267	4,684,830
1-Dec-15	1.021	1.021	1.061	1.061	1.000	1.664	1.233	4,970,309
1-Dec-16	1.027	1.027	1.075	1.075	1.000	1.546	1.194	5,291,126
1-Dec-17	1.032	1.032	1.093	1.093	1.001	1.434	1.159	5,390,504
1-Dec-18	1.042	1.042	1.137	1.137	1.002	1.334	1.126	5,802,830
1-Dec-19	1.056	1.056	1.191	1.191	1.003	1.241	1.095	5,241,633
1-Dec-20	1.071	1.071	1.286	1.286	1.006	1.146	1.061	5,918,294
1-Dec-21	1.205	1.205	1.607	1.607	1.010	1.070	1.030	6,312,408
1-Dec-22	1.659	1.659	4.356	4.356	1.050	1.000	1.000	5,897,102

Methods Included in Analysis :  
Source Used for LDFs :

**Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity  
Company Exclusively**

LDF Annual Decay Rate (Incurred/Paid/Clm Count): **0.75**  
ELR for B/F Method : **0.36**  
Generalized Cape Cod Decay Factor: **0.75**  
Loss Limitation :  
Discount Rates : **4.48%**  
States Selected for WC : **IL**

**Exhibit 10, Column (5)**

**Column (2) : Company Exclusively**  
**Column (3) : Exhibit 13, Sheet 1, Column (15)**  
**Column (4) : Company Exclusively**

**Column (5) : Exhibit 13, Sheet 2, Column (15)**  
**Column (6) : Company Exclusively**  
**Column (7) : Aon Compilation of Estimated Trends, California Indices, Benefit Level Adjustment Factors**  
**Column (8) : Flat 3.00%**  
**Column (9) : supplied by Cook County, Illinois**





**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Medical)**

**Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/23  
Limited Loss Calculations**

(1) Policy Period Inception	(2)			(3)	(4)	(5)	(6)			(7)	(8)	(9)	(10)			(11)	(12)
	Unlimited			Case O/S	Retention	No.	Claims valued over the Retention			Incurred	No.	Paid	Limited			Paid	Case O/S
Incurred	Paid		Incurred					Paid	Incurred				Paid	Incurred	Paid		
Prior	\$ 13,833,947	\$ 13,435,956	\$	397,991	Various	-	\$	-	-	\$	-	\$	13,833,947	\$	13,435,956	\$	397,991
1-Dec-01	\$ 620,425	\$ 620,425	\$	-	\$ 9,500,000	-	\$	-	-	\$	-	\$	620,425	\$	620,425	\$	-
1-Dec-02	\$ 916,557	\$ 898,593	\$	17,963	\$ 9,500,000	-	\$	-	-	\$	-	\$	916,557	\$	898,593	\$	17,963
1-Dec-03	\$ 1,325,120	\$ 1,218,201	\$	106,920	Various	-	\$	-	-	\$	-	\$	1,325,120	\$	1,218,201	\$	106,920
1-Dec-04	\$ 1,261,451	\$ 1,261,451	\$	-	Unlimited	-	\$	-	-	\$	-	\$	1,261,451	\$	1,261,451	\$	-
1-Dec-05	\$ 763,576	\$ 763,576	\$	-	Unlimited	-	\$	-	-	\$	-	\$	763,576	\$	763,576	\$	-
1-Dec-06	\$ 925,319	\$ 925,319	\$	-	Unlimited	-	\$	-	-	\$	-	\$	925,319	\$	925,319	\$	-
1-Dec-07	\$ 747,148	\$ 747,148	\$	-	Unlimited	-	\$	-	-	\$	-	\$	747,148	\$	747,148	\$	-
1-Dec-08	\$ 694,482	\$ 689,795	\$	4,687	Unlimited	-	\$	-	-	\$	-	\$	694,482	\$	689,795	\$	4,687
1-Dec-09	\$ 1,338,927	\$ 734,658	\$	604,268	Unlimited	-	\$	-	-	\$	-	\$	1,338,927	\$	734,658	\$	604,268
1-Dec-10	\$ 680,500	\$ 667,867	\$	12,633	Unlimited	-	\$	-	-	\$	-	\$	680,500	\$	667,867	\$	12,633
1-Dec-11	\$ 998,986	\$ 992,538	\$	6,448	Unlimited	-	\$	-	-	\$	-	\$	998,986	\$	992,538	\$	6,448
1-Dec-12	\$ 1,642,415	\$ 1,185,983	\$	456,432	Unlimited	-	\$	-	-	\$	-	\$	1,642,415	\$	1,185,983	\$	456,432
1-Dec-13	\$ 991,842	\$ 668,948	\$	322,894	Unlimited	-	\$	-	-	\$	-	\$	991,842	\$	668,948	\$	322,894
1-Dec-14	\$ 529,096	\$ 485,490	\$	43,606	Unlimited	-	\$	-	-	\$	-	\$	529,096	\$	485,490	\$	43,606
1-Dec-15	\$ 737,666	\$ 697,546	\$	40,119	Unlimited	-	\$	-	-	\$	-	\$	737,666	\$	697,546	\$	40,119
1-Dec-16	\$ 731,596	\$ 514,347	\$	217,248	Unlimited	-	\$	-	-	\$	-	\$	731,596	\$	514,347	\$	217,248
1-Dec-17	\$ 551,748	\$ 394,841	\$	156,907	Unlimited	-	\$	-	-	\$	-	\$	551,748	\$	394,841	\$	156,907
1-Dec-18	\$ 2,059,011	\$ 735,175	\$	1,323,836	Unlimited	-	\$	-	-	\$	-	\$	2,059,011	\$	735,175	\$	1,323,836
1-Dec-19	\$ 1,691,765	\$ 327,858	\$	1,363,907	Unlimited	-	\$	-	-	\$	-	\$	1,691,765	\$	327,858	\$	1,363,907
1-Dec-20	\$ 1,445,174	\$ 550,297	\$	894,877	Unlimited	-	\$	-	-	\$	-	\$	1,445,174	\$	550,297	\$	894,877
1-Dec-21	\$ 2,872,414	\$ 693,732	\$	2,178,682	Unlimited	-	\$	-	-	\$	-	\$	2,872,414	\$	693,732	\$	2,178,682
1-Dec-22	\$ 2,078,944	\$ 100,385	\$	1,978,559	Unlimited	-	\$	-	-	\$	-	\$	2,078,944	\$	100,385	\$	1,978,559
	\$ 39,438,107	\$ 29,310,130	\$	10,127,978		-	\$	-	-	\$	-	\$	39,438,107	\$	29,310,130	\$	10,127,978

Column (2) and Column (3) : Supplied by Cook County, Illinois  
 Column (4) : Column (2) - Column (3)  
 Column (5) : Individual loss limitation

Column (6) through Column (9) : supplied by Cook County, Illinois  
 Column (10) : Column (2) - Column (7) + [Column (5) x Column (6)]  
 Column (11) : Column (3) - Column (9) + [Column (5) x Column (8)]



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Medical)**

**Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/23  
Selected Ultimate Claim Counts**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Policy Period Inception	Trended Payroll (in 00s)	Reported Claims	Claim CDF	Chain-Ladder Developed Claims	Frequency Trend	Trended Developed Claims	Trended Frequency Rate	Bornhuetter-Ferguson Developed	Selected Trended Claims	Selected Untrended Claims	Trended Frequency Rate
1-Dec-01	8,089,415	490	1.000	490	1.000	490	0.00606%		490	490	0.00606%
1-Dec-02	7,967,507	514	1.000	514	1.000	514	0.00645%		514	514	0.00645%
1-Dec-03	7,974,299	593	1.000	593	1.000	593	0.00744%		593	593	0.00744%
1-Dec-04	7,810,350	518	1.000	518	1.000	518	0.00663%		518	518	0.00663%
1-Dec-05	7,679,441	510	1.000	510	1.000	510	0.00664%		510	510	0.00664%
1-Dec-06	7,189,908	318	1.000	318	1.000	318	0.00442%		318	318	0.00442%
1-Dec-07	6,960,424	274	1.000	274	1.000	274	0.00394%		274	274	0.00394%
1-Dec-08	7,587,520	280	1.000	280	1.000	280	0.00369%		280	280	0.00369%
1-Dec-09	7,732,346	214	1.000	214	1.000	214	0.00277%		214	214	0.00277%
1-Dec-10	6,972,729	202	1.000	202	1.000	202	0.00290%		202	202	0.00290%
1-Dec-11	7,147,549	169	1.000	169	1.000	169	0.00236%		169	169	0.00236%
1-Dec-12	6,488,197	143	1.000	143	1.000	143	0.00220%		143	143	0.00220%
1-Dec-13	6,299,220	158	1.000	158	1.000	158	0.00251%		158	158	0.00251%
1-Dec-14	5,934,603	158	1.000	158	1.000	158	0.00266%		158	158	0.00266%
1-Dec-15	6,127,929	176	1.000	176	1.000	176	0.00287%		176	176	0.00287%
1-Dec-16	6,317,882	167	1.000	167	1.000	167	0.00264%		167	167	0.00264%
1-Dec-17	6,249,072	180	1.001	180	1.000	180	0.00288%		180	180	0.00288%
1-Dec-18	6,531,137	159	1.002	159	1.000	159	0.00244%		159	159	0.00244%
1-Dec-19	5,741,800	223	1.003	224	1.000	224	0.00390%		224	224	0.00390%
1-Dec-20	6,278,718	171	1.006	172	1.000	172	0.00274%		172	172	0.00274%
1-Dec-21	6,501,781	174	1.010	176	1.000	176	0.00270%		176	176	0.00270%
1-Dec-22	5,897,102	135	1.050	142	1.000	142	0.00240%		142	142	0.00240%
Total	151,478,928	5,926		5,937		5,937	0.00392%		5,937	5,937	0.00392%

Column (2) : from Exhibit 4  
 Column (3) : supplied by Cook County, Illinois  
 Column (4) : from Exhibit 9

Column (5) : Column (3) x Column (4)  
 Column (6) : Assumption  
 Column (7) : Column (5) x Column (6)  
 Column (8) : Column (7) / Column (2)

Column (9) : Bornhuetter Method = (3) + (1.0 - 1.0 / (4)) x 535  
 Column (10) : Selected Trended Ultimate Claims  
 Column (11) : Column (10) / Column (6)  
 Column (12) : Column (10) / Column (2)

Selected Frequency Rate for Renewal Policy Period 1-Dec-23					
<u>Weighted Averages through and including Policy Period 1-Dec-22</u>					
Last 5 Policies	30,950,538			872	0.00282%
Last 3 Policies	18,677,602			489	0.00262%
Last 2 Policies	12,398,883			317	0.00256%
Last 22 Policies	151,478,928			5,937	0.00392%
Selected Bornhuetter-Ferguson Frequency Rate					<b>0.00301%</b>
Factor to adjust the Claims / Exposure Trend Rate from Policy Period 1-Dec-22 to Renewal Period 1-Dec-23					0.973
Selected Frequency Rate adjusted to the Renewal Policy Period Level					0.00293%
Payroll for 1-Dec-23					7,188,384
Projected Count for 1-Dec-23					211



**Cook County, Illinois**  
**Workers Compensation - Health Care Facilities (Medical)**  
**Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/23**  
**Losses Limited to Retentions**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Policy Period Inception	Incurred Loss	Selected Ultimate Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Ultimate Loss	Payroll (in 00s)	Exposure Trend Factor	Trended Payroll (in 00s)	Trended Loss Rate
1-Dec-01	620,425	625,000	4.357	1.000	2,723,043	4,348,459	1.911	8,311,599	0.33
1-Dec-02	916,557	919,000	4.072	1.000	3,742,021	4,411,415	1.856	8,186,343	0.46
1-Dec-03	1,325,120	1,329,000	3.805	1.000	5,057,112	4,536,443	1.806	8,193,322	0.62
1-Dec-04	1,261,451	1,261,451	3.556	1.000	4,486,049	4,587,757	1.749	8,024,869	0.56
1-Dec-05	763,576	763,576	3.324	1.000	2,537,827	4,646,188	1.698	7,890,365	0.32
1-Dec-06	925,319	925,319	3.106	1.000	2,874,204	4,480,513	1.649	7,387,386	0.39
1-Dec-07	747,148	747,148	2.903	1.000	2,168,949	4,456,640	1.605	7,151,599	0.30
1-Dec-08	694,482	695,000	2.713	1.000	1,885,574	5,016,244	1.554	7,795,918	0.24
1-Dec-09	1,338,927	1,360,000	2.581	1.000	3,510,672	5,265,352	1.509	7,944,723	0.44
1-Dec-10	680,500	684,000	2.560	1.000	1,751,145	4,890,532	1.465	7,164,242	0.24
1-Dec-11	998,986	1,010,000	2.386	1.000	2,410,340	5,150,838	1.426	7,343,863	0.33
1-Dec-12	1,642,415	1,670,000	2.217	1.000	3,702,448	4,827,828	1.381	6,666,401	0.56
1-Dec-13	991,842	1,041,000	2.057	1.000	2,141,201	4,827,828	1.341	6,472,234	0.33
1-Dec-14	529,096	552,000	1.914	1.000	1,056,529	4,684,830	1.302	6,097,603	0.17
1-Dec-15	737,666	759,000	1.781	1.000	1,351,497	4,970,309	1.267	6,296,239	0.21
1-Dec-16	731,596	760,000	1.654	1.000	1,256,924	5,291,126	1.227	6,491,408	0.19
1-Dec-17	551,748	619,000	1.535	1.000	949,996	5,390,504	1.191	6,420,709	0.15
1-Dec-18	2,059,011	2,125,000	1.427	1.000	3,032,519	5,802,830	1.156	6,710,521	0.45
1-Dec-19	1,691,765	1,776,000	1.328	1.000	2,359,033	5,241,633	1.126	5,899,504	0.40
1-Dec-20	1,445,174	1,573,000	1.226	1.000	1,929,089	5,918,294	1.090	6,451,170	0.30
1-Dec-21	2,872,414	3,250,000	1.145	1.000	3,720,925	6,312,408	1.058	6,680,359	0.56
1-Dec-22	2,078,944	2,700,000	1.070	1.000	2,889,000	5,897,102	1.027	6,059,072	0.48
<b>All Year Weighted Average</b>					57,536,097			155,639,449	0.37
<b>Latest 5-Year Weighted Average</b>					13,930,566			31,800,626	0.44
<b>Latest 3-Year Weighted Average</b>					8,539,014			19,190,601	0.44
<b>SELECTED - Based on Shaded PY</b>					16,137,486			44,712,743	<b>0.36</b>

Column (1) : from Exhibit 10    Column (10) : supplied by Cook County, Illinois  
Column (2) : from Exhibit 2, Column (10)    Column (7) : Annual Exposure Trend  
Column (3) : Trend Indices appropriate for Workers Compensation - Health Care Facilities (Medical)    Column (8) : Column (6) x Column (7)  
Column (4) : from Retention Analysis    Column (9) : Column (5) / Column (8)  
Column (5) : Column (2) x Column (3) x Column (4)

Renewal Projections (Losses and Claims developed to Ultimate)						
	(10)	(11)	(12)	(13)	(14)	(15)
Policy Period Inception	Retention	Payroll (in 00s)	Claim Count	Loss Rate	Loss Amount	
1-Dec-23	Unlimited	7,188,384	211	0.36	2,588,000	
1-Dec-24	Unlimited	7,422,296	211	0.37	2,746,000	
1-Dec-25	Unlimited	7,644,965	211	0.38	2,905,000	

Columns (11) - (15) : Projections. These are preliminary and should be monitored with actuarial updates.



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Medical)**

Average : \$3,078      sigma = 2.192  
CV : 11.00              mu = 5.630

**Limitation of Incurred LDF's for Workers Compensation - Health Care Facilities (Medical)**

Evaluation	(1) Incurred LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.002	1.000	9,500,000	4.762	2.570	1.000	0.995	3,072	9,521,041	4.763	2.571	1.000	0.995	3,072	1.002
264	1.002	1.000	9,500,000	4.762	2.570	1.000	0.995	3,072	9,521,041	4.763	2.571	1.000	0.995	3,072	1.002
252	1.003	1.000	9,500,000	4.762	2.570	1.000	0.995	3,072	9,530,562	4.763	2.571	1.000	0.995	3,072	1.003
240	1.004	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,004,220,275	6.888	4.696	1.000	1.000	3,078	1.004
228	1.005	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,005,224,495	6.889	4.697	1.000	1.000	3,078	1.005
216	1.006	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,006,229,719	6.889	4.697	1.000	1.000	3,078	1.006
204	1.007	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,007,235,949	6.889	4.698	1.000	1.000	3,078	1.007
192	1.008	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,008,243,185	6.890	4.698	1.000	1.000	3,078	1.008
180	1.009	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,009,251,428	6.890	4.699	1.000	1.000	3,078	1.009
168	1.010	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,010,260,680	6.891	4.699	1.000	1.000	3,078	1.010
156	1.011	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,011,270,940	6.891	4.699	1.000	1.000	3,078	1.011
144	1.012	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,012,282,211	6.892	4.700	1.000	1.000	3,078	1.012
132	1.014	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,014,306,776	6.893	4.701	1.000	1.000	3,078	1.014
120	1.016	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,016,335,389	6.894	4.702	1.000	1.000	3,078	1.016
108	1.018	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,018,368,060	6.894	4.703	1.000	1.000	3,078	1.018
96	1.021	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,021,423,164	6.896	4.704	1.000	1.000	3,078	1.021
84	1.027	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,026,530,280	6.898	4.706	1.000	1.000	3,078	1.027
72	1.032	1.001	999,999,999	6.886	4.694	1.000	1.000	3,078	1,030,632,299	6.900	4.708	1.000	1.000	3,078	1.032
60	1.042	1.002	999,999,999	6.886	4.694	1.000	1.000	3,078	1,039,898,723	6.904	4.712	1.000	1.000	3,078	1.042
48	1.056	1.003	999,999,999	6.886	4.694	1.000	1.000	3,078	1,052,365,042	6.909	4.718	1.000	1.000	3,078	1.056
36	1.071	1.006	999,999,999	6.886	4.694	1.000	1.000	3,078	1,064,955,650	6.915	4.723	1.000	1.000	3,078	1.071
24	1.205	1.010	999,999,999	6.886	4.694	1.000	1.000	3,078	1,193,301,899	6.967	4.775	1.000	1.000	3,078	1.205
12	1.659	1.050	999,999,999	6.886	4.694	1.000	1.000	3,078	1,580,279,363	7.095	4.903	1.000	1.000	3,078	1.659

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Medical)**

Average : \$3,078      sigma = 2.192  
CV : 11.00              mu = 5.630

**Limitation of Paid LDF's for Workers Compensation - Health Care Facilities (Medical)**

Evaluation	(1) Paid LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.010	1.000	9,500,000	4.762	2.570	1.000	0.995	3,072	9,596,002	4.766	2.574	1.000	0.995	3,072	1.010
264	1.011	1.000	9,500,000	4.762	2.570	1.000	0.995	3,072	9,606,669	4.767	2.575	1.000	0.995	3,072	1.011
252	1.012	1.000	9,500,000	4.762	2.570	1.000	0.995	3,072	9,618,521	4.767	2.576	1.000	0.995	3,072	1.012
240	1.013	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,013,488,401	6.892	4.700	1.000	1.000	3,078	1.013
228	1.015	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,014,501,890	6.893	4.701	1.000	1.000	3,078	1.015
216	1.016	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,015,516,392	6.893	4.701	1.000	1.000	3,078	1.016
204	1.017	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,016,531,908	6.894	4.702	1.000	1.000	3,078	1.017
192	1.019	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,018,564,972	6.895	4.703	1.000	1.000	3,078	1.019
180	1.021	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,020,602,102	6.895	4.704	1.000	1.000	3,078	1.021
168	1.024	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,023,663,908	6.897	4.705	1.000	1.000	3,078	1.024
156	1.028	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,027,758,564	6.899	4.707	1.000	1.000	3,078	1.028
144	1.033	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,032,897,357	6.901	4.709	1.000	1.000	3,078	1.033
132	1.039	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,039,094,741	6.904	4.712	1.000	1.000	3,078	1.039
120	1.045	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,045,329,309	6.906	4.715	1.000	1.000	3,078	1.045
108	1.053	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,052,646,614	6.910	4.718	1.000	1.000	3,078	1.053
96	1.061	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,061,067,787	6.913	4.721	1.000	1.000	3,078	1.061
84	1.075	1.000	999,999,999	6.886	4.694	1.000	1.000	3,078	1,074,861,668	6.919	4.727	1.000	1.000	3,078	1.075
72	1.093	1.001	999,999,999	6.886	4.694	1.000	1.000	3,078	1,092,323,379	6.926	4.735	1.000	1.000	3,078	1.093
60	1.137	1.002	999,999,999	6.886	4.694	1.000	1.000	3,078	1,134,881,433	6.944	4.752	1.000	1.000	3,078	1.137
48	1.191	1.003	999,999,999	6.886	4.694	1.000	1.000	3,078	1,187,319,734	6.965	4.773	1.000	1.000	3,078	1.191
36	1.286	1.006	999,999,999	6.886	4.694	1.000	1.000	3,078	1,278,084,676	6.998	4.806	1.000	1.000	3,078	1.286
24	1.607	1.010	999,999,999	6.886	4.694	1.000	1.000	3,078	1,591,295,361	7.098	4.906	1.000	1.000	3,078	1.607
12	4.356	1.050	999,999,999	6.886	4.694	1.000	1.000	3,078	4,149,677,958	7.535	5.344	1.000	1.000	3,078	4.356

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Medical)  
Projected Losses Paid 12/1/2023 to 11/30/2024**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/23	Percent Losses Paid	Months of Development 11/30/24	Percent Losses Paid	Estimated Outstanding Losses 11/30/23	Projected Losses Paid	Estimated Outstanding Losses 11/30/24	Discount Factor	Discounted Outstanding Losses 11/30/24
Prior	276	99.0%	288	99.3%	\$ 428,044	\$ 106,209	\$ 321,835	0.867	\$ 278,934
1-Dec-01	264	98.9%	276	99.0%	\$ 4,575	\$ -	\$ 4,575	0.866	\$ 3,964
1-Dec-02	252	98.8%	264	98.9%	\$ 20,407	\$ 2,018	\$ 18,389	0.844	\$ 15,521
1-Dec-03	240	98.7%	252	98.8%	\$ 110,799	\$ 8,214	\$ 102,585	0.825	\$ 84,606
1-Dec-04	228	98.6%	240	98.7%	\$ -	\$ -	\$ -	0.803	\$ -
1-Dec-05	216	98.5%	228	98.6%	\$ -	\$ -	\$ -	0.783	\$ -
1-Dec-06	204	98.4%	216	98.5%	\$ -	\$ -	\$ -	0.765	\$ -
1-Dec-07	192	98.2%	204	98.4%	\$ -	\$ -	\$ -	0.747	\$ -
1-Dec-08	180	98.0%	192	98.2%	\$ 5,205	\$ 505	\$ 4,700	0.743	\$ 3,492
1-Dec-09	168	97.7%	180	98.0%	\$ 625,342	\$ 79,278	\$ 546,064	0.737	\$ 402,523
1-Dec-10	156	97.3%	168	97.7%	\$ 16,133	\$ 2,325	\$ 13,808	0.740	\$ 10,219
1-Dec-11	144	96.8%	156	97.3%	\$ 17,462	\$ 2,654	\$ 14,808	0.747	\$ 11,066
1-Dec-12	132	96.2%	144	96.8%	\$ 484,017	\$ 74,284	\$ 409,733	0.755	\$ 309,445
1-Dec-13	120	95.7%	132	96.2%	\$ 372,052	\$ 49,247	\$ 322,805	0.762	\$ 245,999
1-Dec-14	108	95.0%	120	95.7%	\$ 66,510	\$ 8,843	\$ 57,667	0.762	\$ 43,962
1-Dec-15	96	94.2%	108	95.0%	\$ 61,454	\$ 8,051	\$ 53,403	0.763	\$ 40,732
1-Dec-16	84	93.0%	96	94.2%	\$ 245,653	\$ 42,658	\$ 202,994	0.763	\$ 154,792
1-Dec-17	72	91.5%	84	93.0%	\$ 224,159	\$ 41,421	\$ 182,738	0.773	\$ 141,257
1-Dec-18	60	87.9%	72	91.5%	\$ 1,389,825	\$ 405,338	\$ 984,487	0.784	\$ 771,763
1-Dec-19	48	84.0%	60	87.9%	\$ 1,448,142	\$ 358,476	\$ 1,089,665	0.817	\$ 890,052
1-Dec-20	36	77.8%	48	84.0%	\$ 1,022,703	\$ 285,138	\$ 737,565	0.830	\$ 612,504
1-Dec-21	24	62.2%	36	77.8%	\$ 2,556,268	\$ 1,052,548	\$ 1,503,719	0.846	\$ 1,272,135
1-Dec-22	12	23.0%	24	62.2%	\$ 2,599,615	\$ 1,324,718	\$ 1,274,897	0.879	\$ 1,120,816
1-Dec-23	0	0.0%	12	23.0%	\$ 2,588,000	\$ 594,166	\$ 1,993,834	0.911	\$ 1,816,778
<b>Total</b>					<b>\$ 14,286,364</b>	<b>\$ 4,446,091</b>	<b>\$ 9,840,273</b>		<b>\$ 8,230,561</b>

Column (3): 1 / Exhibit 9 Column (3)  
 Column (5): 1 / Rollforward Exhibit Column (54)  
 Column (6): From Executive Summary  
 Column (7): Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Medical)  
Projected Losses Paid 12/1/2024 to 11/30/2025**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/24	Percent Losses Paid	Months of Development 11/30/25	Percent Losses Paid	Estimated Outstanding Losses 11/30/24	Projected Losses Paid	Estimated Outstanding Losses 11/30/25	Discount Factor	Discounted Outstanding Losses 11/30/25
Prior	288	99.3%	300	99.4%	\$ 321,835	\$ 80,006	\$ 241,830	0.867	\$ 209,646
1-Dec-01	276	99.0%	288	99.3%	\$ 4,575	\$ 1,142	\$ 3,433	0.867	\$ 2,976
1-Dec-02	264	98.9%	276	99.0%	\$ 18,389	\$ 1,821	\$ 16,568	0.866	\$ 14,356
1-Dec-03	252	98.8%	264	98.9%	\$ 102,585	\$ 10,145	\$ 92,440	0.844	\$ 78,027
1-Dec-04	240	98.7%	252	98.8%	\$ -	\$ -	\$ -	0.825	\$ -
1-Dec-05	228	98.6%	240	98.7%	\$ -	\$ -	\$ -	0.803	\$ -
1-Dec-06	216	98.5%	228	98.6%	\$ -	\$ -	\$ -	0.783	\$ -
1-Dec-07	204	98.4%	216	98.5%	\$ -	\$ -	\$ -	0.765	\$ -
1-Dec-08	192	98.2%	204	98.4%	\$ 4,700	\$ 506	\$ 4,194	0.747	\$ 3,131
1-Dec-09	180	98.0%	192	98.2%	\$ 546,064	\$ 53,011	\$ 493,053	0.743	\$ 366,368
1-Dec-10	168	97.7%	180	98.0%	\$ 13,808	\$ 1,750	\$ 12,057	0.737	\$ 8,888
1-Dec-11	156	97.3%	168	97.7%	\$ 14,808	\$ 2,134	\$ 12,674	0.740	\$ 9,380
1-Dec-12	144	96.8%	156	97.3%	\$ 409,733	\$ 62,274	\$ 347,459	0.747	\$ 259,652
1-Dec-13	132	96.2%	144	96.8%	\$ 322,805	\$ 49,542	\$ 273,263	0.755	\$ 206,378
1-Dec-14	120	95.7%	132	96.2%	\$ 57,667	\$ 7,633	\$ 50,034	0.762	\$ 38,129
1-Dec-15	108	95.0%	120	95.7%	\$ 53,403	\$ 7,101	\$ 46,303	0.762	\$ 35,298
1-Dec-16	96	94.2%	108	95.0%	\$ 202,994	\$ 26,593	\$ 176,401	0.763	\$ 134,545
1-Dec-17	84	93.0%	96	94.2%	\$ 182,738	\$ 31,733	\$ 151,005	0.763	\$ 115,148
1-Dec-18	72	91.5%	84	93.0%	\$ 984,487	\$ 181,918	\$ 802,569	0.773	\$ 620,387
1-Dec-19	60	87.9%	72	91.5%	\$ 1,089,665	\$ 317,797	\$ 771,868	0.784	\$ 605,085
1-Dec-20	48	84.0%	60	87.9%	\$ 737,565	\$ 182,579	\$ 554,986	0.817	\$ 453,320
1-Dec-21	36	77.8%	48	84.0%	\$ 1,503,719	\$ 419,249	\$ 1,084,470	0.830	\$ 900,588
1-Dec-22	24	62.2%	36	77.8%	\$ 1,274,897	\$ 524,941	\$ 749,956	0.846	\$ 634,457
1-Dec-23	12	23.0%	24	62.2%	\$ 1,993,834	\$ 1,016,023	\$ 977,812	0.879	\$ 859,636
1-Dec-24	0	0.0%	12	23.0%	\$ 2,746,000	\$ 630,440	\$ 2,115,560	0.911	\$ 1,927,694
<b>Total</b>					<b>\$ 12,586,273</b>	<b>\$ 3,608,337</b>	<b>\$ 8,977,936</b>		<b>\$ 7,483,088</b>

Column (3): 1 / Rollforward Exhibit Column (54)

Column (5): 1 / Rollforward Exhibit 2 Column (54)

Column (6): Rollforward Exhibit Column (21) & Projection

Column (7): Rollforward Exhibit 2 Column (31) - Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)

Column (9): Based on Column (3) and 4.48% Interest Rate

Column (10): Column (8) x Column (9)



**Cook County, Illinois  
Workers Compensation - Health Care Facilities (Medical)  
Projected Losses Paid 12/1/2025 to 11/30/2026**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/25	Percent Losses Paid	Months of Development 11/30/26	Percent Losses Paid	Estimated Outstanding Losses 11/30/25	Projected Losses Paid	Estimated Outstanding Losses 11/30/26	Discount Factor	Discounted Outstanding Losses 11/30/26
Prior	300	99.4%	312	99.6%	\$ 241,830	\$ 60,202	\$ 181,628	0.867	\$ 157,496
1-Dec-01	288	99.3%	300	99.4%	\$ 3,433	\$ 857	\$ 2,576	0.867	\$ 2,233
1-Dec-02	276	99.0%	288	99.3%	\$ 16,568	\$ 4,111	\$ 12,457	0.867	\$ 10,797
1-Dec-03	264	98.9%	276	99.0%	\$ 92,440	\$ 9,152	\$ 83,289	0.866	\$ 72,167
1-Dec-04	252	98.8%	264	98.9%	\$ -	\$ -	\$ -	0.844	\$ -
1-Dec-05	240	98.7%	252	98.8%	\$ -	\$ -	\$ -	0.825	\$ -
1-Dec-06	228	98.6%	240	98.7%	\$ -	\$ -	\$ -	0.803	\$ -
1-Dec-07	216	98.5%	228	98.6%	\$ -	\$ -	\$ -	0.783	\$ -
1-Dec-08	204	98.4%	216	98.5%	\$ 4,194	\$ 254	\$ 3,940	0.765	\$ 3,012
1-Dec-09	192	98.2%	204	98.4%	\$ 493,053	\$ 53,117	\$ 439,937	0.747	\$ 328,485
1-Dec-10	180	98.0%	192	98.2%	\$ 12,057	\$ 1,170	\$ 10,887	0.743	\$ 8,090
1-Dec-11	168	97.7%	180	98.0%	\$ 12,674	\$ 1,607	\$ 11,068	0.737	\$ 8,158
1-Dec-12	156	97.3%	168	97.7%	\$ 347,459	\$ 50,069	\$ 297,390	0.740	\$ 220,104
1-Dec-13	144	96.8%	156	97.3%	\$ 273,263	\$ 41,533	\$ 231,731	0.747	\$ 173,170
1-Dec-14	132	96.2%	144	96.8%	\$ 50,034	\$ 7,679	\$ 42,355	0.755	\$ 31,988
1-Dec-15	120	95.7%	132	96.2%	\$ 46,303	\$ 6,129	\$ 40,174	0.762	\$ 30,615
1-Dec-16	108	95.0%	120	95.7%	\$ 176,401	\$ 23,455	\$ 152,947	0.762	\$ 116,598
1-Dec-17	96	94.2%	108	95.0%	\$ 151,005	\$ 19,782	\$ 131,223	0.763	\$ 100,086
1-Dec-18	84	93.0%	96	94.2%	\$ 802,569	\$ 139,369	\$ 663,200	0.763	\$ 505,721
1-Dec-19	72	91.5%	84	93.0%	\$ 771,868	\$ 142,629	\$ 629,239	0.773	\$ 486,402
1-Dec-20	60	87.9%	72	91.5%	\$ 554,986	\$ 161,860	\$ 393,127	0.784	\$ 308,181
1-Dec-21	48	84.0%	60	87.9%	\$ 1,084,470	\$ 268,452	\$ 816,018	0.817	\$ 666,533
1-Dec-22	36	77.8%	48	84.0%	\$ 749,956	\$ 209,094	\$ 540,862	0.830	\$ 449,154
1-Dec-23	24	62.2%	36	77.8%	\$ 977,812	\$ 402,616	\$ 575,196	0.846	\$ 486,611
1-Dec-24	12	23.0%	24	62.2%	\$ 2,115,560	\$ 1,078,052	\$ 1,037,508	0.879	\$ 912,118
1-Dec-25	0	0.0%	12	23.0%	\$ 2,905,000	\$ 666,944	\$ 2,238,056	0.911	\$ 2,039,312
<b>Total</b>					<b>\$ 11,882,936</b>	<b>\$ 3,348,131</b>	<b>\$ 8,534,805</b>		<b>\$ 7,117,029</b>

Column (3): 1 / Rollforward Exhibit 2 Column (54)

Column (5): 1 / Rollforward Exhibit 3 Column (54)

Column (6): Rollforward Exhibit 2 Column (21) & Projection

Column (7): Rollforward Exhibit 3 Column (31) - Rollforward Exhibit 2 Column (31)

Column (8): Column (6) - Column (7)

Column (9): Based on Column (3) and 4.48% Interest Rate

Column (10): Column (8) x Column (9)





**Cook County, Illinois**  
**Workers Compensation - Health Care Facilities (Medical)**  
**Large Claims**

All Claims greater than or equal to \$1,000,000

(1)	(2)	(3)	(4)	(5)
<u>Policy</u> <u>Period</u>	<u>Loss</u> <u>Date</u>	<u>Incurred</u> <u>Loss</u>	<u>Paid</u> <u>Loss</u>	<u>Case</u> <u>Reserves</u>
Prior	7/23/1991	1,585,762	1,585,762	-

Cook County, Illinois  
Workers' Compensation - Health Care Facilities  
Occurrence  
Medical  
Incurred Development Triangle  
Data Unlimited (000s)  
As of 11/30/2023

Table with 20 columns representing age in months (12 to 276) and 20 rows representing policy years (12/1/2001 to 12/1/2022). Data values represent incurred amounts for each age and year.

Table with 19 columns representing age-to-age periods (12-24 to 276-Ult) and 20 rows representing policy years (12/1/2001 to 12/1/2022). Data values represent the ratio of incurred amounts between adjacent age groups.

Table with 19 columns representing age-to-age periods and 12 rows representing various averages (All Year Average, 3 Yr Average, 5 Yr Average, etc.) and final values (Industry, Initial Selected).

Table titled 'Tail Factor Calculation' with 19 columns representing age-to-age periods and 6 rows representing different tail factor calculation methods (Inverse Power Curve Fit, Exponential Curve Fit, Weibull Curve Fit, Manual Entry, Selected Tail Method, Final Link Ratio).

The County changed data systems during 2016, resulting in a shift between indemnity and medical. The amounts in the 2016 diagonal are not consistent with prior diagonals. Industry Factor Source: 2023 NCCI Medical Only



Cook County, Illinois
Workers' Compensation - Health Care Facilities
Occurrence
Medical
Reported Claim Count Development Triangle
Data Unlimited
As of 11/30/2023

Age in Months
Table with 27 columns representing months (12 to 276) and 20 rows representing policy years (12/1/2001 to 12/1/2022). Values represent claim counts, starting from a 'Prior' value and increasing over time.

Age-to-Age
Table with 27 columns representing age-to-age intervals (12-24 to 276-Ult) and 20 rows representing policy years (12/1/2001 to 12/1/2022). Values represent ratios between adjacent age intervals.

Averages
Table with 27 columns representing age intervals (12-24 to 276-Ult) and 10 rows representing various averages: All Year Average, 3 Yr Average, 5 Yr Average, 3 Yr Wtd Average, 5 Yr Wtd Average, Avg X Hi-Lo (3yr X 2), Avg X Hi-Lo (5yr X 2), Prior, Industry, and Initial Selected.

Tail Factor Calculation
Table with 27 columns representing age intervals (12-24 to 276-Ult) and 5 rows representing different tail factor calculation methods: Inverse Power Curve Fit, Exponential Curve Fit, Weibull Curve Fit, Manual Entry, and Selected Tail Method (Manual Entry). Includes Final Link Ratio and Final CDF values.

The County changed data systems during 2016, resulting in a shift between indemnity and medical. The amounts in the 2016 diagonal are not consistent with prior diagonals.
Industry Factor Source: 2023 NCCI Medical Only



**Cook County, Illinois  
Medical Malpractice - Cermak Health Services Experience @ 11/30/23  
Losses Limited to Retentions**

Policy Period	Physician FTEs (1)	Retention (2)	Reported Claims (3)	Open Claims (3a)	Incurred (4)	Paid (5)	Case (6)	Est IBNR (7)	Total O/S (8)	Ultimate (9)	Ultimate Loss Rate (10)
							[(6)-(5)]		[(6)+(7)]	[(4)+(7)]	[(9)/(1)]

**Historical Experience**

Prior	-	Various	25	-	12,012,000	12,012,000	-	-	-	12,012,000	
1-Dec-01	-	Various	16	-	1,000,000	1,000,000	-	-	-	1,000,000	
1-Dec-02	-	Various	10	-	19,000	19,000	-	-	-	19,000	
1-Dec-03	33	20,000,000	18	-	2,958,500	2,958,500	-	-	-	2,958,500	91,031
1-Dec-04	33	20,000,000	16	-	750	750	-	-	-	750	23
1-Dec-05	23	20,000,000	18	-	1,000,000	1,000,000	-	-	-	1,000,000	43,478
1-Dec-06	14	20,000,000	13	-	2,500	2,500	-	-	-	2,500	179
1-Dec-07	-	20,000,000	8	-	1,000,000	1,000,000	-	-	-	1,000,000	
1-Dec-08	-	20,000,000	1	-	-	-	-	-	-	-	
1-Dec-09	-	Various	4	-	1,310,000	1,310,000	-	-	-	1,310,000	
1-Dec-10	-	40,000,000	1	-	3,000	3,000	-	-	-	3,000	
1-Dec-11	35	40,000,000	3	-	10,000	10,000	-	-	-	10,000	287
1-Dec-12	35	Various	7	-	-	-	-	-	-	-	
1-Dec-13	35	30,000,000	-	-	-	-	-	-	-	-	
1-Dec-14	41	Various	5	-	6,041,000	6,041,000	-	-	-	6,041,000	145,953
1-Dec-15	45	25,000,000	3	-	2,930,000	2,930,000	-	150,000	150,000	3,080,000	69,105
1-Dec-16	46	25,000,000	1	-	900,000	900,000	-	60,000	60,000	960,000	20,997
1-Dec-17	52	25,000,000	-	-	-	-	-	240,000	240,000	240,000	4,625
1-Dec-18	46	25,000,000	2	1	100,000	-	100,000	230,000	330,000	330,000	7,197
1-Dec-19	50	Various	-	-	-	-	-	340,000	340,000	340,000	6,778
1-Dec-20	46	35,000,000	1	1	20,000	-	20,000	460,000	480,000	480,000	10,488
1-Dec-21	55	35,000,000	-	-	-	-	-	690,000	690,000	690,000	12,500
1-Dec-22	37	35,000,000	-	-	-	-	-	810,000	810,000	810,000	21,681
<b>Total</b>	<b>624</b>		<b>152</b>	<b>2</b>	<b>29,306,750</b>	<b>29,186,750</b>	<b>120,000</b>	<b>2,980,000</b>	<b>3,100,000</b>	<b>32,286,750</b>	<b>27,138</b>

**Full Policy Period Projections**

1-Dec-23	37	35,000,000								870,000	23,267
1-Dec-24	37	35,000,000								900,000	24,197



**Cook County, Illinois  
Medical Malpractice - Cermak Health Services**

**Medical Malpractice - Cermak Health Services Experience @ 11/30/23  
Summary of Various Reserving Methods  
Losses Limited to Retentions**

(1) Policy Period Inception	(2) Chain Ladder			(5) Bornhuetter-Ferguson		(7) Generalized Cape Cod		(9) Freq/Sev	(10) Selected Ultimate
	(2) Incurred	(3) Paid	(4) Outstanding	(5) Incurred	(6) Paid	(7) Incurred	(8) Paid		
Prior	\$ 12,012,000	\$ 12,012,000	\$ 12,012,000	N/A	N/A	N/A	N/A	\$ 12,012,000	\$ 12,012,000
1-Dec-01	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	N/A	N/A	N/A	N/A	\$ 1,000,000	\$ 1,000,000
1-Dec-02	\$ 19,000	\$ 19,000	\$ 19,000	N/A	N/A	N/A	N/A	\$ 19,000	\$ 19,000
1-Dec-03	\$ 2,958,500	\$ 2,958,500	\$ 2,958,500	N/A	N/A	N/A	N/A	\$ 2,958,500	\$ 2,958,500
1-Dec-04	\$ 750	\$ 750	\$ 750	N/A	N/A	N/A	N/A	\$ 750	\$ 750
1-Dec-05	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	N/A	N/A	N/A	N/A	\$ 1,000,000	\$ 1,000,000
1-Dec-06	\$ 2,500	\$ 2,500	\$ 2,500	N/A	N/A	N/A	N/A	\$ 2,500	\$ 2,500
1-Dec-07	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	N/A	N/A	N/A	N/A	\$ 1,000,000	\$ 1,000,000
1-Dec-08	\$ -	\$ -	\$ -	N/A	N/A	N/A	N/A	\$ -	\$ -
1-Dec-09	\$ 1,315,117	\$ 1,317,680	\$ 1,310,000	N/A	N/A	N/A	N/A	\$ 1,315,117	\$ 1,310,000
1-Dec-10	\$ 3,026	\$ 3,035	\$ 3,000	N/A	N/A	N/A	N/A	\$ 3,026	\$ 3,000
1-Dec-11	\$ 10,162	\$ 10,236	\$ 10,000	\$ 19,078	\$ 23,095	\$ 21,933	\$ 29,832	\$ 10,162	\$ 10,000
1-Dec-12	\$ -	\$ -	\$ -	\$ 14,794	\$ 23,171	\$ 22,516	\$ 41,628	\$ -	\$ -
1-Dec-13	\$ -	\$ -	\$ -	\$ 20,871	\$ 37,694	\$ 38,333	\$ 84,772	\$ -	\$ -
1-Dec-14	\$ 6,316,690	\$ 6,674,553	\$ 6,041,000	\$ 6,073,208	\$ 6,111,048	\$ 6,114,058	\$ 6,245,574	\$ 6,316,690	\$ 6,041,000
1-Dec-15	\$ 3,093,229	\$ 3,471,640	\$ 2,930,000	\$ 2,973,192	\$ 3,057,701	\$ 3,016,600	\$ 3,283,267	\$ 3,093,229	\$ 3,080,000
1-Dec-16	\$ 959,295	\$ 1,272,732	\$ 900,000	\$ 953,454	\$ 1,153,267	\$ 983,886	\$ 1,502,952	\$ 959,295	\$ 960,000
1-Dec-17	\$ -	\$ -	\$ -	\$ 77,984	\$ 427,611	\$ 92,855	\$ 870,411	\$ -	\$ 240,000
1-Dec-18	\$ 111,526	\$ -	\$ 117,110	\$ 195,085	\$ 650,821	\$ 189,831	\$ 1,225,264	\$ 110,626	\$ 330,000
1-Dec-19	\$ -	\$ -	\$ -	\$ 171,741	\$ 917,539	\$ 131,361	\$ 1,667,464	\$ -	\$ 340,000
1-Dec-20	\$ 27,504	\$ -	\$ 27,755	\$ 285,895	\$ 951,603	\$ 192,789	\$ 1,716,270	\$ 25,812	\$ 480,000
1-Dec-21	\$ -	\$ -	\$ -	\$ 536,968	\$ 1,210,348	\$ 309,096	\$ 2,182,638	\$ -	\$ 690,000
1-Dec-22	\$ -	\$ -	\$ -	\$ 570,542	\$ 843,842	\$ 313,887	\$ 1,521,639	\$ -	\$ 810,000
<b>Total</b>	<b>\$ 29,829,299</b>	<b>\$ 30,742,626</b>	<b>\$ 29,331,615</b>	<b>\$ 11,892,813</b>	<b>\$ 15,407,740</b>	<b>\$ 11,427,147</b>	<b>\$ 20,371,710</b>	<b>\$ 29,826,707</b>	<b>\$ 32,286,750</b>

Column (2) : from Exhibit 3, Column (5)  
 Column (3) : from Exhibit 3, Column (8)  
 Column (4) : from Exhibit 3, Column (11)

Column (5) : from Exhibit 7, Column (11)  
 Column (6) : from Exhibit 8, Column (11)  
 Column (7) : from Exhibit 4, Column (11)  
 Column (8) : from Exhibit 5, Column (11)

Column (9) : from Exhibit 6, Column (11)  
 Column (10) : Ultimate



**Cook County, Illinois  
Medical Malpractice - Cermak Health Services**

**Medical Malpractice - Cermak Health Services Experience @ 11/30/23  
Unpaid Liabilities at Various Discount Rates  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.48%
Prior	276	Various	\$ 12,012,000	\$ 12,012,000	\$ 12,012,000	\$ -	\$ -	\$ -	\$ -
1-Dec-01	264	Various	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -
1-Dec-02	252	Various	\$ 19,000	\$ 19,000	\$ 19,000	\$ -	\$ -	\$ -	\$ -
1-Dec-03	240	\$ 20,000,000	\$ 2,958,500	\$ 2,958,500	\$ 2,958,500	\$ -	\$ -	\$ -	\$ -
1-Dec-04	228	\$ 20,000,000	\$ 750	\$ 750	\$ 750	\$ -	\$ -	\$ -	\$ -
1-Dec-05	216	\$ 20,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -
1-Dec-06	204	\$ 20,000,000	\$ 2,500	\$ 2,500	\$ 2,500	\$ -	\$ -	\$ -	\$ -
1-Dec-07	192	\$ 20,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -
1-Dec-08	180	\$ 20,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-09	168	Various	\$ 1,310,000	\$ 1,310,000	\$ 1,310,000	\$ -	\$ -	\$ -	\$ -
1-Dec-10	156	\$ 40,000,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ -	\$ -	\$ -	\$ -
1-Dec-11	144	\$ 40,000,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ -	\$ -	\$ -	\$ -
1-Dec-12	132	Various	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-13	120	\$ 30,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-14	108	Various	\$ 6,041,000	\$ 6,041,000	\$ 6,041,000	\$ -	\$ -	\$ -	\$ -
1-Dec-15	96	\$ 25,000,000	\$ 3,080,000	\$ 2,930,000	\$ 2,930,000	\$ -	\$ 150,000	\$ 150,000	\$ 137,619
1-Dec-16	84	\$ 25,000,000	\$ 960,000	\$ 900,000	\$ 900,000	\$ -	\$ 60,000	\$ 60,000	\$ 55,492
1-Dec-17	72	\$ 25,000,000	\$ 240,000	\$ -	\$ -	\$ -	\$ 240,000	\$ 240,000	\$ 219,304
1-Dec-18	60	\$ 25,000,000	\$ 330,000	\$ 100,000	\$ -	\$ 100,000	\$ 230,000	\$ 330,000	\$ 302,311
1-Dec-19	48	Various	\$ 340,000	\$ -	\$ -	\$ -	\$ 340,000	\$ 340,000	\$ 304,947
1-Dec-20	36	\$ 35,000,000	\$ 480,000	\$ 20,000	\$ -	\$ 20,000	\$ 460,000	\$ 480,000	\$ 417,452
1-Dec-21	24	\$ 35,000,000	\$ 690,000	\$ -	\$ -	\$ -	\$ 690,000	\$ 690,000	\$ 576,704
1-Dec-22	12	\$ 35,000,000	\$ 810,000	\$ -	\$ -	\$ -	\$ 810,000	\$ 810,000	\$ 647,986
<b>Total</b>			<b>\$ 32,286,750</b>	<b>\$ 29,306,750</b>	<b>\$ 29,186,750</b>	<b>\$ 120,000</b>	<b>\$ 2,980,000</b>	<b>\$ 3,100,000</b>	<b>\$ 2,661,814</b>

Column (4) : from Exhibit 1, Column (10)  
Columns (5), (6), (7) : Exhibit 10

Column (8) : Column (4) - Column (5)  
Column (9) : Column (4) - Column (6)  
Column (9) : Column (10) discounted



**Cook County, Illinois  
Medical Malpractice - Cermak Health Services**

**Medical Malpractice - Cermak Health Services Experience @ 11/30/23  
Incurred, Paid, & Outstanding "Chain Ladder" Methods  
Losses Limited to Retentions**

(1)	(2)	(3)			(6)			(9)		
Policy Period Inception	Evaluation in Months	Incurred Chain-Ladder			Paid Chain-Ladder			Outstanding Chain-Ladder		
		Incurred Loss	Incurred LDF	Ultimate Loss	Paid Loss	Paid LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss
Prior	276	\$ 12,012,000	1.000	\$ 12,012,000	\$ 12,012,000	1.000	\$ 12,012,000	\$ -	1.000	\$ 12,012,000
1-Dec-01	264	\$ 1,000,000	1.000	\$ 1,000,000	\$ 1,000,000	1.000	\$ 1,000,000	\$ -	1.000	\$ 1,000,000
1-Dec-02	252	\$ 19,000	1.000	\$ 19,000	\$ 19,000	1.000	\$ 19,000	\$ -	1.000	\$ 19,000
1-Dec-03	240	\$ 2,958,500	1.000	\$ 2,958,500	\$ 2,958,500	1.000	\$ 2,958,500	\$ -	1.000	\$ 2,958,500
1-Dec-04	228	\$ 750	1.000	\$ 750	\$ 750	1.000	\$ 750	\$ -	1.000	\$ 750
1-Dec-05	216	\$ 1,000,000	1.000	\$ 1,000,000	\$ 1,000,000	1.000	\$ 1,000,000	\$ -	1.000	\$ 1,000,000
1-Dec-06	204	\$ 2,500	1.000	\$ 2,500	\$ 2,500	1.000	\$ 2,500	\$ -	1.000	\$ 2,500
1-Dec-07	192	\$ 1,000,000	1.000	\$ 1,000,000	\$ 1,000,000	1.000	\$ 1,000,000	\$ -	1.000	\$ 1,000,000
1-Dec-08	180	\$ -	1.001	\$ -	\$ -	1.002	\$ -	\$ -	2.002	\$ -
1-Dec-09	168	\$ 1,310,000	1.004	\$ 1,315,117	\$ 1,310,000	1.006	\$ 1,317,680	\$ -	3.008	\$ 1,310,000
1-Dec-10	156	\$ 3,000	1.009	\$ 3,026	\$ 3,000	1.012	\$ 3,035	\$ -	4.022	\$ 3,000
1-Dec-11	144	\$ 10,000	1.016	\$ 10,162	\$ 10,000	1.024	\$ 10,236	\$ -	3.260	\$ 10,000
1-Dec-12	132	\$ -	1.026	\$ -	\$ -	1.041	\$ -	\$ -	2.766	\$ -
1-Dec-13	120	\$ -	1.036	\$ -	\$ -	1.067	\$ -	\$ -	2.241	\$ -
1-Dec-14	108	\$ 6,041,000	1.046	\$ 6,316,690	\$ 6,041,000	1.105	\$ 6,674,553	\$ -	1.851	\$ 6,041,000
1-Dec-15	96	\$ 2,930,000	1.056	\$ 3,093,229	\$ 2,930,000	1.185	\$ 3,471,640	\$ -	1.511	\$ 2,930,000
1-Dec-16	84	\$ 900,000	1.066	\$ 959,295	\$ 900,000	1.414	\$ 1,272,732	\$ -	1.268	\$ 900,000
1-Dec-17	72	\$ -	1.084	\$ -	\$ -	1.733	\$ -	\$ -	1.223	\$ -
1-Dec-18	60	\$ 100,000	1.115	\$ 111,526	\$ -	3.417	\$ -	\$ 100,000	1.171	\$ 117,110
1-Dec-19	48	\$ -	1.199	\$ -	\$ -	8.686	\$ -	\$ -	1.230	\$ -
1-Dec-20	36	\$ 20,000	1.375	\$ 27,504	\$ -	42.515	\$ -	\$ 20,000	1.388	\$ 27,755
1-Dec-21	24	\$ -	1.797	\$ -	\$ -	4789.666	\$ -	\$ -	1.797	\$ -
1-Dec-22	12	\$ -	3.087	\$ -	\$ -	9579.332	\$ -	\$ -	3.088	\$ -
<b>Total</b>		<b>\$ 29,306,750</b>		<b>\$ 29,829,299</b>	<b>\$ 29,186,750</b>		<b>\$ 30,742,626</b>	<b>\$ 120,000</b>		<b>\$ 29,331,615</b>

Columns (3), (6), (9) : Exhibit 10

Column (4) & (7) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (8) : Column (6) X Column (7)

Column (10) : Outstanding LDF = (Incurred LDF - 1) X Paid LDF / (Paid LDF - Incurred LDF) + 1

Column (11) : Column (9) X Column (10) + Column (6)





**Cook County, Illinois  
Medical Malpractice - Cermak Health Services**

**Medical Malpractice - Cermak Health Services Experience @ 11/30/23  
Generalized Cape Cod Incurred Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Incurred Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Incurred Loss	Trended Physician FTEs	Incurred LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-11	144	\$ 10,000	1.384	1.000	\$ 13,842	35	1.016	29693	\$ 746,518	\$ 21,933
1-Dec-12	132	\$ -	1.344	1.000	\$ -	35	1.026	34380	\$ 890,184	\$ 22,516
1-Dec-13	120	\$ -	1.305	1.000	\$ -	35	1.036	41488	\$ 1,106,474	\$ 38,333
1-Dec-14	108	\$ 6,041,000	1.267	1.000	\$ 7,653,685	41	1.046	51240	\$ 1,673,936	\$ 6,114,058
1-Dec-15	96	\$ 2,930,000	1.230	1.000	\$ 3,604,061	45	1.056	45292	\$ 1,641,103	\$ 3,016,600
1-Dec-16	84	\$ 900,000	1.194	1.000	\$ 1,074,805	46	1.066	35449	\$ 1,357,140	\$ 983,886
1-Dec-17	72	\$ -	1.159	1.000	\$ -	52	1.084	26897	\$ 1,203,734	\$ 92,855
1-Dec-18	60	\$ 100,000	1.126	1.000	\$ 112,567	46	1.115	21341	\$ 869,245	\$ 189,831
1-Dec-19	48	\$ -	1.093	1.000	\$ -	50	1.199	17278	\$ 793,117	\$ 131,361
1-Dec-20	36	\$ 20,000	1.061	1.000	\$ 21,218	46	1.375	14679	\$ 633,287	\$ 192,789
1-Dec-21	24	\$ -	1.030	1.000	\$ -	55	1.797	13003	\$ 696,861	\$ 309,096
1-Dec-22	12	\$ -	1.000	1.000	\$ -	37	3.087	12428	\$ 464,292	\$ 313,887
Total		\$ 10,001,000			\$ 12,480,178	522			\$ 12,075,890	\$ 11,427,147

Column (3) : supplied by Cook County, Illinois  
 Column (4) : Aon Indices appropriate for coverage (Medical Malpractice - Cermak Health Services)  
 Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period  
 Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.  
 Column (8) : from Exhibit 9  
 Columns (9) and (10) : Quantities used in Cape Cod  
 Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Medical Malpractice - Cermak Health Services**

**Medical Malpractice - Cermak Health Services Experience @ 11/30/23  
Generalized Cape Cod Paid Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Paid Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Paid Loss	Trended Physician FTEs	Paid LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-11	144	\$ 10,000	1.384	1.000	\$ 13,842	35	1.024	34210	\$ 860,085	\$ 29,832
1-Dec-12	132	\$ -	1.344	1.000	\$ -	35	1.041	40583	\$ 1,050,800	\$ 41,628
1-Dec-13	120	\$ -	1.305	1.000	\$ -	35	1.067	50801	\$ 1,354,852	\$ 84,772
1-Dec-14	108	\$ 6,041,000	1.267	1.000	\$ 7,653,685	41	1.105	65971	\$ 2,155,209	\$ 6,245,574
1-Dec-15	96	\$ 2,930,000	1.230	1.000	\$ 3,604,061	45	1.185	62490	\$ 2,264,263	\$ 3,283,267
1-Dec-16	84	\$ 900,000	1.194	1.000	\$ 1,074,805	46	1.414	53778	\$ 2,058,841	\$ 1,502,952
1-Dec-17	72	\$ -	1.159	1.000	\$ -	52	1.733	45981	\$ 2,057,822	\$ 870,411
1-Dec-18	60	\$ -	1.126	1.000	\$ -	46	3.417	42527	\$ 1,732,183	\$ 1,225,264
1-Dec-19	48	\$ -	1.093	1.000	\$ -	50	8.686	41052	\$ 1,884,417	\$ 1,667,464
1-Dec-20	36	\$ -	1.061	1.000	\$ -	46	42.515	40741	\$ 1,757,611	\$ 1,716,270
1-Dec-21	24	\$ -	1.030	1.000	\$ -	55	4789.666	40735	\$ 2,183,094	\$ 2,182,638
1-Dec-22	12	\$ -	1.000	1.000	\$ -	37	9579.332	40733	\$ 1,521,797	\$ 1,521,639
Total		\$ 9,881,000			\$ 12,346,393	522			\$ 20,880,973	\$ 20,371,710

Column (3) : supplied by Cook County, Illinois  
 Column (4) : Aon Indices appropriate for coverage (Medical Malpractice - Cermak Health Services)  
 Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period  
 Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.  
 Column (8) : from Exhibit 9  
 Columns (9) and (10) : Quantities used in Cape Cod  
 Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Medical Malpractice - Cermak Health Services**

**Medical Malpractice - Cermak Health Services Experience @ 11/30/23  
Frequency & Severity Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Reported Claims	Claim CDF	Ultimate Claims	Severity LDF	Reported Severity	Ultimate Reported Severity	Unreported Claims	Ultimate Unreported Severity	Ultimate Loss
Prior	276	25	1.000	25	1.000	\$ 480,480	\$ 480,480	0	\$ 221,023	\$ 12,012,000
1-Dec-01	264	16	1.000	16	1.000	\$ 62,500	\$ 62,500	0	\$ 192,094	\$ 1,000,000
1-Dec-02	252	10	1.000	10	1.000	\$ 1,900	\$ 1,900	0	\$ 162,528	\$ 19,000
1-Dec-03	240	18	1.000	18	1.000	\$ 164,361	\$ 164,361	0	\$ 143,671	\$ 2,958,500
1-Dec-04	228	16	1.000	16	1.000	\$ 47	\$ 47	0	\$ 121,614	\$ 750
1-Dec-05	216	18	1.000	18	1.000	\$ 55,556	\$ 55,556	0	\$ 112,566	\$ 1,000,000
1-Dec-06	204	13	1.000	13	1.000	\$ 192	\$ 192	0	\$ 110,020	\$ 2,500
1-Dec-07	192	8	1.000	8	1.000	\$ 125,000	\$ 125,000	0	\$ 120,636	\$ 1,000,000
1-Dec-08	180	1	1.000	1	1.001	\$ -	\$ -	0	\$ 134,562	\$ -
1-Dec-09	168	4	1.000	4	1.004	\$ 327,500	\$ 328,779	0	\$ 155,749	\$ 1,315,117
1-Dec-10	156	1	1.000	1	1.009	\$ 3,000	\$ 3,026	0	\$ 172,178	\$ 3,026
1-Dec-11	144	3	1.000	3	1.016	\$ 3,333	\$ 3,387	0	\$ 196,382	\$ 10,162
1-Dec-12	132	7	1.000	7	1.026	\$ -	\$ -	0	\$ 238,430	\$ -
1-Dec-13	120	0	1.000	0	1.036	\$ -	\$ -	0	\$ 335,325	\$ -
1-Dec-14	108	5	1.000	5	1.046	\$ 1,208,200	\$ 1,263,338	0	\$ 466,476	\$ 6,316,690
1-Dec-15	96	3	1.000	3	1.056	\$ 976,667	\$ 1,031,076	0	\$ 516,471	\$ 3,093,229
1-Dec-16	84	1	1.000	1	1.066	\$ 900,000	\$ 959,295	0	\$ 525,511	\$ 959,295
1-Dec-17	72	0	1.000	0	1.084	\$ -	\$ -	0	\$ 509,703	\$ -
1-Dec-18	60	2	1.008	2	1.106	\$ 50,000	\$ 55,313	0	\$ 476,406	\$ 110,626
1-Dec-19	48	0	1.023	0	1.171	\$ -	\$ -	0	\$ 474,904	\$ -
1-Dec-20	36	1	1.066	1	1.291	\$ 20,000	\$ 25,812	0	\$ 462,690	\$ 25,812
1-Dec-21	24	0	1.234	0	1.457	\$ -	\$ -	0	\$ 476,570	\$ -
1-Dec-22	12	0	1.638	0	1.885	\$ -	\$ -	0	\$ 490,868	\$ -
Total		152		152				0		\$ 29,826,707

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (6) : from {Exhibit 3, Column (4)} / Column (4)

Column (7) : from {Exhibit 3, Column (3)} / Column (3)

Column (8) : Column (6) X Column (7)

Column (9) : Column (5) - Column (3)

Column (10) : Weighted Average of Column (8) adjusted for Trend and Retention

Column (11) : Column (3) X Column (8) + Column (9) X Column (10)



**Cook County, Illinois  
Medical Malpractice - Cermak Health Services**

**Medical Malpractice - Cermak Health Services Experience @ 11/30/23  
Incurred Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Incurred Losses	Incurred LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	IBNR Factor	IBNR	Expected Ultimate Loss
1-Dec-11	\$ 40,000,000	\$ 10,000	1.016	16,319	1.000	16,320	\$ 567,924	0.016	\$ 9,078	\$ 19,078
1-Dec-12	Various	\$ -	1.026	16,808	1.000	16,807	\$ 584,896	0.025	\$ 14,794	\$ 14,794
1-Dec-13	\$ 30,000,000	\$ -	1.036	17,313	1.000	17,312	\$ 602,443	0.035	\$ 20,871	\$ 20,871
1-Dec-14	Various	\$ 6,041,000	1.046	17,832	1.000	17,829	\$ 737,960	0.044	\$ 32,208	\$ 6,073,208
1-Dec-15	\$ 25,000,000	\$ 2,930,000	1.056	18,367	1.000	18,364	\$ 818,497	0.053	\$ 43,192	\$ 2,973,192
1-Dec-16	\$ 25,000,000	\$ 900,000	1.066	18,918	1.000	18,915	\$ 864,805	0.062	\$ 53,454	\$ 953,454
1-Dec-17	\$ 25,000,000	\$ -	1.084	19,486	1.000	19,483	\$ 1,010,957	0.077	\$ 77,984	\$ 77,984
1-Dec-18	\$ 25,000,000	\$ 100,000	1.115	20,070	1.000	20,067	\$ 920,080	0.103	\$ 95,085	\$ 195,085
1-Dec-19	Various	\$ -	1.199	20,672	1.000	20,672	\$ 1,036,919	0.166	\$ 171,741	\$ 171,741
1-Dec-20	\$ 35,000,000	\$ 20,000	1.375	21,292	1.000	21,292	\$ 974,525	0.273	\$ 265,895	\$ 285,895
1-Dec-21	\$ 35,000,000	\$ -	1.797	21,931	1.000	21,931	\$ 1,210,601	0.444	\$ 536,968	\$ 536,968
1-Dec-22	\$ 35,000,000	\$ -	3.087	22,589	1.000	22,589	\$ 843,930	0.676	\$ 570,542	\$ 570,542
<b>Total</b>		<b>\$ 10,001,000</b>					<b>\$ 10,173,537</b>		<b>\$ 1,891,813</b>	<b>\$ 11,892,813</b>

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Physician FTEs) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Medical Malpractice - Cermak Health Services**

**Medical Malpractice - Cermak Health Services Experience @ 11/30/23  
Paid Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Paid Losses	Paid LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	Unpaid Factor	Unpaid	Expected Ultimate Loss
1-Dec-11	\$ 40,000,000	\$ 10,000	1.024	16,319	1.000	16,320	\$ 567,924	0.023	\$ 13,095	\$ 23,095
1-Dec-12	Various	\$ -	1.041	16,808	1.000	16,807	\$ 584,896	0.040	\$ 23,171	\$ 23,171
1-Dec-13	\$ 30,000,000	\$ -	1.067	17,313	1.000	17,312	\$ 602,443	0.063	\$ 37,694	\$ 37,694
1-Dec-14	Various	\$ 6,041,000	1.105	17,832	1.000	17,829	\$ 737,960	0.095	\$ 70,048	\$ 6,111,048
1-Dec-15	\$ 25,000,000	\$ 2,930,000	1.185	18,367	1.000	18,364	\$ 818,497	0.156	\$ 127,701	\$ 3,057,701
1-Dec-16	\$ 25,000,000	\$ 900,000	1.414	18,918	1.000	18,915	\$ 864,805	0.293	\$ 253,267	\$ 1,153,267
1-Dec-17	\$ 25,000,000	\$ -	1.733	19,486	1.000	19,483	\$ 1,010,957	0.423	\$ 427,611	\$ 427,611
1-Dec-18	\$ 25,000,000	\$ -	3.417	20,070	1.000	20,067	\$ 920,080	0.707	\$ 650,821	\$ 650,821
1-Dec-19	Various	\$ -	8.686	20,672	1.000	20,672	\$ 1,036,919	0.885	\$ 917,539	\$ 917,539
1-Dec-20	\$ 35,000,000	\$ -	42.515	21,292	1.000	21,292	\$ 974,525	0.976	\$ 951,603	\$ 951,603
1-Dec-21	\$ 35,000,000	\$ -	4789.666	21,931	1.000	21,931	\$ 1,210,601	1.000	\$ 1,210,348	\$ 1,210,348
1-Dec-22	\$ 35,000,000	\$ -	9579.332	22,589	1.000	22,589	\$ 843,930	1.000	\$ 843,842	\$ 843,842
<b>Total</b>		<b>\$ 9,881,000</b>					<b>\$ 10,173,537</b>		<b>\$ 5,526,740</b>	<b>\$ 15,407,740</b>

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Physician FTEs) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Medical Malpractice - Cermak Health Services**

**Medical Malpractice - Cermak Health Services Experience @ 11/30/23  
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred LDF's		(4) Paid LDF's		(6) Claim CDF	(7) Trend Factors		(9) Physician FTEs
	Unlimited	Limited	Unlimited	Limited		Loss	Exposure	
Prior	1.000	1.000	1.000	1.000	1.000	1.916	1.000	-
1-Dec-01	1.000	1.000	1.000	1.000	1.000	1.860	1.000	-
1-Dec-02	1.000	1.000	1.000	1.000	1.000	1.806	1.000	-
1-Dec-03	1.000	1.000	1.000	1.000	1.000	1.754	1.000	33
1-Dec-04	1.000	1.000	1.000	1.000	1.000	1.702	1.000	33
1-Dec-05	1.000	1.000	1.000	1.000	1.000	1.653	1.000	23
1-Dec-06	1.000	1.000	1.000	1.000	1.000	1.605	1.000	14
1-Dec-07	1.000	1.000	1.000	1.000	1.000	1.558	1.000	-
1-Dec-08	1.001	1.001	1.002	1.002	1.000	1.513	1.000	-
1-Dec-09	1.004	1.004	1.006	1.006	1.000	1.469	1.000	-
1-Dec-10	1.009	1.009	1.012	1.012	1.000	1.426	1.000	-
1-Dec-11	1.017	1.016	1.024	1.024	1.000	1.384	1.000	35
1-Dec-12	1.027	1.026	1.043	1.041	1.000	1.344	1.000	35
1-Dec-13	1.037	1.036	1.069	1.067	1.000	1.305	1.000	35
1-Dec-14	1.047	1.046	1.109	1.105	1.000	1.267	1.000	41
1-Dec-15	1.058	1.056	1.192	1.185	1.000	1.230	1.000	45
1-Dec-16	1.069	1.066	1.431	1.414	1.000	1.194	1.000	46
1-Dec-17	1.087	1.084	1.762	1.733	1.000	1.159	1.000	52
1-Dec-18	1.120	1.115	3.512	3.417	1.008	1.126	1.000	46
1-Dec-19	1.203	1.199	8.884	8.686	1.023	1.093	1.000	50
1-Dec-20	1.384	1.375	43.532	42.515	1.066	1.061	1.000	46
1-Dec-21	1.813	1.797	4904.601	4789.666	1.234	1.030	1.000	55
1-Dec-22	3.128	3.087	9809.202	9579.332	1.638	1.000	1.000	37

Methods Included in Analysis :  
Source Used for LDFs :

**Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity  
Company Exclusively**

LDF Annual Decay Rate (Incurred/Paid/Clm Count):  
ELR for B/F Method :  
Generalized Cape Cod Decay Factor:  
Loss Limitation :  
Discount Rates :

**0.75                      0.75                      0.75**  
**23267**  
**0.75**  
**Exhibit 10, Column (5)**  
**4.48%**

**Column (2) : Company Exclusively**  
**Column (3) : Exhibit 13, Sheet 1, Column (15)**  
**Column (4) : Company Exclusively**

**Column (5) : Exhibit 13, Sheet 2, Column (15)**  
**Column (6) : Company Exclusively**  
**Column (7) : Aon Compilation of Estimated Trends**

**Column (8) : Flat 0.00%**  
**Column (9) : supplied by Cook County, Illinois**



**Cook County, Illinois  
Medical Malpractice - Cermak Health Services**

**Medical Malpractice - Cermak Health Services Experience @ 11/30/23  
Limited Loss Calculations**

(1) Policy Period Inception	(2)			(3)	(4)	(5)	(6)			(7)	(8)	(9)	(10)			(11)	(12)
	Unlimited			Case O/S	Retention	No.	Claims valued over the Retention			Incurred	No.	Paid	Limited			Paid	Case O/S
Incurred	Paid		Incurred					Paid	Incurred					Paid	Incurred		
Prior	\$ 12,012,000	\$ 12,012,000		\$ -	Various	-	\$ -		\$ -		\$ -	\$ 12,012,000	\$ 12,012,000		\$ -		
1-Dec-01	\$ 1,000,000	\$ 1,000,000		\$ -	Various	-	\$ -		\$ -		\$ -	\$ 1,000,000	\$ 1,000,000		\$ -		
1-Dec-02	\$ 19,000	\$ 19,000		\$ -	Various	-	\$ -		\$ -		\$ -	\$ 19,000	\$ 19,000		\$ -		
1-Dec-03	\$ 2,958,500	\$ 2,958,500		\$ -	\$ 20,000,000	-	\$ -		\$ -		\$ -	\$ 2,958,500	\$ 2,958,500		\$ -		
1-Dec-04	\$ 750	\$ 750		\$ -	\$ 20,000,000	-	\$ -		\$ -		\$ -	\$ 750	\$ 750		\$ -		
1-Dec-05	\$ 1,000,000	\$ 1,000,000		\$ -	\$ 20,000,000	-	\$ -		\$ -		\$ -	\$ 1,000,000	\$ 1,000,000		\$ -		
1-Dec-06	\$ 2,500	\$ 2,500		\$ -	\$ 20,000,000	-	\$ -		\$ -		\$ -	\$ 2,500	\$ 2,500		\$ -		
1-Dec-07	\$ 1,000,000	\$ 1,000,000		\$ -	\$ 20,000,000	-	\$ -		\$ -		\$ -	\$ 1,000,000	\$ 1,000,000		\$ -		
1-Dec-08	\$ -	\$ -		\$ -	\$ 20,000,000	-	\$ -		\$ -		\$ -	\$ -	\$ -		\$ -		
1-Dec-09	\$ 1,310,000	\$ 1,310,000		\$ -	Various	-	\$ -		\$ -		\$ -	\$ 1,310,000	\$ 1,310,000		\$ -		
1-Dec-10	\$ 3,000	\$ 3,000		\$ -	\$ 40,000,000	-	\$ -		\$ -		\$ -	\$ 3,000	\$ 3,000		\$ -		
1-Dec-11	\$ 10,000	\$ 10,000		\$ -	\$ 40,000,000	-	\$ -		\$ -		\$ -	\$ 10,000	\$ 10,000		\$ -		
1-Dec-12	\$ -	\$ -		\$ -	Various	-	\$ -		\$ -		\$ -	\$ -	\$ -		\$ -		
1-Dec-13	\$ -	\$ -		\$ -	\$ 30,000,000	-	\$ -		\$ -		\$ -	\$ -	\$ -		\$ -		
1-Dec-14	\$ 6,041,000	\$ 6,041,000		\$ -	Various	-	\$ -		\$ -		\$ -	\$ 6,041,000	\$ 6,041,000		\$ -		
1-Dec-15	\$ 2,930,000	\$ 2,930,000		\$ -	\$ 25,000,000	-	\$ -		\$ -		\$ -	\$ 2,930,000	\$ 2,930,000		\$ -		
1-Dec-16	\$ 900,000	\$ 900,000		\$ -	\$ 25,000,000	-	\$ -		\$ -		\$ -	\$ 900,000	\$ 900,000		\$ -		
1-Dec-17	\$ -	\$ -		\$ -	\$ 25,000,000	-	\$ -		\$ -		\$ -	\$ -	\$ -		\$ -		
1-Dec-18	\$ 100,000	\$ -	\$ 100,000	\$ 25,000,000		\$ -	\$ -		\$ -		\$ -	\$ 100,000	\$ -	\$ 100,000			
1-Dec-19	\$ -	\$ -	\$ -	Various		\$ -	\$ -		\$ -		\$ -	\$ -	\$ -	\$ -			
1-Dec-20	\$ 20,000	\$ -	\$ 20,000	\$ 35,000,000		\$ -	\$ -		\$ -		\$ -	\$ 20,000	\$ -	\$ 20,000			
1-Dec-21	\$ -	\$ -	\$ -	\$ 35,000,000		\$ -	\$ -		\$ -		\$ -	\$ -	\$ -	\$ -			
1-Dec-22	\$ -	\$ -	\$ -	\$ 35,000,000		\$ -	\$ -		\$ -		\$ -	\$ -	\$ -	\$ -			
	\$ 29,306,750	\$ 29,186,750	\$ 120,000			-	\$ -		\$ -		\$ -	\$ 29,306,750	\$ 29,186,750	\$ 120,000			

Column (2) and Column (3) : Supplied by Cook County, Illinois  
 Column (4) : Column (2) - Column (3)  
 Column (5) : Individual loss limitation

Column (6) through Column (9) : supplied by Cook County, Illinois  
 Column (10) : Column (2) - Column (7) + [Column (5) x Column (6)]  
 Column (11) : Column (3) - Column (9) + [Column (5) x Column (8)]



**Cook County, Illinois  
Medical Malpractice - Cermak Health Services**

**Medical Malpractice - Cermak Health Services Experience @ 11/30/23  
Selected Ultimate Claim Counts**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Policy Period Inception	Trended Physician FTEs	Reported Claims	Claim CDF	Chain-Ladder Developed Claims	Frequency Trend	Trended Developed Claims	Trended Frequency Rate	Bornhuetter-Ferguson Developed	Selected Trended Claims	Selected Untrended Claims	Trended Frequency Rate
1-Dec-11	35	3	1.000	3	1.000	3	8.62069%		3	3	8.62069%
1-Dec-12	35	7	1.000	7	1.000	7	20.11494%		7	7	20.11494%
1-Dec-13	35	0	1.000	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-14	41	5	1.000	5	1.000	5	12.08021%		5	5	12.08021%
1-Dec-15	45	3	1.000	3	1.000	3	6.73098%		3	3	6.73098%
1-Dec-16	46	1	1.000	1	1.000	1	2.18723%		1	1	2.18723%
1-Dec-17	52	0	1.000	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-18	46	2	1.008	2	1.000	2	4.39751%		2	2	4.39751%
1-Dec-19	50	0	1.023	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-20	46	1	1.066	1	1.000	1	2.32816%		1	1	2.32816%
1-Dec-21	55	0	1.234	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-22	37	0	1.638	0	1.000	0	0.00000%		0	0	0.00000%
Total	522	22		22		22	4.22773%		22	22	4.22773%

Column (2) : from Exhibit 4

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : Column (3) x Column (4)

Column (6) : Assumption

Column (7) : Column (5) x Column (6)

Column (8) : Column (7) / Column (2)

Column (9) : Bornhuetter Method = (3) + (1.0 - 1.0/(4)) x 10

Column (10) : Selected Trended Ultimate Claims

Column (11) : Column (10) / Column (6)

Column (12) : Column (10) / Column (2)

<b>Selected Frequency Rate for Renewal Policy Period 1-Dec-23</b>											
<u>Weighted Averages through and including Policy Period 1-Dec-22</u>											
Last 5 Policies	234					3	1.31512%		3		1.31512%
Last 3 Policies	138					1	0.77031%		1		0.77031%
Last 2 Policies	93					0	0.00000%		0		0.00000%
Last 12 Policies	522					22	4.22773%		22		4.22773%
Selected Bornhuetter-Ferguson Frequency Rate											<b>4.22773%</b>
Factor to adjust the Claims / Exposure Trend Rate from Policy Period 1-Dec-22 to Renewal Period 1-Dec-23											1.000
Selected Frequency Rate adjusted to the Renewal Policy Period Level											4.22773%
Physician FTEs for 1-Dec-23											37
Projected Count for 1-Dec-23											2





**Cook County, Illinois**  
**Medical Malpractice - Cermak Health Services**  
**Medical Malpractice - Cermak Health Services Experience @ 11/30/23**  
**Losses Limited to Retentions**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
<b>Policy Period Inception</b>	<b>Incurred Loss</b>	<b>Selected Ultimate Loss</b>	<b>Loss Trend Factor</b>	<b>Retention Adjustment Factor</b>	<b>Trended Ultimate Loss</b>	<b>Physician FTEs</b>	<b>Exposure Trend Factor</b>	<b>Trended Physician FTEs</b>	<b>Trended Loss Rate</b>
1-Dec-11	10,000	10,000	1.426	1.000	14,257	35	1.000	35	407
1-Dec-12	-	-	1.384	1.000	-	35	1.000	35	0
1-Dec-13	-	-	1.344	1.000	-	35	1.000	35	0
1-Dec-14	6,041,000	6,041,000	1.305	1.000	7,883,295	41	1.000	41	192,275
1-Dec-15	2,930,000	3,080,000	1.267	1.000	3,902,226	45	1.000	45	86,716
1-Dec-16	900,000	960,000	1.230	1.000	1,180,853	46	1.000	46	25,671
1-Dec-17	-	240,000	1.194	1.000	286,615	52	1.000	52	5,512
1-Dec-18	100,000	330,000	1.159	1.000	382,617	46	1.000	46	8,318
1-Dec-19	-	340,000	1.126	1.000	382,673	50	1.000	50	7,653
1-Dec-20	20,000	480,000	1.093	1.000	524,509	46	1.000	46	11,402
1-Dec-21	-	690,000	1.061	1.000	732,021	55	1.000	55	13,309
1-Dec-22	-	810,000	1.030	1.000	834,300	37	1.000	37	22,549
<b>All Year Weighted Average</b>									
					16,123,366			523	30,829
					2,856,120			234	12,206
					2,090,830			138	15,151
<b>SELECTED - Based on Shaded PY</b>					7,701,305			331	<b>23,267</b>

Column (1) : from Exhibit 10 Column (10)

Column (2) : from Exhibit 2, Column (10)

Column (3) : Trend Indices appropriate for Medical Malpractice - Cermak Health Services

Column (4) : from Retention Analysis

Column (5) : Column (2) x Column (3) x Column (4)

Column (6) : supplied by Cook County, Illinois

Column (7) : Annual Exposure Trend

Column (8) : Column (6) x Column (7)

Column (9) : Column (5) / Column (8)

Renewal Projections (Losses and Claims developed to Ultimate)					
(10)	(11)	(12)	(13)	(14)	(15)

<b>Policy Period Inception</b>	<b>Retention</b>	<b>Physician FTEs</b>	<b>Claim Count</b>	<b>Loss Rate</b>	<b>Loss Amount</b>
1-Dec-23	35,000,000	37	2	23,267	870,000
1-Dec-24	35,000,000	37	2	24,197	900,000
1-Dec-25	35,000,000	37	2	25,165	940,000

Columns (11) - (15) : Projections. These are preliminary and should be monitored with actuarial updates.



**Cook County, Illinois  
Medical Malpractice - Cermak Health Services**

Average : \$210,866    sigma = 1.954  
CV : 6.67                mu = 10.351

**Limitation of Incurred LDF's for Medical Malpractice - Cermak Health Services**

Evaluation	(1) Incurred LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.000	1.000	10,000,000	2.952	0.999	0.998	0.841	193,116	10,000,000	2.952	0.999	0.998	0.841	193,116	1.000
264	1.000	1.000	15,000,000	3.160	1.206	0.999	0.886	198,696	15,000,000	3.160	1.206	0.999	0.886	198,696	1.000
252	1.000	1.000	20,000,000	3.307	1.353	1.000	0.912	201,748	20,000,000	3.307	1.353	1.000	0.912	201,748	1.000
240	1.000	1.000	20,000,000	3.307	1.353	1.000	0.912	201,748	20,000,000	3.307	1.353	1.000	0.912	201,748	1.000
228	1.000	1.000	20,000,000	3.307	1.353	1.000	0.912	201,748	20,000,000	3.307	1.353	1.000	0.912	201,748	1.000
216	1.000	1.000	20,000,000	3.307	1.353	1.000	0.912	201,748	20,000,000	3.307	1.353	1.000	0.912	201,748	1.000
204	1.000	1.000	20,000,000	3.307	1.353	1.000	0.912	201,748	20,000,000	3.307	1.353	1.000	0.912	201,748	1.000
192	1.000	1.000	20,000,000	3.307	1.353	1.000	0.912	201,748	20,000,000	3.307	1.353	1.000	0.912	201,748	1.000
180	1.001	1.000	20,000,000	3.307	1.353	1.000	0.912	201,748	20,020,000	3.308	1.354	1.000	0.912	201,757	1.001
168	1.004	1.000	40,000,000	3.662	1.708	1.000	0.956	206,639	40,160,120	3.664	1.710	1.000	0.956	206,659	1.004
156	1.009	1.000	40,000,000	3.662	1.708	1.000	0.956	206,639	40,360,921	3.666	1.713	1.000	0.957	206,684	1.009
144	1.017	1.000	40,000,000	3.662	1.708	1.000	0.956	206,639	40,665,928	3.670	1.717	1.000	0.957	206,721	1.016
132	1.027	1.000	30,000,000	3.515	1.561	1.000	0.941	204,976	30,804,440	3.528	1.575	1.000	0.942	205,149	1.026
120	1.037	1.000	30,000,000	3.515	1.561	1.000	0.941	204,976	31,112,485	3.533	1.580	1.000	0.943	205,213	1.036
108	1.047	1.000	25,000,000	3.421	1.468	1.000	0.929	203,666	26,186,341	3.445	1.491	1.000	0.932	204,020	1.046
96	1.058	1.000	25,000,000	3.421	1.468	1.000	0.929	203,666	26,448,205	3.450	1.496	1.000	0.933	204,094	1.056
84	1.069	1.000	25,000,000	3.421	1.468	1.000	0.929	203,666	26,712,687	3.455	1.502	1.000	0.933	204,167	1.066
72	1.087	1.000	25,000,000	3.421	1.468	1.000	0.929	203,666	27,172,938	3.464	1.510	1.000	0.935	204,292	1.084
60	1.120	1.008	25,000,000	3.421	1.468	1.000	0.929	203,666	27,762,415	3.475	1.521	1.000	0.936	204,445	1.115
48	1.203	1.023	35,000,000	3.593	1.640	1.000	0.949	205,924	41,164,960	3.677	1.723	1.000	0.958	206,781	1.199
36	1.384	1.066	35,000,000	3.593	1.640	1.000	0.949	205,924	45,459,824	3.727	1.774	1.000	0.962	207,241	1.375
24	1.813	1.234	35,000,000	3.593	1.640	1.000	0.949	205,924	51,431,592	3.790	1.837	1.000	0.967	207,750	1.797
12	3.128	1.638	35,000,000	3.593	1.640	1.000	0.949	205,924	66,837,809	3.925	1.971	1.000	0.976	208,632	3.087

Column (1) : from Exhibit 9  
 Column (2) : Unlimited claim count development factors  
 Column (3) : Individual loss limitation  
 Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)  
 Columns (10) through (14) : Factors and quantities used in fitting distribution curve  
 Column (15) : Limited loss development factors based on fitted distribution curve



**Cook County, Illinois  
Medical Malpractice - Cermak Health Services**

Average : \$210,866    sigma = 1.954  
CV : 6.67                mu = 10.351

**Limitation of Paid LDF's for Medical Malpractice - Cermak Health Services**

Evaluation	(1) Paid LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.000	1.000	10,000,000	2.952	0.999	0.998	0.841	193,116	10,000,000	2.952	0.999	0.998	0.841	193,116	1.000
264	1.000	1.000	15,000,000	3.160	1.206	0.999	0.886	198,696	15,000,000	3.160	1.206	0.999	0.886	198,696	1.000
252	1.000	1.000	20,000,000	3.307	1.353	1.000	0.912	201,748	20,000,000	3.307	1.353	1.000	0.912	201,748	1.000
240	1.000	1.000	20,000,000	3.307	1.353	1.000	0.912	201,748	20,000,000	3.307	1.353	1.000	0.912	201,748	1.000
228	1.000	1.000	20,000,000	3.307	1.353	1.000	0.912	201,748	20,000,000	3.307	1.353	1.000	0.912	201,748	1.000
216	1.000	1.000	20,000,000	3.307	1.353	1.000	0.912	201,748	20,000,000	3.307	1.353	1.000	0.912	201,748	1.000
204	1.000	1.000	20,000,000	3.307	1.353	1.000	0.912	201,748	20,000,000	3.307	1.353	1.000	0.912	201,748	1.000
192	1.000	1.000	20,000,000	3.307	1.353	1.000	0.912	201,748	20,000,000	3.307	1.353	1.000	0.912	201,748	1.000
180	1.002	1.000	20,000,000	3.307	1.353	1.000	0.912	201,748	20,040,000	3.308	1.354	1.000	0.912	201,767	1.002
168	1.006	1.000	40,000,000	3.662	1.708	1.000	0.956	206,639	40,240,320	3.665	1.711	1.000	0.956	206,669	1.006
156	1.012	1.000	40,000,000	3.662	1.708	1.000	0.956	206,639	40,481,762	3.668	1.714	1.000	0.957	206,699	1.012
144	1.024	1.000	40,000,000	3.662	1.708	1.000	0.956	206,639	40,967,543	3.674	1.720	1.000	0.957	206,758	1.024
132	1.043	1.000	30,000,000	3.515	1.561	1.000	0.941	204,976	31,278,719	3.536	1.582	1.000	0.943	205,247	1.041
120	1.069	1.000	30,000,000	3.515	1.561	1.000	0.941	204,976	32,069,074	3.549	1.595	1.000	0.945	205,404	1.067
108	1.109	1.000	25,000,000	3.421	1.468	1.000	0.929	203,666	27,726,387	3.474	1.521	1.000	0.936	204,436	1.105
96	1.192	1.000	25,000,000	3.421	1.468	1.000	0.929	203,666	29,805,866	3.511	1.558	1.000	0.940	204,933	1.185
84	1.431	1.000	25,000,000	3.421	1.468	1.000	0.929	203,666	35,767,039	3.605	1.651	1.000	0.951	206,047	1.414
72	1.762	1.000	25,000,000	3.421	1.468	1.000	0.929	203,666	44,056,480	3.711	1.758	1.000	0.961	207,100	1.733
60	3.512	1.008	25,000,000	3.421	1.468	1.000	0.929	203,666	87,080,108	4.060	2.106	1.000	0.982	209,295	3.417
48	8.884	1.023	35,000,000	3.593	1.640	1.000	0.949	205,924	303,879,551	4.700	2.746	1.000	0.997	210,626	8.686
36	43.532	1.066	35,000,000	3.593	1.640	1.000	0.949	205,924	1,429,880,567	5.493	3.539	1.000	1.000	210,852	42.515
24	4904.601	1.234	35,000,000	3.593	1.640	1.000	0.949	205,924	139,130,467,968	7.836	5.882	1.000	1.000	210,866	4789.666
12	9809.202	1.638	35,000,000	3.593	1.640	1.000	0.949	205,924	209,630,939,680	8.046	6.092	1.000	1.000	210,866	9579.332

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve



COOK COUNTY, ILLINOIS  
MEDICAL MALPRACTICE - CERMAK HEALTH SERVICES

Calculation of Occupied Bed Equivalents

Policy Period (1)	Inpatients (2)	ER Visits (3)	Urgent Care Visits (4)	Primary Care Visits (5)	Other Visits (6)	Physicians (7)
Prior						
12/1/2001						
12/1/2002						
12/1/2003						33
12/1/2004						33
12/1/2005						23
12/1/2006						14
12/1/2007						
12/1/2008						
12/1/2009						
12/1/2010						
12/1/2011						35
12/1/2012						35
12/1/2013						35
12/1/2014						41
12/1/2015						45
12/1/2016						46
12/1/2017						52
12/1/2018						46
12/1/2019						50
12/1/2020						46
12/1/2021						55
12/1/2022						37
12/1/2023						37

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



**Cook County, Illinois  
Medical Malpractice - Cermak Health Services  
Projected Losses Paid 12/1/2023 to 11/30/2024**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/23	Percent Losses Paid	Months of Development 11/30/24	Percent Losses Paid	Estimated Outstanding Losses 11/30/23	Projected Losses Paid	Estimated Outstanding Losses 11/30/24	Discount Factor	Discounted Outstanding Losses 11/30/24
Prior	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	180	99.8%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	168	99.4%	180	99.8%	\$ -	\$ -	\$ -	0.978	\$ -
1-Dec-10	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.964	\$ -
1-Dec-11	144	97.6%	156	98.8%	\$ -	\$ -	\$ -	0.951	\$ -
1-Dec-12	132	95.9%	144	97.7%	\$ -	\$ -	\$ -	0.944	\$ -
1-Dec-13	120	93.5%	132	96.0%	\$ -	\$ -	\$ -	0.935	\$ -
1-Dec-14	108	90.2%	120	93.8%	\$ -	\$ -	\$ -	0.926	\$ -
1-Dec-15	96	83.9%	108	90.5%	\$ 150,000	\$ 25,938	\$ 124,062	0.918	\$ 113,851
1-Dec-16	84	69.9%	96	84.4%	\$ 60,000	\$ 8,776	\$ 51,224	0.917	\$ 46,996
1-Dec-17	72	56.7%	84	70.7%	\$ 240,000	\$ 47,690	\$ 192,310	0.925	\$ 177,861
1-Dec-18	60	28.5%	72	57.7%	\$ 330,000	\$ 132,669	\$ 197,331	0.914	\$ 180,314
1-Dec-19	48	11.3%	60	29.0%	\$ 340,000	\$ 67,289	\$ 272,711	0.916	\$ 249,829
1-Dec-20	36	2.3%	48	11.5%	\$ 480,000	\$ 45,031	\$ 434,969	0.897	\$ 390,125
1-Dec-21	24	0.0%	36	2.4%	\$ 690,000	\$ 16,089	\$ 673,911	0.870	\$ 586,095
1-Dec-22	12	0.0%	24	0.0%	\$ 810,000	\$ 85	\$ 809,915	0.836	\$ 676,929
1-Dec-23	0	0.0%	12	0.0%	\$ 870,000	\$ 91	\$ 869,909	0.800	\$ 695,912
<b>Total</b>					<b>\$ 3,970,000</b>	<b>\$ 343,659</b>	<b>\$ 3,626,341</b>		<b>\$ 3,117,911</b>

Column (3): 1 / Exhibit 9 Column (3)  
 Column (5): 1 / Rollforward Exhibit Column (54)  
 Column (6): From Executive Summary  
 Column (7): Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)



**Cook County, Illinois  
Medical Malpractice - Cermak Health Services  
Projected Losses Paid 12/1/2024 to 11/30/2025**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/24	Percent Losses Paid	Months of Development 11/30/25	Percent Losses Paid	Estimated Outstanding Losses 11/30/24	Projected Losses Paid	Estimated Outstanding Losses 11/30/25	Discount Factor	Discounted Outstanding Losses 11/30/25
Prior	288	100.0%	300	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	180	99.8%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-10	168	99.4%	180	99.8%	\$ -	\$ -	\$ -	0.978	\$ -
1-Dec-11	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.964	\$ -
1-Dec-12	144	97.7%	156	98.8%	\$ -	\$ -	\$ -	0.951	\$ -
1-Dec-13	132	96.0%	144	97.7%	\$ -	\$ -	\$ -	0.944	\$ -
1-Dec-14	120	93.8%	132	96.1%	\$ -	\$ -	\$ -	0.935	\$ -
1-Dec-15	108	90.5%	120	93.8%	\$ 124,062	\$ 26,179	\$ 97,883	0.926	\$ 90,592
1-Dec-16	96	84.4%	108	90.5%	\$ 51,224	\$ 8,858	\$ 42,366	0.918	\$ 38,879
1-Dec-17	84	70.7%	96	84.4%	\$ 192,310	\$ 28,129	\$ 164,180	0.917	\$ 150,629
1-Dec-18	72	57.7%	84	70.7%	\$ 197,331	\$ 59,766	\$ 137,564	0.925	\$ 127,229
1-Dec-19	60	29.0%	72	57.4%	\$ 272,711	\$ 109,119	\$ 163,592	0.914	\$ 149,485
1-Dec-20	48	11.5%	60	29.0%	\$ 434,969	\$ 86,084	\$ 348,885	0.916	\$ 319,611
1-Dec-21	36	2.4%	48	11.5%	\$ 673,911	\$ 63,223	\$ 610,688	0.897	\$ 547,728
1-Dec-22	24	0.0%	36	2.4%	\$ 809,915	\$ 18,885	\$ 791,030	0.870	\$ 687,952
1-Dec-23	12	0.0%	24	0.0%	\$ 869,909	\$ 91	\$ 869,818	0.836	\$ 726,996
1-Dec-24	0	0.0%	12	0.0%	\$ 900,000	\$ 94	\$ 899,906	0.800	\$ 719,909
<b>Total</b>					<b>\$ 4,526,341</b>	<b>\$ 400,428</b>	<b>\$ 4,125,913</b>		<b>\$ 3,559,011</b>

Column (3): 1 / Rollforward Exhibit Column (54)  
 Column (5): 1 / Rollforward Exhibit 2 Column (54)  
 Column (6): Rollforward Exhibit Column (21) & Projection  
 Column (7): Rollforward Exhibit 2 Column (31) - Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)



**Cook County, Illinois  
Medical Malpractice - Cermak Health Services  
Projected Losses Paid 12/1/2025 to 11/30/2026**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/25	Percent Losses Paid	Months of Development 11/30/26	Percent Losses Paid	Estimated Outstanding Losses 11/30/25	Projected Losses Paid	Estimated Outstanding Losses 11/30/26	Discount Factor	Discounted Outstanding Losses 11/30/26
Prior	300	100.0%	312	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	288	100.0%	300	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-10	180	99.8%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-11	168	99.4%	180	99.8%	\$ -	\$ -	\$ -	0.978	\$ -
1-Dec-12	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.964	\$ -
1-Dec-13	144	97.7%	156	98.8%	\$ -	\$ -	\$ -	0.951	\$ -
1-Dec-14	132	96.1%	144	97.7%	\$ -	\$ -	\$ -	0.944	\$ -
1-Dec-15	120	93.8%	132	96.1%	\$ 97,883	\$ 26,422	\$ 71,461	0.935	\$ 66,818
1-Dec-16	108	90.5%	120	93.8%	\$ 42,366	\$ 8,940	\$ 33,426	0.926	\$ 30,936
1-Dec-17	96	84.4%	108	90.5%	\$ 164,180	\$ 28,390	\$ 135,790	0.918	\$ 124,614
1-Dec-18	84	70.7%	96	84.4%	\$ 137,564	\$ 20,122	\$ 117,443	0.917	\$ 107,749
1-Dec-19	72	57.4%	84	70.5%	\$ 163,592	\$ 35,394	\$ 128,197	0.925	\$ 118,566
1-Dec-20	60	29.0%	72	57.4%	\$ 348,885	\$ 139,599	\$ 209,286	0.914	\$ 191,238
1-Dec-21	48	11.5%	60	29.0%	\$ 610,688	\$ 120,860	\$ 489,828	0.916	\$ 448,728
1-Dec-22	36	2.4%	48	11.5%	\$ 791,030	\$ 74,211	\$ 716,820	0.897	\$ 642,918
1-Dec-23	24	0.0%	36	2.4%	\$ 869,818	\$ 20,282	\$ 849,537	0.870	\$ 738,835
1-Dec-24	12	0.0%	24	0.0%	\$ 899,906	\$ 94	\$ 899,812	0.836	\$ 752,065
1-Dec-25	0	0.0%	12	0.0%	\$ 940,000	\$ 98	\$ 939,902	0.800	\$ 751,905
<b>Total</b>					<b>\$ 5,065,913</b>	<b>\$ 474,411</b>	<b>\$ 4,591,501</b>		<b>\$ 3,974,372</b>

Column (3): 1 / Rollforward Exhibit 2 Column (54)

Column (5): 1 / Rollforward Exhibit 3 Column (54)

Column (6): Rollforward Exhibit 2 Column (21) & Projection

Column (7): Rollforward Exhibit 3 Column (31) - Rollforward Exhibit 2 Column (31)

Column (8): Column (6) - Column (7)

Column (9): Based on Column (3) and 4.48% Interest Rate

Column (10): Column (8) x Column (9)



**Cook County, Illinois**  
**Medical Malpractice - Cermak Health Services**  
**Large Claims**

All Claims greater than or equal to \$1,000,000

(1)	(2)	(3)	(4)	(5)
<u>Policy</u> <u>Period</u>	<u>Loss</u> <u>Date</u>	<u>Incurred</u> <u>Loss</u>	<u>Paid</u> <u>Loss</u>	<u>Case</u> <u>Reserves</u>
Prior	10/29/1996	8,000,000	8,000,000	-
Prior	8/14/2000	1,350,000	1,350,000	-
12/1/2001	8/21/2002	1,000,000	1,000,000	-
12/1/2003	1/5/2004	2,500,000	2,500,000	-
12/1/2005	9/3/2006	1,000,000	1,000,000	-
12/1/2007	12/21/2007	1,000,000	1,000,000	-
12/1/2009	12/19/2009	1,000,000	1,000,000	-
12/1/2014	1/26/2015	6,000,000	6,000,000	-
12/1/2015	12/1/2015	1,950,000	1,950,000	-





**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital Experience @ 11/30/23  
Losses Limited to Retentions**

Policy Period	Occupied Bed Equivalents (1)	Retention (2)	Reported Claims (3)	Open Claims (3a)	Incurred (4)	Paid (5)	Case (6)	Est IBNR (7)	Total O/S (8)	Ultimate (9)	Ultimate Loss Rate (10)
							[(6)-(5)]		[(6)+(7)]	[(4)+(7)]	[(9)/(1)]

**Historical Experience**

Prior	-	Various	436	-	259,882,357	259,882,357	-	-	-	259,882,357	
1-Dec-01	2,090	Various	90	-	23,647,540	23,647,540	-	-	-	23,647,540	11,315
1-Dec-02	2,039	Various	87	-	4,268,645	4,268,645	-	-	-	4,268,645	2,093
1-Dec-03	2,060	20,000,000	129	-	8,377,500	8,377,500	-	-	-	8,377,500	4,066
1-Dec-04	2,032	20,000,000	92	-	33,606,850	33,606,850	-	-	-	33,606,850	16,538
1-Dec-05	1,961	20,000,000	74	-	23,325,000	23,325,000	-	-	-	23,325,000	11,895
1-Dec-06	1,829	20,000,000	57	1	4,850,000	4,750,000	100,000	10,000	110,000	4,860,000	2,657
1-Dec-07	1,864	20,000,000	40	-	7,002,000	7,002,000	-	-	-	7,002,000	3,757
1-Dec-08	1,949	20,000,000	43	-	8,392,500	8,392,500	-	-	-	8,392,500	4,305
1-Dec-09	1,807	Various	42	-	9,092,500	9,092,500	-	-	-	9,092,500	5,033
1-Dec-10	1,814	40,000,000	58	1	10,815,000	10,715,000	100,000	185,000	285,000	11,000,000	6,064
1-Dec-11	1,814	40,000,000	52	4	40,368,999	36,018,999	4,350,000	581,001	4,931,001	40,950,000	22,576
1-Dec-12	1,840	Various	54	3	60,340,000	60,140,000	200,000	160,000	360,000	60,500,000	32,882
1-Dec-13	1,840	30,000,000	39	2	1,775,000	1,625,000	150,000	425,000	575,000	2,200,000	1,196
1-Dec-14	1,728	Various	42	-	23,890,000	23,890,000	-	1,210,000	1,210,000	25,100,000	14,528
1-Dec-15	1,787	25,000,000	52	8	10,617,500	5,237,500	5,380,000	1,682,500	7,062,500	12,300,000	6,883
1-Dec-16	1,779	25,000,000	20	1	6,194,000	4,694,000	1,500,000	1,306,000	2,806,000	7,500,000	4,216
1-Dec-17	1,774	25,000,000	40	7	36,335,000	30,835,000	5,500,000	1,765,000	7,265,000	38,100,000	21,476
1-Dec-18	1,638	25,000,000	40	5	12,470,000	9,820,000	2,650,000	3,530,000	6,180,000	16,000,000	9,767
1-Dec-19	1,566	Various	27	5	29,692,500	14,442,500	15,250,000	5,307,500	20,557,500	35,000,000	22,346
1-Dec-20	1,701	35,000,000	21	4	12,999,000	1,999,000	11,000,000	8,001,000	19,001,000	21,000,000	12,342
1-Dec-21	1,713	35,000,000	23	4	29,500,000	-	29,500,000	11,500,000	41,000,000	41,000,000	23,929
1-Dec-22	1,733	35,000,000	9	-	-	-	-	22,000,000	22,000,000	22,000,000	12,694
<b>Total</b>	<b>40,360</b>		<b>1,567</b>	<b>45</b>	<b>657,441,891</b>	<b>581,761,891</b>	<b>75,680,000</b>	<b>57,663,001</b>	<b>133,343,001</b>	<b>715,104,892</b>	<b>11,279</b>

**Full Policy Period Projections**

1-Dec-23	1,733	35,000,000								27,600,000	15,902
1-Dec-24	1,733	35,000,000								28,700,000	16,539



**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital**

**Medical Malpractice - John H. Stroger, Jr. Hospital Experience @ 11/30/23  
Summary of Various Reserving Methods  
Losses Limited to Retentions**

(1) Policy Period Inception	(2) Chain Ladder			(5) Bornhuetter-Ferguson		(8) Generalized Cape Cod		(9) Freq/Sev	(10) Selected Ultimate
	Incurred	Paid	Outstanding	Incurred	Paid	Incurred	Paid		
Prior	\$ 259,882,357	\$ 259,882,357	\$ 259,882,357	N/A	N/A	N/A	N/A	\$ 259,882,357	\$ 259,882,357
1-Dec-01	\$ 23,647,540	\$ 23,647,540	\$ 23,647,540	\$ 23,647,540	\$ 23,647,540	\$ 23,647,540	\$ 23,647,540	\$ 23,647,540	\$ 23,647,540
1-Dec-02	\$ 4,268,645	\$ 4,268,645	\$ 4,268,645	\$ 4,268,645	\$ 4,268,645	\$ 4,268,645	\$ 4,268,645	\$ 4,268,645	\$ 4,268,645
1-Dec-03	\$ 8,377,500	\$ 8,377,500	\$ 8,377,500	\$ 8,377,500	\$ 8,377,500	\$ 8,377,500	\$ 8,377,500	\$ 8,377,500	\$ 8,377,500
1-Dec-04	\$ 33,606,850	\$ 33,606,850	\$ 33,606,850	\$ 33,606,850	\$ 33,606,850	\$ 33,606,850	\$ 33,606,850	\$ 33,606,850	\$ 33,606,850
1-Dec-05	\$ 23,325,000	\$ 23,325,000	\$ 23,325,000	\$ 23,325,000	\$ 23,325,000	\$ 23,325,000	\$ 23,325,000	\$ 23,325,000	\$ 23,325,000
1-Dec-06	\$ 4,850,000	\$ 4,750,000	\$ 4,850,000	\$ 4,850,000	\$ 4,750,000	\$ 4,850,000	\$ 4,750,000	\$ 4,850,000	\$ 4,860,000
1-Dec-07	\$ 7,002,000	\$ 7,002,000	\$ 7,002,000	\$ 7,002,000	\$ 7,002,000	\$ 7,002,000	\$ 7,002,000	\$ 7,002,000	\$ 7,002,000
1-Dec-08	\$ 8,400,180	\$ 8,407,860	\$ 8,392,500	\$ 8,409,784	\$ 8,427,036	\$ 8,407,051	\$ 8,421,184	\$ 8,400,180	\$ 8,392,500
1-Dec-09	\$ 9,127,117	\$ 9,144,456	\$ 9,092,500	\$ 9,164,987	\$ 9,201,087	\$ 9,157,219	\$ 9,188,019	\$ 9,127,117	\$ 9,092,500
1-Dec-10	\$ 10,907,810	\$ 10,837,738	\$ 11,117,102	\$ 10,983,172	\$ 10,938,839	\$ 10,979,910	\$ 10,931,500	\$ 10,907,810	\$ 11,000,000
1-Dec-11	\$ 41,008,183	\$ 36,847,601	\$ 50,194,680	\$ 40,686,311	\$ 36,476,790	\$ 40,720,535	\$ 36,521,920	\$ 41,008,183	\$ 40,950,000
1-Dec-12	\$ 61,857,236	\$ 62,543,613	\$ 60,692,846	\$ 60,856,340	\$ 60,949,013	\$ 60,937,734	\$ 61,086,644	\$ 61,857,236	\$ 60,500,000
1-Dec-13	\$ 1,836,720	\$ 1,730,078	\$ 1,960,776	\$ 2,503,611	\$ 2,941,909	\$ 2,537,188	\$ 3,026,787	\$ 1,836,720	\$ 2,200,000
1-Dec-14	\$ 24,942,000	\$ 26,306,861	\$ 23,890,000	\$ 24,759,601	\$ 25,784,169	\$ 24,775,699	\$ 25,879,194	\$ 24,942,000	\$ 25,100,000
1-Dec-15	\$ 11,188,212	\$ 6,171,129	\$ 13,354,189	\$ 11,737,952	\$ 8,560,626	\$ 11,706,365	\$ 8,589,659	\$ 11,188,212	\$ 12,300,000
1-Dec-16	\$ 6,587,721	\$ 6,567,004	\$ 6,591,647	\$ 7,540,103	\$ 11,117,862	\$ 7,494,253	\$ 11,396,717	\$ 6,587,721	\$ 7,500,000
1-Dec-17	\$ 39,265,015	\$ 52,593,827	\$ 37,545,342	\$ 38,061,376	\$ 40,406,324	\$ 38,109,372	\$ 42,130,426	\$ 39,265,015	\$ 38,100,000
1-Dec-18	\$ 13,859,979	\$ 32,626,683	\$ 12,913,873	\$ 14,676,592	\$ 25,200,332	\$ 14,735,633	\$ 29,055,256	\$ 13,748,205	\$ 16,000,000
1-Dec-19	\$ 35,439,134	\$ 122,057,465	\$ 33,129,327	\$ 33,293,033	\$ 34,019,433	\$ 33,539,207	\$ 40,837,643	\$ 35,381,529	\$ 35,000,000
1-Dec-20	\$ 17,761,318	\$ 82,502,505	\$ 17,166,949	\$ 19,660,368	\$ 26,240,967	\$ 20,081,471	\$ 34,981,797	\$ 17,472,338	\$ 21,000,000
1-Dec-21	\$ 52,534,039	\$ -	\$ 52,542,866	\$ 40,798,689	\$ 25,763,527	\$ 41,923,470	\$ 35,049,367	\$ 46,980,267	\$ 41,000,000
1-Dec-22	\$ -	\$ -	\$ -	\$ 18,027,939	\$ 26,844,494	\$ 18,754,975	\$ 36,518,102	\$ 5,305,720	\$ 22,000,000
Total	\$ 699,674,556	\$ 823,196,713	\$ 703,544,489	\$ 446,237,395	\$ 457,849,945	\$ 448,937,620	\$ 498,591,749	\$ 698,968,145	\$ 715,104,892

Column (2) : from Exhibit 3, Column (5)  
 Column (3) : from Exhibit 3, Column (8)  
 Column (4) : from Exhibit 3, Column (11)

Column (5) : from Exhibit 7, Column (11)  
 Column (6) : from Exhibit 8, Column (11)  
 Column (7) : from Exhibit 4, Column (11)  
 Column (8) : from Exhibit 5, Column (11)

Column (9) : from Exhibit 6, Column (11)  
 Column (10) : Ultimate



**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital**

**Medical Malpractice - John H. Stroger, Jr. Hospital Experience @ 11/30/23  
Unpaid Liabilities at Various Discount Rates  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.48%
Prior	276	Various	\$ 259,882,357	\$ 259,882,357	\$ 259,882,357	\$ -	\$ -	\$ -	\$ -
1-Dec-01	264	Various	\$ 23,647,540	\$ 23,647,540	\$ 23,647,540	\$ -	\$ -	\$ -	\$ -
1-Dec-02	252	Various	\$ 4,268,645	\$ 4,268,645	\$ 4,268,645	\$ -	\$ -	\$ -	\$ -
1-Dec-03	240	\$ 20,000,000	\$ 8,377,500	\$ 8,377,500	\$ 8,377,500	\$ -	\$ -	\$ -	\$ -
1-Dec-04	228	\$ 20,000,000	\$ 33,606,850	\$ 33,606,850	\$ 33,606,850	\$ -	\$ -	\$ -	\$ -
1-Dec-05	216	\$ 20,000,000	\$ 23,325,000	\$ 23,325,000	\$ 23,325,000	\$ -	\$ -	\$ -	\$ -
1-Dec-06	204	\$ 20,000,000	\$ 4,860,000	\$ 4,850,000	\$ 4,750,000	\$ 100,000	\$ 10,000	\$ 110,000	\$ 110,000
1-Dec-07	192	\$ 20,000,000	\$ 7,002,000	\$ 7,002,000	\$ 7,002,000	\$ -	\$ -	\$ -	\$ -
1-Dec-08	180	\$ 20,000,000	\$ 8,392,500	\$ 8,392,500	\$ 8,392,500	\$ -	\$ -	\$ -	\$ -
1-Dec-09	168	Various	\$ 9,092,500	\$ 9,092,500	\$ 9,092,500	\$ -	\$ -	\$ -	\$ -
1-Dec-10	156	\$ 40,000,000	\$ 11,000,000	\$ 10,815,000	\$ 10,715,000	\$ 100,000	\$ 185,000	\$ 285,000	\$ 270,907
1-Dec-11	144	\$ 40,000,000	\$ 40,950,000	\$ 40,368,999	\$ 36,018,999	\$ 4,350,000	\$ 581,001	\$ 4,931,001	\$ 4,653,939
1-Dec-12	132	Various	\$ 60,500,000	\$ 60,340,000	\$ 60,140,000	\$ 200,000	\$ 160,000	\$ 360,000	\$ 336,617
1-Dec-13	120	\$ 30,000,000	\$ 2,200,000	\$ 1,775,000	\$ 1,625,000	\$ 150,000	\$ 425,000	\$ 575,000	\$ 532,199
1-Dec-14	108	Various	\$ 25,100,000	\$ 23,890,000	\$ 23,890,000	\$ -	\$ 1,210,000	\$ 1,210,000	\$ 1,110,505
1-Dec-15	96	\$ 25,000,000	\$ 12,300,000	\$ 10,617,500	\$ 5,237,500	\$ 5,380,000	\$ 1,682,500	\$ 7,062,500	\$ 6,480,553
1-Dec-16	84	\$ 25,000,000	\$ 7,500,000	\$ 6,194,000	\$ 4,694,000	\$ 1,500,000	\$ 1,306,000	\$ 2,806,000	\$ 2,595,910
1-Dec-17	72	\$ 25,000,000	\$ 38,100,000	\$ 36,335,000	\$ 30,835,000	\$ 5,500,000	\$ 1,765,000	\$ 7,265,000	\$ 6,641,404
1-Dec-18	60	\$ 25,000,000	\$ 16,000,000	\$ 12,470,000	\$ 9,820,000	\$ 2,650,000	\$ 3,530,000	\$ 6,180,000	\$ 5,666,009
1-Dec-19	48	Various	\$ 35,000,000	\$ 29,692,500	\$ 14,442,500	\$ 15,250,000	\$ 5,307,500	\$ 20,557,500	\$ 18,458,660
1-Dec-20	36	\$ 35,000,000	\$ 21,000,000	\$ 12,999,000	\$ 1,999,000	\$ 11,000,000	\$ 8,001,000	\$ 19,001,000	\$ 16,547,414
1-Dec-21	24	\$ 35,000,000	\$ 41,000,000	\$ 29,500,000	\$ -	\$ 29,500,000	\$ 11,500,000	\$ 41,000,000	\$ 34,317,270
1-Dec-22	12	\$ 35,000,000	\$ 22,000,000	\$ -	\$ -	\$ -	\$ 22,000,000	\$ 22,000,000	\$ 17,624,984
<b>Total</b>			<b>\$ 715,104,892</b>	<b>\$ 657,441,891</b>	<b>\$ 581,761,891</b>	<b>\$ 75,680,000</b>	<b>\$ 57,663,001</b>	<b>\$ 133,343,001</b>	<b>\$ 115,346,370</b>

Column (4) : from Exhibit 1, Column (10)  
Columns (5), (6), (7) : Exhibit 10

Column (8) : Column (4) - Column (5)  
Column (9) : Column (4) - Column (6)  
Column (9) : Column (10) discounted



**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital**

**Medical Malpractice - John H. Stroger, Jr. Hospital Experience @ 11/30/23  
Incurred, Paid, & Outstanding "Chain Ladder" Methods  
Losses Limited to Retentions**

(1)	(2)	(3)			(6)			(9)		
Policy Period Inception	Evaluation in Months	Incurred Chain-Ladder			Paid Chain-Ladder			Outstanding Chain-Ladder		
		Incurred Loss	Incurred LDF	Ultimate Loss	Paid Loss	Paid LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss
Prior	276	\$ 259,882,357	1.000	\$ 259,882,357	\$ 259,882,357	1.000	\$ 259,882,357	\$ -	1.000	\$ 259,882,357
1-Dec-01	264	\$ 23,647,540	1.000	\$ 23,647,540	\$ 23,647,540	1.000	\$ 23,647,540	\$ -	1.000	\$ 23,647,540
1-Dec-02	252	\$ 4,268,645	1.000	\$ 4,268,645	\$ 4,268,645	1.000	\$ 4,268,645	\$ -	1.000	\$ 4,268,645
1-Dec-03	240	\$ 8,377,500	1.000	\$ 8,377,500	\$ 8,377,500	1.000	\$ 8,377,500	\$ -	1.000	\$ 8,377,500
1-Dec-04	228	\$ 33,606,850	1.000	\$ 33,606,850	\$ 33,606,850	1.000	\$ 33,606,850	\$ -	1.000	\$ 33,606,850
1-Dec-05	216	\$ 23,325,000	1.000	\$ 23,325,000	\$ 23,325,000	1.000	\$ 23,325,000	\$ -	1.000	\$ 23,325,000
1-Dec-06	204	\$ 4,850,000	1.000	\$ 4,850,000	\$ 4,750,000	1.000	\$ 4,750,000	\$ 100,000	1.000	\$ 4,850,000
1-Dec-07	192	\$ 7,002,000	1.000	\$ 7,002,000	\$ 7,002,000	1.000	\$ 7,002,000	\$ -	1.000	\$ 7,002,000
1-Dec-08	180	\$ 8,392,500	1.001	\$ 8,400,180	\$ 8,392,500	1.002	\$ 8,407,860	\$ -	2.002	\$ 8,392,500
1-Dec-09	168	\$ 9,092,500	1.004	\$ 9,127,117	\$ 9,092,500	1.006	\$ 9,144,456	\$ -	3.008	\$ 9,092,500
1-Dec-10	156	\$ 10,815,000	1.009	\$ 10,907,810	\$ 10,715,000	1.011	\$ 10,837,738	\$ 100,000	4.021	\$ 11,117,102
1-Dec-11	144	\$ 40,368,999	1.016	\$ 41,008,183	\$ 36,018,999	1.023	\$ 36,847,601	\$ 4,350,000	3.259	\$ 50,194,680
1-Dec-12	132	\$ 60,340,000	1.025	\$ 61,857,236	\$ 60,140,000	1.040	\$ 62,543,613	\$ 200,000	2.764	\$ 60,692,846
1-Dec-13	120	\$ 1,775,000	1.035	\$ 1,836,720	\$ 1,625,000	1.065	\$ 1,730,078	\$ 150,000	2.239	\$ 1,960,776
1-Dec-14	108	\$ 23,890,000	1.044	\$ 24,942,000	\$ 23,890,000	1.101	\$ 26,306,861	\$ -	1.849	\$ 23,890,000
1-Dec-15	96	\$ 10,617,500	1.054	\$ 11,188,212	\$ 5,237,500	1.178	\$ 6,171,129	\$ 5,380,000	1.509	\$ 13,354,189
1-Dec-16	84	\$ 6,194,000	1.064	\$ 6,587,721	\$ 4,694,000	1.399	\$ 6,567,004	\$ 1,500,000	1.265	\$ 6,591,647
1-Dec-17	72	\$ 36,335,000	1.081	\$ 39,265,015	\$ 30,835,000	1.706	\$ 52,593,827	\$ 5,500,000	1.220	\$ 37,545,342
1-Dec-18	60	\$ 12,470,000	1.111	\$ 13,859,979	\$ 9,820,000	3.322	\$ 32,626,683	\$ 2,650,000	1.167	\$ 12,913,873
1-Dec-19	48	\$ 29,692,500	1.194	\$ 35,439,134	\$ 14,442,500	8.451	\$ 122,057,465	\$ 15,250,000	1.225	\$ 33,129,327
1-Dec-20	36	\$ 12,999,000	1.366	\$ 17,761,318	\$ 1,999,000	41.272	\$ 82,502,505	\$ 11,000,000	1.379	\$ 17,166,949
1-Dec-21	24	\$ 29,500,000	1.781	\$ 52,534,039	\$ -	4648.622	\$ -	\$ 29,500,000	1.781	\$ 52,542,866
1-Dec-22	12	\$ -	3.044	\$ -	\$ -	9297.244	\$ -	\$ -	3.045	\$ -
<b>Total</b>		<b>\$ 657,441,891</b>		<b>\$ 699,674,556</b>	<b>\$ 581,761,891</b>		<b>\$ 823,196,713</b>	<b>\$ 75,680,000</b>		<b>\$ 703,544,489</b>

Columns (3), (6), (9) : Exhibit 10

Column (4) & (7) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (8) : Column (6) X Column (7)

Column (10) : Outstanding LDF = (Incurred LDF - 1) X Paid LDF / (Paid LDF - Incurred LDF) + 1

Column (11) : Column (9) X Column (10) + Column (6)



**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital**

**Medical Malpractice - John H. Stroger, Jr. Hospital Experience @ 11/30/23  
Generalized Cape Cod Incurred Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Incurred Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Incurred Loss	Trended Occupied Bed Equivalents	Incurred LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 23,647,540	1.860	1.117	\$ 49,149,423	2,090	1.000	14969	\$ 15,051,776	\$ 23,647,540
1-Dec-02	252	\$ 4,268,645	1.806	1.056	\$ 8,141,650	2,039	1.000	13860	\$ 14,820,589	\$ 4,268,645
1-Dec-03	240	\$ 8,377,500	1.754	1.056	\$ 15,513,135	2,060	1.000	14139	\$ 15,732,088	\$ 8,377,500
1-Dec-04	228	\$ 33,606,850	1.702	1.056	\$ 60,419,305	2,032	1.000	15089	\$ 17,054,991	\$ 33,606,850
1-Dec-05	216	\$ 23,325,000	1.653	1.056	\$ 40,712,929	1,961	1.000	14444	\$ 16,227,478	\$ 23,325,000
1-Dec-06	204	\$ 4,850,000	1.605	1.056	\$ 8,218,929	1,829	1.000	13228	\$ 14,280,045	\$ 4,850,000
1-Dec-07	192	\$ 7,002,000	1.558	1.056	\$ 11,520,156	1,864	1.000	12831	\$ 14,536,710	\$ 7,002,000
1-Dec-08	180	\$ 8,392,500	1.513	1.056	\$ 13,405,727	1,949	1.001	13042	\$ 15,915,610	\$ 8,407,051
1-Dec-09	168	\$ 9,092,500	1.469	0.997	\$ 13,314,124	1,807	1.004	13831	\$ 17,063,597	\$ 9,157,219
1-Dec-10	156	\$ 10,815,000	1.426	0.997	\$ 15,375,123	1,814	1.009	15190	\$ 19,381,569	\$ 10,979,910
1-Dec-11	144	\$ 40,368,999	1.384	0.997	\$ 55,718,938	1,814	1.016	17161	\$ 22,553,498	\$ 40,720,535
1-Dec-12	132	\$ 60,340,000	1.344	1.007	\$ 81,694,897	1,840	1.025	17933	\$ 24,369,451	\$ 60,937,734
1-Dec-13	120	\$ 1,775,000	1.305	1.007	\$ 2,333,193	1,840	1.035	16205	\$ 22,681,790	\$ 2,537,188
1-Dec-14	108	\$ 23,890,000	1.267	1.025	\$ 31,010,406	1,728	1.044	15777	\$ 20,999,162	\$ 24,775,699
1-Dec-15	96	\$ 10,617,500	1.230	1.025	\$ 13,380,623	1,787	1.054	15054	\$ 21,346,073	\$ 11,706,365
1-Dec-16	84	\$ 6,194,000	1.194	1.025	\$ 7,578,584	1,779	1.064	14963	\$ 21,755,764	\$ 7,494,253
1-Dec-17	72	\$ 36,335,000	1.159	1.025	\$ 43,162,321	1,774	1.081	15921	\$ 23,778,289	\$ 38,109,372
1-Dec-18	60	\$ 12,470,000	1.126	1.025	\$ 14,381,655	1,638	1.111	15905	\$ 22,591,448	\$ 14,735,633
1-Dec-19	48	\$ 29,692,500	1.093	1.000	\$ 32,445,796	1,566	1.194	16550	\$ 23,722,402	\$ 33,539,207
1-Dec-20	36	\$ 12,999,000	1.061	1.000	\$ 13,790,639	1,701	1.366	16470	\$ 26,414,452	\$ 20,081,471
1-Dec-21	24	\$ 29,500,000	1.030	1.000	\$ 30,385,000	1,713	1.781	17033	\$ 28,334,373	\$ 41,923,470
1-Dec-22	12	\$ -	1.000	1.000	\$ -	1,733	3.044	16115	\$ 27,930,091	\$ 18,754,975
Total		\$ 397,559,534			\$ 561,652,553	40,360			\$ 446,541,248	\$ 448,937,620

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (Medical Malpractice - John H. Stroger, Jr. Hospital)

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital**

**Medical Malpractice - John H. Stroger, Jr. Hospital Experience @ 11/30/23  
Generalized Cape Cod Paid Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Paid Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Paid Loss	Trended Occupied Bed Equivalents	Paid LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 23,647,540	1.860	1.117	\$ 49,149,423	2,090	1.000	14941	\$ 15,023,988	\$ 23,647,540
1-Dec-02	252	\$ 4,268,645	1.806	1.056	\$ 8,141,650	2,039	1.000	13822	\$ 14,779,715	\$ 4,268,645
1-Dec-03	240	\$ 8,377,500	1.754	1.056	\$ 15,513,135	2,060	1.000	14095	\$ 15,683,267	\$ 8,377,500
1-Dec-04	228	\$ 33,606,850	1.702	1.056	\$ 60,419,305	2,032	1.000	15043	\$ 17,003,081	\$ 33,606,850
1-Dec-05	216	\$ 23,325,000	1.653	1.056	\$ 40,712,929	1,961	1.000	14377	\$ 16,152,285	\$ 23,325,000
1-Dec-06	204	\$ 4,750,000	1.605	1.056	\$ 8,049,466	1,829	1.000	13120	\$ 14,164,474	\$ 4,750,000
1-Dec-07	192	\$ 7,002,000	1.558	1.056	\$ 11,520,156	1,864	1.000	12690	\$ 14,376,661	\$ 7,002,000
1-Dec-08	180	\$ 8,392,500	1.513	1.056	\$ 13,405,727	1,949	1.002	12866	\$ 15,700,825	\$ 8,421,184
1-Dec-09	168	\$ 9,092,500	1.469	0.997	\$ 13,314,124	1,807	1.006	13626	\$ 16,811,799	\$ 9,188,019
1-Dec-10	156	\$ 10,715,000	1.426	0.997	\$ 15,232,958	1,814	1.011	14983	\$ 19,116,823	\$ 10,931,500
1-Dec-11	144	\$ 36,018,999	1.384	0.997	\$ 49,714,891	1,814	1.023	17018	\$ 22,364,707	\$ 36,521,920
1-Dec-12	132	\$ 60,140,000	1.344	1.007	\$ 81,424,115	1,840	1.040	18126	\$ 24,632,314	\$ 61,086,644
1-Dec-13	120	\$ 1,625,000	1.305	1.007	\$ 2,136,022	1,840	1.065	16489	\$ 23,080,075	\$ 3,026,787
1-Dec-14	108	\$ 23,890,000	1.267	1.025	\$ 31,010,406	1,728	1.101	16268	\$ 21,651,821	\$ 25,879,194
1-Dec-15	96	\$ 5,237,500	1.230	1.025	\$ 6,600,519	1,787	1.178	15626	\$ 22,157,205	\$ 8,589,659
1-Dec-16	84	\$ 4,694,000	1.194	1.025	\$ 5,743,279	1,779	1.399	16163	\$ 23,500,625	\$ 11,396,717
1-Dec-17	72	\$ 30,835,000	1.159	1.025	\$ 36,628,875	1,774	1.706	18281	\$ 27,302,467	\$ 42,130,426
1-Dec-18	60	\$ 9,820,000	1.126	1.025	\$ 11,325,409	1,638	3.322	19373	\$ 27,517,486	\$ 29,055,256
1-Dec-19	48	\$ 14,442,500	1.093	1.000	\$ 15,781,710	1,566	8.451	20886	\$ 29,937,511	\$ 40,837,643
1-Dec-20	36	\$ 1,999,000	1.061	1.000	\$ 2,120,739	1,701	41.272	21076	\$ 33,801,800	\$ 34,981,797
1-Dec-21	24	\$ -	1.030	1.000	\$ -	1,713	4648.622	21074	\$ 35,056,908	\$ 35,049,367
1-Dec-22	12	\$ -	1.000	1.000	\$ -	1,733	9297.244	21073	\$ 36,522,030	\$ 36,518,102
Total		\$ 321,879,534			\$ 477,944,838	40,360			\$ 486,337,865	\$ 498,591,749

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (Medical Malpractice - John H. Stroger, Jr. Hospital)

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital**

**Medical Malpractice - John H. Stroger, Jr. Hospital Experience @ 11/30/23  
Frequency & Severity Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Reported Claims	Claim CDF	Ultimate Claims	Severity LDF	Reported Severity	Ultimate Reported Severity	Unreported Claims	Ultimate Unreported Severity	Ultimate Loss
Prior	276	436	1.000	436	1.000	\$ 596,060	\$ 596,060	0	\$ 433,210	\$ 259,882,357
1-Dec-01	264	90	1.000	90	1.000	\$ 262,750	\$ 262,750	0	\$ 424,235	\$ 23,647,540
1-Dec-02	252	87	1.000	87	1.000	\$ 49,065	\$ 49,065	0	\$ 392,710	\$ 4,268,645
1-Dec-03	240	129	1.000	129	1.000	\$ 64,942	\$ 64,942	0	\$ 356,874	\$ 8,377,500
1-Dec-04	228	92	1.000	92	1.000	\$ 365,292	\$ 365,292	0	\$ 352,449	\$ 33,606,850
1-Dec-05	216	74	1.000	74	1.000	\$ 315,203	\$ 315,203	0	\$ 343,281	\$ 23,325,000
1-Dec-06	204	57	1.000	57	1.000	\$ 85,088	\$ 85,088	0	\$ 331,612	\$ 4,850,000
1-Dec-07	192	40	1.000	40	1.000	\$ 175,050	\$ 175,050	0	\$ 333,651	\$ 7,002,000
1-Dec-08	180	43	1.000	43	1.001	\$ 195,174	\$ 195,353	0	\$ 343,530	\$ 8,400,180
1-Dec-09	168	42	1.000	42	1.004	\$ 216,488	\$ 217,312	0	\$ 385,294	\$ 9,127,117
1-Dec-10	156	58	1.000	58	1.009	\$ 186,466	\$ 188,066	0	\$ 420,481	\$ 10,907,810
1-Dec-11	144	52	1.000	52	1.016	\$ 776,327	\$ 788,619	0	\$ 483,135	\$ 41,008,183
1-Dec-12	132	54	1.000	54	1.025	\$ 1,117,407	\$ 1,145,504	0	\$ 520,909	\$ 61,857,236
1-Dec-13	120	39	1.000	39	1.035	\$ 45,513	\$ 47,095	0	\$ 504,338	\$ 1,836,720
1-Dec-14	108	42	1.000	42	1.044	\$ 568,810	\$ 593,857	0	\$ 509,273	\$ 24,942,000
1-Dec-15	96	52	1.000	52	1.054	\$ 204,183	\$ 215,158	0	\$ 514,990	\$ 11,188,212
1-Dec-16	84	20	1.000	20	1.064	\$ 309,700	\$ 329,386	0	\$ 556,659	\$ 6,587,721
1-Dec-17	72	40	1.000	40	1.081	\$ 908,375	\$ 981,625	0	\$ 618,139	\$ 39,265,015
1-Dec-18	60	40	1.008	40	1.103	\$ 311,750	\$ 343,705	0	\$ 650,660	\$ 13,748,205
1-Dec-19	48	27	1.023	28	1.166	\$ 1,099,722	\$ 1,282,734	1	\$ 747,702	\$ 35,381,529
1-Dec-20	36	21	1.066	22	1.282	\$ 619,000	\$ 793,735	1	\$ 803,904	\$ 17,472,338
1-Dec-21	24	23	1.234	28	1.443	\$ 1,282,609	\$ 1,851,243	5	\$ 880,335	\$ 46,980,267
1-Dec-22	12	9	1.638	15	1.859	\$ -	\$ -	6	\$ 884,287	\$ 5,305,720
<b>Total</b>		<b>1,567</b>		<b>1,580</b>				<b>13</b>		<b>\$ 698,968,145</b>

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (6) : from {Exhibit 3, Column (4)} / Column (4)

Column (7) : from {Exhibit 3, Column (3)} / Column (3)

Column (8) : Column (6) X Column (7)

Column (9) : Column (5) - Column (3)

Column (10) : Weighted Average of Column (8) adjusted for Trend and Retention

Column (11) : Column (3) X Column (8) + Column (9) X Column (10)



**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital**

**Medical Malpractice - John H. Stroger, Jr. Hospital Experience @ 11/30/23  
Incurred Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Incurred Losses	Incurred LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	IBNR Factor	IBNR	Expected Ultimate Loss
1-Dec-01	Various	\$ 23,647,540	1.000	8,327	1.117	7,453	\$ 15,576,888	0.000	\$ -	\$ 23,647,540
1-Dec-02	Various	\$ 4,268,645	1.000	8,577	1.056	8,122	\$ 16,564,119	0.000	\$ -	\$ 4,268,645
1-Dec-03	\$ 20,000,000	\$ 8,377,500	1.000	8,834	1.056	8,365	\$ 17,235,939	0.000	\$ -	\$ 8,377,500
1-Dec-04	\$ 20,000,000	\$ 33,606,850	1.000	9,099	1.056	8,616	\$ 17,509,609	0.000	\$ -	\$ 33,606,850
1-Dec-05	\$ 20,000,000	\$ 23,325,000	1.000	9,372	1.056	8,875	\$ 17,403,005	0.000	\$ -	\$ 23,325,000
1-Dec-06	\$ 20,000,000	\$ 4,850,000	1.000	9,653	1.056	9,141	\$ 16,723,331	0.000	\$ -	\$ 4,850,000
1-Dec-07	\$ 20,000,000	\$ 7,002,000	1.000	9,943	1.056	9,415	\$ 17,549,521	0.000	\$ -	\$ 7,002,000
1-Dec-08	\$ 20,000,000	\$ 8,392,500	1.001	10,241	1.056	9,698	\$ 18,904,488	0.001	\$ 17,284	\$ 8,409,784
1-Dec-09	Various	\$ 9,092,500	1.004	10,548	0.997	10,579	\$ 19,111,866	0.004	\$ 72,487	\$ 9,164,987
1-Dec-10	\$ 40,000,000	\$ 10,815,000	1.009	10,865	0.997	10,896	\$ 19,764,852	0.009	\$ 168,171	\$ 10,983,172
1-Dec-11	\$ 40,000,000	\$ 40,368,999	1.016	11,191	0.997	11,223	\$ 20,357,798	0.016	\$ 317,312	\$ 40,686,311
1-Dec-12	Various	\$ 60,340,000	1.025	11,527	1.007	11,441	\$ 21,051,041	0.025	\$ 516,340	\$ 60,856,340
1-Dec-13	\$ 30,000,000	\$ 1,775,000	1.035	11,872	1.007	11,785	\$ 21,682,573	0.034	\$ 728,611	\$ 2,503,611
1-Dec-14	Various	\$ 23,890,000	1.044	12,229	1.025	11,934	\$ 20,617,498	0.042	\$ 869,601	\$ 24,759,601
1-Dec-15	\$ 25,000,000	\$ 10,617,500	1.054	12,595	1.025	12,292	\$ 21,965,303	0.051	\$ 1,120,452	\$ 11,737,952
1-Dec-16	\$ 25,000,000	\$ 6,194,000	1.064	12,973	1.025	12,661	\$ 22,522,922	0.060	\$ 1,346,103	\$ 7,540,103
1-Dec-17	\$ 25,000,000	\$ 36,335,000	1.081	13,362	1.025	13,040	\$ 23,135,097	0.075	\$ 1,726,376	\$ 38,061,376
1-Dec-18	\$ 25,000,000	\$ 12,470,000	1.111	13,763	1.025	13,432	\$ 22,002,727	0.100	\$ 2,206,592	\$ 14,676,592
1-Dec-19	Various	\$ 29,692,500	1.194	14,176	1.000	14,176	\$ 22,204,262	0.162	\$ 3,600,533	\$ 33,293,033
1-Dec-20	\$ 35,000,000	\$ 12,999,000	1.366	14,601	1.000	14,601	\$ 24,843,925	0.268	\$ 6,661,368	\$ 19,660,368
1-Dec-21	\$ 35,000,000	\$ 29,500,000	1.781	15,040	1.000	15,040	\$ 25,769,070	0.438	\$ 11,298,689	\$ 40,798,689
1-Dec-22	\$ 35,000,000	\$ -	3.044	15,491	1.000	15,491	\$ 26,847,382	0.671	\$ 18,027,939	\$ 18,027,939
Total		\$ 397,559,534					\$ 449,343,216		\$ 48,677,860	\$ 446,237,395

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Occupied Bed Equivalents) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)





**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital**

**Medical Malpractice - John H. Stroger, Jr. Hospital Experience @ 11/30/23  
Paid Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Paid Losses	Paid LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	Unpaid Factor	Unpaid	Expected Ultimate Loss
1-Dec-01	Various	\$ 23,647,540	1.000	8,327	1.117	7,453	\$ 15,576,888	0.000	\$ -	\$ 23,647,540
1-Dec-02	Various	\$ 4,268,645	1.000	8,577	1.056	8,122	\$ 16,564,119	0.000	\$ -	\$ 4,268,645
1-Dec-03	\$ 20,000,000	\$ 8,377,500	1.000	8,834	1.056	8,365	\$ 17,235,939	0.000	\$ -	\$ 8,377,500
1-Dec-04	\$ 20,000,000	\$ 33,606,850	1.000	9,099	1.056	8,616	\$ 17,509,609	0.000	\$ -	\$ 33,606,850
1-Dec-05	\$ 20,000,000	\$ 23,325,000	1.000	9,372	1.056	8,875	\$ 17,403,005	0.000	\$ -	\$ 23,325,000
1-Dec-06	\$ 20,000,000	\$ 4,750,000	1.000	9,653	1.056	9,141	\$ 16,723,331	0.000	\$ -	\$ 4,750,000
1-Dec-07	\$ 20,000,000	\$ 7,002,000	1.000	9,943	1.056	9,415	\$ 17,549,521	0.000	\$ -	\$ 7,002,000
1-Dec-08	\$ 20,000,000	\$ 8,392,500	1.002	10,241	1.056	9,698	\$ 18,904,488	0.002	\$ 34,536	\$ 8,427,036
1-Dec-09	Various	\$ 9,092,500	1.006	10,548	0.997	10,579	\$ 19,111,866	0.006	\$ 108,587	\$ 9,201,087
1-Dec-10	\$ 40,000,000	\$ 10,715,000	1.011	10,865	0.997	10,896	\$ 19,764,852	0.011	\$ 223,839	\$ 10,938,839
1-Dec-11	\$ 40,000,000	\$ 36,018,999	1.023	11,191	0.997	11,223	\$ 20,357,798	0.022	\$ 457,791	\$ 36,476,790
1-Dec-12	Various	\$ 60,140,000	1.040	11,527	1.007	11,441	\$ 21,051,041	0.038	\$ 809,013	\$ 60,949,013
1-Dec-13	\$ 30,000,000	\$ 1,625,000	1.065	11,872	1.007	11,785	\$ 21,682,573	0.061	\$ 1,316,909	\$ 2,941,909
1-Dec-14	Various	\$ 23,890,000	1.101	12,229	1.025	11,934	\$ 20,617,498	0.092	\$ 1,894,169	\$ 25,784,169
1-Dec-15	\$ 25,000,000	\$ 5,237,500	1.178	12,595	1.025	12,292	\$ 21,965,303	0.151	\$ 3,323,126	\$ 8,560,626
1-Dec-16	\$ 25,000,000	\$ 4,694,000	1.399	12,973	1.025	12,661	\$ 22,522,922	0.285	\$ 6,423,862	\$ 11,117,862
1-Dec-17	\$ 25,000,000	\$ 30,835,000	1.706	13,362	1.025	13,040	\$ 23,135,097	0.414	\$ 9,571,324	\$ 40,406,324
1-Dec-18	\$ 25,000,000	\$ 9,820,000	3.322	13,763	1.025	13,432	\$ 22,002,727	0.699	\$ 15,380,332	\$ 25,200,332
1-Dec-19	Various	\$ 14,442,500	8.451	14,176	1.000	14,176	\$ 22,204,262	0.882	\$ 19,576,933	\$ 34,019,433
1-Dec-20	\$ 35,000,000	\$ 1,999,000	41.272	14,601	1.000	14,601	\$ 24,843,925	0.976	\$ 24,241,967	\$ 26,240,967
1-Dec-21	\$ 35,000,000	\$ -	4648.622	15,040	1.000	15,040	\$ 25,769,070	1.000	\$ 25,763,527	\$ 25,763,527
1-Dec-22	\$ 35,000,000	\$ -	9297.244	15,491	1.000	15,491	\$ 26,847,382	1.000	\$ 26,844,494	\$ 26,844,494
Total		\$ 321,879,534					\$ 449,343,216		\$ 135,970,410	\$ 457,849,945

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Occupied Bed Equivalents) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital**

**Medical Malpractice - John H. Stroger, Jr. Hospital Experience @ 11/30/23  
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred LDF's		(3) Paid LDF's		(4) Claim CDF	(5) Trend Factors		(6) Occupied Bed Equivalents
	Unlimited	Limited	Unlimited	Limited		Loss	Exposure	
Prior	1.000	1.000	1.000	1.000	1.000	1.916	1.000	-
1-Dec-01	1.000	1.000	1.000	1.000	1.000	1.860	1.000	2,090
1-Dec-02	1.000	1.000	1.000	1.000	1.000	1.806	1.000	2,039
1-Dec-03	1.000	1.000	1.000	1.000	1.000	1.754	1.000	2,060
1-Dec-04	1.000	1.000	1.000	1.000	1.000	1.702	1.000	2,032
1-Dec-05	1.000	1.000	1.000	1.000	1.000	1.653	1.000	1,961
1-Dec-06	1.000	1.000	1.000	1.000	1.000	1.605	1.000	1,829
1-Dec-07	1.000	1.000	1.000	1.000	1.000	1.558	1.000	1,864
1-Dec-08	1.001	1.001	1.002	1.002	1.000	1.513	1.000	1,949
1-Dec-09	1.004	1.004	1.006	1.006	1.000	1.469	1.000	1,807
1-Dec-10	1.009	1.009	1.012	1.011	1.000	1.426	1.000	1,814
1-Dec-11	1.017	1.016	1.024	1.023	1.000	1.384	1.000	1,814
1-Dec-12	1.027	1.025	1.043	1.040	1.000	1.344	1.000	1,840
1-Dec-13	1.037	1.035	1.069	1.065	1.000	1.305	1.000	1,840
1-Dec-14	1.047	1.044	1.109	1.101	1.000	1.267	1.000	1,728
1-Dec-15	1.058	1.054	1.192	1.178	1.000	1.230	1.000	1,787
1-Dec-16	1.069	1.064	1.431	1.399	1.000	1.194	1.000	1,779
1-Dec-17	1.087	1.081	1.762	1.706	1.000	1.159	1.000	1,774
1-Dec-18	1.120	1.111	3.512	3.322	1.008	1.126	1.000	1,638
1-Dec-19	1.203	1.194	8.884	8.451	1.023	1.093	1.000	1,566
1-Dec-20	1.384	1.366	43.532	41.272	1.066	1.061	1.000	1,701
1-Dec-21	1.813	1.781	4904.601	4648.622	1.234	1.030	1.000	1,713
1-Dec-22	3.128	3.044	9809.202	9297.244	1.638	1.000	1.000	1,733

Methods Included in Analysis :  
Source Used for LDFs :

**Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity  
Company Exclusively**

LDF Annual Decay Rate (Incurred/Paid/Clm Count):  
ELR for B/F Method :  
Generalized Cape Cod Decay Factor:  
Loss Limitation :  
Discount Rates :

**0.75                      0.75                      0.75**  
**15955**  
**0.75**  
**Exhibit 10, Column (5)**  
**4.48%**

**Column (2) : Company Exclusively**  
**Column (3) : Exhibit 13, Sheet 1, Column (15)**  
**Column (4) : Company Exclusively**

**Column (5) : Exhibit 13, Sheet 2, Column (15)**  
**Column (6) : Company Exclusively**  
**Column (7) : Aon Compilation of Estimated Trends**

**Column (8) : Flat 0.00%**  
**Column (9) : supplied by Cook County, Illinois**



**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital**

**Medical Malpractice - John H. Stroger, Jr. Hospital Experience @ 11/30/23  
Limited Loss Calculations**

(1) Policy Period Inception	(2) Unlimited			(4) Case O/S	(5) Retention	(6) Claims valued over the Retention			(10) Limited		
	Incurred	Paid				No.	Incurred	No.	Paid	Incurred	Paid
Prior	\$ 259,882,357	\$ 259,882,357	\$ -	Various	-	\$ -	-	\$ -	\$ 259,882,357	\$ 259,882,357	\$ -
1-Dec-01	\$ 23,647,540	\$ 23,647,540	\$ -	Various	-	\$ -	-	\$ -	\$ 23,647,540	\$ 23,647,540	\$ -
1-Dec-02	\$ 4,268,645	\$ 4,268,645	\$ -	Various	-	\$ -	-	\$ -	\$ 4,268,645	\$ 4,268,645	\$ -
1-Dec-03	\$ 8,377,500	\$ 8,377,500	\$ -	20,000,000	-	\$ -	-	\$ -	\$ 8,377,500	\$ 8,377,500	\$ -
1-Dec-04	\$ 33,606,850	\$ 33,606,850	\$ -	20,000,000	-	\$ -	-	\$ -	\$ 33,606,850	\$ 33,606,850	\$ -
1-Dec-05	\$ 23,325,000	\$ 23,325,000	\$ -	20,000,000	-	\$ -	-	\$ -	\$ 23,325,000	\$ 23,325,000	\$ -
1-Dec-06	\$ 4,850,000	\$ 4,750,000	\$ 100,000	20,000,000	-	\$ -	-	\$ -	\$ 4,850,000	\$ 4,750,000	\$ 100,000
1-Dec-07	\$ 7,002,000	\$ 7,002,000	\$ -	20,000,000	-	\$ -	-	\$ -	\$ 7,002,000	\$ 7,002,000	\$ -
1-Dec-08	\$ 8,392,500	\$ 8,392,500	\$ -	20,000,000	-	\$ -	-	\$ -	\$ 8,392,500	\$ 8,392,500	\$ -
1-Dec-09	\$ 9,092,500	\$ 9,092,500	\$ -	Various	-	\$ -	-	\$ -	\$ 9,092,500	\$ 9,092,500	\$ -
1-Dec-10	\$ 10,815,000	\$ 10,715,000	\$ 100,000	40,000,000	-	\$ -	-	\$ -	\$ 10,815,000	\$ 10,715,000	\$ 100,000
1-Dec-11	\$ 40,368,999	\$ 36,018,999	\$ 4,350,000	40,000,000	-	\$ -	-	\$ -	\$ 40,368,999	\$ 36,018,999	\$ 4,350,000
1-Dec-12	\$ 60,340,000	\$ 60,140,000	\$ 200,000	Various	-	\$ -	-	\$ -	\$ 60,340,000	\$ 60,140,000	\$ 200,000
1-Dec-13	\$ 1,775,000	\$ 1,625,000	\$ 150,000	30,000,000	-	\$ -	-	\$ -	\$ 1,775,000	\$ 1,625,000	\$ 150,000
1-Dec-14	\$ 23,890,000	\$ 23,890,000	\$ -	Various	-	\$ -	-	\$ -	\$ 23,890,000	\$ 23,890,000	\$ -
1-Dec-15	\$ 10,617,500	\$ 5,237,500	\$ 5,380,000	25,000,000	-	\$ -	-	\$ -	\$ 10,617,500	\$ 5,237,500	\$ 5,380,000
1-Dec-16	\$ 6,194,000	\$ 4,694,000	\$ 1,500,000	25,000,000	-	\$ -	-	\$ -	\$ 6,194,000	\$ 4,694,000	\$ 1,500,000
1-Dec-17	\$ 36,335,000	\$ 30,835,000	\$ 5,500,000	25,000,000	-	\$ -	-	\$ -	\$ 36,335,000	\$ 30,835,000	\$ 5,500,000
1-Dec-18	\$ 12,470,000	\$ 9,820,000	\$ 2,650,000	25,000,000	-	\$ -	-	\$ -	\$ 12,470,000	\$ 9,820,000	\$ 2,650,000
1-Dec-19	\$ 29,692,500	\$ 14,442,500	\$ 15,250,000	Various	-	\$ -	-	\$ -	\$ 29,692,500	\$ 14,442,500	\$ 15,250,000
1-Dec-20	\$ 12,999,000	\$ 1,999,000	\$ 11,000,000	35,000,000	-	\$ -	-	\$ -	\$ 12,999,000	\$ 1,999,000	\$ 11,000,000
1-Dec-21	\$ 29,500,000	\$ -	\$ 29,500,000	35,000,000	-	\$ -	-	\$ -	\$ 29,500,000	\$ -	\$ 29,500,000
1-Dec-22	\$ -	\$ -	\$ -	35,000,000	-	\$ -	-	\$ -	\$ -	\$ -	\$ -
	\$ 657,441,891	\$ 581,761,891	\$ 75,680,000		-	\$ -	-	\$ -	\$ 657,441,891	\$ 581,761,891	\$ 75,680,000

Column (2) and Column (3) : Supplied by Cook County, Illinois

Column (4) : Column (2) - Column (3)

Column (5) : Individual loss limitation

Column (6) through Column (9) : supplied by Cook County, Illinois

Column (10) : Column (2) - Column (7) + [Column (5) x Column (6)]

Column (11) : Column (3) - Column (9) + [Column (5) x Column (8)]



**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital**

**Medical Malpractice - John H. Stroger, Jr. Hospital Experience @ 11/30/23  
Selected Ultimate Claim Counts**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Policy Period Inception	Trended Occupied Bed Equivalents	Reported Claims	Claim CDF	Chain-Ladder Developed Claims	Frequency Trend	Trended Developed Claims	Trended Frequency Rate	Bornhuetter-Ferguson Developed	Selected Trended Claims	Selected Untrended Claims	Trended Frequency Rate
1-Dec-01	2,090	90	1.000	90	1.000	90	4.30626%		90	90	4.30626%
1-Dec-02	2,039	87	1.000	87	1.000	87	4.26579%		87	87	4.26579%
1-Dec-03	2,060	129	1.000	129	1.000	129	6.26096%		129	129	6.26096%
1-Dec-04	2,032	92	1.000	92	1.000	92	4.52725%		92	92	4.52725%
1-Dec-05	1,961	74	1.000	74	1.000	74	3.77371%		74	74	3.77371%
1-Dec-06	1,829	57	1.000	57	1.000	57	3.11566%		57	57	3.11566%
1-Dec-07	1,864	40	1.000	40	1.000	40	2.14600%		40	40	2.14600%
1-Dec-08	1,949	43	1.000	43	1.000	43	2.20585%		43	43	2.20585%
1-Dec-09	1,807	42	1.000	42	1.000	42	2.32481%		42	42	2.32481%
1-Dec-10	1,814	58	1.000	58	1.000	58	3.19752%		58	58	3.19752%
1-Dec-11	1,814	52	1.000	52	1.000	52	2.86674%		52	52	2.86674%
1-Dec-12	1,840	54	1.000	54	1.000	54	2.93496%		54	54	2.93496%
1-Dec-13	1,840	39	1.000	39	1.000	39	2.11969%		39	39	2.11969%
1-Dec-14	1,728	42	1.000	42	1.000	42	2.43105%		42	42	2.43105%
1-Dec-15	1,787	52	1.000	52	1.000	52	2.90994%		52	52	2.90994%
1-Dec-16	1,779	20	1.000	20	1.000	20	1.12424%		20	20	1.12424%
1-Dec-17	1,774	40	1.000	40	1.000	40	2.25466%		40	40	2.25466%
1-Dec-18	1,638	40	1.008	40	1.000	40	2.46167%		40	40	2.46167%
1-Dec-19	1,566	27	1.023	28	1.000	28	1.76388%		28	28	1.76388%
1-Dec-20	1,701	21	1.066	22	1.000	22	1.31515%		22	22	1.31515%
1-Dec-21	1,713	23	1.234	28	1.000	28	1.65620%		28	28	1.65620%
1-Dec-22	1,733	9	1.638	15	1.000	15	0.85047%		15	15	0.85047%
Total	40,360	1,131		1,144		1,144	2.83560%		1,144	1,144	2.83560%

Column (2) : from Exhibit 4  
 Column (3) : supplied by Cook County, Illinois  
 Column (4) : from Exhibit 9

Column (5) : Column (3) x Column (4)  
 Column (6) : Assumption  
 Column (7) : Column (5) x Column (6)  
 Column (8) : Column (7) / Column (2)

Column (9) : Bornhuetter Method = (3) + (1.0 - 1.0 / (4)) x 70  
 Column (10) : Selected Trended Ultimate Claims  
 Column (11) : Column (10) / Column (6)  
 Column (12) : Column (10) / Column (2)

Selected Frequency Rate for Renewal Policy Period 1-Dec-23					
Weighted Averages through and including Policy Period 1-Dec-22					
Last 5 Policies	8,352			133	1.59770%
Last 3 Policies	5,148			65	1.27222%
Last 2 Policies	3,447			43	1.25103%
Last 22 Policies	40,360			1,144	2.83560%
Selected Bornhuetter-Ferguson Frequency Rate					<b>2.15475%</b>
Factor to adjust the Claims / Exposure Trend Rate from Policy Period 1-Dec-22 to Renewal Period 1-Dec-23					1.000
Selected Frequency Rate adjusted to the Renewal Policy Period Level					2.15475%
Occupied Bed Equivalents for 1-Dec-23					1,733
Projected Count for 1-Dec-23					37



**Cook County, Illinois**  
**Medical Malpractice - John H. Stroger, Jr. Hospital**  
**Medical Malpractice - John H. Stroger, Jr. Hospital Experience @ 11/30/23**  
**Losses Limited to Retentions**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Policy Period Inception	Incurred Loss	Selected Ultimate Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Ultimate Loss	Occupied Bed Equivalents	Exposure Trend Factor	Trended Occupied Bed Equivalents	Trended Loss Rate
1-Dec-01	23,647,540	23,647,540	1.916	1.117	50,623,906	2,090	1.000	2,090	24,222
1-Dec-02	4,268,645	4,268,645	1.860	1.056	8,385,899	2,039	1.000	2,039	4,113
1-Dec-03	8,377,500	8,377,500	1.806	1.056	15,978,529	2,060	1.000	2,060	7,757
1-Dec-04	33,606,850	33,606,850	1.754	1.056	62,231,884	2,032	1.000	2,032	30,626
1-Dec-05	23,325,000	23,325,000	1.702	1.056	41,934,317	1,961	1.000	1,961	21,384
1-Dec-06	4,850,000	4,860,000	1.653	1.056	8,482,951	1,829	1.000	1,829	4,638
1-Dec-07	7,002,000	7,002,000	1.605	1.056	11,865,760	1,864	1.000	1,864	6,366
1-Dec-08	8,392,500	8,392,500	1.558	1.056	13,807,899	1,949	1.000	1,949	7,085
1-Dec-09	9,092,500	9,092,500	1.513	0.997	13,713,548	1,807	1.000	1,807	7,589
1-Dec-10	10,815,000	11,000,000	1.469	0.997	16,107,272	1,814	1.000	1,814	8,879
1-Dec-11	40,368,999	40,950,000	1.426	0.997	58,216,485	1,814	1.000	1,814	32,093
1-Dec-12	60,340,000	60,500,000	1.384	1.007	84,368,868	1,840	1.000	1,840	45,853
1-Dec-13	1,775,000	2,200,000	1.344	1.007	2,978,601	1,840	1.000	1,840	1,619
1-Dec-14	23,890,000	25,100,000	1.305	1.025	33,558,477	1,728	1.000	1,728	19,420
1-Dec-15	10,617,500	12,300,000	1.267	1.025	15,966,011	1,787	1.000	1,787	8,935
1-Dec-16	6,194,000	7,500,000	1.230	1.025	9,451,818	1,779	1.000	1,779	5,313
1-Dec-17	36,335,000	38,100,000	1.194	1.025	46,616,732	1,774	1.000	1,774	26,278
1-Dec-18	12,470,000	16,000,000	1.159	1.025	19,006,389	1,638	1.000	1,638	11,603
1-Dec-19	29,692,500	35,000,000	1.126	1.000	39,392,808	1,566	1.000	1,566	25,155
1-Dec-20	12,999,000	21,000,000	1.093	1.000	22,947,267	1,701	1.000	1,701	13,490
1-Dec-21	29,500,000	41,000,000	1.061	1.000	43,496,900	1,713	1.000	1,713	25,392
1-Dec-22	-	22,000,000	1.030	1.000	22,660,000	1,733	1.000	1,733	13,076
<b>All Year Weighted Average</b>					641,792,321			40,358	15,902
<b>Latest 5-Year Weighted Average</b>					147,503,364			8,351	17,663
<b>Latest 3-Year Weighted Average</b>					89,104,167			5,147	17,312
<b>SELECTED - Based on Shaded PY</b>					641,792,321			40,358	<b>15,902</b>

Column (1) : from Exhibit 10 Column (10)

Column (2) : from Exhibit 2, Column (10)

Column (3) : Trend Indices appropriate for Medical Malpractice - John H. Stroger, Jr. Hospital

Column (4) : from Retention Analysis

Column (5) : Column (2) x Column (3) x Column (4)

Column (6) : supplied by Cook County, Illinois

Column (7) : Annual Exposure Trend

Column (8) : Column (6) x Column (7)

Column (9) : Column (5) / Column (8)

Renewal Projections (Losses and Claims developed to Ultimate)					
(10)	(11)	(12)	(13)	(14)	(15)
Policy Period Inception	Retention	Occupied Bed Equivalents	Claim Count	Loss Rate	Loss Amount
1-Dec-23	35,000,000	1,733	37	15,902	27,600,000
1-Dec-24	35,000,000	1,733	37	16,539	28,700,000
1-Dec-25	35,000,000	1,733	37	17,200	29,800,000

Columns (11) - (15) : Projections. These are preliminary and should be monitored with actuarial updates.



**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital**

Average : \$444,212    sigma = 1.954  
CV : 6.67                mu = 11.096

**Limitation of Incurred LDF's for Medical Malpractice - John H. Stroger, Jr. Hospital**

Evaluation	(1) Incurred LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.000	1.000	10,000,000	2.571	0.617	0.995	0.731	375,653	10,000,000	2.571	0.617	0.995	0.731	375,653	1.000
264	1.000	1.000	15,000,000	2.778	0.825	0.997	0.795	394,235	15,000,000	2.778	0.825	0.997	0.795	394,235	1.000
252	1.000	1.000	20,000,000	2.926	0.972	0.998	0.834	405,065	20,000,000	2.926	0.972	0.998	0.834	405,065	1.000
240	1.000	1.000	20,000,000	2.926	0.972	0.998	0.834	405,065	20,000,000	2.926	0.972	0.998	0.834	405,065	1.000
228	1.000	1.000	20,000,000	2.926	0.972	0.998	0.834	405,065	20,000,000	2.926	0.972	0.998	0.834	405,065	1.000
216	1.000	1.000	20,000,000	2.926	0.972	0.998	0.834	405,065	20,000,000	2.926	0.972	0.998	0.834	405,065	1.000
204	1.000	1.000	20,000,000	2.926	0.972	0.998	0.834	405,065	20,000,000	2.926	0.972	0.998	0.834	405,065	1.000
192	1.000	1.000	20,000,000	2.926	0.972	0.998	0.834	405,065	20,000,000	2.926	0.972	0.998	0.834	405,065	1.000
180	1.001	1.000	20,000,000	2.926	0.972	0.998	0.834	405,065	20,020,000	2.926	0.973	0.998	0.835	405,099	1.001
168	1.004	1.000	40,000,000	3.280	1.327	0.999	0.908	423,950	40,160,120	3.282	1.329	0.999	0.908	424,033	1.004
156	1.009	1.000	40,000,000	3.280	1.327	0.999	0.908	423,950	40,360,921	3.285	1.331	0.999	0.908	424,136	1.009
144	1.017	1.000	40,000,000	3.280	1.327	0.999	0.908	423,950	40,665,928	3.289	1.335	0.999	0.909	424,290	1.016
132	1.027	1.000	30,000,000	3.133	1.180	0.999	0.881	417,254	30,804,440	3.147	1.193	0.999	0.884	417,933	1.025
120	1.037	1.000	30,000,000	3.133	1.180	0.999	0.881	417,254	31,112,485	3.152	1.198	0.999	0.885	418,185	1.035
108	1.047	1.000	25,000,000	3.040	1.086	0.999	0.861	412,195	26,186,341	3.064	1.110	0.999	0.866	413,545	1.044
96	1.058	1.000	25,000,000	3.040	1.086	0.999	0.861	412,195	26,448,205	3.069	1.115	0.999	0.868	413,829	1.054
84	1.069	1.000	25,000,000	3.040	1.086	0.999	0.861	412,195	26,712,687	3.074	1.120	0.999	0.869	414,111	1.064
72	1.087	1.000	25,000,000	3.040	1.086	0.999	0.861	412,195	27,172,938	3.082	1.129	0.999	0.871	414,590	1.081
60	1.120	1.008	25,000,000	3.040	1.086	0.999	0.861	412,195	27,762,415	3.093	1.140	0.999	0.873	415,184	1.111
48	1.203	1.023	35,000,000	3.212	1.258	0.999	0.896	421,028	41,164,960	3.295	1.342	1.000	0.910	424,538	1.194
36	1.384	1.066	35,000,000	3.212	1.258	0.999	0.896	421,028	45,459,824	3.346	1.392	1.000	0.918	426,467	1.366
24	1.813	1.234	35,000,000	3.212	1.258	0.999	0.896	421,028	51,431,592	3.409	1.456	1.000	0.927	428,651	1.781
12	3.128	1.638	35,000,000	3.212	1.258	0.999	0.896	421,028	66,837,809	3.543	1.590	1.000	0.944	432,564	3.044

**Column (1) : from Exhibit 9**

**Column (2) : Unlimited claim count development factors**

**Column (3) : Individual loss limitation**

**Columns (4) through (8) : Factors and quantities used in fitting distribution curve**

**Column (9) : (1)/(2)x(3)**

**Columns (10) through (14) : Factors and quantities used in fitting distribution curve**

**Column (15) : Limited loss development factors based on fitted distribution curve**



**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital**

Average : \$444,212    sigma = 1.954  
CV : 6.67            mu = 11.096

**Limitation of Paid LDF's for Medical Malpractice - John H. Stroger, Jr. Hospital**

Evaluation	(1) Paid LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.000	1.000	10,000,000	2.571	0.617	0.995	0.731	375,653	10,000,000	2.571	0.617	0.995	0.731	375,653	1.000
264	1.000	1.000	15,000,000	2.778	0.825	0.997	0.795	394,235	15,000,000	2.778	0.825	0.997	0.795	394,235	1.000
252	1.000	1.000	20,000,000	2.926	0.972	0.998	0.834	405,065	20,000,000	2.926	0.972	0.998	0.834	405,065	1.000
240	1.000	1.000	20,000,000	2.926	0.972	0.998	0.834	405,065	20,000,000	2.926	0.972	0.998	0.834	405,065	1.000
228	1.000	1.000	20,000,000	2.926	0.972	0.998	0.834	405,065	20,000,000	2.926	0.972	0.998	0.834	405,065	1.000
216	1.000	1.000	20,000,000	2.926	0.972	0.998	0.834	405,065	20,000,000	2.926	0.972	0.998	0.834	405,065	1.000
204	1.000	1.000	20,000,000	2.926	0.972	0.998	0.834	405,065	20,000,000	2.926	0.972	0.998	0.834	405,065	1.000
192	1.000	1.000	20,000,000	2.926	0.972	0.998	0.834	405,065	20,000,000	2.926	0.972	0.998	0.834	405,065	1.000
180	1.002	1.000	20,000,000	2.926	0.972	0.998	0.834	405,065	20,040,000	2.927	0.973	0.998	0.835	405,133	1.002
168	1.006	1.000	40,000,000	3.280	1.327	0.999	0.908	423,950	40,240,320	3.283	1.330	0.999	0.908	424,074	1.006
156	1.012	1.000	40,000,000	3.280	1.327	0.999	0.908	423,950	40,481,762	3.287	1.333	0.999	0.909	424,197	1.011
144	1.024	1.000	40,000,000	3.280	1.327	0.999	0.908	423,950	40,967,543	3.293	1.339	1.000	0.910	424,441	1.023
132	1.043	1.000	30,000,000	3.133	1.180	0.999	0.881	417,254	31,278,719	3.155	1.201	0.999	0.885	418,320	1.040
120	1.069	1.000	30,000,000	3.133	1.180	0.999	0.881	417,254	32,069,074	3.167	1.214	0.999	0.888	418,941	1.065
108	1.109	1.000	25,000,000	3.040	1.086	0.999	0.861	412,195	27,726,387	3.093	1.139	0.999	0.873	415,149	1.101
96	1.192	1.000	25,000,000	3.040	1.086	0.999	0.861	412,195	29,805,866	3.130	1.176	0.999	0.880	417,085	1.178
84	1.431	1.000	25,000,000	3.040	1.086	0.999	0.861	412,195	35,767,039	3.223	1.270	0.999	0.898	421,524	1.399
72	1.762	1.000	25,000,000	3.040	1.086	0.999	0.861	412,195	44,056,480	3.330	1.376	1.000	0.916	425,875	1.706
60	3.512	1.008	25,000,000	3.040	1.086	0.999	0.861	412,195	87,080,108	3.679	1.725	1.000	0.958	435,650	3.322
48	8.884	1.023	35,000,000	3.212	1.258	0.999	0.896	421,028	303,879,551	4.318	2.365	1.000	0.991	442,593	8.451
36	43.532	1.066	35,000,000	3.212	1.258	0.999	0.896	421,028	1,429,880,567	5.111	3.158	1.000	0.999	444,088	41.272
24	4904.601	1.234	35,000,000	3.212	1.258	0.999	0.896	421,028	139,130,467,968	7.454	5.501	1.000	1.000	444,212	4648.622
12	9809.202	1.638	35,000,000	3.212	1.258	0.999	0.896	421,028	209,630,939,680	7.664	5.711	1.000	1.000	444,212	9297.244

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve



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

Calculation of Occupied Bed Equivalents

Occurrence Period (1)	Inpatients (2)	ER Visits (3)	Other Visits (4)	Other Visits (5)	Physicians (6)	Housestaff (7)	Occupied Bed Equivalents (8)
Prior							
12/1/2001	388	141,693	502,382	189,599	414	444	2,090
12/1/2002	345	150,271	498,328	172,516	400	457	2,039
12/1/2003	353	148,568	520,088	174,789	401	463	2,060
12/1/2004	352	141,500	511,426	173,667	397	461	2,032
12/1/2005	338	135,358	512,883	152,169	378	460	1,961
12/1/2006	317	128,643	415,673	136,033	355	450	1,829
12/1/2007	314	127,998	392,825	128,266	389	433	1,864
12/1/2008	313	155,000	432,529	143,627	389	446	1,949
12/1/2009	313	155,000	127,500	64,000	389	460	1,807
12/1/2010	313	131,000	127,500	64,000	420	455	1,814
12/1/2011	313	131,000	127,500	64,000	420	455	1,814
12/1/2012	302	137,000	175,000	64,000	433	433	1,840
12/1/2013	302	137,000	175,000	64,000	433	433	1,840
12/1/2014	281	116,583	153,407	43,077	420	420	1,728
12/1/2015	281	123,158	258,721	52,714	420	421	1,787
12/1/2016	281	122,537	252,642	50,027	420	417	1,779
12/1/2017	281	115,511	274,154	47,549	420	418	1,774
12/1/2018	245	118,368	0	46,970	420	424	1,638
12/1/2019	231	85,796	0	40,688	420	437	1,566
12/1/2020	234	83,139	0	50,708	475	475	1,701
12/1/2021	243	85,068	0	44,790	475	475	1,713
12/1/2022	262	88,502	0	37,187	473	475	1,733
12/1/2023	262	88,502	0	37,187	473	475	1,733

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

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

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

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**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital  
Projected Losses Paid 12/1/2023 to 11/30/2024**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/23	Percent Losses Paid	Months of Development 11/30/24	Percent Losses Paid	Estimated Outstanding Losses 11/30/23	Projected Losses Paid	Estimated Outstanding Losses 11/30/24	Discount Factor	Discounted Outstanding Losses 11/30/24
Prior	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	204	100.0%	216	100.0%	\$ 110,000	\$ -	\$ 110,000	1.000	\$ 110,000
1-Dec-07	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	180	99.8%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	168	99.4%	180	99.8%	\$ -	\$ -	\$ -	0.978	\$ -
1-Dec-10	156	98.8%	168	99.4%	\$ 285,000	\$ 142,018	\$ 142,982	0.964	\$ 137,878
1-Dec-11	144	97.6%	156	98.9%	\$ 4,931,001	\$ 2,447,641	\$ 2,483,360	0.951	\$ 2,360,557
1-Dec-12	132	95.9%	144	97.8%	\$ 360,000	\$ 152,236	\$ 207,764	0.944	\$ 196,090
1-Dec-13	120	93.5%	132	96.2%	\$ 575,000	\$ 211,165	\$ 363,835	0.935	\$ 340,203
1-Dec-14	108	90.2%	120	94.0%	\$ 1,210,000	\$ 255,590	\$ 954,410	0.926	\$ 883,366
1-Dec-15	96	83.9%	108	90.8%	\$ 7,062,500	\$ 2,773,742	\$ 4,288,758	0.918	\$ 3,936,106
1-Dec-16	84	69.9%	96	84.9%	\$ 2,806,000	\$ 1,317,579	\$ 1,488,421	0.918	\$ 1,365,776
1-Dec-17	72	56.7%	84	71.5%	\$ 7,265,000	\$ 2,256,515	\$ 5,008,485	0.925	\$ 4,633,491
1-Dec-18	60	28.5%	72	58.6%	\$ 6,180,000	\$ 2,522,368	\$ 3,657,632	0.914	\$ 3,343,677
1-Dec-19	48	11.3%	60	29.7%	\$ 20,557,500	\$ 4,157,403	\$ 16,400,097	0.917	\$ 15,036,099
1-Dec-20	36	2.3%	48	11.8%	\$ 19,001,000	\$ 1,832,311	\$ 17,168,689	0.898	\$ 15,415,833
1-Dec-21	24	0.0%	36	2.4%	\$ 41,000,000	\$ 984,804	\$ 40,015,196	0.871	\$ 34,848,061
1-Dec-22	12	0.0%	24	0.0%	\$ 22,000,000	\$ 2,367	\$ 21,997,633	0.837	\$ 18,412,164
1-Dec-23	0	0.0%	12	0.0%	\$ 27,600,000	\$ 2,969	\$ 27,597,031	0.801	\$ 22,108,965
<b>Total</b>					\$ 160,943,001	\$ 19,058,709	\$ 141,884,292		\$ 123,128,268

Column (3): 1 / Exhibit 9 Column (3)  
 Column (5): 1 / Rollforward Exhibit Column (54)  
 Column (6): From Executive Summary  
 Column (7): Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)



**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital  
Projected Losses Paid 12/1/2024 to 11/30/2025**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/24	Percent Losses Paid	Months of Development 11/30/25	Percent Losses Paid	Estimated Outstanding Losses 11/30/24	Projected Losses Paid	Estimated Outstanding Losses 11/30/25	Discount Factor	Discounted Outstanding Losses 11/30/25
Prior	288	100.0%	300	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	216	100.0%	228	100.0%	\$ 110,000	\$ -	\$ 110,000	1.000	\$ 110,000
1-Dec-07	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	180	99.8%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-10	168	99.4%	180	99.8%	\$ 142,982	\$ 95,203	\$ 47,779	0.978	\$ 46,743
1-Dec-11	156	98.9%	168	99.4%	\$ 2,483,360	\$ 1,237,484	\$ 1,245,876	0.964	\$ 1,201,408
1-Dec-12	144	97.8%	156	98.9%	\$ 207,764	\$ 103,143	\$ 104,621	0.951	\$ 99,447
1-Dec-13	132	96.2%	144	97.8%	\$ 363,835	\$ 153,858	\$ 209,977	0.944	\$ 198,179
1-Dec-14	120	94.0%	132	96.2%	\$ 954,410	\$ 257,817	\$ 696,592	0.935	\$ 651,346
1-Dec-15	108	90.8%	120	94.0%	\$ 4,288,758	\$ 1,481,105	\$ 2,807,652	0.926	\$ 2,598,659
1-Dec-16	96	84.9%	108	90.8%	\$ 1,488,421	\$ 566,755	\$ 921,667	0.918	\$ 845,881
1-Dec-17	84	71.5%	96	84.9%	\$ 5,008,485	\$ 2,351,772	\$ 2,656,713	0.918	\$ 2,437,800
1-Dec-18	72	58.6%	84	71.5%	\$ 3,657,632	\$ 1,136,063	\$ 2,521,568	0.925	\$ 2,332,774
1-Dec-19	60	29.7%	72	58.2%	\$ 16,400,097	\$ 6,642,562	\$ 9,757,534	0.914	\$ 8,919,991
1-Dec-20	48	11.8%	60	29.7%	\$ 17,168,689	\$ 3,472,074	\$ 13,696,615	0.917	\$ 12,557,466
1-Dec-21	36	2.4%	48	11.8%	\$ 40,015,196	\$ 3,858,760	\$ 36,156,436	0.898	\$ 32,465,006
1-Dec-22	24	0.0%	36	2.4%	\$ 21,997,633	\$ 528,375	\$ 21,469,259	0.871	\$ 18,696,948
1-Dec-23	12	0.0%	24	0.0%	\$ 27,597,031	\$ 2,969	\$ 27,594,063	0.837	\$ 23,096,412
1-Dec-24	0	0.0%	12	0.0%	\$ 28,700,000	\$ 3,087	\$ 28,696,913	0.801	\$ 22,990,119
Total					\$ 170,584,292	\$ 21,891,027	\$ 148,693,265		\$ 129,248,181

Column (3): 1 / Rollforward Exhibit Column (54)  
 Column (5): 1 / Rollforward Exhibit 2 Column (54)  
 Column (6): Rollforward Exhibit Column (21) & Projection  
 Column (7): Rollforward Exhibit 2 Column (31) - Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)



**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital  
Projected Losses Paid 12/1/2025 to 11/30/2026**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/25	Percent Losses Paid	Months of Development 11/30/26	Percent Losses Paid	Estimated Outstanding Losses 11/30/25	Projected Losses Paid	Estimated Outstanding Losses 11/30/26	Discount Factor	Discounted Outstanding Losses 11/30/26
Prior	300	100.0%	312	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	288	100.0%	300	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	228	100.0%	240	100.0%	\$ 110,000	\$ -	\$ 110,000	1.000	\$ 110,000
1-Dec-07	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-10	180	99.8%	192	100.0%	\$ 47,779	\$ 47,779	\$ (0)	1.000	\$ (0)
1-Dec-11	168	99.4%	180	99.8%	\$ 1,245,876	\$ 829,555	\$ 416,321	0.978	\$ 407,297
1-Dec-12	156	98.9%	168	99.4%	\$ 104,621	\$ 52,137	\$ 52,484	0.964	\$ 50,610
1-Dec-13	144	97.8%	156	98.9%	\$ 209,977	\$ 103,856	\$ 106,122	0.951	\$ 100,874
1-Dec-14	132	96.2%	144	97.8%	\$ 696,592	\$ 260,061	\$ 436,531	0.944	\$ 412,004
1-Dec-15	120	94.0%	132	96.2%	\$ 2,807,652	\$ 1,031,431	\$ 1,776,221	0.935	\$ 1,660,849
1-Dec-16	108	90.8%	120	94.0%	\$ 921,667	\$ 194,685	\$ 726,981	0.926	\$ 672,867
1-Dec-17	96	84.9%	108	90.8%	\$ 2,656,713	\$ 1,043,403	\$ 1,613,309	0.918	\$ 1,480,652
1-Dec-18	84	71.5%	96	84.9%	\$ 2,521,568	\$ 726,069	\$ 1,795,500	0.918	\$ 1,647,551
1-Dec-19	72	58.2%	84	71.1%	\$ 9,757,534	\$ 3,016,039	\$ 6,741,496	0.925	\$ 6,236,748
1-Dec-20	60	29.7%	72	58.2%	\$ 13,696,615	\$ 5,547,566	\$ 8,149,049	0.914	\$ 7,449,570
1-Dec-21	48	11.8%	60	29.7%	\$ 36,156,436	\$ 7,312,022	\$ 28,844,414	0.917	\$ 26,445,422
1-Dec-22	36	2.4%	48	11.8%	\$ 21,469,259	\$ 2,070,331	\$ 19,398,927	0.898	\$ 17,418,373
1-Dec-23	24	0.0%	36	2.4%	\$ 27,594,063	\$ 662,799	\$ 26,931,264	0.871	\$ 23,453,649
1-Dec-24	12	0.0%	24	0.0%	\$ 28,696,913	\$ 3,087	\$ 28,693,826	0.837	\$ 24,016,921
1-Dec-25	0	0.0%	12	0.0%	\$ 29,800,000	\$ 3,205	\$ 29,796,795	0.801	\$ 23,871,274
<b>Total</b>					<b>\$ 178,493,265</b>	<b>\$ 22,904,025</b>	<b>\$ 155,589,240</b>		<b>\$ 135,434,662</b>

Column (3): 1 / Rollforward Exhibit 2 Column (54)  
 Column (5): 1 / Rollforward Exhibit 3 Column (54)  
 Column (6): Rollforward Exhibit 2 Column (21) & Projection  
 Column (7): Rollforward Exhibit 3 Column (31) - Rollforward Exhibit 2 Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)



**Cook County, Illinois**  
**Medical Malpractice - John H. Stroger, Jr. Hospital**  
**Large Claims**

All Claims greater than or equal to \$1,000,000

(1)	(2)	(3)	(4)	(5)
<u>Policy Period</u>	<u>Loss Date</u>	<u>Incurred Loss</u>	<u>Paid Loss</u>	<u>Case Reserves</u>
Prior	8/23/1972	2,514,239	2,514,239	-
Prior	5/9/1976	5,000,000	5,000,000	-
Prior	8/4/1979	3,000,000	3,000,000	-
Prior	2/18/1984	3,000,000	3,000,000	-
Prior	10/31/1985	9,750,000	9,750,000	-
Prior	8/17/1986	6,750,000	6,750,000	-
Prior	9/10/1986	1,656,477	1,656,477	-
Prior	1/27/1987	1,000,000	1,000,000	-
Prior	3/6/1988	5,250,000	5,250,000	-
Prior	1/21/1990	6,500,000	6,500,000	-
Prior	1/31/1990	1,450,000	1,450,000	-
Prior	4/12/1990	3,000,000	3,000,000	-
Prior	9/5/1990	1,750,000	1,750,000	-
Prior	12/27/1990	1,875,000	1,875,000	-
Prior	5/5/1991	3,600,000	3,600,000	-
Prior	1/1/1993	6,000,000	6,000,000	-
Prior	5/19/1993	7,400,000	7,400,000	-
Prior	5/25/1993	1,500,000	1,500,000	-
Prior	6/19/1993	3,600,000	3,600,000	-
Prior	6/23/1993	1,850,000	1,850,000	-
Prior	6/30/1993	1,500,000	1,500,000	-
Prior	7/18/1993	15,000,000	15,000,000	-
Prior	8/21/1993	2,000,000	2,000,000	-
Prior	9/15/1993	2,000,000	2,000,000	-
Prior	9/24/1993	5,000,000	5,000,000	-
Prior	10/16/1993	2,500,000	2,500,000	-
Prior	12/28/1993	1,500,000	1,500,000	-
Prior	2/9/1994	2,000,000	2,000,000	-



**Cook County, Illinois**  
**Medical Malpractice - John H. Stroger, Jr. Hospital**  
**Large Claims**

All Claims greater than or equal to \$1,000,000

(1)	(2)	(3)	(4)	(5)
<u>Policy</u> <u>Period</u>	<u>Loss</u> <u>Date</u>	<u>Incurred</u> <u>Loss</u>	<u>Paid</u> <u>Loss</u>	<u>Case</u> <u>Reserves</u>
Prior	6/22/1994	2,000,000	2,000,000	-
Prior	10/8/1994	1,000,000	1,000,000	-
Prior	1/26/1995	2,800,000	2,800,000	-
Prior	7/19/1995	3,000,000	3,000,000	-
Prior	7/27/1995	3,000,000	3,000,000	-
Prior	8/3/1995	1,350,000	1,350,000	-
Prior	8/16/1995	3,500,000	3,500,000	-
Prior	1/1/1996	5,200,000	5,200,000	-
Prior	1/16/1996	1,000,000	1,000,000	-
Prior	3/5/1996	2,430,979	2,430,979	-
Prior	6/26/1996	1,750,000	1,750,000	-
Prior	11/25/1996	1,500,000	1,500,000	-
Prior	10/21/1997	6,750,000	6,750,000	-
Prior	11/23/1997	1,100,000	1,100,000	-
Prior	12/12/1997	3,500,000	3,500,000	-
Prior	4/9/1998	19,250,000	19,250,000	-
Prior	8/28/1998	1,500,000	1,500,000	-
Prior	10/18/1998	1,500,000	1,500,000	-
Prior	5/4/1999	5,500,000	5,500,000	-
Prior	5/5/1999	2,000,000	2,000,000	-
Prior	10/19/1999	3,000,000	3,000,000	-
Prior	12/8/1999	4,000,000	4,000,000	-
Prior	1/3/2000	12,000,000	12,000,000	-
Prior	1/5/2000	1,250,000	1,250,000	-
Prior	5/31/2000	10,000,000	10,000,000	-
Prior	10/17/2000	1,250,000	1,250,000	-
Prior	11/22/2000	2,100,000	2,100,000	-
Prior	3/6/2001	7,000,000	7,000,000	-



**Cook County, Illinois**  
**Medical Malpractice - John H. Stroger, Jr. Hospital**  
**Large Claims**

All Claims greater than or equal to \$1,000,000

(1)	(2)	(3)	(4)	(5)
<u>Policy Period</u>	<u>Loss Date</u>	<u>Incurred Loss</u>	<u>Paid Loss</u>	<u>Case Reserves</u>
Prior	7/20/2001	1,100,000	1,100,000	-
12/1/2001	9/9/2002	12,000,000	12,000,000	-
12/1/2001	9/20/2002	9,000,000	9,000,000	-
12/1/2001	11/29/2002	1,350,000	1,350,000	-
12/1/2002	4/21/2003	1,200,000	1,200,000	-
12/1/2002	7/21/2003	1,500,000	1,500,000	-
12/1/2003	12/19/2003	3,750,000	3,750,000	-
12/1/2003	1/5/2004	1,450,000	1,450,000	-
12/1/2004	3/4/2005	4,500,000	4,500,000	-
12/1/2004	4/22/2005	1,000,000	1,000,000	-
12/1/2004	5/13/2005	2,000,000	2,000,000	-
12/1/2004	8/2/2005	14,000,000	14,000,000	-
12/1/2004	8/12/2005	9,800,000	9,800,000	-
12/1/2005	8/8/2006	12,000,000	12,000,000	-
12/1/2005	9/15/2006	6,250,000	6,250,000	-
12/1/2005	9/23/2006	1,200,000	1,200,000	-
12/1/2005	10/21/2006	1,250,000	1,250,000	-
12/1/2006	3/1/2007	1,750,000	1,750,000	-
12/1/2006	10/3/2007	1,000,000	1,000,000	-
12/1/2006	10/19/2007	1,700,000	1,700,000	-
12/1/2007	1/18/2008	2,400,000	2,400,000	-
12/1/2007	5/30/2008	2,050,000	2,050,000	-
12/1/2007	10/11/2008	2,500,000	2,500,000	-
12/1/2008	1/10/2009	3,000,000	3,000,000	-
12/1/2008	4/6/2009	2,250,000	2,250,000	-
12/1/2008	6/21/2009	1,250,000	1,250,000	-
12/1/2009	6/16/2010	1,337,500	1,337,500	-
12/1/2009	6/21/2010	2,250,000	2,250,000	-



**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital  
Large Claims**

**All Claims greater than or equal to \$1,000,000**

(1)	(2)	(3)	(4)	(5)
Policy Period	Loss Date	Incurred Loss	Paid Loss	Case Reserves
12/1/2009	9/1/2010	1,700,000	1,700,000	-
12/1/2009	10/5/2010	3,000,000	3,000,000	-
12/1/2010	12/19/2010	2,400,000	2,400,000	-
12/1/2010	3/20/2011	1,400,000	1,400,000	-
12/1/2010	9/29/2011	4,500,000	4,500,000	-
12/1/2011	12/2/2011	20,000,000	20,000,000	-
12/1/2011	12/24/2011	1,300,000	1,300,000	-
12/1/2011	2/5/2012	1,500,000	1,500,000	-
12/1/2011	2/17/2012	2,500,000	-	2,500,000
12/1/2011	2/28/2012	3,000,000	3,000,000	-
12/1/2011	5/7/2012	3,000,000	3,000,000	-
12/1/2011	6/11/2012	1,500,000	-	1,500,000
12/1/2011	6/25/2012	5,000,000	5,000,000	-
12/1/2012	12/26/2012	2,000,000	2,000,000	-
12/1/2012	3/5/2013	2,000,000	2,000,000	-
12/1/2012	4/11/2013	3,000,000	3,000,000	-
12/1/2012	5/9/2013	6,450,000	6,450,000	-
12/1/2012	7/12/2013	23,750,000	23,750,000	-
12/1/2012	9/5/2013	3,980,000	3,980,000	-
12/1/2012	10/5/2013	5,900,000	5,900,000	-
12/1/2012	11/15/2013	1,500,000	1,500,000	-
12/1/2012	11/28/2013	7,000,000	7,000,000	-
12/1/2014	8/18/2015	13,000,000	13,000,000	-
12/1/2014	9/14/2015	5,000,000	5,000,000	-
12/1/2014	9/28/2015	1,000,000	1,000,000	-
12/1/2014	11/4/2015	3,000,000	3,000,000	-
12/1/2015	1/25/2016	1,250,000	1,250,000	-



**Cook County, Illinois  
Medical Malpractice - John H. Stroger, Jr. Hospital  
Large Claims**

**All Claims greater than or equal to \$1,000,000**

(1)	(2)	(3)	(4)	(5)
<u>Policy Period</u>	<u>Loss Date</u>	<u>Incurred Loss</u>	<u>Paid Loss</u>	<u>Case Reserves</u>
12/1/2015	5/2/2016	4,000,000	-	4,000,000
12/1/2015	7/23/2016	1,500,000	1,500,000	-
12/1/2015	11/13/2016	2,200,000	2,200,000	-
12/1/2016	3/28/2017	2,000,000	2,000,000	-
12/1/2016	4/13/2017	2,250,000	2,250,000	-
12/1/2016	10/17/2017	1,500,000	-	1,500,000
12/1/2017	2/19/2018	2,500,000	2,500,000	-
12/1/2017	4/21/2018	1,360,000	1,360,000	-
12/1/2017	4/30/2018	4,000,000	-	4,000,000
12/1/2017	5/26/2018	2,875,000	2,875,000	-
12/1/2017	6/16/2018	2,600,000	2,600,000	-
12/1/2017	9/1/2018	6,750,000	6,750,000	-
12/1/2017	9/2/2018	5,000,000	5,000,000	-
12/1/2017	9/13/2018	1,000,000	-	1,000,000
12/1/2017	10/8/2018	9,750,000	9,750,000	-
12/1/2018	2/2/2019	2,000,000	-	2,000,000
12/1/2018	5/13/2019	3,125,000	3,125,000	-
12/1/2018	5/27/2019	4,750,000	4,750,000	-
12/1/2018	6/8/2019	1,800,000	1,800,000	-
12/1/2019	12/21/2019	2,000,000	-	2,000,000
12/1/2019	1/4/2020	2,000,000	2,000,000	-
12/1/2019	1/13/2020	6,750,000	6,750,000	-
12/1/2019	3/7/2020	1,056,000	1,056,000	-
12/1/2019	3/11/2020	2,500,000	-	2,500,000
12/1/2019	6/22/2020	3,900,000	3,900,000	-
12/1/2019	9/26/2020	10,000,000	-	10,000,000
12/1/2020	3/14/2021	3,000,000	-	3,000,000
12/1/2020	4/3/2021	4,000,000	-	4,000,000





**Cook County, Illinois**  
**Medical Malpractice - John H. Stroger, Jr. Hospital**  
**Large Claims**

All Claims greater than or equal to \$1,000,000

(1)	(2)	(3)	(4)	(5)
<u>Policy</u> <u>Period</u>	<u>Loss</u> <u>Date</u>	<u>Incurred</u> <u>Loss</u>	<u>Paid</u> <u>Loss</u>	<u>Case</u> <u>Reserves</u>
12/1/2020	8/29/2021	2,000,000	-	2,000,000
12/1/2020	11/28/2021	2,000,000	-	2,000,000
12/1/2021	3/17/2022	15,000,000	-	15,000,000
12/1/2021	7/6/2022	8,000,000	-	8,000,000
12/1/2021	7/16/2022	2,500,000	-	2,500,000
12/1/2021	9/19/2022	4,000,000	-	4,000,000



**Cook County, Illinois  
 Medical Malpractice - Oak Forest & Unspecified / Ambulatory Experience @ 11/30/23  
 Losses Limited to Retentions**

Policy Period	Occupied Bed Equivalents (1)	Retention (2)	Reported Claims (3)	Open Claims (3a)	Incurred (4)	Paid (5)	Case (6)	Est IBNR (7)	Total O/S (8)	Ultimate (9)	Ultimate Loss Rate (10)
							[(6)-(5)]		[(6)+(7)]	[(4)+(7)]	[(9)/(1)]

**Historical Experience**

Prior	-	Various	132	-	48,363,067	48,363,067	-	-	-	48,363,067	-
1-Dec-01	271	Various	8	-	850,000	850,000	-	-	-	850,000	3,139
1-Dec-02	282	Various	11	-	1,850,000	1,850,000	-	-	-	1,850,000	6,565
1-Dec-03	315	20,000,000	9	-	20,375,000	20,375,000	-	-	-	20,375,000	64,731
1-Dec-04	321	20,000,000	11	-	1,900,000	1,900,000	-	-	-	1,900,000	5,913
1-Dec-05	312	20,000,000	14	-	620,000	620,000	-	-	-	620,000	1,985
1-Dec-06	283	20,000,000	5	-	-	-	-	-	-	-	-
1-Dec-07	234	20,000,000	4	-	-	-	-	-	-	-	-
1-Dec-08	281	20,000,000	2	-	175,000	175,000	-	-	-	175,000	624
1-Dec-09	592	Various	2	-	-	-	-	-	-	-	-
1-Dec-10	602	40,000,000	3	-	-	-	-	-	-	-	-
1-Dec-11	543	40,000,000	1	-	-	-	-	-	-	-	-
1-Dec-12	401	Various	1	-	-	-	-	-	-	-	-
1-Dec-13	401	30,000,000	-	-	-	-	-	-	-	-	-
1-Dec-14	242	Various	2	1	50,715	715	50,000	4,285	54,285	55,000	227
1-Dec-15	224	25,000,000	-	-	-	-	-	-	-	-	-
1-Dec-16	239	25,000,000	-	-	-	-	-	4,000	4,000	4,000	17
1-Dec-17	299	25,000,000	1	-	-	-	-	10,000	10,000	10,000	33
1-Dec-18	332	25,000,000	1	-	-	-	-	11,000	11,000	11,000	33
1-Dec-19	365	Various	1	-	-	-	-	11,000	11,000	11,000	30
1-Dec-20	445	35,000,000	1	-	-	-	-	15,000	15,000	15,000	34
1-Dec-21	406	35,000,000	-	-	-	-	-	17,000	17,000	17,000	42
1-Dec-22	378	35,000,000	-	-	-	-	-	19,000	19,000	19,000	50
<b>Total</b>	<b>7,767</b>		<b>209</b>	<b>1</b>	<b>74,183,782</b>	<b>74,133,782</b>	<b>50,000</b>	<b>91,285</b>	<b>141,285</b>	<b>74,275,067</b>	<b>3,336</b>

**Full Policy Period Projections**

1-Dec-23	378	35,000,000								23,000	60
1-Dec-24	378	35,000,000								24,000	63



**Cook County, Illinois  
Medical Malpractice - Oak Forest & Unspecified / Ambulatory**

**Medical Malpractice - Oak Forest & Unspecified / Ambulatory Experience @ 11/30/23  
Summary of Various Reserving Methods  
Losses Limited to Retentions**

(1) Policy Period Inception	(2) Chain Ladder			(5) Bornhuetter-Ferguson		(7) Generalized Cape Cod		(9) Freq/Sev	(10) Selected Ultimate
	Incurred	Paid	Outstanding	Incurred	Paid	Incurred	Paid		
Prior	\$ 48,363,067	\$ 48,363,067	\$ 48,363,067	N/A	N/A	N/A	N/A	\$ 48,363,067	\$ 48,363,067
1-Dec-01	\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000
1-Dec-02	\$ 1,850,000	\$ 1,850,000	\$ 1,850,000	\$ 1,850,000	\$ 1,850,000	\$ 1,850,000	\$ 1,850,000	\$ 1,850,000	\$ 1,850,000
1-Dec-03	\$ 20,375,000	\$ 20,375,000	\$ 20,375,000	\$ 20,375,000	\$ 20,375,000	\$ 20,375,000	\$ 20,375,000	\$ 20,375,000	\$ 20,375,000
1-Dec-04	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000
1-Dec-05	\$ 620,000	\$ 620,000	\$ 620,000	\$ 620,000	\$ 620,000	\$ 620,000	\$ 620,000	\$ 620,000	\$ 620,000
1-Dec-06	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-07	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-08	\$ 175,164	\$ 175,328	\$ 175,000	\$ 175,009	\$ 175,018	\$ 175,803	\$ 176,648	\$ 175,164	\$ 175,000
1-Dec-09	\$ -	\$ -	\$ -	\$ 92	\$ 137	\$ 5,583	\$ 8,643	\$ -	\$ -
1-Dec-10	\$ -	\$ -	\$ -	\$ 215	\$ 287	\$ 9,564	\$ 13,270	\$ -	\$ -
1-Dec-11	\$ -	\$ -	\$ -	\$ 367	\$ 529	\$ 12,449	\$ 18,974	\$ -	\$ -
1-Dec-12	\$ -	\$ -	\$ -	\$ 421	\$ 660	\$ 11,366	\$ 19,191	\$ -	\$ -
1-Dec-13	\$ -	\$ -	\$ -	\$ 594	\$ 1,073	\$ 12,941	\$ 25,910	\$ -	\$ -
1-Dec-14	\$ 52,997	\$ 789	\$ 93,224	\$ 51,162	\$ 1,688	\$ 58,772	\$ 20,939	\$ 52,997	\$ 55,000
1-Dec-15	\$ -	\$ -	\$ -	\$ 517	\$ 1,530	\$ 7,497	\$ 27,596	\$ -	\$ -
1-Dec-16	\$ -	\$ -	\$ -	\$ 665	\$ 3,161	\$ 7,630	\$ 49,967	\$ -	\$ 4,000
1-Dec-17	\$ -	\$ -	\$ -	\$ 1,067	\$ 5,878	\$ 9,567	\$ 82,931	\$ -	\$ 10,000
1-Dec-18	\$ -	\$ -	\$ -	\$ 1,637	\$ 11,287	\$ 11,551	\$ 148,722	\$ -	\$ 11,000
1-Dec-19	\$ -	\$ -	\$ -	\$ 3,208	\$ 17,258	\$ 18,186	\$ 220,215	\$ -	\$ 11,000
1-Dec-20	\$ -	\$ -	\$ -	\$ 6,654	\$ 23,969	\$ 31,349	\$ 303,145	\$ -	\$ 15,000
1-Dec-21	\$ -	\$ -	\$ -	\$ 10,195	\$ 23,084	\$ 42,602	\$ 291,909	\$ -	\$ 17,000
1-Dec-22	\$ -	\$ -	\$ -	\$ 14,935	\$ 22,147	\$ 58,974	\$ 280,042	\$ -	\$ 19,000
Total	\$ 74,186,228	\$ 74,134,184	\$ 74,226,291	\$ 25,861,739	\$ 25,882,706	\$ 26,068,834	\$ 27,283,100	\$ 74,186,228	\$ 74,275,067

Column (2) : from Exhibit 3, Column (5)  
 Column (3) : from Exhibit 3, Column (8)  
 Column (4) : from Exhibit 3, Column (11)

Column (5) : from Exhibit 7, Column (11)  
 Column (6) : from Exhibit 8, Column (11)  
 Column (7) : from Exhibit 4, Column (11)  
 Column (8) : from Exhibit 5, Column (11)

Column (9) : from Exhibit 6, Column (11)  
 Column (10) : Ultimate



**Cook County, Illinois  
Medical Malpractice - Oak Forest & Unspecified / Ambulatory**

**Medical Malpractice - Oak Forest & Unspecified / Ambulatory Experience @ 11/30/23  
Unpaid Liabilities at Various Discount Rates  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Undiscounted	Disc Rate 4.48%
Prior	276	Various	\$ 48,363,067	\$ 48,363,067	\$ 48,363,067	\$ -	\$ -	\$ -	\$ -
1-Dec-01	264	Various	\$ 850,000	\$ 850,000	\$ 850,000	\$ -	\$ -	\$ -	\$ -
1-Dec-02	252	Various	\$ 1,850,000	\$ 1,850,000	\$ 1,850,000	\$ -	\$ -	\$ -	\$ -
1-Dec-03	240	\$ 20,000,000	\$ 20,375,000	\$ 20,375,000	\$ 20,375,000	\$ -	\$ -	\$ -	\$ -
1-Dec-04	228	\$ 20,000,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ -	\$ -	\$ -	\$ -
1-Dec-05	216	\$ 20,000,000	\$ 620,000	\$ 620,000	\$ 620,000	\$ -	\$ -	\$ -	\$ -
1-Dec-06	204	\$ 20,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-07	192	\$ 20,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-08	180	\$ 20,000,000	\$ 175,000	\$ 175,000	\$ 175,000	\$ -	\$ -	\$ -	\$ -
1-Dec-09	168	Various	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-10	156	\$ 40,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-11	144	\$ 40,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-12	132	Various	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-13	120	\$ 30,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-14	108	Various	\$ 55,000	\$ 50,715	\$ 715	\$ 50,000	\$ 4,285	\$ 54,285	\$ 49,819
1-Dec-15	96	\$ 25,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-16	84	\$ 25,000,000	\$ 4,000	\$ -	\$ -	\$ -	\$ 4,000	\$ 4,000	\$ 3,700
1-Dec-17	72	\$ 25,000,000	\$ 10,000	\$ -	\$ -	\$ -	\$ 10,000	\$ 10,000	\$ 9,139
1-Dec-18	60	\$ 25,000,000	\$ 11,000	\$ -	\$ -	\$ -	\$ 11,000	\$ 11,000	\$ 10,080
1-Dec-19	48	Various	\$ 11,000	\$ -	\$ -	\$ -	\$ 11,000	\$ 11,000	\$ 9,870
1-Dec-20	36	\$ 35,000,000	\$ 15,000	\$ -	\$ -	\$ -	\$ 15,000	\$ 15,000	\$ 13,052
1-Dec-21	24	\$ 35,000,000	\$ 17,000	\$ -	\$ -	\$ -	\$ 17,000	\$ 17,000	\$ 14,217
1-Dec-22	12	\$ 35,000,000	\$ 19,000	\$ -	\$ -	\$ -	\$ 19,000	\$ 19,000	\$ 15,208
<b>Total</b>			<b>\$ 74,275,067</b>	<b>\$ 74,183,782</b>	<b>\$ 74,133,782</b>	<b>\$ 50,000</b>	<b>\$ 91,285</b>	<b>\$ 141,285</b>	<b>\$ 125,085</b>

Column (4) : from Exhibit 1, Column (10)  
Columns (5), (6), (7) : Exhibit 10

Column (8) : Column (4) - Column (5)  
Column (9) : Column (4) - Column (6)  
Column (9) : Column (10) discounted



**Cook County, Illinois  
Medical Malpractice - Oak Forest & Unspecified / Ambulatory**

**Medical Malpractice - Oak Forest & Unspecified / Ambulatory Experience @ 11/30/23  
Incurred, Paid, & Outstanding "Chain Ladder" Methods  
Losses Limited to Retentions**

(1)	(2)	(3) Incurred Chain-Ladder			(6) Paid Chain-Ladder			(9) Outstanding Chain-Ladder		
Policy Period Inception	Evaluation in Months	Incurred Loss	Incurred LDF	Ultimate Loss	Paid Loss	Paid LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss
Prior	276	\$ 48,363,067	1.000	\$ 48,363,067	\$ 48,363,067	1.000	\$ 48,363,067	\$ -	1.000	\$ 48,363,067
1-Dec-01	264	\$ 850,000	1.000	\$ 850,000	\$ 850,000	1.000	\$ 850,000	\$ -	1.000	\$ 850,000
1-Dec-02	252	\$ 1,850,000	1.000	\$ 1,850,000	\$ 1,850,000	1.000	\$ 1,850,000	\$ -	1.000	\$ 1,850,000
1-Dec-03	240	\$ 20,375,000	1.000	\$ 20,375,000	\$ 20,375,000	1.000	\$ 20,375,000	\$ -	1.000	\$ 20,375,000
1-Dec-04	228	\$ 1,900,000	1.000	\$ 1,900,000	\$ 1,900,000	1.000	\$ 1,900,000	\$ -	1.000	\$ 1,900,000
1-Dec-05	216	\$ 620,000	1.000	\$ 620,000	\$ 620,000	1.000	\$ 620,000	\$ -	1.000	\$ 620,000
1-Dec-06	204	\$ -	1.000	\$ -	\$ -	1.000	\$ -	\$ -	1.000	\$ -
1-Dec-07	192	\$ -	1.000	\$ -	\$ -	1.000	\$ -	\$ -	1.000	\$ -
1-Dec-08	180	\$ 175,000	1.001	\$ 175,164	\$ 175,000	1.002	\$ 175,328	\$ -	2.002	\$ 175,000
1-Dec-09	168	\$ -	1.004	\$ -	\$ -	1.006	\$ -	\$ -	3.008	\$ -
1-Dec-10	156	\$ -	1.009	\$ -	\$ -	1.012	\$ -	\$ -	4.021	\$ -
1-Dec-11	144	\$ -	1.016	\$ -	\$ -	1.023	\$ -	\$ -	3.259	\$ -
1-Dec-12	132	\$ -	1.026	\$ -	\$ -	1.041	\$ -	\$ -	2.765	\$ -
1-Dec-13	120	\$ -	1.035	\$ -	\$ -	1.066	\$ -	\$ -	2.240	\$ -
1-Dec-14	108	\$ 50,715	1.045	\$ 52,997	\$ 715	1.103	\$ 789	\$ 50,000	1.850	\$ 93,224
1-Dec-15	96	\$ -	1.055	\$ -	\$ -	1.182	\$ -	\$ -	1.510	\$ -
1-Dec-16	84	\$ -	1.065	\$ -	\$ -	1.408	\$ -	\$ -	1.267	\$ -
1-Dec-17	72	\$ -	1.082	\$ -	\$ -	1.722	\$ -	\$ -	1.222	\$ -
1-Dec-18	60	\$ -	1.114	\$ -	\$ -	3.380	\$ -	\$ -	1.170	\$ -
1-Dec-19	48	\$ -	1.197	\$ -	\$ -	8.597	\$ -	\$ -	1.228	\$ -
1-Dec-20	36	\$ -	1.372	\$ -	\$ -	42.046	\$ -	\$ -	1.384	\$ -
1-Dec-21	24	\$ -	1.791	\$ -	\$ -	4736.507	\$ -	\$ -	1.791	\$ -
1-Dec-22	12	\$ -	3.070	\$ -	\$ -	9473.014	\$ -	\$ -	3.071	\$ -
Total		\$ 74,183,782		\$ 74,186,228	\$ 74,133,782		\$ 74,134,184	\$ 50,000		\$ 74,226,291

Columns (3), (6), (9) : Exhibit 10

Column (4) & (7) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (8) : Column (6) X Column (7)

Column (10) : Outstanding LDF = (Incurred LDF - 1) X Paid LDF / (Paid LDF - Incurred LDF) + 1

Column (11) : Column (9) X Column (10) + Column (6)



**Cook County, Illinois  
Medical Malpractice - Oak Forest & Unspecified / Ambulatory**

**Medical Malpractice - Oak Forest & Unspecified / Ambulatory Experience @ 11/30/23  
Generalized Cape Cod Incurred Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Incurred Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Incurred Loss	Trended Occupied Bed Equivalents	Incurred LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 850,000	1.860	1.183	\$ 1,870,237	271	1.000	23776	\$ 2,925,798	\$ 850,000
1-Dec-02	252	\$ 1,850,000	1.806	1.119	\$ 3,739,318	282	1.000	25583	\$ 3,567,015	\$ 1,850,000
1-Dec-03	240	\$ 20,375,000	1.754	1.119	\$ 39,983,524	315	1.000	28102	\$ 4,507,528	\$ 20,375,000
1-Dec-04	228	\$ 1,900,000	1.702	1.119	\$ 3,619,927	321	1.000	20278	\$ 3,420,168	\$ 1,900,000
1-Dec-05	216	\$ 620,000	1.653	1.119	\$ 1,146,834	312	1.000	14481	\$ 2,445,441	\$ 620,000
1-Dec-06	204	\$ -	1.605	1.119	\$ -	283	1.000	10304	\$ 1,622,997	\$ -
1-Dec-07	192	\$ -	1.558	1.119	\$ -	234	1.000	7343	\$ 983,643	\$ -
1-Dec-08	180	\$ 175,000	1.513	1.119	\$ 296,234	281	1.001	5167	\$ 856,727	\$ 175,803
1-Dec-09	168	\$ -	1.469	0.992	\$ -	592	1.004	3569	\$ 1,449,177	\$ 5,583
1-Dec-10	156	\$ -	1.426	0.992	\$ -	602	1.009	2600	\$ 1,106,703	\$ 9,564
1-Dec-11	144	\$ -	1.384	0.992	\$ -	543	1.016	1988	\$ 786,440	\$ 12,449
1-Dec-12	132	\$ -	1.344	1.037	\$ -	401	1.026	1581	\$ 454,835	\$ 11,366
1-Dec-13	120	\$ -	1.305	1.037	\$ -	401	1.035	1276	\$ 378,051	\$ 12,941
1-Dec-14	108	\$ 50,715	1.267	1.076	\$ 69,151	242	1.045	1055	\$ 187,119	\$ 58,772
1-Dec-15	96	\$ -	1.230	1.076	\$ -	224	1.055	849	\$ 143,988	\$ 7,497
1-Dec-16	84	\$ -	1.194	1.076	\$ -	239	1.065	672	\$ 125,099	\$ 7,630
1-Dec-17	72	\$ -	1.159	1.076	\$ -	299	1.082	525	\$ 125,660	\$ 9,567
1-Dec-18	60	\$ -	1.126	1.076	\$ -	332	1.114	413	\$ 113,108	\$ 11,551
1-Dec-19	48	\$ -	1.093	1.000	\$ -	365	1.197	332	\$ 110,709	\$ 18,186
1-Dec-20	36	\$ -	1.061	1.000	\$ -	445	1.372	276	\$ 115,679	\$ 31,349
1-Dec-21	24	\$ -	1.030	1.000	\$ -	406	1.791	245	\$ 96,477	\$ 42,602
1-Dec-22	12	\$ -	1.000	1.000	\$ -	378	3.070	231	\$ 87,460	\$ 58,974
Total		\$ 25,820,715			\$ 50,725,225	7,767			\$ 25,609,820	\$ 26,068,834

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (Medical Malpractice - Oak Forest & Unspecified / Ambulatory)

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Medical Malpractice - Oak Forest & Unspecified / Ambulatory**

**Medical Malpractice - Oak Forest & Unspecified / Ambulatory Experience @ 11/30/23  
Generalized Cape Cod Paid Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Paid Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Paid Loss	Trended Occupied Bed Equivalents	Paid LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 850,000	1.860	1.183	\$ 1,870,237	271	1.000	23948	\$ 2,946,970	\$ 850,000
1-Dec-02	252	\$ 1,850,000	1.806	1.119	\$ 3,739,318	282	1.000	25789	\$ 3,595,630	\$ 1,850,000
1-Dec-03	240	\$ 20,375,000	1.754	1.119	\$ 39,983,524	315	1.000	28366	\$ 4,549,853	\$ 20,375,000
1-Dec-04	228	\$ 1,900,000	1.702	1.119	\$ 3,619,927	321	1.000	20509	\$ 3,459,144	\$ 1,900,000
1-Dec-05	216	\$ 620,000	1.653	1.119	\$ 1,146,834	312	1.000	14686	\$ 2,480,101	\$ 620,000
1-Dec-06	204	\$ -	1.605	1.119	\$ -	283	1.000	10488	\$ 1,651,954	\$ -
1-Dec-07	192	\$ -	1.558	1.119	\$ -	234	1.000	7508	\$ 1,005,681	\$ -
1-Dec-08	180	\$ 175,000	1.513	1.119	\$ 296,234	281	1.002	5310	\$ 880,350	\$ 176,648
1-Dec-09	168	\$ -	1.469	0.992	\$ -	592	1.006	3688	\$ 1,497,615	\$ 8,643
1-Dec-10	156	\$ -	1.426	0.992	\$ -	602	1.012	2710	\$ 1,153,726	\$ 13,270
1-Dec-11	144	\$ -	1.384	0.992	\$ -	543	1.023	2101	\$ 830,896	\$ 18,974
1-Dec-12	132	\$ -	1.344	1.037	\$ -	401	1.041	1704	\$ 490,234	\$ 19,191
1-Dec-13	120	\$ -	1.305	1.037	\$ -	401	1.066	1414	\$ 418,963	\$ 25,910
1-Dec-14	108	\$ 715	1.267	1.076	\$ 975	242	1.103	1217	\$ 215,827	\$ 20,939
1-Dec-15	96	\$ -	1.230	1.076	\$ -	224	1.182	1056	\$ 179,039	\$ 27,596
1-Dec-16	84	\$ -	1.194	1.076	\$ -	239	1.408	925	\$ 172,398	\$ 49,967
1-Dec-17	72	\$ -	1.159	1.076	\$ -	299	1.722	826	\$ 197,768	\$ 82,931
1-Dec-18	60	\$ -	1.126	1.076	\$ -	332	3.380	771	\$ 211,212	\$ 148,722
1-Dec-19	48	\$ -	1.093	1.000	\$ -	365	8.597	747	\$ 249,204	\$ 220,215
1-Dec-20	36	\$ -	1.061	1.000	\$ -	445	42.046	740	\$ 310,530	\$ 303,145
1-Dec-21	24	\$ -	1.030	1.000	\$ -	406	4736.507	740	\$ 291,970	\$ 291,909
1-Dec-22	12	\$ -	1.000	1.000	\$ -	378	9473.014	740	\$ 280,072	\$ 280,042
<b>Total</b>		<b>\$ 25,770,715</b>			<b>\$ 50,657,049</b>	<b>7,767</b>			<b>\$ 27,069,136</b>	<b>\$ 27,283,100</b>

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (Medical Malpractice - Oak Forest & Unspecified / Ambulatory)

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Medical Malpractice - Oak Forest & Unspecified / Ambulatory**

**Medical Malpractice - Oak Forest & Unspecified / Ambulatory Experience @ 11/30/23  
Frequency & Severity Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Reported Claims	Claim CDF	Ultimate Claims	Severity LDF	Reported Severity	Ultimate Reported Severity	Unreported Claims	Ultimate Unreported Severity	Ultimate Loss
Prior	276	132	1.000	132	1.000	\$ 366,387	\$ 366,387	0	\$ 363,115	\$ 48,363,067
1-Dec-01	264	8	1.000	8	1.000	\$ 106,250	\$ 106,250	0	\$ 416,934	\$ 850,000
1-Dec-02	252	11	1.000	11	1.000	\$ 168,182	\$ 168,182	0	\$ 464,432	\$ 1,850,000
1-Dec-03	240	9	1.000	9	1.000	\$ 2,263,889	\$ 2,263,889	0	\$ 512,861	\$ 20,375,000
1-Dec-04	228	11	1.000	11	1.000	\$ 172,727	\$ 172,727	0	\$ 465,227	\$ 1,900,000
1-Dec-05	216	14	1.000	14	1.000	\$ 44,286	\$ 44,286	0	\$ 419,358	\$ 620,000
1-Dec-06	204	5	1.000	5	1.000	\$ -	\$ -	0	\$ 396,656	\$ -
1-Dec-07	192	4	1.000	4	1.000	\$ -	\$ -	0	\$ 377,970	\$ -
1-Dec-08	180	2	1.000	2	1.001	\$ 87,500	\$ 87,582	0	\$ 363,997	\$ 175,164
1-Dec-09	168	2	1.000	2	1.004	\$ -	\$ -	0	\$ 389,640	\$ -
1-Dec-10	156	3	1.000	3	1.009	\$ -	\$ -	0	\$ 367,455	\$ -
1-Dec-11	144	1	1.000	1	1.016	\$ -	\$ -	0	\$ 355,978	\$ -
1-Dec-12	132	1	1.000	1	1.026	\$ -	\$ -	0	\$ 328,057	\$ -
1-Dec-13	120	0	1.000	0	1.035	\$ -	\$ -	0	\$ 315,580	\$ -
1-Dec-14	108	2	1.000	2	1.045	\$ 25,358	\$ 26,498	0	\$ 280,503	\$ 52,997
1-Dec-15	96	0	1.000	0	1.055	\$ -	\$ -	0	\$ 270,528	\$ -
1-Dec-16	84	0	1.000	0	1.065	\$ -	\$ -	0	\$ 250,318	\$ -
1-Dec-17	72	1	1.000	1	1.082	\$ -	\$ -	0	\$ 218,365	\$ -
1-Dec-18	60	1	1.008	1	1.105	\$ -	\$ -	0	\$ 192,588	\$ -
1-Dec-19	48	1	1.023	1	1.169	\$ -	\$ -	0	\$ 187,474	\$ -
1-Dec-20	36	1	1.066	1	1.287	\$ -	\$ -	0	\$ 177,502	\$ -
1-Dec-21	24	0	1.234	0	1.451	\$ -	\$ -	0	\$ 182,827	\$ -
1-Dec-22	12	0	1.638	0	1.875	\$ -	\$ -	0	\$ 188,312	\$ -
Total		209		209				0		\$ 74,186,228

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (6) : from {Exhibit 3, Column (4)} / Column (4)

Column (7) : from {Exhibit 3, Column (3)} / Column (3)

Column (8) : Column (6) X Column (7)

Column (9) : Column (5) - Column (3)

Column (10) : Weighted Average of Column (8) adjusted for Trend and Retention

Column (11) : Column (3) X Column (8) + Column (9) X Column (10)





**Cook County, Illinois  
Medical Malpractice - Oak Forest & Unspecified / Ambulatory**

**Medical Malpractice - Oak Forest & Unspecified / Ambulatory Experience @ 11/30/23  
Incurred Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Incurred Losses	Incurred LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	IBNR Factor	IBNR	Expected Ultimate Loss
1-Dec-01	Various	\$ 850,000	1.000	31	1.183	27	\$ 7,205	0.000	\$ -	\$ 850,000
1-Dec-02	Various	\$ 1,850,000	1.000	32	1.119	29	\$ 8,163	0.000	\$ -	\$ 1,850,000
1-Dec-03	\$ 20,000,000	\$ 20,375,000	1.000	33	1.119	30	\$ 9,391	0.000	\$ -	\$ 20,375,000
1-Dec-04	\$ 20,000,000	\$ 1,900,000	1.000	34	1.119	31	\$ 9,875	0.000	\$ -	\$ 1,900,000
1-Dec-05	\$ 20,000,000	\$ 620,000	1.000	35	1.119	32	\$ 9,887	0.000	\$ -	\$ 620,000
1-Dec-06	\$ 20,000,000	\$ -	1.000	36	1.119	33	\$ 9,222	0.000	\$ -	\$ -
1-Dec-07	\$ 20,000,000	\$ -	1.000	38	1.119	34	\$ 7,843	0.000	\$ -	\$ -
1-Dec-08	\$ 20,000,000	\$ 175,000	1.001	39	1.119	35	\$ 9,707	0.001	\$ 9	\$ 175,009
1-Dec-09	Various	\$ -	1.004	40	0.992	40	\$ 23,776	0.004	\$ 92	\$ 92
1-Dec-10	\$ 40,000,000	\$ -	1.009	41	0.992	41	\$ 24,921	0.009	\$ 215	\$ 215
1-Dec-11	\$ 40,000,000	\$ -	1.016	42	0.992	43	\$ 23,156	0.016	\$ 367	\$ 367
1-Dec-12	Various	\$ -	1.026	44	1.037	42	\$ 16,848	0.025	\$ 421	\$ 421
1-Dec-13	\$ 30,000,000	\$ -	1.035	45	1.037	43	\$ 17,353	0.034	\$ 594	\$ 594
1-Dec-14	Various	\$ 50,715	1.045	46	1.076	43	\$ 10,382	0.043	\$ 447	\$ 51,162
1-Dec-15	\$ 25,000,000	\$ -	1.055	48	1.076	44	\$ 9,928	0.052	\$ 517	\$ 517
1-Dec-16	\$ 25,000,000	\$ -	1.065	49	1.076	46	\$ 10,906	0.061	\$ 665	\$ 665
1-Dec-17	\$ 25,000,000	\$ -	1.082	51	1.076	47	\$ 14,018	0.076	\$ 1,067	\$ 1,067
1-Dec-18	\$ 25,000,000	\$ -	1.114	52	1.076	48	\$ 16,029	0.102	\$ 1,637	\$ 1,637
1-Dec-19	Various	\$ -	1.197	54	1.000	54	\$ 19,530	0.164	\$ 3,208	\$ 3,208
1-Dec-20	\$ 35,000,000	\$ -	1.372	55	1.000	55	\$ 24,553	0.271	\$ 6,654	\$ 6,654
1-Dec-21	\$ 35,000,000	\$ -	1.791	57	1.000	57	\$ 23,089	0.442	\$ 10,195	\$ 10,195
1-Dec-22	\$ 35,000,000	\$ -	3.070	59	1.000	59	\$ 22,149	0.674	\$ 14,935	\$ 14,935
Total		\$ 25,820,715					\$ 327,930		\$ 41,024	\$ 25,861,739

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Occupied Bed Equivalents) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Medical Malpractice - Oak Forest & Unspecified / Ambulatory**

**Medical Malpractice - Oak Forest & Unspecified / Ambulatory Experience @ 11/30/23  
Paid Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Paid Losses	Paid LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	Unpaid Factor	Unpaid	Expected Ultimate Loss
1-Dec-01	Various	\$ 850,000	1.000	31	1.183	27	\$ 7,205	0.000	\$ -	\$ 850,000
1-Dec-02	Various	\$ 1,850,000	1.000	32	1.119	29	\$ 8,163	0.000	\$ -	\$ 1,850,000
1-Dec-03	\$ 20,000,000	\$ 20,375,000	1.000	33	1.119	30	\$ 9,391	0.000	\$ -	\$ 20,375,000
1-Dec-04	\$ 20,000,000	\$ 1,900,000	1.000	34	1.119	31	\$ 9,875	0.000	\$ -	\$ 1,900,000
1-Dec-05	\$ 20,000,000	\$ 620,000	1.000	35	1.119	32	\$ 9,887	0.000	\$ -	\$ 620,000
1-Dec-06	\$ 20,000,000	\$ -	1.000	36	1.119	33	\$ 9,222	0.000	\$ -	\$ -
1-Dec-07	\$ 20,000,000	\$ -	1.000	38	1.119	34	\$ 7,843	0.000	\$ -	\$ -
1-Dec-08	\$ 20,000,000	\$ 175,000	1.002	39	1.119	35	\$ 9,707	0.002	\$ 18	\$ 175,018
1-Dec-09	Various	\$ -	1.006	40	0.992	40	\$ 23,776	0.006	\$ 137	\$ 137
1-Dec-10	\$ 40,000,000	\$ -	1.012	41	0.992	41	\$ 24,921	0.012	\$ 287	\$ 287
1-Dec-11	\$ 40,000,000	\$ -	1.023	42	0.992	43	\$ 23,156	0.023	\$ 529	\$ 529
1-Dec-12	Various	\$ -	1.041	44	1.037	42	\$ 16,848	0.039	\$ 660	\$ 660
1-Dec-13	\$ 30,000,000	\$ -	1.066	45	1.037	43	\$ 17,353	0.062	\$ 1,073	\$ 1,073
1-Dec-14	Various	\$ 715	1.103	46	1.076	43	\$ 10,382	0.094	\$ 973	\$ 1,688
1-Dec-15	\$ 25,000,000	\$ -	1.182	48	1.076	44	\$ 9,928	0.154	\$ 1,530	\$ 1,530
1-Dec-16	\$ 25,000,000	\$ -	1.408	49	1.076	46	\$ 10,906	0.290	\$ 3,161	\$ 3,161
1-Dec-17	\$ 25,000,000	\$ -	1.722	51	1.076	47	\$ 14,018	0.419	\$ 5,878	\$ 5,878
1-Dec-18	\$ 25,000,000	\$ -	3.380	52	1.076	48	\$ 16,029	0.704	\$ 11,287	\$ 11,287
1-Dec-19	Various	\$ -	8.597	54	1.000	54	\$ 19,530	0.884	\$ 17,258	\$ 17,258
1-Dec-20	\$ 35,000,000	\$ -	42.046	55	1.000	55	\$ 24,553	0.976	\$ 23,969	\$ 23,969
1-Dec-21	\$ 35,000,000	\$ -	4736.507	57	1.000	57	\$ 23,089	1.000	\$ 23,084	\$ 23,084
1-Dec-22	\$ 35,000,000	\$ -	9473.014	59	1.000	59	\$ 22,149	1.000	\$ 22,147	\$ 22,147
Total		\$ 25,770,715					\$ 327,930		\$ 111,991	\$ 25,882,706

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Occupied Bed Equivalents) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Medical Malpractice - Oak Forest & Unspecified / Ambulatory**

**Medical Malpractice - Oak Forest & Unspecified / Ambulatory Experience @ 11/30/23  
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred LDF's		(4) Paid LDF's		(6) Claim CDF	(8) Trend Factors		(9) Occupied Bed Equivalents
	Unlimited	Limited	Unlimited	Limited		Loss	Exposure	
Prior	1.000	1.000	1.000	1.000	1.000	1.916	1.000	-
1-Dec-01	1.000	1.000	1.000	1.000	1.000	1.860	1.000	271
1-Dec-02	1.000	1.000	1.000	1.000	1.000	1.806	1.000	282
1-Dec-03	1.000	1.000	1.000	1.000	1.000	1.754	1.000	315
1-Dec-04	1.000	1.000	1.000	1.000	1.000	1.702	1.000	321
1-Dec-05	1.000	1.000	1.000	1.000	1.000	1.653	1.000	312
1-Dec-06	1.000	1.000	1.000	1.000	1.000	1.605	1.000	283
1-Dec-07	1.000	1.000	1.000	1.000	1.000	1.558	1.000	234
1-Dec-08	1.001	1.001	1.002	1.002	1.000	1.513	1.000	281
1-Dec-09	1.004	1.004	1.006	1.006	1.000	1.469	1.000	592
1-Dec-10	1.009	1.009	1.012	1.012	1.000	1.426	1.000	602
1-Dec-11	1.017	1.016	1.024	1.023	1.000	1.384	1.000	543
1-Dec-12	1.027	1.026	1.043	1.041	1.000	1.344	1.000	401
1-Dec-13	1.037	1.035	1.069	1.066	1.000	1.305	1.000	401
1-Dec-14	1.047	1.045	1.109	1.103	1.000	1.267	1.000	242
1-Dec-15	1.058	1.055	1.192	1.182	1.000	1.230	1.000	224
1-Dec-16	1.069	1.065	1.431	1.408	1.000	1.194	1.000	239
1-Dec-17	1.087	1.082	1.762	1.722	1.000	1.159	1.000	299
1-Dec-18	1.120	1.114	3.512	3.380	1.008	1.126	1.000	332
1-Dec-19	1.203	1.197	8.884	8.597	1.023	1.093	1.000	365
1-Dec-20	1.384	1.372	43.532	42.046	1.066	1.061	1.000	445
1-Dec-21	1.813	1.791	4904.601	4736.507	1.234	1.030	1.000	406
1-Dec-22	3.128	3.070	9809.202	9473.014	1.638	1.000	1.000	378

Methods Included in Analysis :  
Source Used for LDFs :

**Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity  
Company Exclusively**

LDF Annual Decay Rate (Incurred/Paid/Clm Count):  
ELR for B/F Method :  
Generalized Cape Cod Decay Factor:  
Loss Limitation :  
Discount Rates :

**0.75                      0.75                      0.75**  
**60**  
**0.75**  
**Exhibit 10, Column (5)**  
**4.48%**

**Column (2) : Company Exclusively**  
**Column (3) : Exhibit 13, Sheet 1, Column (15)**  
**Column (4) : Company Exclusively**

**Column (5) : Exhibit 13, Sheet 2, Column (15)**  
**Column (6) : Company Exclusively**  
**Column (7) : Aon Compilation of Estimated Trends**

**Column (8) : Flat 0.00%**  
**Column (9) : supplied by Cook County, Illinois**



**Cook County, Illinois  
Medical Malpractice - Oak Forest & Unspecified / Ambulatory**

**Medical Malpractice - Oak Forest & Unspecified / Ambulatory Experience @ 11/30/23  
Limited Loss Calculations**

(1) Policy Period Inception	(2)			(3)	(4)	(5)	(6)			(7)	(8)	(9)	(10)			(11)	(12)
	Unlimited			Case O/S	Retention	No.	Claims valued over the Retention			Incurred	No.	Paid	Limited			Paid	Case O/S
Incurred	Paid		Incurred					Paid	Incurred					Paid	Incurred		
Prior	\$ 48,363,067	\$ 48,363,067	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 48,363,067	\$ 48,363,067	\$ -	-	-
1-Dec-01	\$ 850,000	\$ 850,000	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 850,000	\$ 850,000	\$ -	-	-
1-Dec-02	\$ 1,850,000	\$ 1,850,000	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 1,850,000	\$ 1,850,000	\$ -	-	-
1-Dec-03	\$ 20,375,000	\$ 20,375,000	\$ -	Various	\$ 20,000,000	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 20,375,000	\$ 20,375,000	\$ -	-	-
1-Dec-04	\$ 1,900,000	\$ 1,900,000	\$ -	Various	\$ 20,000,000	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 1,900,000	\$ 1,900,000	\$ -	-	-
1-Dec-05	\$ 620,000	\$ 620,000	\$ -	Various	\$ 20,000,000	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 620,000	\$ 620,000	\$ -	-	-
1-Dec-06	\$ -	\$ -	\$ -	Various	\$ 20,000,000	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-	-
1-Dec-07	\$ -	\$ -	\$ -	Various	\$ 20,000,000	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-	-
1-Dec-08	\$ 175,000	\$ 175,000	\$ -	Various	\$ 20,000,000	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 175,000	\$ 175,000	\$ -	-	-
1-Dec-09	\$ -	\$ -	\$ -	Various	\$ 20,000,000	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-	-
1-Dec-10	\$ -	\$ -	\$ -	Various	\$ 40,000,000	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-	-
1-Dec-11	\$ -	\$ -	\$ -	Various	\$ 40,000,000	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-	-
1-Dec-12	\$ -	\$ -	\$ -	Various	Various	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-	-
1-Dec-13	\$ -	\$ -	\$ -	Various	\$ 30,000,000	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-	-
1-Dec-14	\$ 50,715	\$ 715	\$ 50,000	Various	Various	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 50,715	\$ 715	\$ 50,000	50,000	-
1-Dec-15	\$ -	\$ -	\$ -	Various	\$ 25,000,000	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-	-
1-Dec-16	\$ -	\$ -	\$ -	Various	\$ 25,000,000	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-	-
1-Dec-17	\$ -	\$ -	\$ -	Various	\$ 25,000,000	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-	-
1-Dec-18	\$ -	\$ -	\$ -	Various	\$ 25,000,000	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-	-
1-Dec-19	\$ -	\$ -	\$ -	Various	Various	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-	-
1-Dec-20	\$ -	\$ -	\$ -	Various	\$ 35,000,000	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-	-
1-Dec-21	\$ -	\$ -	\$ -	Various	\$ 35,000,000	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-	-
1-Dec-22	\$ -	\$ -	\$ -	Various	\$ 35,000,000	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-	-
	\$ 74,183,782	\$ 74,133,782	\$ 50,000			\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 74,183,782	\$ 74,133,782	\$ 50,000	50,000	-

Column (2) and Column (3) : Supplied by Cook County, Illinois  
 Column (4) : Column (2) - Column (3)  
 Column (5) : Individual loss limitation

Column (6) through Column (9) : supplied by Cook County, Illinois  
 Column (10) : Column (2) - Column (7) + [Column (5) x Column (6)]  
 Column (11) : Column (3) - Column (9) + [Column (5) x Column (8)]



**Cook County, Illinois  
Medical Malpractice - Oak Forest & Unspecified / Ambulatory**

**Medical Malpractice - Oak Forest & Unspecified / Ambulatory Experience @ 11/30/23  
Selected Ultimate Claim Counts**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Policy Period Inception	Trended Occupied Bed Equivalents	Reported Claims	Claim CDF	Chain-Ladder Developed Claims	Frequency Trend	Trended Developed Claims	Trended Frequency Rate	Bornhuetter-Ferguson Developed	Selected Trended Claims	Selected Untrended Claims	Trended Frequency Rate
1-Dec-01	271	8	1.000	8	1.000	8	2.95461%		8	8	2.95461%
1-Dec-02	282	11	1.000	11	1.000	11	3.90324%		11	11	3.90324%
1-Dec-03	315	9	1.000	9	1.000	9	2.85929%		9	9	2.85929%
1-Dec-04	321	11	1.000	11	1.000	11	3.42318%		11	11	3.42318%
1-Dec-05	312	14	1.000	14	1.000	14	4.48174%		14	14	4.48174%
1-Dec-06	283	5	1.000	5	1.000	5	1.76768%		5	5	1.76768%
1-Dec-07	234	4	1.000	4	1.000	4	1.71267%		4	4	1.71267%
1-Dec-08	281	2	1.000	2	1.000	2	0.71262%		2	2	0.71262%
1-Dec-09	592	2	1.000	2	1.000	2	0.33803%		2	2	0.33803%
1-Dec-10	602	3	1.000	3	1.000	3	0.49827%		3	3	0.49827%
1-Dec-11	543	1	1.000	1	1.000	1	0.18411%		1	1	0.18411%
1-Dec-12	401	1	1.000	1	1.000	1	0.24941%		1	1	0.24941%
1-Dec-13	401	0	1.000	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-14	242	2	1.000	2	1.000	2	0.82721%		2	2	0.82721%
1-Dec-15	224	0	1.000	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-16	239	0	1.000	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-17	299	1	1.000	1	1.000	1	0.33472%		1	1	0.33472%
1-Dec-18	332	1	1.008	1	1.000	1	0.30395%		1	1	0.30395%
1-Dec-19	365	1	1.023	1	1.000	1	0.28072%		1	1	0.28072%
1-Dec-20	445	1	1.066	1	1.000	1	0.23950%		1	1	0.23950%
1-Dec-21	406	0	1.234	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-22	378	0	1.638	0	1.000	0	0.00000%		0	0	0.00000%
Total	7,767	77		77		77	0.99263%		77	77	0.99263%

Column (2) : from Exhibit 4  
 Column (3) : supplied by Cook County, Illinois  
 Column (4) : from Exhibit 9

Column (5) : Column (3) x Column (4)  
 Column (6) : Assumption  
 Column (7) : Column (5) x Column (6)  
 Column (8) : Column (7) / Column (2)

Column (9) : Bornhuetter Method = (3) + (1.0 - 1.0 / (4)) x 11  
 Column (10) : Selected Trended Ultimate Claims  
 Column (11) : Column (10) / Column (6)  
 Column (12) : Column (10) / Column (2)

<b>Selected Frequency Rate for Renewal Policy Period 1-Dec-23</b>				
<u>Weighted Averages through and including Policy Period 1-Dec-22</u>				
Last 5 Policies	1,926		3	0.16083%
Last 3 Policies	1,229		1	0.08667%
Last 2 Policies	785		0	0.00000%
Last 22 Policies	7,767		77	0.99263%
Selected Bornhuetter-Ferguson Frequency Rate				<b>0.11000%</b>
Factor to adjust the Claims / Exposure Trend Rate from Policy Period 1-Dec-22 to Renewal Period 1-Dec-23				1.000
Selected Frequency Rate adjusted to the Renewal Policy Period Level				0.11000%
Occupied Bed Equivalents for 1-Dec-23				378
Projected Count for 1-Dec-23				0.4

**Cook County, Illinois**  
**Medical Malpractice - Oak Forest & Unspecified / Ambulatory**  
**Medical Malpractice - Oak Forest & Unspecified / Ambulatory Experience @ 11/30/23**  
**Losses Limited to Retentions**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
<b>Policy Period Inception</b>	<b>Incurred Loss</b>	<b>Selected Ultimate Loss</b>	<b>Loss Trend Factor</b>	<b>Retention Adjustment Factor</b>	<b>Trended Ultimate Loss</b>	<b>Occupied Bed Equivalents</b>	<b>Exposure Trend Factor</b>	<b>Trended Occupied Bed Equivalents</b>	<b>Trended Loss Rate</b>
1-Dec-01	850,000	850,000	1.916	1.183	1,926,344	271	1.000	271	7,108
1-Dec-02	1,850,000	1,850,000	1.860	1.119	3,851,498	282	1.000	282	13,658
1-Dec-03	20,375,000	20,375,000	1.806	1.119	41,183,030	315	1.000	315	130,740
1-Dec-04	1,900,000	1,900,000	1.754	1.119	3,728,525	321	1.000	321	11,615
1-Dec-05	620,000	620,000	1.702	1.119	1,181,239	312	1.000	312	3,786
1-Dec-06	-	-	1.653	1.119	-	283	1.000	283	0
1-Dec-07	-	-	1.605	1.119	-	234	1.000	234	0
1-Dec-08	175,000	175,000	1.558	1.119	305,121	281	1.000	281	1,086
1-Dec-09	-	-	1.513	0.992	-	592	1.000	592	0
1-Dec-10	-	-	1.469	0.992	-	602	1.000	602	0
1-Dec-11	-	-	1.426	0.992	-	543	1.000	543	0
1-Dec-12	-	-	1.384	1.037	-	401	1.000	401	0
1-Dec-13	-	-	1.344	1.037	-	401	1.000	401	0
1-Dec-14	50,715	55,000	1.305	1.076	77,244	242	1.000	242	319
1-Dec-15	-	-	1.267	1.076	-	224	1.000	224	0
1-Dec-16	-	4,000	1.230	1.076	5,295	239	1.000	239	22
1-Dec-17	-	10,000	1.194	1.076	12,853	299	1.000	299	43
1-Dec-18	-	11,000	1.159	1.076	13,726	332	1.000	332	41
1-Dec-19	-	11,000	1.126	1.000	12,381	365	1.000	365	34
1-Dec-20	-	15,000	1.093	1.000	16,391	445	1.000	445	37
1-Dec-21	-	17,000	1.061	1.000	18,035	406	1.000	406	44
1-Dec-22	-	19,000	1.030	1.000	19,570	378	1.000	378	52
<b>All Year Weighted Average</b>					52,351,252			7,768	6,739
<b>Latest 5-Year Weighted Average</b>					80,103			1,926	42
<b>Latest 3-Year Weighted Average</b>					53,996			1,229	44
<b>SELECTED - Based on Shaded PY</b>									<b>60</b>

Column (1) : from Exhibit 10    Column (10) : supplied by Cook County, Illinois  
 Column (2) : from Exhibit 2, Column (10)    Column (7) : Annual Exposure Trend  
 Column (3) : Trend Indices appropriate for Medical Malpractice - Oak Forest & Unspecified / An    Column (8) : Column (6) x Column (7)  
 Column (4) : from Retention Analysis    Column (9) : Column (5) / Column (8)  
 Column (5) : Column (2) x Column (3) x Column (4)

Renewal Projections (Losses and Claims developed to Ultimate)						
	(10)	(11)	(12)	(13)	(14)	(15)
<b>Policy Period Inception</b>	<b>Retention</b>	<b>Occupied Bed Equivalents</b>	<b>Claim Count</b>	<b>Loss Rate</b>	<b>Loss Amount</b>	
1-Dec-23	35,000,000	378	0	60	23,000	
1-Dec-24	35,000,000	378	0	63	24,000	
1-Dec-25	35,000,000	378	0	65	25,000	

Columns (11) - (15) : Projections. These are preliminary and should be monitored with actuarial updates.



**Cook County, Illinois  
Medical Malpractice - Oak Forest & Unspecified / Ambulatory**

Average : \$296,223    sigma = 1.954  
CV : 6.67                mu = 10.691

**Limitation of Incurred LDF's for Medical Malpractice - Oak Forest & Unspecified / Ambulatory**

Evaluation	(1) Incurred LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.000	1.000	10,000,000	2.778	0.825	0.997	0.795	262,888	10,000,000	2.778	0.825	0.997	0.795	262,888	1.000
264	1.000	1.000	15,000,000	2.986	1.032	0.999	0.849	272,710	15,000,000	2.986	1.032	0.999	0.849	272,710	1.000
252	1.000	1.000	20,000,000	3.133	1.179	0.999	0.881	278,241	20,000,000	3.133	1.179	0.999	0.881	278,241	1.000
240	1.000	1.000	20,000,000	3.133	1.179	0.999	0.881	278,241	20,000,000	3.133	1.179	0.999	0.881	278,241	1.000
228	1.000	1.000	20,000,000	3.133	1.179	0.999	0.881	278,241	20,000,000	3.133	1.179	0.999	0.881	278,241	1.000
216	1.000	1.000	20,000,000	3.133	1.179	0.999	0.881	278,241	20,000,000	3.133	1.179	0.999	0.881	278,241	1.000
204	1.000	1.000	20,000,000	3.133	1.179	0.999	0.881	278,241	20,000,000	3.133	1.179	0.999	0.881	278,241	1.000
192	1.000	1.000	20,000,000	3.133	1.179	0.999	0.881	278,241	20,000,000	3.133	1.179	0.999	0.881	278,241	1.000
180	1.001	1.000	20,000,000	3.133	1.179	0.999	0.881	278,241	20,020,000	3.134	1.180	0.999	0.881	278,258	1.001
168	1.004	1.000	40,000,000	3.488	1.534	1.000	0.938	287,453	40,160,120	3.490	1.536	1.000	0.938	287,491	1.004
156	1.009	1.000	40,000,000	3.488	1.534	1.000	0.938	287,453	40,360,921	3.492	1.539	1.000	0.938	287,540	1.009
144	1.017	1.000	40,000,000	3.488	1.534	1.000	0.938	287,453	40,665,928	3.496	1.543	1.000	0.939	287,612	1.016
132	1.027	1.000	30,000,000	3.341	1.387	1.000	0.917	284,259	30,804,440	3.354	1.401	1.000	0.919	284,587	1.026
120	1.037	1.000	30,000,000	3.341	1.387	1.000	0.917	284,259	31,112,485	3.359	1.406	1.000	0.920	284,709	1.035
108	1.047	1.000	25,000,000	3.247	1.294	0.999	0.902	281,791	26,186,341	3.271	1.317	0.999	0.906	282,454	1.045
96	1.058	1.000	25,000,000	3.247	1.294	0.999	0.902	281,791	26,448,205	3.276	1.322	0.999	0.907	282,593	1.055
84	1.069	1.000	25,000,000	3.247	1.294	0.999	0.902	281,791	26,712,687	3.281	1.328	0.999	0.908	282,731	1.065
72	1.087	1.000	25,000,000	3.247	1.294	0.999	0.902	281,791	27,172,938	3.290	1.336	0.999	0.909	282,965	1.082
60	1.120	1.008	25,000,000	3.247	1.294	0.999	0.902	281,791	27,762,415	3.301	1.347	1.000	0.911	283,255	1.114
48	1.203	1.023	35,000,000	3.419	1.466	1.000	0.929	286,070	41,164,960	3.503	1.549	1.000	0.939	287,728	1.197
36	1.384	1.066	35,000,000	3.419	1.466	1.000	0.929	286,070	45,459,824	3.553	1.600	1.000	0.945	288,628	1.372
24	1.813	1.234	35,000,000	3.419	1.466	1.000	0.929	286,070	51,431,592	3.617	1.663	1.000	0.952	289,634	1.791
12	3.128	1.638	35,000,000	3.419	1.466	1.000	0.929	286,070	66,837,809	3.751	1.797	1.000	0.964	291,405	3.070

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve



**Cook County, Illinois  
Medical Malpractice - Oak Forest & Unspecified / Ambulatory**

Average : \$296,223      sigma = 1.954  
CV : 6.67              mu = 10.691

**Limitation of Paid LDF's for Medical Malpractice - Oak Forest & Unspecified / Ambulatory**

Evaluation	(1) Paid LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.000	1.000	10,000,000	2.778	0.825	0.997	0.795	262,888	10,000,000	2.778	0.825	0.997	0.795	262,888	1.000
264	1.000	1.000	15,000,000	2.986	1.032	0.999	0.849	272,710	15,000,000	2.986	1.032	0.999	0.849	272,710	1.000
252	1.000	1.000	20,000,000	3.133	1.179	0.999	0.881	278,241	20,000,000	3.133	1.179	0.999	0.881	278,241	1.000
240	1.000	1.000	20,000,000	3.133	1.179	0.999	0.881	278,241	20,000,000	3.133	1.179	0.999	0.881	278,241	1.000
228	1.000	1.000	20,000,000	3.133	1.179	0.999	0.881	278,241	20,000,000	3.133	1.179	0.999	0.881	278,241	1.000
216	1.000	1.000	20,000,000	3.133	1.179	0.999	0.881	278,241	20,000,000	3.133	1.179	0.999	0.881	278,241	1.000
204	1.000	1.000	20,000,000	3.133	1.179	0.999	0.881	278,241	20,000,000	3.133	1.179	0.999	0.881	278,241	1.000
192	1.000	1.000	20,000,000	3.133	1.179	0.999	0.881	278,241	20,000,000	3.133	1.179	0.999	0.881	278,241	1.000
180	1.002	1.000	20,000,000	3.133	1.179	0.999	0.881	278,241	20,040,000	3.134	1.180	0.999	0.881	278,275	1.002
168	1.006	1.000	40,000,000	3.488	1.534	1.000	0.938	287,453	40,240,320	3.491	1.537	1.000	0.938	287,511	1.006
156	1.012	1.000	40,000,000	3.488	1.534	1.000	0.938	287,453	40,481,762	3.494	1.540	1.000	0.938	287,568	1.012
144	1.024	1.000	40,000,000	3.488	1.534	1.000	0.938	287,453	40,967,543	3.500	1.546	1.000	0.939	287,683	1.023
132	1.043	1.000	30,000,000	3.341	1.387	1.000	0.917	284,259	31,278,719	3.362	1.408	1.000	0.920	284,774	1.041
120	1.069	1.000	30,000,000	3.341	1.387	1.000	0.917	284,259	32,069,074	3.375	1.421	1.000	0.922	285,072	1.066
108	1.109	1.000	25,000,000	3.247	1.294	0.999	0.902	281,791	27,726,387	3.300	1.347	1.000	0.911	283,238	1.103
96	1.192	1.000	25,000,000	3.247	1.294	0.999	0.902	281,791	29,805,866	3.337	1.384	1.000	0.917	284,178	1.182
84	1.431	1.000	25,000,000	3.247	1.294	0.999	0.902	281,791	35,767,039	3.431	1.477	1.000	0.930	286,306	1.408
72	1.762	1.000	25,000,000	3.247	1.294	0.999	0.902	281,791	44,056,480	3.537	1.584	1.000	0.943	288,353	1.722
60	3.512	1.008	25,000,000	3.247	1.294	0.999	0.902	281,791	87,080,108	3.886	1.932	1.000	0.973	292,764	3.380
48	8.884	1.023	35,000,000	3.419	1.466	1.000	0.929	286,070	303,879,551	4.526	2.572	1.000	0.995	295,640	8.597
36	43.532	1.066	35,000,000	3.419	1.466	1.000	0.929	286,070	1,429,880,567	5.319	3.365	1.000	1.000	296,184	42.046
24	4904.601	1.234	35,000,000	3.419	1.466	1.000	0.929	286,070	139,130,467,968	7.662	5.708	1.000	1.000	296,223	4736.507
12	9809.202	1.638	35,000,000	3.419	1.466	1.000	0.929	286,070	209,630,939,680	7.872	5.918	1.000	1.000	296,223	9473.014

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve





COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - OAK FOREST & UNSPECIFIED / AMBULATORY

Calculation of Occupied Bed Equivalents

Occurrence Period (1)	Inpatients (2)	ER Visits (3)	Other Visits (4)	Other Visits (5)	Other Visits (6)	Physicians (7)	Occupied Bed Equivalents (8)
Prior							
12/1/2001	61	20,542	84,449			71	271
12/1/2002	67	23,156	88,763			70	282
12/1/2003	67	25,006	92,054			85	315
12/1/2004	67	31,162	85,787			83	321
12/1/2005	56	30,249	90,702			84	312
12/1/2006	39	29,012	75,083			82	283
12/1/2007	42	28,768	59,543			58	234
12/1/2008	46	27,785	72,464			79	281
12/1/2009	46	27,785	814,819			86	592
12/1/2010	46	33,000	814,819			86	602
12/1/2011	46	16,500	750,000			86	543
12/1/2012			620,000			81	401
12/1/2013			620,000			81	401
12/1/2014			411,102		47,516	31	242
12/1/2015			399,120		11,148	32	224
12/1/2016			334,779		43,497	46	239
12/1/2017			474,293		33,621	50	299
12/1/2018			554,569		47,296	48	332
12/1/2019			677,711		26,459	44	365
12/1/2020			922,512			40	445
12/1/2021			797,554			46	406
12/1/2022			738,678			44	378
12/1/2023			738,678			44	378

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

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

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

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**Cook County, Illinois  
Medical Malpractice - Oak Forest & Unspecified / Ambulatory  
Projected Losses Paid 12/1/2023 to 11/30/2024**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/23	Percent Losses Paid	Months of Development 11/30/24	Percent Losses Paid	Estimated Outstanding Losses 11/30/23	Projected Losses Paid	Estimated Outstanding Losses 11/30/24	Discount Factor	Discounted Outstanding Losses 11/30/24
Prior	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	180	99.8%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	168	99.4%	180	99.8%	\$ -	\$ -	\$ -	0.978	\$ -
1-Dec-10	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.964	\$ -
1-Dec-11	144	97.6%	156	98.8%	\$ -	\$ -	\$ -	0.951	\$ -
1-Dec-12	132	95.9%	144	97.7%	\$ -	\$ -	\$ -	0.944	\$ -
1-Dec-13	120	93.5%	132	96.1%	\$ -	\$ -	\$ -	0.935	\$ -
1-Dec-14	108	90.2%	120	93.9%	\$ 54,285	\$ 18,726	\$ 35,559	0.926	\$ 32,911
1-Dec-15	96	83.9%	108	90.6%	\$ -	\$ -	\$ -	0.918	\$ -
1-Dec-16	84	69.9%	96	84.6%	\$ 4,000	\$ 585	\$ 3,415	0.918	\$ 3,133
1-Dec-17	72	56.7%	84	71.0%	\$ 10,000	\$ 1,989	\$ 8,011	0.925	\$ 7,410
1-Dec-18	60	28.5%	72	58.1%	\$ 11,000	\$ 2,799	\$ 8,201	0.914	\$ 7,495
1-Dec-19	48	11.3%	60	29.3%	\$ 11,000	\$ 2,195	\$ 8,805	0.916	\$ 8,069
1-Dec-20	36	2.3%	48	11.6%	\$ 15,000	\$ 1,422	\$ 13,578	0.897	\$ 12,184
1-Dec-21	24	0.0%	36	2.4%	\$ 17,000	\$ 401	\$ 16,599	0.870	\$ 14,444
1-Dec-22	12	0.0%	24	0.0%	\$ 19,000	\$ 2	\$ 18,998	0.836	\$ 15,887
1-Dec-23	0	0.0%	12	0.0%	\$ 23,000	\$ 2	\$ 22,998	0.800	\$ 18,408
<b>Total</b>					<b>\$ 164,285</b>	<b>\$ 28,122</b>	<b>\$ 136,163</b>		<b>\$ 119,940</b>

Column (3): 1 / Exhibit 9 Column (3)  
 Column (5): 1 / Rollforward Exhibit Column (54)  
 Column (6): From Executive Summary  
 Column (7): Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)



**Cook County, Illinois  
Medical Malpractice - Oak Forest & Unspecified / Ambulatory  
Projected Losses Paid 12/1/2024 to 11/30/2025**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/24	Percent Losses Paid	Months of Development 11/30/25	Percent Losses Paid	Estimated Outstanding Losses 11/30/24	Projected Losses Paid	Estimated Outstanding Losses 11/30/25	Discount Factor	Discounted Outstanding Losses 11/30/25
Prior	288	100.0%	300	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	180	99.8%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-10	168	99.4%	180	99.8%	\$ -	\$ -	\$ -	0.978	\$ -
1-Dec-11	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.964	\$ -
1-Dec-12	144	97.7%	156	98.9%	\$ -	\$ -	\$ -	0.951	\$ -
1-Dec-13	132	96.1%	144	97.7%	\$ -	\$ -	\$ -	0.944	\$ -
1-Dec-14	120	93.9%	132	96.1%	\$ 35,559	\$ 13,054	\$ 22,505	0.935	\$ 21,043
1-Dec-15	108	90.6%	120	93.9%	\$ -	\$ -	\$ -	0.926	\$ -
1-Dec-16	96	84.6%	108	90.6%	\$ 3,415	\$ 591	\$ 2,824	0.918	\$ 2,591
1-Dec-17	84	71.0%	96	84.6%	\$ 8,011	\$ 1,173	\$ 6,839	0.918	\$ 6,275
1-Dec-18	72	58.1%	84	71.0%	\$ 8,201	\$ 1,631	\$ 6,570	0.925	\$ 6,077
1-Dec-19	60	29.3%	72	57.7%	\$ 8,805	\$ 3,540	\$ 5,265	0.914	\$ 4,812
1-Dec-20	48	11.6%	60	29.3%	\$ 13,578	\$ 2,710	\$ 10,868	0.916	\$ 9,960
1-Dec-21	36	2.4%	48	11.6%	\$ 16,599	\$ 1,574	\$ 15,026	0.897	\$ 13,482
1-Dec-22	24	0.0%	36	2.4%	\$ 18,998	\$ 448	\$ 18,550	0.870	\$ 16,141
1-Dec-23	12	0.0%	24	0.0%	\$ 22,998	\$ 2	\$ 22,995	0.836	\$ 19,230
1-Dec-24	0	0.0%	12	0.0%	\$ 24,000	\$ 3	\$ 23,997	0.800	\$ 19,208
<b>Total</b>					<b>\$ 160,163</b>	<b>\$ 24,724</b>	<b>\$ 135,439</b>		<b>\$ 118,819</b>

Column (3): 1 / Rollforward Exhibit Column (54)  
 Column (5): 1 / Rollforward Exhibit 2 Column (54)  
 Column (6): Rollforward Exhibit Column (21) & Projection  
 Column (7): Rollforward Exhibit 2 Column (31) - Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)



**Cook County, Illinois  
Medical Malpractice - Oak Forest & Unspecified / Ambulatory  
Projected Losses Paid 12/1/2025 to 11/30/2026**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/25	Percent Losses Paid	Months of Development 11/30/26	Percent Losses Paid	Estimated Outstanding Losses 11/30/25	Projected Losses Paid	Estimated Outstanding Losses 11/30/26	Discount Factor	Discounted Outstanding Losses 11/30/26
Prior	300	100.0%	312	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	288	100.0%	300	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-10	180	99.8%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-11	168	99.4%	180	99.8%	\$ -	\$ -	\$ -	0.978	\$ -
1-Dec-12	156	98.9%	168	99.4%	\$ -	\$ -	\$ -	0.964	\$ -
1-Dec-13	144	97.7%	156	98.9%	\$ -	\$ -	\$ -	0.951	\$ -
1-Dec-14	132	96.1%	144	97.8%	\$ 22,505	\$ 9,515	\$ 12,990	0.944	\$ 12,260
1-Dec-15	120	93.9%	132	96.1%	\$ -	\$ -	\$ -	0.935	\$ -
1-Dec-16	108	90.6%	120	93.9%	\$ 2,824	\$ 596	\$ 2,228	0.926	\$ 2,062
1-Dec-17	96	84.6%	108	90.6%	\$ 6,839	\$ 1,183	\$ 5,656	0.918	\$ 5,190
1-Dec-18	84	71.0%	96	84.6%	\$ 6,570	\$ 962	\$ 5,608	0.918	\$ 5,146
1-Dec-19	72	57.7%	84	70.7%	\$ 5,265	\$ 1,126	\$ 4,139	0.925	\$ 3,828
1-Dec-20	60	29.3%	72	57.7%	\$ 10,868	\$ 4,370	\$ 6,499	0.914	\$ 5,939
1-Dec-21	48	11.6%	60	29.3%	\$ 15,026	\$ 2,999	\$ 12,027	0.916	\$ 11,021
1-Dec-22	36	2.4%	48	11.6%	\$ 18,550	\$ 1,758	\$ 16,792	0.897	\$ 15,067
1-Dec-23	24	0.0%	36	2.4%	\$ 22,995	\$ 542	\$ 22,453	0.870	\$ 19,537
1-Dec-24	12	0.0%	24	0.0%	\$ 23,997	\$ 3	\$ 23,995	0.836	\$ 20,066
1-Dec-25	0	0.0%	12	0.0%	\$ 25,000	\$ 3	\$ 24,997	0.800	\$ 20,009
<b>Total</b>					<b>\$ 160,439</b>	<b>\$ 23,056</b>	<b>\$ 137,383</b>		<b>\$ 120,126</b>

Column (3): 1 / Rollforward Exhibit 2 Column (54)  
 Column (5): 1 / Rollforward Exhibit 3 Column (54)  
 Column (6): Rollforward Exhibit 2 Column (21) & Projection  
 Column (7): Rollforward Exhibit 3 Column (31) - Rollforward Exhibit 2 Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)



**Cook County, Illinois**  
**Medical Malpractice - Oak Forest & Unspecified / Ambulatory**  
**Large Claims**

All Claims greater than or equal to \$1,000,000

(1)	(2)	(3)	(4)	(5)
<u>Policy</u> <u>Period</u>	<u>Loss</u> <u>Date</u>	<u>Incurred</u> <u>Loss</u>	<u>Paid</u> <u>Loss</u>	<u>Case</u> <u>Reserves</u>
Prior	9/15/1987	2,500,000	2,500,000	-
Prior	12/15/1993	1,200,000	1,200,000	-
12/1/2003	5/19/2004	20,000,000	20,000,000	-
12/1/2004	11/3/2005	1,000,000	1,000,000	-
Prior	5/15/1978	2,575,459	2,575,459	-
Prior	12/12/1981	5,000,000	5,000,000	-
Prior	9/1/1987	1,155,901	1,155,901	-
Prior	1/13/1988	4,000,000	4,000,000	-
Prior	4/22/1988	1,500,000	1,500,000	-
Prior	1/14/1989	2,750,000	2,750,000	-
Prior	2/1/1990	2,500,000	2,500,000	-
Prior	8/29/1990	6,500,000	6,500,000	-
Prior	3/25/1991	3,500,000	3,500,000	-
Prior	9/1/1998	8,500,000	8,500,000	-



**Cook County, Illinois  
Medical Malpractice - Provident Hospital Experience @ 11/30/23  
Losses Limited to Retentions**

Policy Period	Occupied Bed Equivalents (1)	Retention (2)	Reported Claims (3)	Open Claims (3a)	Incurred (4)	Paid (5)	Case (6)	Est IBNR (7)	Total O/S (8)	Ultimate (9)	Ultimate Loss Rate (10)
							[(6)-(5)]		[(6)+(7)]	[(4)+(7)]	[(9)/(1)]

**Historical Experience**

Prior	-	Various	59	-	13,365,000	13,365,000	-	-	-	13,365,000	-
1-Dec-01	326	Various	12	-	200,000	200,000	-	-	-	200,000	614
1-Dec-02	334	Various	14	-	1,025,000	1,025,000	-	-	-	1,025,000	3,068
1-Dec-03	329	20,000,000	14	-	7,860,000	7,860,000	-	-	-	7,860,000	23,906
1-Dec-04	330	20,000,000	13	-	90,000	90,000	-	-	-	90,000	273
1-Dec-05	322	20,000,000	9	-	425,000	425,000	-	-	-	425,000	1,319
1-Dec-06	309	20,000,000	3	-	-	-	-	-	-	-	-
1-Dec-07	317	20,000,000	3	-	300,000	300,000	-	-	-	300,000	946
1-Dec-08	410	20,000,000	3	-	300,000	300,000	-	-	-	300,000	732
1-Dec-09	303	Various	5	-	800,000	800,000	-	-	-	800,000	2,644
1-Dec-10	303	40,000,000	1	-	-	-	-	-	-	-	-
1-Dec-11	293	40,000,000	4	-	1,815,000	1,815,000	-	-	-	1,815,000	6,204
1-Dec-12	202	Various	4	-	1,175,000	1,175,000	-	-	-	1,175,000	5,805
1-Dec-13	202	30,000,000	3	-	425,000	425,000	-	-	-	425,000	2,100
1-Dec-14	176	Various	1	-	-	-	-	-	-	-	-
1-Dec-15	181	25,000,000	3	-	2,945,000	2,945,000	-	-	-	2,945,000	16,307
1-Dec-16	185	25,000,000	3	-	-	-	-	60,000	60,000	60,000	325
1-Dec-17	167	25,000,000	2	-	-	-	-	120,000	120,000	120,000	718
1-Dec-18	172	25,000,000	4	-	-	-	-	400,000	400,000	400,000	2,325
1-Dec-19	151	Various	2	1	100,000	-	100,000	500,000	600,000	600,000	3,971
1-Dec-20	151	35,000,000	-	-	-	-	-	500,000	500,000	500,000	3,316
1-Dec-21	137	35,000,000	-	-	-	-	-	800,000	800,000	800,000	5,856
1-Dec-22	130	35,000,000	-	-	-	-	-	900,000	900,000	900,000	6,919
<b>Total</b>	<b>5,427</b>		<b>162</b>	<b>1</b>	<b>30,825,000</b>	<b>30,725,000</b>	<b>100,000</b>	<b>3,280,000</b>	<b>3,380,000</b>	<b>34,105,000</b>	<b>3,821</b>

**Full Policy Period Projections**

1-Dec-23	130	35,000,000								1,140,000	8,789
1-Dec-24	130	35,000,000								1,190,000	9,141



**Cook County, Illinois  
Medical Malpractice - Provident Hospital**

**Medical Malpractice - Provident Hospital Experience @ 11/30/23  
Summary of Various Reserving Methods  
Losses Limited to Retentions**

(1)	(2)			(5)			(7)			(9)	(10)
Policy Period Inception	Chain Ladder			Bornhuetter-Ferguson			Generalized Cape Cod			Freq/Sev	Selected Ultimate
	Incurred	Paid	Outstanding	Incurred	Paid	Incurred	Paid	Incurred	Paid		
Prior	\$ 13,365,000	\$ 13,365,000	\$ 13,365,000	N/A	N/A	N/A	N/A	N/A	N/A	\$ 13,365,000	\$ 13,365,000
1-Dec-01	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000
1-Dec-02	\$ 1,025,000	\$ 1,025,000	\$ 1,025,000	\$ 1,025,000	\$ 1,025,000	\$ 1,025,000	\$ 1,025,000	\$ 1,025,000	\$ 1,025,000	\$ 1,025,000	\$ 1,025,000
1-Dec-03	\$ 7,860,000	\$ 7,860,000	\$ 7,860,000	\$ 7,860,000	\$ 7,860,000	\$ 7,860,000	\$ 7,860,000	\$ 7,860,000	\$ 7,860,000	\$ 7,860,000	\$ 7,860,000
1-Dec-04	\$ 90,000	\$ 90,000	\$ 90,000	\$ 90,000	\$ 90,000	\$ 90,000	\$ 90,000	\$ 90,000	\$ 90,000	\$ 90,000	\$ 90,000
1-Dec-05	\$ 425,000	\$ 425,000	\$ 425,000	\$ 425,000	\$ 425,000	\$ 425,000	\$ 425,000	\$ 425,000	\$ 425,000	\$ 425,000	\$ 425,000
1-Dec-06	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-07	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000
1-Dec-08	\$ 300,285	\$ 300,570	\$ 300,000	\$ 302,193	\$ 304,381	\$ 301,026	\$ 302,084	\$ 300,285	\$ 300,285	\$ 300,285	\$ 300,000
1-Dec-09	\$ 803,117	\$ 804,678	\$ 800,000	\$ 806,823	\$ 810,221	\$ 803,231	\$ 804,952	\$ 803,117	\$ 803,117	\$ 803,117	\$ 800,000
1-Dec-10	\$ -	\$ -	\$ -	\$ 15,764	\$ 20,981	\$ 7,588	\$ 10,426	\$ -	\$ -	\$ -	\$ -
1-Dec-11	\$ 1,844,411	\$ 1,857,732	\$ 1,815,000	\$ 1,843,757	\$ 1,856,483	\$ 1,830,514	\$ 1,838,410	\$ 1,844,411	\$ 1,844,411	\$ 1,844,411	\$ 1,815,000
1-Dec-12	\$ 1,205,396	\$ 1,223,317	\$ 1,175,000	\$ 1,207,407	\$ 1,225,759	\$ 1,192,986	\$ 1,205,055	\$ 1,205,396	\$ 1,205,396	\$ 1,205,396	\$ 1,175,000
1-Dec-13	\$ 440,204	\$ 453,278	\$ 425,000	\$ 470,720	\$ 507,580	\$ 449,819	\$ 474,171	\$ 440,204	\$ 440,204	\$ 440,204	\$ 425,000
1-Dec-14	\$ -	\$ -	\$ -	\$ 51,450	\$ 111,914	\$ 28,118	\$ 69,792	\$ -	\$ -	\$ -	\$ -
1-Dec-15	\$ 3,108,475	\$ 3,487,432	\$ 2,945,000	\$ 3,010,891	\$ 3,139,877	\$ 2,984,141	\$ 3,084,658	\$ 3,108,475	\$ 3,108,475	\$ 2,945,000	\$ 2,945,000
1-Dec-16	\$ -	\$ -	\$ -	\$ 81,221	\$ 385,116	\$ 39,383	\$ 242,721	\$ -	\$ -	\$ -	\$ 60,000
1-Dec-17	\$ -	\$ -	\$ -	\$ 94,601	\$ 519,320	\$ 38,039	\$ 298,182	\$ -	\$ -	\$ -	\$ 120,000
1-Dec-18	\$ -	\$ -	\$ -	\$ 134,400	\$ 921,641	\$ 45,660	\$ 502,378	\$ -	\$ -	\$ -	\$ 400,000
1-Dec-19	\$ 119,801	\$ -	\$ 122,979	\$ 294,997	\$ 1,043,598	\$ 158,077	\$ 557,304	\$ 117,079	\$ 117,079	\$ 117,079	\$ 600,000
1-Dec-20	\$ -	\$ -	\$ -	\$ 330,315	\$ 1,184,089	\$ 86,645	\$ 629,294	\$ -	\$ -	\$ -	\$ 500,000
1-Dec-21	\$ -	\$ -	\$ -	\$ 501,419	\$ 1,131,487	\$ 120,674	\$ 601,297	\$ -	\$ -	\$ -	\$ 800,000
1-Dec-22	\$ -	\$ -	\$ -	\$ 749,867	\$ 1,109,788	\$ 173,012	\$ 589,746	\$ -	\$ -	\$ -	\$ 900,000
<b>Total</b>	<b>\$ 31,086,690</b>	<b>\$ 31,392,007</b>	<b>\$ 30,847,979</b>	<b>\$ 19,795,824</b>	<b>\$ 24,172,232</b>	<b>\$ 18,158,914</b>	<b>\$ 21,110,469</b>	<b>\$ 31,083,967</b>	<b>\$ 31,083,967</b>	<b>\$ 34,105,000</b>	<b>\$ 34,105,000</b>

Column (2) : from Exhibit 3, Column (5)  
 Column (3) : from Exhibit 3, Column (8)  
 Column (4) : from Exhibit 3, Column (11)

Column (5) : from Exhibit 7, Column (11)  
 Column (6) : from Exhibit 8, Column (11)  
 Column (7) : from Exhibit 4, Column (11)  
 Column (8) : from Exhibit 5, Column (11)

Column (9) : from Exhibit 6, Column (11)  
 Column (10) : Ultimate



**Cook County, Illinois  
Medical Malpractice - Provident Hospital**

**Medical Malpractice - Provident Hospital Experience @ 11/30/23  
Unpaid Liabilities at Various Discount Rates  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.48%
Prior	276	Various	\$ 13,365,000	\$ 13,365,000	\$ 13,365,000	\$ -	\$ -	\$ -	\$ -
1-Dec-01	264	Various	\$ 200,000	\$ 200,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -
1-Dec-02	252	Various	\$ 1,025,000	\$ 1,025,000	\$ 1,025,000	\$ -	\$ -	\$ -	\$ -
1-Dec-03	240	\$ 20,000,000	\$ 7,860,000	\$ 7,860,000	\$ 7,860,000	\$ -	\$ -	\$ -	\$ -
1-Dec-04	228	\$ 20,000,000	\$ 90,000	\$ 90,000	\$ 90,000	\$ -	\$ -	\$ -	\$ -
1-Dec-05	216	\$ 20,000,000	\$ 425,000	\$ 425,000	\$ 425,000	\$ -	\$ -	\$ -	\$ -
1-Dec-06	204	\$ 20,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-07	192	\$ 20,000,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ -	\$ -	\$ -	\$ -
1-Dec-08	180	\$ 20,000,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ -	\$ -	\$ -	\$ -
1-Dec-09	168	Various	\$ 800,000	\$ 800,000	\$ 800,000	\$ -	\$ -	\$ -	\$ -
1-Dec-10	156	\$ 40,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-11	144	\$ 40,000,000	\$ 1,815,000	\$ 1,815,000	\$ 1,815,000	\$ -	\$ -	\$ -	\$ -
1-Dec-12	132	Various	\$ 1,175,000	\$ 1,175,000	\$ 1,175,000	\$ -	\$ -	\$ -	\$ -
1-Dec-13	120	\$ 30,000,000	\$ 425,000	\$ 425,000	\$ 425,000	\$ -	\$ -	\$ -	\$ -
1-Dec-14	108	Various	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-15	96	\$ 25,000,000	\$ 2,945,000	\$ 2,945,000	\$ 2,945,000	\$ -	\$ -	\$ -	\$ -
1-Dec-16	84	\$ 25,000,000	\$ 60,000	\$ -	\$ -	\$ -	\$ 60,000	\$ 60,000	\$ 55,494
1-Dec-17	72	\$ 25,000,000	\$ 120,000	\$ -	\$ -	\$ -	\$ 120,000	\$ 120,000	\$ 109,657
1-Dec-18	60	\$ 25,000,000	\$ 400,000	\$ -	\$ -	\$ -	\$ 400,000	\$ 400,000	\$ 366,467
1-Dec-19	48	Various	\$ 600,000	\$ 100,000	\$ -	\$ 100,000	\$ 500,000	\$ 600,000	\$ 538,201
1-Dec-20	36	\$ 35,000,000	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000	\$ 500,000	\$ 434,903
1-Dec-21	24	\$ 35,000,000	\$ 800,000	\$ -	\$ -	\$ -	\$ 800,000	\$ 800,000	\$ 668,735
1-Dec-22	12	\$ 35,000,000	\$ 900,000	\$ -	\$ -	\$ -	\$ 900,000	\$ 900,000	\$ 720,084
<b>Total</b>			<b>\$ 34,105,000</b>	<b>\$ 30,825,000</b>	<b>\$ 30,725,000</b>	<b>\$ 100,000</b>	<b>\$ 3,280,000</b>	<b>\$ 3,380,000</b>	<b>\$ 2,893,540</b>

Column (4) : from Exhibit 1, Column (10)  
Columns (5), (6), (7) : Exhibit 10

Column (8) : Column (4) - Column (5)  
Column (9) : Column (4) - Column (6)  
Column (9) : Column (10) discounted





**Cook County, Illinois  
Medical Malpractice - Provident Hospital**

**Medical Malpractice - Provident Hospital Experience @ 11/30/23  
Incurred, Paid, & Outstanding "Chain Ladder" Methods  
Losses Limited to Retentions**

(1)	(2)	(3)			(6)			(9)		
Policy Period Inception	Evaluation in Months	Incurred Chain-Ladder			Paid Chain-Ladder			Outstanding Chain-Ladder		
		Incurred Loss	Incurred LDF	Ultimate Loss	Paid Loss	Paid LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss
Prior	276	\$ 13,365,000	1.000	\$ 13,365,000	\$ 13,365,000	1.000	\$ 13,365,000	\$ -	1.000	\$ 13,365,000
1-Dec-01	264	\$ 200,000	1.000	\$ 200,000	\$ 200,000	1.000	\$ 200,000	\$ -	1.000	\$ 200,000
1-Dec-02	252	\$ 1,025,000	1.000	\$ 1,025,000	\$ 1,025,000	1.000	\$ 1,025,000	\$ -	1.000	\$ 1,025,000
1-Dec-03	240	\$ 7,860,000	1.000	\$ 7,860,000	\$ 7,860,000	1.000	\$ 7,860,000	\$ -	1.000	\$ 7,860,000
1-Dec-04	228	\$ 90,000	1.000	\$ 90,000	\$ 90,000	1.000	\$ 90,000	\$ -	1.000	\$ 90,000
1-Dec-05	216	\$ 425,000	1.000	\$ 425,000	\$ 425,000	1.000	\$ 425,000	\$ -	1.000	\$ 425,000
1-Dec-06	204	\$ -	1.000	\$ -	\$ -	1.000	\$ -	\$ -	1.000	\$ -
1-Dec-07	192	\$ 300,000	1.000	\$ 300,000	\$ 300,000	1.000	\$ 300,000	\$ -	1.000	\$ 300,000
1-Dec-08	180	\$ 300,000	1.001	\$ 300,285	\$ 300,000	1.002	\$ 300,570	\$ -	2.002	\$ 300,000
1-Dec-09	168	\$ 800,000	1.004	\$ 803,117	\$ 800,000	1.006	\$ 804,678	\$ -	3.008	\$ 800,000
1-Dec-10	156	\$ -	1.009	\$ -	\$ -	1.012	\$ -	\$ -	4.022	\$ -
1-Dec-11	144	\$ 1,815,000	1.016	\$ 1,844,411	\$ 1,815,000	1.024	\$ 1,857,732	\$ -	3.260	\$ 1,815,000
1-Dec-12	132	\$ 1,175,000	1.026	\$ 1,205,396	\$ 1,175,000	1.041	\$ 1,223,317	\$ -	2.766	\$ 1,175,000
1-Dec-13	120	\$ 425,000	1.036	\$ 440,204	\$ 425,000	1.067	\$ 453,278	\$ -	2.240	\$ 425,000
1-Dec-14	108	\$ -	1.045	\$ -	\$ -	1.104	\$ -	\$ -	1.851	\$ -
1-Dec-15	96	\$ 2,945,000	1.056	\$ 3,108,475	\$ 2,945,000	1.184	\$ 3,487,432	\$ -	1.511	\$ 2,945,000
1-Dec-16	84	\$ -	1.066	\$ -	\$ -	1.413	\$ -	\$ -	1.267	\$ -
1-Dec-17	72	\$ -	1.083	\$ -	\$ -	1.730	\$ -	\$ -	1.223	\$ -
1-Dec-18	60	\$ -	1.115	\$ -	\$ -	3.408	\$ -	\$ -	1.171	\$ -
1-Dec-19	48	\$ 100,000	1.198	\$ 119,801	\$ -	8.664	\$ -	\$ 100,000	1.230	\$ 122,979
1-Dec-20	36	\$ -	1.374	\$ -	\$ -	42.399	\$ -	\$ -	1.387	\$ -
1-Dec-21	24	\$ -	1.796	\$ -	\$ -	4776.560	\$ -	\$ -	1.796	\$ -
1-Dec-22	12	\$ -	3.083	\$ -	\$ -	9553.119	\$ -	\$ -	3.083	\$ -
<b>Total</b>		<b>\$ 30,825,000</b>		<b>\$ 31,086,690</b>	<b>\$ 30,725,000</b>		<b>\$ 31,392,007</b>	<b>\$ 100,000</b>		<b>\$ 30,847,979</b>

Columns (3), (6), (9) : Exhibit 10

Column (4) & (7) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (8) : Column (6) X Column (7)

Column (10) : Outstanding LDF = (Incurred LDF - 1) X Paid LDF / (Paid LDF - Incurred LDF) + 1

Column (11) : Column (9) X Column (10) + Column (6)



**Cook County, Illinois  
Medical Malpractice - Provident Hospital**

**Medical Malpractice - Provident Hospital Experience @ 11/30/23  
Generalized Cape Cod Incurred Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Incurred Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Incurred Loss	Trended Occupied Bed Equivalents	Incurred LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 200,000	1.860	1.000	\$ 372,140	326	1.000	8066	\$ 1,411,288	\$ 200,000
1-Dec-02	252	\$ 1,025,000	1.806	1.000	\$ 1,851,505	334	1.000	8930	\$ 1,651,739	\$ 1,025,000
1-Dec-03	240	\$ 7,860,000	1.754	1.000	\$ 13,784,350	329	1.000	9977	\$ 1,870,373	\$ 7,860,000
1-Dec-04	228	\$ 90,000	1.702	1.000	\$ 153,239	330	1.000	7471	\$ 1,446,955	\$ 90,000
1-Dec-05	216	\$ 425,000	1.653	1.000	\$ 702,552	322	1.000	5941	\$ 1,157,539	\$ 425,000
1-Dec-06	204	\$ -	1.605	1.000	\$ -	309	1.000	4874	\$ 939,050	\$ -
1-Dec-07	192	\$ 300,000	1.558	1.000	\$ 467,451	317	1.000	4295	\$ 874,128	\$ 300,000
1-Dec-08	180	\$ 300,000	1.513	1.000	\$ 453,836	410	1.001	3992	\$ 1,081,481	\$ 301,026
1-Dec-09	168	\$ 800,000	1.469	1.000	\$ 1,174,799	303	1.004	4041	\$ 832,455	\$ 803,231
1-Dec-10	156	\$ -	1.426	1.000	\$ -	303	1.009	4108	\$ 871,641	\$ 7,588
1-Dec-11	144	\$ 1,815,000	1.384	1.000	\$ 2,512,324	293	1.016	4604	\$ 972,942	\$ 1,830,514
1-Dec-12	132	\$ 1,175,000	1.344	1.000	\$ 1,579,151	202	1.026	4736	\$ 713,269	\$ 1,192,986
1-Dec-13	120	\$ 425,000	1.305	1.000	\$ 554,546	202	1.036	4632	\$ 718,583	\$ 449,819
1-Dec-14	108	\$ -	1.267	1.000	\$ -	176	1.045	4663	\$ 646,467	\$ 28,118
1-Dec-15	96	\$ 2,945,000	1.230	1.000	\$ 3,622,240	181	1.056	5069	\$ 744,257	\$ 2,984,141
1-Dec-16	84	\$ -	1.194	1.000	\$ -	185	1.066	4138	\$ 639,303	\$ 39,383
1-Dec-17	72	\$ -	1.159	1.000	\$ -	167	1.083	3431	\$ 494,762	\$ 38,039
1-Dec-18	60	\$ -	1.126	1.000	\$ -	172	1.115	2899	\$ 443,162	\$ 45,660
1-Dec-19	48	\$ 100,000	1.093	1.000	\$ 109,273	151	1.198	2541	\$ 351,380	\$ 158,077
1-Dec-20	36	\$ -	1.061	1.000	\$ -	151	1.374	2238	\$ 318,101	\$ 86,645
1-Dec-21	24	\$ -	1.030	1.000	\$ -	137	1.796	2054	\$ 272,367	\$ 120,674
1-Dec-22	12	\$ -	1.000	1.000	\$ -	130	3.083	1969	\$ 256,081	\$ 173,012
<b>Total</b>		<b>\$ 17,460,000</b>			<b>\$ 27,337,406</b>	<b>5,427</b>			<b>\$ 18,707,320</b>	<b>\$ 18,158,914</b>

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (Medical Malpractice - Provident Hospital)

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Medical Malpractice - Provident Hospital**

**Medical Malpractice - Provident Hospital Experience @ 11/30/23  
Generalized Cape Cod Paid Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Paid Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Paid Loss	Trended Occupied Bed Equivalents	Paid LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 200,000	1.860	1.000	\$ 372,140	326	1.000	8094	\$ 1,416,132	\$ 200,000
1-Dec-02	252	\$ 1,025,000	1.806	1.000	\$ 1,851,505	334	1.000	8965	\$ 1,658,131	\$ 1,025,000
1-Dec-03	240	\$ 7,860,000	1.754	1.000	\$ 13,784,350	329	1.000	10023	\$ 1,879,075	\$ 7,860,000
1-Dec-04	228	\$ 90,000	1.702	1.000	\$ 153,239	330	1.000	7514	\$ 1,455,311	\$ 90,000
1-Dec-05	216	\$ 425,000	1.653	1.000	\$ 702,552	322	1.000	5984	\$ 1,166,058	\$ 425,000
1-Dec-06	204	\$ -	1.605	1.000	\$ -	309	1.000	4920	\$ 948,015	\$ -
1-Dec-07	192	\$ 300,000	1.558	1.000	\$ 467,451	317	1.000	4349	\$ 885,089	\$ 300,000
1-Dec-08	180	\$ 300,000	1.513	1.000	\$ 453,836	410	1.002	4058	\$ 1,099,533	\$ 302,084
1-Dec-09	168	\$ 800,000	1.469	1.000	\$ 1,174,799	303	1.006	4134	\$ 851,681	\$ 804,952
1-Dec-10	156	\$ -	1.426	1.000	\$ -	303	1.012	4240	\$ 899,775	\$ 10,426
1-Dec-11	144	\$ 1,815,000	1.384	1.000	\$ 2,512,324	293	1.024	4816	\$ 1,017,748	\$ 1,838,410
1-Dec-12	132	\$ 1,175,000	1.344	1.000	\$ 1,579,151	202	1.041	5053	\$ 760,947	\$ 1,205,055
1-Dec-13	120	\$ 425,000	1.305	1.000	\$ 554,546	202	1.067	5081	\$ 788,187	\$ 474,171
1-Dec-14	108	\$ -	1.267	1.000	\$ -	176	1.104	5321	\$ 737,675	\$ 69,792
1-Dec-15	96	\$ 2,945,000	1.230	1.000	\$ 3,622,240	181	1.184	6115	\$ 897,893	\$ 3,084,658
1-Dec-16	84	\$ -	1.194	1.000	\$ -	185	1.413	5378	\$ 830,974	\$ 242,721
1-Dec-17	72	\$ -	1.159	1.000	\$ -	167	1.730	4900	\$ 706,499	\$ 298,182
1-Dec-18	60	\$ -	1.126	1.000	\$ -	172	3.408	4651	\$ 711,033	\$ 502,378
1-Dec-19	48	\$ -	1.093	1.000	\$ -	151	8.664	4557	\$ 630,024	\$ 557,304
1-Dec-20	36	\$ -	1.061	1.000	\$ -	151	42.399	4535	\$ 644,495	\$ 629,294
1-Dec-21	24	\$ -	1.030	1.000	\$ -	137	4776.560	4535	\$ 601,423	\$ 601,297
1-Dec-22	12	\$ -	1.000	1.000	\$ -	130	9553.119	4535	\$ 589,808	\$ 589,746
<b>Total</b>		<b>\$ 17,360,000</b>			<b>\$ 27,228,133</b>	<b>5,427</b>			<b>\$ 21,175,507</b>	<b>\$ 21,110,469</b>

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (Medical Malpractice - Provident Hospital)

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Medical Malpractice - Provident Hospital**

**Medical Malpractice - Provident Hospital Experience @ 11/30/23  
Frequency & Severity Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Reported Claims	Claim CDF	Ultimate Claims	Severity LDF	Reported Severity	Ultimate Reported Severity	Unreported Claims	Ultimate Unreported Severity	Ultimate Loss
Prior	276	59	1.000	59	1.000	\$ 226,525	\$ 226,525	0	\$ 193,131	\$ 13,365,000
1-Dec-01	264	12	1.000	12	1.000	\$ 16,667	\$ 16,667	0	\$ 185,159	\$ 200,000
1-Dec-02	252	14	1.000	14	1.000	\$ 73,214	\$ 73,214	0	\$ 189,914	\$ 1,025,000
1-Dec-03	240	14	1.000	14	1.000	\$ 561,429	\$ 561,429	0	\$ 207,572	\$ 7,860,000
1-Dec-04	228	13	1.000	13	1.000	\$ 6,923	\$ 6,923	0	\$ 185,085	\$ 90,000
1-Dec-05	216	9	1.000	9	1.000	\$ 47,222	\$ 47,222	0	\$ 176,196	\$ 425,000
1-Dec-06	204	3	1.000	3	1.000	\$ -	\$ -	0	\$ 174,985	\$ -
1-Dec-07	192	3	1.000	3	1.000	\$ 100,000	\$ 100,000	0	\$ 178,314	\$ 300,000
1-Dec-08	180	3	1.000	3	1.001	\$ 100,000	\$ 100,095	0	\$ 184,806	\$ 300,285
1-Dec-09	168	5	1.000	5	1.004	\$ 160,000	\$ 160,623	0	\$ 196,472	\$ 803,117
1-Dec-10	156	1	1.000	1	1.009	\$ -	\$ -	0	\$ 214,072	\$ -
1-Dec-11	144	4	1.000	4	1.016	\$ 453,750	\$ 461,103	0	\$ 240,174	\$ 1,844,411
1-Dec-12	132	4	1.000	4	1.026	\$ 293,750	\$ 301,349	0	\$ 250,155	\$ 1,205,396
1-Dec-13	120	3	1.000	3	1.036	\$ 141,667	\$ 146,735	0	\$ 255,715	\$ 440,204
1-Dec-14	108	1	1.000	1	1.045	\$ -	\$ -	0	\$ 270,568	\$ -
1-Dec-15	96	3	1.000	3	1.056	\$ 981,667	\$ 1,036,158	0	\$ 296,190	\$ 3,108,475
1-Dec-16	84	3	1.000	3	1.066	\$ -	\$ -	0	\$ 250,421	\$ -
1-Dec-17	72	2	1.000	2	1.083	\$ -	\$ -	0	\$ 217,743	\$ -
1-Dec-18	60	4	1.008	4	1.106	\$ -	\$ -	0	\$ 190,621	\$ -
1-Dec-19	48	2	1.023	2	1.171	\$ 50,000	\$ 58,539	0	\$ 186,771	\$ 117,079
1-Dec-20	36	0	1.066	0	1.290	\$ -	\$ -	0	\$ 192,374	\$ -
1-Dec-21	24	0	1.234	0	1.455	\$ -	\$ -	0	\$ 198,145	\$ -
1-Dec-22	12	0	1.638	0	1.882	\$ -	\$ -	0	\$ 204,089	\$ -
Total		162		162				0		\$ 31,083,967

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (6) : from {Exhibit 3, Column (4)} / Column (4)

Column (7) : from {Exhibit 3, Column (3)} / Column (3)

Column (8) : Column (6) X Column (7)

Column (9) : Column (5) - Column (3)

Column (10) : Weighted Average of Column (8) adjusted for Trend and Retention

Column (11) : Column (3) X Column (8) + Column (9) X Column (10)



**Cook County, Illinois  
Medical Malpractice - Provident Hospital**

**Medical Malpractice - Provident Hospital Experience @ 11/30/23  
Incurred Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Incurred Losses	Incurred LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	IBNR Factor	IBNR	Expected Ultimate Loss
1-Dec-01	Various	\$ 200,000	1.000	4,587	1.000	4,586	\$ 1,492,974	0.000	\$ -	\$ 200,000
1-Dec-02	Various	\$ 1,025,000	1.000	4,725	1.000	4,724	\$ 1,578,272	0.000	\$ -	\$ 1,025,000
1-Dec-03	\$ 20,000,000	\$ 7,860,000	1.000	4,866	1.000	4,866	\$ 1,599,768	0.000	\$ -	\$ 7,860,000
1-Dec-04	\$ 20,000,000	\$ 90,000	1.000	5,012	1.000	5,012	\$ 1,652,614	0.000	\$ -	\$ 90,000
1-Dec-05	\$ 20,000,000	\$ 425,000	1.000	5,163	1.000	5,162	\$ 1,662,697	0.000	\$ -	\$ 425,000
1-Dec-06	\$ 20,000,000	\$ -	1.000	5,318	1.000	5,317	\$ 1,644,192	0.000	\$ -	\$ -
1-Dec-07	\$ 20,000,000	\$ 300,000	1.000	5,477	1.000	5,476	\$ 1,736,663	0.000	\$ -	\$ 300,000
1-Dec-08	\$ 20,000,000	\$ 300,000	1.001	5,641	1.000	5,641	\$ 2,311,947	0.001	\$ 2,193	\$ 302,193
1-Dec-09	Various	\$ 800,000	1.004	5,811	1.000	5,811	\$ 1,758,000	0.004	\$ 6,823	\$ 806,823
1-Dec-10	\$ 40,000,000	\$ -	1.009	5,985	1.000	5,985	\$ 1,810,739	0.009	\$ 15,764	\$ 15,764
1-Dec-11	\$ 40,000,000	\$ 1,815,000	1.016	6,165	1.000	6,165	\$ 1,803,415	0.016	\$ 28,757	\$ 1,843,757
1-Dec-12	Various	\$ 1,175,000	1.026	6,349	1.000	6,349	\$ 1,285,154	0.025	\$ 32,407	\$ 1,207,407
1-Dec-13	\$ 30,000,000	\$ 425,000	1.036	6,540	1.000	6,540	\$ 1,323,709	0.035	\$ 45,720	\$ 470,720
1-Dec-14	Various	\$ -	1.045	6,736	1.000	6,736	\$ 1,182,894	0.043	\$ 51,450	\$ 51,450
1-Dec-15	\$ 25,000,000	\$ 2,945,000	1.056	6,938	1.000	6,938	\$ 1,252,910	0.053	\$ 65,891	\$ 3,010,891
1-Dec-16	\$ 25,000,000	\$ -	1.066	7,146	1.000	7,146	\$ 1,318,474	0.062	\$ 81,221	\$ 81,221
1-Dec-17	\$ 25,000,000	\$ -	1.083	7,361	1.000	7,360	\$ 1,230,453	0.077	\$ 94,601	\$ 94,601
1-Dec-18	\$ 25,000,000	\$ -	1.115	7,582	1.000	7,581	\$ 1,304,430	0.103	\$ 134,400	\$ 134,400
1-Dec-19	Various	\$ 100,000	1.198	7,809	1.000	7,809	\$ 1,179,771	0.165	\$ 194,997	\$ 294,997
1-Dec-20	\$ 35,000,000	\$ -	1.374	8,043	1.000	8,043	\$ 1,212,690	0.272	\$ 330,315	\$ 330,315
1-Dec-21	\$ 35,000,000	\$ -	1.796	8,285	1.000	8,285	\$ 1,131,724	0.443	\$ 501,419	\$ 501,419
1-Dec-22	\$ 35,000,000	\$ -	3.083	8,533	1.000	8,533	\$ 1,109,904	0.676	\$ 749,867	\$ 749,867
Total		\$ 17,460,000					\$ 32,583,394		\$ 2,335,824	\$ 19,795,824

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Occupied Bed Equivalents) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Medical Malpractice - Provident Hospital**

**Medical Malpractice - Provident Hospital Experience @ 11/30/23  
Paid Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Paid Losses	Paid LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	Unpaid Factor	Unpaid	Expected Ultimate Loss
1-Dec-01	Various	\$ 200,000	1.000	4,587	1.000	4,586	\$ 1,492,974	0.000	\$ -	\$ 200,000
1-Dec-02	Various	\$ 1,025,000	1.000	4,725	1.000	4,724	\$ 1,578,272	0.000	\$ -	\$ 1,025,000
1-Dec-03	\$ 20,000,000	\$ 7,860,000	1.000	4,866	1.000	4,866	\$ 1,599,768	0.000	\$ -	\$ 7,860,000
1-Dec-04	\$ 20,000,000	\$ 90,000	1.000	5,012	1.000	5,012	\$ 1,652,614	0.000	\$ -	\$ 90,000
1-Dec-05	\$ 20,000,000	\$ 425,000	1.000	5,163	1.000	5,162	\$ 1,662,697	0.000	\$ -	\$ 425,000
1-Dec-06	\$ 20,000,000	\$ -	1.000	5,318	1.000	5,317	\$ 1,644,192	0.000	\$ -	\$ -
1-Dec-07	\$ 20,000,000	\$ 300,000	1.000	5,477	1.000	5,476	\$ 1,736,663	0.000	\$ -	\$ 300,000
1-Dec-08	\$ 20,000,000	\$ 300,000	1.002	5,641	1.000	5,641	\$ 2,311,947	0.002	\$ 4,381	\$ 304,381
1-Dec-09	Various	\$ 800,000	1.006	5,811	1.000	5,811	\$ 1,758,000	0.006	\$ 10,221	\$ 810,221
1-Dec-10	\$ 40,000,000	\$ -	1.012	5,985	1.000	5,985	\$ 1,810,739	0.012	\$ 20,981	\$ 20,981
1-Dec-11	\$ 40,000,000	\$ 1,815,000	1.024	6,165	1.000	6,165	\$ 1,803,415	0.023	\$ 41,483	\$ 1,856,483
1-Dec-12	Various	\$ 1,175,000	1.041	6,349	1.000	6,349	\$ 1,285,154	0.039	\$ 50,759	\$ 1,225,759
1-Dec-13	\$ 30,000,000	\$ 425,000	1.067	6,540	1.000	6,540	\$ 1,323,709	0.062	\$ 82,580	\$ 507,580
1-Dec-14	Various	\$ -	1.104	6,736	1.000	6,736	\$ 1,182,894	0.095	\$ 111,914	\$ 111,914
1-Dec-15	\$ 25,000,000	\$ 2,945,000	1.184	6,938	1.000	6,938	\$ 1,252,910	0.156	\$ 194,877	\$ 3,139,877
1-Dec-16	\$ 25,000,000	\$ -	1.413	7,146	1.000	7,146	\$ 1,318,474	0.292	\$ 385,116	\$ 385,116
1-Dec-17	\$ 25,000,000	\$ -	1.730	7,361	1.000	7,360	\$ 1,230,453	0.422	\$ 519,320	\$ 519,320
1-Dec-18	\$ 25,000,000	\$ -	3.408	7,582	1.000	7,581	\$ 1,304,430	0.707	\$ 921,641	\$ 921,641
1-Dec-19	Various	\$ -	8.664	7,809	1.000	7,809	\$ 1,179,771	0.885	\$ 1,043,598	\$ 1,043,598
1-Dec-20	\$ 35,000,000	\$ -	42.399	8,043	1.000	8,043	\$ 1,212,690	0.976	\$ 1,184,089	\$ 1,184,089
1-Dec-21	\$ 35,000,000	\$ -	4776.560	8,285	1.000	8,285	\$ 1,131,724	1.000	\$ 1,131,487	\$ 1,131,487
1-Dec-22	\$ 35,000,000	\$ -	9553.119	8,533	1.000	8,533	\$ 1,109,904	1.000	\$ 1,109,788	\$ 1,109,788
Total		\$ 17,360,000					\$ 32,583,394		\$ 6,812,232	\$ 24,172,232

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Occupied Bed Equivalents) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Medical Malpractice - Provident Hospital**

**Medical Malpractice - Provident Hospital Experience @ 11/30/23  
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred LDF's		(4) Paid LDF's		(6) Claim CDF	(7) Trend Factors		(9) Occupied Bed Equivalents
	Unlimited	Limited	Unlimited	Limited		Loss	Exposure	
Prior	1.000	1.000	1.000	1.000	1.000	1.916	1.000	-
1-Dec-01	1.000	1.000	1.000	1.000	1.000	1.860	1.000	326
1-Dec-02	1.000	1.000	1.000	1.000	1.000	1.806	1.000	334
1-Dec-03	1.000	1.000	1.000	1.000	1.000	1.754	1.000	329
1-Dec-04	1.000	1.000	1.000	1.000	1.000	1.702	1.000	330
1-Dec-05	1.000	1.000	1.000	1.000	1.000	1.653	1.000	322
1-Dec-06	1.000	1.000	1.000	1.000	1.000	1.605	1.000	309
1-Dec-07	1.000	1.000	1.000	1.000	1.000	1.558	1.000	317
1-Dec-08	1.001	1.001	1.002	1.002	1.000	1.513	1.000	410
1-Dec-09	1.004	1.004	1.006	1.006	1.000	1.469	1.000	303
1-Dec-10	1.009	1.009	1.012	1.012	1.000	1.426	1.000	303
1-Dec-11	1.017	1.016	1.024	1.024	1.000	1.384	1.000	293
1-Dec-12	1.027	1.026	1.043	1.041	1.000	1.344	1.000	202
1-Dec-13	1.037	1.036	1.069	1.067	1.000	1.305	1.000	202
1-Dec-14	1.047	1.045	1.109	1.104	1.000	1.267	1.000	176
1-Dec-15	1.058	1.056	1.192	1.184	1.000	1.230	1.000	181
1-Dec-16	1.069	1.066	1.431	1.413	1.000	1.194	1.000	185
1-Dec-17	1.087	1.083	1.762	1.730	1.000	1.159	1.000	167
1-Dec-18	1.120	1.115	3.512	3.408	1.008	1.126	1.000	172
1-Dec-19	1.203	1.198	8.884	8.664	1.023	1.093	1.000	151
1-Dec-20	1.384	1.374	43.532	42.399	1.066	1.061	1.000	151
1-Dec-21	1.813	1.796	4904.601	4776.560	1.234	1.030	1.000	137
1-Dec-22	3.128	3.083	9809.202	9553.119	1.638	1.000	1.000	130

Methods Included in Analysis :  
Source Used for LDFs :

**Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity  
Company Exclusively**

LDF Annual Decay Rate (Incurred/Paid/Clm Count):  
ELR for B/F Method :  
Generalized Cape Cod Decay Factor:  
Loss Limitation :  
Discount Rates :

**0.75                      0.75                      0.75**  
**8789**  
**0.75**  
**Exhibit 10, Column (5)**  
**4.48%                      0.00%                      0.00%**

**Column (2) : Company Exclusively**  
**Column (3) : Exhibit 13, Sheet 1, Column (15)**  
**Column (4) : Company Exclusively**

**Column (5) : Exhibit 13, Sheet 2, Column (15)**  
**Column (6) : Company Exclusively**  
**Column (7) : Aon Compilation of Estimated Trends**

**Column (8) : Flat 0.00%**  
**Column (9) : supplied by Cook County, Illinois**



**Cook County, Illinois  
Medical Malpractice - Provident Hospital**

**Medical Malpractice - Provident Hospital Experience @ 11/30/23  
Limited Loss Calculations**

(1) Policy Period Inception	(2) Unlimited			(4) Case O/S	(5) Retention	(6) Claims valued over the Retention			(10) Limited			(12) Case O/S
	Incurred	Paid				No.	Incurred	No.	Paid	Incurred	Paid	
Prior	\$ 13,365,000	\$ 13,365,000	\$ -	Various	-	\$ -	-	\$ -	\$ 13,365,000	\$ 13,365,000	\$ -	-
1-Dec-01	\$ 200,000	\$ 200,000	\$ -	Various	-	\$ -	-	\$ -	\$ 200,000	\$ 200,000	\$ -	-
1-Dec-02	\$ 1,025,000	\$ 1,025,000	\$ -	Various	-	\$ -	-	\$ -	\$ 1,025,000	\$ 1,025,000	\$ -	-
1-Dec-03	\$ 7,860,000	\$ 7,860,000	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	\$ 7,860,000	\$ 7,860,000	\$ -	-
1-Dec-04	\$ 90,000	\$ 90,000	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	\$ 90,000	\$ 90,000	\$ -	-
1-Dec-05	\$ 425,000	\$ 425,000	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	\$ 425,000	\$ 425,000	\$ -	-
1-Dec-06	\$ -	\$ -	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-
1-Dec-07	\$ 300,000	\$ 300,000	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	\$ 300,000	\$ 300,000	\$ -	-
1-Dec-08	\$ 300,000	\$ 300,000	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	\$ 300,000	\$ 300,000	\$ -	-
1-Dec-09	\$ 800,000	\$ 800,000	\$ -	Various	-	\$ -	-	\$ -	\$ 800,000	\$ 800,000	\$ -	-
1-Dec-10	\$ -	\$ -	\$ -	\$ 40,000,000	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-
1-Dec-11	\$ 1,815,000	\$ 1,815,000	\$ -	\$ 40,000,000	-	\$ -	-	\$ -	\$ 1,815,000	\$ 1,815,000	\$ -	-
1-Dec-12	\$ 1,175,000	\$ 1,175,000	\$ -	Various	-	\$ -	-	\$ -	\$ 1,175,000	\$ 1,175,000	\$ -	-
1-Dec-13	\$ 425,000	\$ 425,000	\$ -	\$ 30,000,000	-	\$ -	-	\$ -	\$ 425,000	\$ 425,000	\$ -	-
1-Dec-14	\$ -	\$ -	\$ -	Various	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-
1-Dec-15	\$ 2,945,000	\$ 2,945,000	\$ -	\$ 25,000,000	-	\$ -	-	\$ -	\$ 2,945,000	\$ 2,945,000	\$ -	-
1-Dec-16	\$ -	\$ -	\$ -	\$ 25,000,000	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-
1-Dec-17	\$ -	\$ -	\$ -	\$ 25,000,000	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-
1-Dec-18	\$ -	\$ -	\$ -	\$ 25,000,000	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-
1-Dec-19	\$ 100,000	\$ -	\$ 100,000	Various	-	\$ -	-	\$ -	\$ 100,000	\$ -	\$ 100,000	100,000
1-Dec-20	\$ -	\$ -	\$ -	\$ 35,000,000	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-
1-Dec-21	\$ -	\$ -	\$ -	\$ 35,000,000	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-
1-Dec-22	\$ -	\$ -	\$ -	\$ 35,000,000	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-
	\$ 30,825,000	\$ 30,725,000	\$ 100,000		-	\$ -	-	\$ -	\$ 30,825,000	\$ 30,725,000	\$ 100,000	100,000

Column (2) and Column (3) : Supplied by Cook County, Illinois

Column (4) : Column (2) - Column (3)

Column (5) : Individual loss limitation

Column (6) through Column (9) : supplied by Cook County, Illinois

Column (10) : Column (2) - Column (7) + [Column (5) x Column (6)]

Column (11) : Column (3) - Column (9) + [Column (5) x Column (8)]





**Cook County, Illinois  
Medical Malpractice - Provident Hospital**

**Medical Malpractice - Provident Hospital Experience @ 11/30/23  
Selected Ultimate Claim Counts**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Policy Period Inception	Trended Occupied Bed Equivalents	Reported Claims	Claim CDF	Chain-Ladder Developed Claims	Frequency Trend	Trended Developed Claims	Trended Frequency Rate	Bornhuetter-Ferguson Developed	Selected Trended Claims	Selected Untrended Claims	Trended Frequency Rate
1-Dec-01	326	12	1.000	12	1.000	12	3.68607%		12	12	3.68607%
1-Dec-02	334	14	1.000	14	1.000	14	4.19040%		14	14	4.19040%
1-Dec-03	329	14	1.000	14	1.000	14	4.25812%		14	14	4.25812%
1-Dec-04	330	13	1.000	13	1.000	13	3.94236%		13	13	3.94236%
1-Dec-05	322	9	1.000	9	1.000	9	2.79416%		9	9	2.79416%
1-Dec-06	309	3	1.000	3	1.000	3	0.97012%		3	3	0.97012%
1-Dec-07	317	3	1.000	3	1.000	3	0.94602%		3	3	0.94602%
1-Dec-08	410	3	1.000	3	1.000	3	0.73194%		3	3	0.73194%
1-Dec-09	303	5	1.000	5	1.000	5	1.65268%		5	5	1.65268%
1-Dec-10	303	1	1.000	1	1.000	1	0.33054%		1	1	0.33054%
1-Dec-11	293	4	1.000	4	1.000	4	1.36734%		4	4	1.36734%
1-Dec-12	202	4	1.000	4	1.000	4	1.97619%		4	4	1.97619%
1-Dec-13	202	3	1.000	3	1.000	3	1.48215%		3	3	1.48215%
1-Dec-14	176	1	1.000	1	1.000	1	0.56942%		1	1	0.56942%
1-Dec-15	181	3	1.000	3	1.000	3	1.66119%		3	3	1.66119%
1-Dec-16	185	3	1.000	3	1.000	3	1.62594%		3	3	1.62594%
1-Dec-17	167	2	1.000	2	1.000	2	1.19635%		2	2	1.19635%
1-Dec-18	172	4	1.008	4	1.000	4	2.34361%		4	4	2.34361%
1-Dec-19	151	2	1.023	2	1.000	2	1.35461%		2	2	1.35461%
1-Dec-20	151	0	1.066	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-21	137	0	1.234	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-22	130	0	1.638	0	1.000	0	0.00000%		0	0	0.00000%
Total	5,427	103		103		103	1.89923%		103	103	1.89923%

Column (2) : from Exhibit 4  
 Column (3) : supplied by Cook County, Illinois  
 Column (4) : from Exhibit 9

Column (5) : Column (3) x Column (4)  
 Column (6) : Assumption  
 Column (7) : Column (5) x Column (6)  
 Column (8) : Column (7) / Column (2)

Column (9) : Bornhuetter Method = (3) + (1.0 - 1.0 / (4)) x 4  
 Column (10) : Selected Trended Ultimate Claims  
 Column (11) : Column (10) / Column (6)  
 Column (12) : Column (10) / Column (2)

<b>Selected Frequency Rate for Renewal Policy Period 1-Dec-23</b>					
<u>Weighted Averages through and including Policy Period 1-Dec-22</u>					
Last 5 Policies	741			6	0.82084%
Last 3 Policies	417			0	0.00000%
Last 2 Policies	267			0	0.00000%
Last 22 Policies	5,427			103	1.89923%
Selected Bornhuetter-Ferguson Frequency Rate					<b>1.16188%</b>
Factor to adjust the Claims / Exposure Trend Rate from Policy Period 1-Dec-22 to Renewal Period 1-Dec-23					1.000
Selected Frequency Rate adjusted to the Renewal Policy Period Level					1.16188%
Occupied Bed Equivalents for 1-Dec-23					130
Projected Count for 1-Dec-23					2



**Cook County, Illinois**  
**Medical Malpractice - Provident Hospital**  
**Medical Malpractice - Provident Hospital Experience @ 11/30/23**  
**Losses Limited to Retentions**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Policy Period Inception	Incurred Loss	Selected Ultimate Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Ultimate Loss	Occupied Bed Equivalents	Exposure Trend Factor	Trended Occupied Bed Equivalents	Trended Loss Rate
1-Dec-01	200,000	200,000	1.916	1.000	383,304	326	1.000	326	1,176
1-Dec-02	1,025,000	1,025,000	1.860	1.000	1,907,050	334	1.000	334	5,710
1-Dec-03	7,860,000	7,860,000	1.806	1.000	14,197,880	329	1.000	329	43,155
1-Dec-04	90,000	90,000	1.754	1.000	157,836	330	1.000	330	478
1-Dec-05	425,000	425,000	1.702	1.000	723,628	322	1.000	322	2,247
1-Dec-06	-	-	1.653	1.000	-	309	1.000	309	0
1-Dec-07	300,000	300,000	1.605	1.000	481,475	317	1.000	317	1,519
1-Dec-08	300,000	300,000	1.558	1.000	467,451	410	1.000	410	1,140
1-Dec-09	800,000	800,000	1.513	1.000	1,210,043	303	1.000	303	3,994
1-Dec-10	-	-	1.469	1.000	-	303	1.000	303	0
1-Dec-11	1,815,000	1,815,000	1.426	1.000	2,587,694	293	1.000	293	8,832
1-Dec-12	1,175,000	1,175,000	1.384	1.000	1,626,525	202	1.000	202	8,052
1-Dec-13	425,000	425,000	1.344	1.000	571,182	202	1.000	202	2,828
1-Dec-14	-	-	1.305	1.000	-	176	1.000	176	0
1-Dec-15	2,945,000	2,945,000	1.267	1.000	3,730,907	181	1.000	181	20,613
1-Dec-16	-	60,000	1.230	1.000	73,798	185	1.000	185	399
1-Dec-17	-	120,000	1.194	1.000	143,297	167	1.000	167	858
1-Dec-18	-	400,000	1.159	1.000	463,743	172	1.000	172	2,696
1-Dec-19	100,000	600,000	1.126	1.000	675,305	151	1.000	151	4,472
1-Dec-20	-	500,000	1.093	1.000	546,364	151	1.000	151	3,618
1-Dec-21	-	800,000	1.061	1.000	848,720	137	1.000	137	6,195
1-Dec-22	-	900,000	1.030	1.000	927,000	130	1.000	130	7,131
<b>All Year Weighted Average</b>					31,723,202			5,430	5,842
<b>Latest 5-Year Weighted Average</b>					3,461,132			741	4,671
<b>Latest 3-Year Weighted Average</b>					2,322,084			418	5,555
<b>SELECTED - Based on Shaded PY</b>					10,942,515			1,245	8,789

Column (1) : from Exhibit 10    Column (10)  
 Column (2) : from Exhibit 2, Column (10)  
 Column (3) : Trend Indices appropriate for Medical Malpractice - Provident Hospital  
 Column (4) : from Retention Analysis  
 Column (5) : Column (2) x Column (3) x Column (4)  
 Column (6) : supplied by Cook County, Illinois  
 Column (7) : Annual Exposure Trend  
 Column (8) : Column (6) x Column (7)  
 Column (9) : Column (5) / Column (8)

Renewal Projections (Losses and Claims developed to Ultimate)						
Policy Period Inception	(10)	(11)	(12)	(13)	(14)	(15)
	Retention	Occupied Bed Equivalents	Claim Count	Loss Rate	Loss Amount	
1-Dec-23	35,000,000	130	2	8,789	1,140,000	
1-Dec-24	35,000,000	130	2	9,141	1,190,000	
1-Dec-25	35,000,000	130	2	9,506	1,240,000	

Columns (11) - (15) : Projections. These are preliminary and should be monitored with actuarial updates.



**Cook County, Illinois  
Medical Malpractice - Provident Hospital**

Average : \$231,715    sigma = 1.954  
CV : 6.67                mu = 10.445

**Limitation of Incurred LDF's for Medical Malpractice - Provident Hospital**

<b>Evaluation</b>	<b>(1) Incurred LDF</b>	<b>(2) Count CDF</b>	<b>(3) Unadjusted Limit</b>	<b>(4) Ln(L)-mu/ sigma</b>	<b>(5) (4)-sigma</b>	<b>(6) Phi1</b>	<b>(7) Phi2</b>	<b>(8) Ltd Mean</b>	<b>(9) Adjusted Limit(L)</b>	<b>(10) Ln(L)-mu/ sigma</b>	<b>(11) (10)-sigma</b>	<b>(12) Phi1</b>	<b>(13) Phi2</b>	<b>(14) Ltd Mean</b>	<b>(15) Ltd. Factors</b>
276	1.000	1.000	10,000,000	2.904	0.950	0.998	0.829	210,525	10,000,000	2.904	0.950	0.998	0.829	210,525	1.000
264	1.000	1.000	15,000,000	3.111	1.158	0.999	0.877	217,071	15,000,000	3.111	1.158	0.999	0.877	217,071	1.000
252	1.000	1.000	20,000,000	3.259	1.305	0.999	0.904	220,680	20,000,000	3.259	1.305	0.999	0.904	220,680	1.000
240	1.000	1.000	20,000,000	3.259	1.305	0.999	0.904	220,680	20,000,000	3.259	1.305	0.999	0.904	220,680	1.000
228	1.000	1.000	20,000,000	3.259	1.305	0.999	0.904	220,680	20,000,000	3.259	1.305	0.999	0.904	220,680	1.000
216	1.000	1.000	20,000,000	3.259	1.305	0.999	0.904	220,680	20,000,000	3.259	1.305	0.999	0.904	220,680	1.000
204	1.000	1.000	20,000,000	3.259	1.305	0.999	0.904	220,680	20,000,000	3.259	1.305	0.999	0.904	220,680	1.000
192	1.000	1.000	20,000,000	3.259	1.305	0.999	0.904	220,680	20,000,000	3.259	1.305	0.999	0.904	220,680	1.000
180	1.001	1.000	20,000,000	3.259	1.305	0.999	0.904	220,680	20,020,000	3.259	1.306	0.999	0.904	220,691	1.001
168	1.004	1.000	40,000,000	3.614	1.660	1.000	0.952	226,527	40,160,120	3.616	1.662	1.000	0.952	226,551	1.004
156	1.009	1.000	40,000,000	3.614	1.660	1.000	0.952	226,527	40,360,921	3.618	1.665	1.000	0.952	226,581	1.009
144	1.017	1.000	40,000,000	3.614	1.660	1.000	0.952	226,527	40,665,928	3.622	1.668	1.000	0.952	226,626	1.016
132	1.027	1.000	30,000,000	3.466	1.513	1.000	0.935	224,528	30,804,440	3.480	1.526	1.000	0.937	224,735	1.026
120	1.037	1.000	30,000,000	3.466	1.513	1.000	0.935	224,528	31,112,485	3.485	1.531	1.000	0.937	224,811	1.036
108	1.047	1.000	25,000,000	3.373	1.419	1.000	0.922	222,961	26,186,341	3.397	1.443	1.000	0.926	223,384	1.045
96	1.058	1.000	25,000,000	3.373	1.419	1.000	0.922	222,961	26,448,205	3.402	1.448	1.000	0.926	223,472	1.056
84	1.069	1.000	25,000,000	3.373	1.419	1.000	0.922	222,961	26,712,687	3.407	1.453	1.000	0.927	223,560	1.066
72	1.087	1.000	25,000,000	3.373	1.419	1.000	0.922	222,961	27,172,938	3.416	1.462	1.000	0.928	223,709	1.083
60	1.120	1.008	25,000,000	3.373	1.419	1.000	0.922	222,961	27,762,415	3.427	1.473	1.000	0.930	223,893	1.115
48	1.203	1.023	35,000,000	3.545	1.592	1.000	0.944	225,666	41,164,960	3.628	1.675	1.000	0.953	226,698	1.198
36	1.384	1.066	35,000,000	3.545	1.592	1.000	0.944	225,666	45,459,824	3.679	1.725	1.000	0.958	227,253	1.374
24	1.813	1.234	35,000,000	3.545	1.592	1.000	0.944	225,666	51,431,592	3.742	1.789	1.000	0.963	227,870	1.796
12	3.128	1.638	35,000,000	3.545	1.592	1.000	0.944	225,666	66,837,809	3.876	1.923	1.000	0.973	228,943	3.083

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve



**Cook County, Illinois  
Medical Malpractice - Provident Hospital**

Average : \$231,715    sigma = 1.954  
CV : 6.67                mu = 10.445

**Limitation of Paid LDF's for Medical Malpractice - Provident Hospital**

Evaluation	(1) Paid LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.000	1.000	10,000,000	2.904	0.950	0.998	0.829	210,525	10,000,000	2.904	0.950	0.998	0.829	210,525	1.000
264	1.000	1.000	15,000,000	3.111	1.158	0.999	0.877	217,071	15,000,000	3.111	1.158	0.999	0.877	217,071	1.000
252	1.000	1.000	20,000,000	3.259	1.305	0.999	0.904	220,680	20,000,000	3.259	1.305	0.999	0.904	220,680	1.000
240	1.000	1.000	20,000,000	3.259	1.305	0.999	0.904	220,680	20,000,000	3.259	1.305	0.999	0.904	220,680	1.000
228	1.000	1.000	20,000,000	3.259	1.305	0.999	0.904	220,680	20,000,000	3.259	1.305	0.999	0.904	220,680	1.000
216	1.000	1.000	20,000,000	3.259	1.305	0.999	0.904	220,680	20,000,000	3.259	1.305	0.999	0.904	220,680	1.000
204	1.000	1.000	20,000,000	3.259	1.305	0.999	0.904	220,680	20,000,000	3.259	1.305	0.999	0.904	220,680	1.000
192	1.000	1.000	20,000,000	3.259	1.305	0.999	0.904	220,680	20,000,000	3.259	1.305	0.999	0.904	220,680	1.000
180	1.002	1.000	20,000,000	3.259	1.305	0.999	0.904	220,680	20,040,000	3.260	1.306	0.999	0.904	220,702	1.002
168	1.006	1.000	40,000,000	3.614	1.660	1.000	0.952	226,527	40,240,320	3.617	1.663	1.000	0.952	226,563	1.006
156	1.012	1.000	40,000,000	3.614	1.660	1.000	0.952	226,527	40,481,762	3.620	1.666	1.000	0.952	226,599	1.012
144	1.024	1.000	40,000,000	3.614	1.660	1.000	0.952	226,527	40,967,543	3.626	1.672	1.000	0.953	226,669	1.024
132	1.043	1.000	30,000,000	3.466	1.513	1.000	0.935	224,528	31,278,719	3.488	1.534	1.000	0.937	224,852	1.041
120	1.069	1.000	30,000,000	3.466	1.513	1.000	0.935	224,528	32,069,074	3.500	1.547	1.000	0.939	225,040	1.067
108	1.109	1.000	25,000,000	3.373	1.419	1.000	0.922	222,961	27,726,387	3.426	1.472	1.000	0.930	223,882	1.104
96	1.192	1.000	25,000,000	3.373	1.419	1.000	0.922	222,961	29,805,866	3.463	1.509	1.000	0.934	224,476	1.184
84	1.431	1.000	25,000,000	3.373	1.419	1.000	0.922	222,961	35,767,039	3.556	1.603	1.000	0.946	225,813	1.413
72	1.762	1.000	25,000,000	3.373	1.419	1.000	0.922	222,961	44,056,480	3.663	1.709	1.000	0.956	227,083	1.730
60	3.512	1.008	25,000,000	3.373	1.419	1.000	0.922	222,961	87,080,108	4.012	2.058	1.000	0.980	229,754	3.408
48	8.884	1.023	35,000,000	3.545	1.592	1.000	0.944	225,666	303,879,551	4.652	2.698	1.000	0.997	231,407	8.664
36	43.532	1.066	35,000,000	3.545	1.592	1.000	0.944	225,666	1,429,880,567	5.444	3.491	1.000	1.000	231,696	42.399
24	4904.601	1.234	35,000,000	3.545	1.592	1.000	0.944	225,666	139,130,467,968	7.788	5.834	1.000	1.000	231,715	4776.560
12	9809.202	1.638	35,000,000	3.545	1.592	1.000	0.944	225,666	209,630,939,680	7.997	6.044	1.000	1.000	231,715	9553.119

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve



COOK COUNTY, ILLINOIS  
 MEDICAL MALPRACTICE - PROVIDENT HOSPITAL

Calculation of Occupied Bed Equivalents

Occurrence Period (1)	Inpatients (2)	ER Visits (3)	Other Visits (4)	Other Visits (5)	Other Visits (6)	Physicians (7)	Occupied Bed Equivalents (8)
Prior							
12/1/2001	75	52,325	62,898	1,652	950	63	326
12/1/2002	80	50,888	64,367	2,233	702	66	334
12/1/2003	78	51,988	50,698	2,371	450	66	329
12/1/2004	72	50,678	46,053	2,012	925	72	330
12/1/2005	76	47,949	45,248	1,853	656	69	322
12/1/2006	60	43,563	36,774	2,053	705	77	309
12/1/2007	57	40,370	42,204	1,885	604	85	317
12/1/2008	53	39,647	44,955	1,627	605	136	410
12/1/2009	45	40,000	49,663	1,505	605	83	303
12/1/2010	45	40,000	49,663	1,505	605	83	303
12/1/2011	45	35,000	49,663	1,505	605	83	293
12/1/2012	25	38,450	49,663	1,505	605	42	202
12/1/2013	25	38,450	49,663	1,505	605	42	202
12/1/2014	25	22,650	49,663	1,505	605	45	176
12/1/2015	25	22,260	49,663	1,505	605	48	181
12/1/2016	25	29,965	49,663	1,505	605	42	185
12/1/2017	25	29,155	49,663	1,505	605	33	167
12/1/2018	25	29,994	49,663	1,505	605	35	172
12/1/2019	25	20,802	49,663	1,505	605	34	151
12/1/2020	25	21,394	49,663	1,505	605	33	151
12/1/2021	25	23,392	49,663	1,505	605	23	137
12/1/2022	10	27,831	49,663	1,505	605	23	130
12/1/2023	10	27,831	49,663	1,505	605	23	130

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

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

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

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**Cook County, Illinois  
Medical Malpractice - Provident Hospital  
Projected Losses Paid 12/1/2023 to 11/30/2024**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/23	Percent Losses Paid	Months of Development 11/30/24	Percent Losses Paid	Estimated Outstanding Losses 11/30/23	Projected Losses Paid	Estimated Outstanding Losses 11/30/24	Discount Factor	Discounted Outstanding Losses 11/30/24
Prior	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	180	99.8%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	168	99.4%	180	99.8%	\$ -	\$ -	\$ -	0.978	\$ -
1-Dec-10	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.964	\$ -
1-Dec-11	144	97.6%	156	98.8%	\$ -	\$ -	\$ -	0.951	\$ -
1-Dec-12	132	95.9%	144	97.7%	\$ -	\$ -	\$ -	0.944	\$ -
1-Dec-13	120	93.5%	132	96.1%	\$ -	\$ -	\$ -	0.935	\$ -
1-Dec-14	108	90.2%	120	93.8%	\$ -	\$ -	\$ -	0.926	\$ -
1-Dec-15	96	83.9%	108	90.5%	\$ -	\$ -	\$ -	0.918	\$ -
1-Dec-16	84	69.9%	96	84.4%	\$ 60,000	\$ 8,778	\$ 51,222	0.917	\$ 46,995
1-Dec-17	72	56.7%	84	70.8%	\$ 120,000	\$ 23,850	\$ 96,150	0.925	\$ 88,929
1-Dec-18	60	28.5%	72	57.8%	\$ 400,000	\$ 101,523	\$ 298,477	0.914	\$ 272,750
1-Dec-19	48	11.3%	60	29.1%	\$ 600,000	\$ 118,992	\$ 481,008	0.916	\$ 440,684
1-Dec-20	36	2.3%	48	11.5%	\$ 500,000	\$ 47,028	\$ 452,972	0.897	\$ 406,316
1-Dec-21	24	0.0%	36	2.4%	\$ 800,000	\$ 18,705	\$ 781,295	0.870	\$ 679,575
1-Dec-22	12	0.0%	24	0.0%	\$ 900,000	\$ 94	\$ 899,906	0.836	\$ 752,248
1-Dec-23	0	0.0%	12	0.0%	\$ 1,140,000	\$ 119	\$ 1,139,881	0.800	\$ 912,011
<b>Total</b>					\$ 4,520,000	\$ 319,089	\$ 4,200,911		\$ 3,599,508

Column (3): 1 / Exhibit 9 Column (3)  
 Column (5): 1 / Rollforward Exhibit Column (54)  
 Column (6): From Executive Summary  
 Column (7): Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)



**Cook County, Illinois  
Medical Malpractice - Provident Hospital  
Projected Losses Paid 12/1/2024 to 11/30/2025**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/24	Percent Losses Paid	Months of Development 11/30/25	Percent Losses Paid	Estimated Outstanding Losses 11/30/24	Projected Losses Paid	Estimated Outstanding Losses 11/30/25	Discount Factor	Discounted Outstanding Losses 11/30/25
Prior	288	100.0%	300	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	180	99.8%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-10	168	99.4%	180	99.8%	\$ -	\$ -	\$ -	0.978	\$ -
1-Dec-11	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.964	\$ -
1-Dec-12	144	97.7%	156	98.9%	\$ -	\$ -	\$ -	0.951	\$ -
1-Dec-13	132	96.1%	144	97.7%	\$ -	\$ -	\$ -	0.944	\$ -
1-Dec-14	120	93.8%	132	96.1%	\$ -	\$ -	\$ -	0.935	\$ -
1-Dec-15	108	90.5%	120	93.8%	\$ -	\$ -	\$ -	0.926	\$ -
1-Dec-16	96	84.4%	108	90.5%	\$ 51,222	\$ 8,859	\$ 42,364	0.918	\$ 38,877
1-Dec-17	84	70.8%	96	84.4%	\$ 96,150	\$ 14,066	\$ 82,084	0.917	\$ 75,310
1-Dec-18	72	57.8%	84	70.8%	\$ 298,477	\$ 59,322	\$ 239,155	0.925	\$ 221,193
1-Dec-19	60	29.1%	72	57.5%	\$ 481,008	\$ 192,698	\$ 288,310	0.914	\$ 263,459
1-Dec-20	48	11.5%	60	29.1%	\$ 452,972	\$ 89,834	\$ 363,138	0.916	\$ 332,695
1-Dec-21	36	2.4%	48	11.5%	\$ 781,295	\$ 73,486	\$ 707,809	0.897	\$ 634,906
1-Dec-22	24	0.0%	36	2.4%	\$ 899,906	\$ 21,041	\$ 878,865	0.870	\$ 764,442
1-Dec-23	12	0.0%	24	0.0%	\$ 1,139,881	\$ 119	\$ 1,139,761	0.836	\$ 952,748
1-Dec-24	0	0.0%	12	0.0%	\$ 1,190,000	\$ 125	\$ 1,189,875	0.800	\$ 952,012
<b>Total</b>					\$ 5,390,911	\$ 459,549	\$ 4,931,361		\$ 4,235,642

Column (3): 1 / Rollforward Exhibit Column (54)  
 Column (5): 1 / Rollforward Exhibit 2 Column (54)  
 Column (6): Rollforward Exhibit Column (21) & Projection  
 Column (7): Rollforward Exhibit 2 Column (31) - Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)



**Cook County, Illinois  
Medical Malpractice - Provident Hospital  
Projected Losses Paid 12/1/2025 to 11/30/2026**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/25	Percent Losses Paid	Months of Development 11/30/26	Percent Losses Paid	Estimated Outstanding Losses 11/30/25	Projected Losses Paid	Estimated Outstanding Losses 11/30/26	Discount Factor	Discounted Outstanding Losses 11/30/26
Prior	300	100.0%	312	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	288	100.0%	300	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-10	180	99.8%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-11	168	99.4%	180	99.8%	\$ -	\$ -	\$ -	0.978	\$ -
1-Dec-12	156	98.9%	168	99.4%	\$ -	\$ -	\$ -	0.964	\$ -
1-Dec-13	144	97.7%	156	98.9%	\$ -	\$ -	\$ -	0.951	\$ -
1-Dec-14	132	96.1%	144	97.7%	\$ -	\$ -	\$ -	0.944	\$ -
1-Dec-15	120	93.8%	132	96.1%	\$ -	\$ -	\$ -	0.935	\$ -
1-Dec-16	108	90.5%	120	93.8%	\$ 42,364	\$ 8,940	\$ 33,423	0.926	\$ 30,934
1-Dec-17	96	84.4%	108	90.5%	\$ 82,084	\$ 14,196	\$ 67,888	0.918	\$ 62,301
1-Dec-18	84	70.8%	96	84.4%	\$ 239,155	\$ 34,987	\$ 204,168	0.917	\$ 187,319
1-Dec-19	72	57.5%	84	70.5%	\$ 288,310	\$ 88,486	\$ 199,824	0.925	\$ 184,816
1-Dec-20	60	29.1%	72	57.5%	\$ 363,138	\$ 145,478	\$ 217,660	0.914	\$ 198,899
1-Dec-21	48	11.5%	60	29.1%	\$ 707,809	\$ 140,373	\$ 567,436	0.916	\$ 519,867
1-Dec-22	36	2.4%	48	11.5%	\$ 878,865	\$ 82,663	\$ 796,202	0.897	\$ 714,194
1-Dec-23	24	0.0%	36	2.4%	\$ 1,139,761	\$ 26,649	\$ 1,113,113	0.870	\$ 968,192
1-Dec-24	12	0.0%	24	0.0%	\$ 1,189,875	\$ 125	\$ 1,189,751	0.836	\$ 994,535
1-Dec-25	0	0.0%	12	0.0%	\$ 1,240,000	\$ 130	\$ 1,239,870	0.800	\$ 992,012
<b>Total</b>					<b>\$ 6,171,361</b>	<b>\$ 542,027</b>	<b>\$ 5,629,335</b>		<b>\$ 4,853,069</b>

Column (3): 1 / Rollforward Exhibit 2 Column (54)

Column (5): 1 / Rollforward Exhibit 3 Column (54)

Column (6): Rollforward Exhibit 2 Column (21) & Projection

Column (7): Rollforward Exhibit 3 Column (31) - Rollforward Exhibit 2 Column (31)

Column (8): Column (6) - Column (7)

Column (9): Based on Column (3) and 4.48% Interest Rate

Column (10): Column (8) x Column (9)





**Cook County, Illinois**  
**Medical Malpractice - Provident Hospital**  
**Large Claims**

All Claims greater than or equal to \$1,000,000

(1)	(2)	(3)	(4)	(5)
<u>Policy</u> <u>Period</u>	<u>Loss</u> <u>Date</u>	<u>Incurred</u> <u>Loss</u>	<u>Paid</u> <u>Loss</u>	<u>Case</u> <u>Reserves</u>
Prior	6/2/1997	2,500,000	2,500,000	-
Prior	9/18/1997	1,000,000	1,000,000	-
Prior	12/18/1997	1,000,000	1,000,000	-
Prior	1/25/1998	1,000,000	1,000,000	-
Prior	4/17/1999	1,250,000	1,250,000	-
Prior	8/8/2000	1,500,000	1,500,000	-
12/1/2003	2/20/2004	1,500,000	1,500,000	-
12/1/2003	5/18/2004	2,500,000	2,500,000	-
12/1/2003	7/2/2004	2,850,000	2,850,000	-
12/1/2011	3/27/2012	1,450,000	1,450,000	-
12/1/2015	12/30/2015	2,500,000	2,500,000	-



Cook County, Illinois
Medical Malpractice (Cernak, Provident, Stroger)
Occurrence
Indemnity and Expense
Paid Development Triangle
Data Unlimited (000s)
As of 11/30/2023

Table with columns: Policy Year, Age in Months (12, 24, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, 204, 216, 228, 240, 252, 264, 276) and rows for various policy years from 12/1/2001 to 12/1/2022.

Table with columns: Policy Year, Age-to-Age (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, 240-252, 252-264, 264-276, 276-Ult) and rows for various policy years from 12/1/2001 to 12/1/2022.

Averages table with columns: 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, 240-252, 252-264, 264-276, 276-Ult and rows for 3 Yr Average, 5 Yr Average, 3 Yr Wtd Average, 5 Yr Wtd Average, Avg X Hi-Lo (3yr X 2), Avg X Hi-Lo (5yr X 2), Prior, Industry (AM Bests), Industry (Aon HPL), and Initial Selected.

Tail Factor Calculation table with columns: 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, 240-252, 252-264, 264-276, 276-Ult and rows for Inverse Power Curve Fit, Exponential Curve Fit, Weibull Curve Fit, Manual Entry, Selected Tail Method, Final Link Ratio, and Final CDF.

Industry Factor Source: AM Bests Med Mal Occ



Cook County, Illinois  
Medical Malpractice (Cermak, Provident, Stroger)  
Occurrence  
Indemnity and Expense  
Reported Claim Count Triangle  
Data Unlimited (000s)  
As of 11/30/2023

		Age in Months																						
Policy Year		12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276
Prior																					520	520	520	520
12/1/2001																118	118	118	118	118	118	118	118	
12/1/2002															111	111	111	111	111	111	111	111	111	
12/1/2003														161	161	161	161	161	161	161	161	161	161	
12/1/2004											121	121	121	121	121	121	121	121	121	121	121	121	121	
12/1/2005											100	101	101	101	101	101	101	101	101	101	101	101	101	
12/1/2006											72	73	73	73	73	73	73	73	73	73	73	73	73	
12/1/2007											51	51	51	51	51	51	51	51	51	51	51	51	51	
12/1/2008											46	46	46	46	47	47	47	47	47	47	47	47	47	
12/1/2009											51	51	51	51	51	51	51	51	51	51	51	51	51	
12/1/2010											59	59	60	60	60	60	60	60	60	60	60	60	60	
12/1/2011											56	56	57	57	59	59	59	59	59	59	59	59	59	
12/1/2012											64	65	65	65	65	65	65	65	65	65	65	65	65	
12/1/2013											41	42	42	42	42	42	42	42	42	42	42	42	42	
12/1/2014											33	43	45	47	47	47	48							
12/1/2015											35	46	53	56	57	58	58							
12/1/2016											12	19	25	26	24	24								
12/1/2017											28	34	39	42	42	42								
12/1/2018											29	38	44	45	46									
12/1/2019											15	22	27	29										
12/1/2020											16	18	22											
12/1/2021											18	23												
12/1/2022											9													

  

		Age-to-Age																						
Policy Year		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	240-252	252-264	264-276	276-Ult
Prior																					1,000	1,000	1,000	1,000
12/1/2001																					1,000	1,000	1,000	1,000
12/1/2002																					1,000	1,000	1,000	1,000
12/1/2003																					1,000	1,000	1,000	1,000
12/1/2004																					1,000	1,000	1,000	1,000
12/1/2005																					1,000	1,000	1,000	1,000
12/1/2006												1,014	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2007												1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2008												1,000	1,000	1,022	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2009												1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2010												1,017	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2011												1,018	1,000	1,035	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2012												1,016	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2013												1,024	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2014												1,303	1,047	1,044	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2015												1,314	1,152	1,057	1,018	1,018	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2016												1,583	1,316	1,040	0,923	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2017												1,214	1,147	1,077	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2018												1,310	1,158	1,023	1,022	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2019												1,467	1,227	1,074	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2020												1,125	1,222	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2021												1,278	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2022												1,278	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	

  

		Averages																						
		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	240-252	252-264	264-276	276-Ult
All Year Average		1.327	1.218	1.049	1.003	1.003	1.003	1.002	1.008	1.000	1.002	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3 Yr Average		1.290	1.202	1.058	0.982	1.006	1.000	1.000	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Yr Average		1.279	1.214	1.054	1.002	1.004	1.000	1.000	1.011	1.000	1.000	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3 Yr Wtd Average		1.286	1.192	1.055	0.991	1.008	1.000	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Yr Wtd Average		1.274	1.198	1.053	1.009	1.005	1.000	1.000	1.011	1.000	1.000	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Avg X Hi-Lo (3yr X 2)		1.278	1.222	1.074	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Avg X Hi-Lo (5yr X 2)		1.267	1.202	1.057	1.013	1.000	1.000	1.000	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Prior		1.336	1.158	1.041	1.015	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Industry (AM Bests)		1.994	1.466	1.202	1.166	1.108	1.070	1.069	1.047	1.029	1.012	1.009	1.007	1.005	1.004	1.003	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001
Initial Selected		1.327	1.158	1.041	1.015	1.008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

  

		Tail Factor Calculation																						
		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	240-252	252-264	264-276	276-Ult
Inverse Power Curve Fit																								1.000
Exponential Curve Fit																								1.000
Weibull Curve Fit																								1.000
Manual Entry																								1.000
Selected Tail Method:	Manual Entry																							Tail
Final Link Ratio		1.327	1.158	1.041	1.015	1.008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Final CDF		1.638	1.234	1.066	1.023	1.008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Industry Factor Source: AM Bests Med Mal Occ



**Cook County, Illinois**  
**Workers Compensation - General Government (Indemnity) Experience @ 11/30/23**  
**Losses Limited to Retentions**

Policy Period	Payroll (in 00s)	Retention	Reported Claims	Open Claims	Incurred	Paid	Case	Est IBNR	Total O/S	Ultimate	Ultimate Loss Ratio
	(1)	(2)	(3)	(3a)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
							[(4)-(5)]		[(6)+(7)]	[(4)+(7)]	[(9)/(1)]

**Historical Experience**

Prior	-	Various	17,485	9	88,851,335	86,480,686	2,370,649	1,048,665	3,419,314	89,900,000	
1-Dec-01	7,524,575	9,500,000	1,161	-	8,631,892	8,631,892	-	-	-	8,631,892	1.15
1-Dec-02	7,790,984	9,500,000	1,223	2	8,994,680	8,334,228	660,452	50,320	710,772	9,045,000	1.16
1-Dec-03	8,101,821	Various	1,218	3	9,788,449	8,660,741	1,127,707	187,551	1,315,259	9,976,000	1.23
1-Dec-04	8,323,626	Unlimited	1,318	3	9,614,913	9,089,367	525,546	64,087	589,633	9,679,000	1.16
1-Dec-05	8,264,792	Unlimited	1,159	1	9,622,371	9,232,252	390,119	86,629	476,748	9,709,000	1.17
1-Dec-06	8,599,062	Unlimited	903	2	14,236,714	12,454,573	1,782,141	407,286	2,189,427	14,644,000	1.70
1-Dec-07	9,142,601	Unlimited	777	1	18,602,396	18,516,246	86,150	205,604	291,754	18,808,000	2.06
1-Dec-08	9,427,068	Unlimited	767	1	14,781,607	14,483,206	298,401	263,393	561,794	15,045,000	1.60
1-Dec-09	9,982,498	Unlimited	862	4	14,118,593	13,639,269	479,324	461,407	940,731	14,580,000	1.46
1-Dec-10	9,280,825	Unlimited	789	9	13,214,189	11,116,795	2,097,394	585,811	2,683,205	13,800,000	1.49
1-Dec-11	8,990,821	Unlimited	783	5	13,223,588	13,117,274	106,314	576,412	682,726	13,800,000	1.53
1-Dec-12	9,493,384	Unlimited	720	8	13,139,904	11,447,935	1,691,969	390,096	2,082,065	13,530,000	1.43
1-Dec-13	9,880,811	Unlimited	761	22	16,296,203	14,580,982	1,715,221	703,797	2,419,018	17,000,000	1.72
1-Dec-14	9,985,665	Unlimited	778	23	18,164,761	16,643,320	1,521,441	1,435,239	2,956,680	19,600,000	1.96
1-Dec-15	10,539,306	Unlimited	1,108	31	27,235,448	24,324,682	2,910,766	2,064,552	4,975,318	29,300,000	2.78
1-Dec-16	10,752,478	Unlimited	1,240	50	29,727,985	23,887,024	5,840,961	3,272,015	9,112,976	33,000,000	3.07
1-Dec-17	10,065,463	Unlimited	1,088	69	33,010,544	25,409,051	7,601,493	4,289,456	11,890,949	37,300,000	3.71
1-Dec-18	10,381,614	Unlimited	1,038	81	29,388,340	23,381,240	6,007,100	5,611,660	11,618,760	35,000,000	3.37
1-Dec-19	10,539,190	Unlimited	1,221	210	41,910,707	26,205,741	15,704,966	10,589,293	26,294,259	52,500,000	4.98
1-Dec-20	10,216,926	Unlimited	1,205	232	33,723,592	18,906,286	14,817,306	12,276,408	27,093,714	46,000,000	4.50
1-Dec-21	10,654,358	Unlimited	1,281	297	35,581,864	13,928,220	21,653,644	21,418,136	43,071,780	57,000,000	5.35
1-Dec-22	11,616,907	Unlimited	1,100	543	32,898,471	5,988,082	26,910,388	36,101,529	63,011,918	69,000,000	5.94
<b>Total</b>	<b>209,554,774</b>		<b>39,985</b>	<b>1,606</b>	<b>534,758,543</b>	<b>418,459,092</b>	<b>116,299,452</b>	<b>102,089,349</b>	<b>218,388,800</b>	<b>636,847,892</b>	<b>2.61</b>

**Full Policy Period Projections**

1-Dec-23	12,231,964	Unlimited								60,100,000	4.91
1-Dec-24	12,629,995	Unlimited								62,800,000	4.97



**Cook County, Illinois  
Workers Compensation - General Government (Indemnity)**

**Workers Compensation - General Government (Indemnity) Experience @ 11/30/23  
Summary of Various Reserving Methods  
Losses Limited to Retentions**

(1) Policy Period Inception	(2) Chain Ladder			(5) Bornhuetter-Ferguson		(8) Generalized Cape Cod		(9) Freq/Sev	(10) Selected Ultimate
	Incurred	Paid	Outstanding	Incurred	Paid	Incurred	Paid		
Prior	\$ 89,299,220	\$ 87,578,336	\$ 90,432,931	N/A	N/A	N/A	N/A	\$ 89,299,220	\$ 89,900,000
1-Dec-01	\$ 8,692,435	\$ 8,758,614	\$ 8,631,892	\$ 8,821,130	\$ 9,024,994	\$ 8,697,818	\$ 8,762,423	\$ 8,692,435	\$ 8,631,892
1-Dec-02	\$ 9,075,549	\$ 8,473,185	\$ 9,780,519	\$ 9,249,004	\$ 8,802,297	\$ 9,084,182	\$ 8,490,221	\$ 9,075,549	\$ 9,045,000
1-Dec-03	\$ 9,897,870	\$ 8,834,289	\$ 11,239,823	\$ 10,123,069	\$ 9,255,360	\$ 9,908,381	\$ 8,861,909	\$ 9,897,870	\$ 9,976,000
1-Dec-04	\$ 9,751,561	\$ 9,308,588	\$ 10,387,069	\$ 10,055,935	\$ 9,830,558	\$ 9,776,838	\$ 9,346,931	\$ 9,751,561	\$ 9,679,000
1-Dec-05	\$ 9,788,401	\$ 9,492,738	\$ 10,253,866	\$ 10,160,152	\$ 10,102,259	\$ 9,827,094	\$ 9,546,289	\$ 9,788,401	\$ 9,709,000
1-Dec-06	\$ 14,525,809	\$ 12,857,199	\$ 17,344,433	\$ 14,902,797	\$ 13,502,626	\$ 14,503,090	\$ 12,852,128	\$ 14,525,809	\$ 14,644,000
1-Dec-07	\$ 19,037,081	\$ 19,287,232	\$ 18,717,162	\$ 19,428,757	\$ 19,962,924	\$ 18,945,377	\$ 19,089,813	\$ 19,037,081	\$ 18,808,000
1-Dec-08	\$ 15,172,391	\$ 15,237,122	\$ 15,105,588	\$ 15,754,341	\$ 16,351,871	\$ 15,189,487	\$ 15,231,102	\$ 15,172,391	\$ 15,045,000
1-Dec-09	\$ 14,535,323	\$ 14,509,445	\$ 14,557,603	\$ 15,261,227	\$ 16,029,463	\$ 14,604,447	\$ 14,604,205	\$ 14,535,323	\$ 14,580,000
1-Dec-10	\$ 13,645,036	\$ 12,003,425	\$ 14,780,207	\$ 14,332,733	\$ 13,733,424	\$ 13,703,136	\$ 12,192,876	\$ 13,645,036	\$ 13,800,000
1-Dec-11	\$ 13,723,014	\$ 14,373,991	\$ 13,299,399	\$ 14,497,129	\$ 16,176,783	\$ 13,801,987	\$ 14,420,028	\$ 13,723,014	\$ 13,800,000
1-Dec-12	\$ 13,758,891	\$ 12,720,341	\$ 14,522,845	\$ 14,832,376	\$ 15,211,074	\$ 13,947,729	\$ 13,113,500	\$ 13,758,891	\$ 13,530,000
1-Dec-13	\$ 17,259,241	\$ 16,444,637	\$ 17,959,779	\$ 18,529,145	\$ 19,116,187	\$ 17,438,667	\$ 16,713,385	\$ 17,259,241	\$ 17,000,000
1-Dec-14	\$ 19,535,942	\$ 19,313,943	\$ 19,733,148	\$ 21,057,174	\$ 22,341,569	\$ 19,771,846	\$ 19,526,194	\$ 19,535,942	\$ 19,600,000
1-Dec-15	\$ 29,730,697	\$ 29,356,965	\$ 30,027,763	\$ 30,965,182	\$ 31,942,367	\$ 29,513,395	\$ 28,508,883	\$ 29,730,697	\$ 29,300,000
1-Dec-16	\$ 33,262,866	\$ 30,157,384	\$ 35,834,472	\$ 34,634,623	\$ 33,486,947	\$ 32,994,635	\$ 29,525,682	\$ 33,258,386	\$ 33,000,000
1-Dec-17	\$ 38,228,470	\$ 34,805,610	\$ 40,783,672	\$ 39,038,423	\$ 37,331,711	\$ 37,367,086	\$ 32,867,379	\$ 38,215,563	\$ 37,300,000
1-Dec-18	\$ 35,981,239	\$ 35,415,524	\$ 36,418,318	\$ 37,899,075	\$ 39,164,377	\$ 35,988,314	\$ 33,740,771	\$ 35,977,441	\$ 35,000,000
1-Dec-19	\$ 55,120,454	\$ 44,689,548	\$ 63,547,280	\$ 53,450,800	\$ 46,122,242	\$ 51,603,365	\$ 39,847,135	\$ 55,090,292	\$ 52,500,000
1-Dec-20	\$ 48,917,006	\$ 39,418,391	\$ 55,662,490	\$ 48,577,103	\$ 43,791,706	\$ 46,921,272	\$ 36,259,245	\$ 48,912,396	\$ 46,000,000
1-Dec-21	\$ 62,450,971	\$ 39,567,266	\$ 78,367,765	\$ 57,374,314	\$ 46,749,676	\$ 56,064,214	\$ 36,978,734	\$ 62,379,464	\$ 57,000,000
1-Dec-22	\$ 92,627,247	\$ 39,538,788	\$ 118,076,260	\$ 69,029,406	\$ 53,533,936	\$ 68,373,566	\$ 39,384,917	\$ 91,424,584	\$ 69,000,000
Total	\$ 674,016,713	\$ 562,142,559	\$ 745,464,285	\$ 567,973,896	\$ 531,564,349	\$ 548,025,924	\$ 459,863,751	\$ 672,686,585	\$ 636,847,892

Column (2) : from Exhibit 3, Column (5)  
 Column (3) : from Exhibit 3, Column (8)  
 Column (4) : from Exhibit 3, Column (11)

Column (5) : from Exhibit 7, Column (11)  
 Column (6) : from Exhibit 8, Column (11)  
 Column (7) : from Exhibit 4, Column (11)  
 Column (8) : from Exhibit 5, Column (11)

Column (9) : from Exhibit 6, Column (11)  
 Column (10) : Ultimate



**Cook County, Illinois  
Workers Compensation - General Government (Indemnity)**

**Workers Compensation - General Government (Indemnity) Experience @ 11/30/23  
Unpaid Liabilities at Various Discount Rates  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.48%
Prior	276	Various	\$ 89,900,000	\$ 88,851,335	\$ 86,480,686	\$ 2,370,649	\$ 1,048,665	\$ 3,419,314	\$ 2,962,154
1-Dec-01	264	\$ 9,500,000	\$ 8,631,892	\$ 8,631,892	\$ 8,631,892	\$ -	\$ -	\$ -	\$ -
1-Dec-02	252	\$ 9,500,000	\$ 9,045,000	\$ 8,994,680	\$ 8,334,228	\$ 660,452	\$ 50,320	\$ 710,772	\$ 591,507
1-Dec-03	240	Various	\$ 9,976,000	\$ 9,788,449	\$ 8,660,741	\$ 1,127,707	\$ 187,551	\$ 1,315,259	\$ 1,083,438
1-Dec-04	228	Unlimited	\$ 9,679,000	\$ 9,614,913	\$ 9,089,367	\$ 525,546	\$ 64,087	\$ 589,633	\$ 483,455
1-Dec-05	216	Unlimited	\$ 9,709,000	\$ 9,622,371	\$ 9,232,252	\$ 390,119	\$ 86,629	\$ 476,748	\$ 387,221
1-Dec-06	204	Unlimited	\$ 14,644,000	\$ 14,236,714	\$ 12,454,573	\$ 1,782,141	\$ 407,286	\$ 2,189,427	\$ 1,756,474
1-Dec-07	192	Unlimited	\$ 18,808,000	\$ 18,602,396	\$ 18,516,246	\$ 86,150	\$ 205,604	\$ 291,754	\$ 237,327
1-Dec-08	180	Unlimited	\$ 15,045,000	\$ 14,781,607	\$ 14,483,206	\$ 298,401	\$ 263,393	\$ 561,794	\$ 458,956
1-Dec-09	168	Unlimited	\$ 14,580,000	\$ 14,118,593	\$ 13,639,269	\$ 479,324	\$ 461,407	\$ 940,731	\$ 767,908
1-Dec-10	156	Unlimited	\$ 13,800,000	\$ 13,214,189	\$ 11,116,795	\$ 2,097,394	\$ 585,811	\$ 2,683,205	\$ 2,195,791
1-Dec-11	144	Unlimited	\$ 13,800,000	\$ 13,223,588	\$ 13,117,274	\$ 106,314	\$ 576,412	\$ 682,726	\$ 555,414
1-Dec-12	132	Unlimited	\$ 13,530,000	\$ 13,139,904	\$ 11,447,935	\$ 1,691,969	\$ 390,096	\$ 2,082,065	\$ 1,673,552
1-Dec-13	120	Unlimited	\$ 17,000,000	\$ 16,296,203	\$ 14,580,982	\$ 1,715,221	\$ 703,797	\$ 2,419,018	\$ 1,920,352
1-Dec-14	108	Unlimited	\$ 19,600,000	\$ 18,164,761	\$ 16,643,320	\$ 1,521,441	\$ 1,435,239	\$ 2,956,680	\$ 2,363,091
1-Dec-15	96	Unlimited	\$ 29,300,000	\$ 27,235,448	\$ 24,324,682	\$ 2,910,766	\$ 2,064,552	\$ 4,975,318	\$ 4,011,204
1-Dec-16	84	Unlimited	\$ 33,000,000	\$ 29,727,985	\$ 23,887,024	\$ 5,840,961	\$ 3,272,015	\$ 9,112,976	\$ 7,362,711
1-Dec-17	72	Unlimited	\$ 37,300,000	\$ 33,010,544	\$ 25,409,051	\$ 7,601,493	\$ 4,289,456	\$ 11,890,949	\$ 9,755,568
1-Dec-18	60	Unlimited	\$ 35,000,000	\$ 29,388,340	\$ 23,381,240	\$ 6,007,100	\$ 5,611,660	\$ 11,618,760	\$ 9,584,557
1-Dec-19	48	Unlimited	\$ 52,500,000	\$ 41,910,707	\$ 26,205,741	\$ 15,704,966	\$ 10,589,293	\$ 26,294,259	\$ 21,646,329
1-Dec-20	36	Unlimited	\$ 46,000,000	\$ 33,723,592	\$ 18,906,286	\$ 14,817,306	\$ 12,276,408	\$ 27,093,714	\$ 22,406,436
1-Dec-21	24	Unlimited	\$ 57,000,000	\$ 35,581,864	\$ 13,928,220	\$ 21,653,644	\$ 21,418,136	\$ 43,071,780	\$ 35,677,393
1-Dec-22	12	Unlimited	\$ 69,000,000	\$ 32,898,471	\$ 5,988,082	\$ 26,910,388	\$ 36,101,529	\$ 63,011,918	\$ 52,719,321
<b>Total</b>			<b>\$ 636,847,892</b>	<b>\$ 534,758,543</b>	<b>\$ 418,459,092</b>	<b>\$ 116,299,452</b>	<b>\$ 102,089,349</b>	<b>\$ 218,388,800</b>	<b>\$ 180,600,161</b>

Column (4) : from Exhibit 1, Column (10)  
Columns (5), (6), (7) : Exhibit 10

Column (8) : Column (4) - Column (5)  
Column (9) : Column (4) - Column (6)  
Column (9) : Column (10) discounted



**Cook County, Illinois  
Workers Compensation - General Government (Indemnity)**

**Workers Compensation - General Government (Indemnity) Experience @ 11/30/23  
Incurred, Paid, & Outstanding "Chain Ladder" Methods  
Losses Limited to Retentions**

(1) Policy Period Inception	(2) Evaluation in Months	(3) Incurred Chain-Ladder			(6) Paid Chain-Ladder			(9) Outstanding Chain-Ladder		
		(4) Incurred Loss	(4) Incurred LDF	(5) Ultimate Loss	(6) Paid Loss	(7) Paid LDF	(8) Ultimate Loss	(9) Case Reserves	(10) Outstanding LDF	(11) Ultimate Loss
Prior	276	\$ 88,851,335	1.005	\$ 89,299,220	\$ 86,480,686	1.013	\$ 87,578,336	\$ 2,370,649	1.667	\$ 90,432,931
1-Dec-01	264	\$ 8,631,892	1.007	\$ 8,692,435	\$ 8,631,892	1.015	\$ 8,758,614	\$ -	1.928	\$ 8,631,892
1-Dec-02	252	\$ 8,994,680	1.009	\$ 9,075,549	\$ 8,334,228	1.017	\$ 8,473,185	\$ 660,452	2.190	\$ 9,780,519
1-Dec-03	240	\$ 9,788,449	1.011	\$ 9,897,870	\$ 8,660,741	1.020	\$ 8,834,289	\$ 1,127,707	2.287	\$ 11,239,823
1-Dec-04	228	\$ 9,614,913	1.014	\$ 9,751,561	\$ 9,089,367	1.024	\$ 9,308,588	\$ 525,546	2.469	\$ 10,387,069
1-Dec-05	216	\$ 9,622,371	1.017	\$ 9,788,401	\$ 9,232,252	1.028	\$ 9,492,738	\$ 390,119	2.619	\$ 10,253,866
1-Dec-06	204	\$ 14,236,714	1.020	\$ 14,525,809	\$ 12,454,573	1.032	\$ 12,857,199	\$ 1,782,141	2.744	\$ 17,344,433
1-Dec-07	192	\$ 18,602,396	1.023	\$ 19,037,081	\$ 18,516,246	1.042	\$ 19,287,232	\$ 86,150	2.332	\$ 18,717,162
1-Dec-08	180	\$ 14,781,607	1.026	\$ 15,172,391	\$ 14,483,206	1.052	\$ 15,237,122	\$ 298,401	2.086	\$ 15,105,588
1-Dec-09	168	\$ 14,118,593	1.030	\$ 14,535,323	\$ 13,639,269	1.064	\$ 14,509,445	\$ 479,324	1.916	\$ 14,557,603
1-Dec-10	156	\$ 13,214,189	1.033	\$ 13,645,036	\$ 11,116,795	1.080	\$ 12,003,425	\$ 2,097,394	1.747	\$ 14,780,207
1-Dec-11	144	\$ 13,223,588	1.038	\$ 13,723,014	\$ 13,117,274	1.096	\$ 14,373,991	\$ 106,314	1.713	\$ 13,299,399
1-Dec-12	132	\$ 13,139,904	1.047	\$ 13,758,891	\$ 11,447,935	1.111	\$ 12,720,341	\$ 1,691,969	1.817	\$ 14,522,845
1-Dec-13	120	\$ 16,296,203	1.059	\$ 17,259,241	\$ 14,580,982	1.128	\$ 16,444,637	\$ 1,715,221	1.970	\$ 17,959,779
1-Dec-14	108	\$ 18,164,761	1.075	\$ 19,535,942	\$ 16,643,320	1.160	\$ 19,313,943	\$ 1,521,441	2.031	\$ 19,733,148
1-Dec-15	96	\$ 27,235,448	1.092	\$ 29,730,697	\$ 24,324,682	1.207	\$ 29,356,965	\$ 2,910,766	1.959	\$ 30,027,763
1-Dec-16	84	\$ 29,727,985	1.119	\$ 33,262,866	\$ 23,887,024	1.263	\$ 30,157,384	\$ 5,840,961	2.045	\$ 35,834,472
1-Dec-17	72	\$ 33,010,544	1.158	\$ 38,228,470	\$ 25,409,051	1.370	\$ 34,805,610	\$ 7,601,493	2.023	\$ 40,783,672
1-Dec-18	60	\$ 29,388,340	1.224	\$ 35,981,239	\$ 23,381,240	1.515	\$ 35,415,524	\$ 6,007,100	2.170	\$ 36,418,318
1-Dec-19	48	\$ 41,910,707	1.315	\$ 55,120,454	\$ 26,205,741	1.705	\$ 44,689,548	\$ 15,704,966	2.378	\$ 63,547,280
1-Dec-20	36	\$ 33,723,592	1.451	\$ 48,917,006	\$ 18,906,286	2.085	\$ 39,418,391	\$ 14,817,306	2.481	\$ 55,662,490
1-Dec-21	24	\$ 35,581,864	1.755	\$ 62,450,971	\$ 13,928,220	2.841	\$ 39,567,266	\$ 21,653,644	2.976	\$ 78,367,765
1-Dec-22	12	\$ 32,898,471	2.816	\$ 92,627,247	\$ 5,988,082	6.603	\$ 39,538,788	\$ 26,910,388	4.165	\$ 118,076,260
Total		\$ 534,758,543		\$ 674,016,713	\$ 418,459,092		\$ 562,142,559	\$ 116,299,452		\$ 745,464,285

Columns (3), (6), (9) : Exhibit 10

Column (4) & (7) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (8) : Column (6) X Column (7)

Column (10) : Outstanding LDF = (Incurred LDF - 1) X Paid LDF / (Paid LDF - Incurred LDF) + 1

Column (11) : Column (9) X Column (10) + Column (6)





**Cook County, Illinois  
Workers Compensation - General Government (Indemnity)**

**Workers Compensation - General Government (Indemnity) Experience @ 11/30/23  
Generalized Cape Cod Incurred Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Incurred Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Incurred Loss	Trended Payroll (in 00s)	Incurred LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 8,631,892	2.478	1.003	\$ 21,449,936	13,997,926	1.007	1.68	\$ 9,465,328	\$ 8,697,818
1-Dec-02	252	\$ 8,994,680	2.372	1.003	\$ 21,388,948	14,071,385	1.009	1.70	\$ 10,044,388	\$ 9,084,182
1-Dec-03	240	\$ 9,788,449	2.269	1.000	\$ 22,213,930	14,241,630	1.011	1.73	\$ 10,848,671	\$ 9,908,381
1-Dec-04	228	\$ 9,614,913	2.172	1.000	\$ 20,880,486	14,170,415	1.014	1.77	\$ 11,555,371	\$ 9,776,838
1-Dec-05	216	\$ 9,622,371	2.078	1.000	\$ 19,996,825	13,660,441	1.017	1.84	\$ 12,069,537	\$ 9,827,094
1-Dec-06	204	\$ 14,236,714	1.989	1.000	\$ 28,312,121	13,798,971	1.020	1.93	\$ 13,384,272	\$ 14,503,090
1-Dec-07	192	\$ 18,602,396	1.903	1.000	\$ 35,400,977	14,279,004	1.023	2.00	\$ 15,020,892	\$ 18,945,377
1-Dec-08	180	\$ 14,781,607	1.821	1.000	\$ 26,918,554	14,259,286	1.026	2.02	\$ 15,836,155	\$ 15,189,487
1-Dec-09	168	\$ 14,118,593	1.774	1.000	\$ 25,048,493	14,659,634	1.030	2.05	\$ 16,946,306	\$ 14,604,447
1-Dec-10	156	\$ 13,214,189	1.802	1.000	\$ 23,807,446	13,232,237	1.033	2.11	\$ 15,485,068	\$ 13,703,136
1-Dec-11	144	\$ 13,223,588	1.720	1.000	\$ 22,739,458	12,476,093	1.038	2.19	\$ 15,892,997	\$ 13,801,987
1-Dec-12	132	\$ 13,139,904	1.636	1.000	\$ 21,493,443	12,758,314	1.047	2.30	\$ 17,956,387	\$ 13,947,729
1-Dec-13	120	\$ 16,296,203	1.554	1.000	\$ 25,322,234	12,892,217	1.059	2.47	\$ 20,474,856	\$ 17,438,667
1-Dec-14	108	\$ 18,164,761	1.481	1.000	\$ 26,893,573	12,649,542	1.075	2.68	\$ 22,896,991	\$ 19,771,846
1-Dec-15	96	\$ 27,235,448	1.410	1.000	\$ 38,410,640	12,993,985	1.092	2.95	\$ 27,141,567	\$ 29,513,395
1-Dec-16	84	\$ 29,727,985	1.341	1.000	\$ 39,872,393	12,839,021	1.119	3.21	\$ 30,738,840	\$ 32,994,635
1-Dec-17	72	\$ 33,010,544	1.274	1.000	\$ 42,069,059	11,668,630	1.158	3.49	\$ 31,917,649	\$ 37,367,086
1-Dec-18	60	\$ 29,388,340	1.213	1.000	\$ 35,658,734	11,684,598	1.224	3.74	\$ 36,019,850	\$ 35,988,314
1-Dec-19	48	\$ 41,910,707	1.156	1.000	\$ 48,465,186	11,544,860	1.315	4.05	\$ 40,444,658	\$ 51,603,365
1-Dec-20	36	\$ 33,723,592	1.093	1.000	\$ 36,867,078	10,839,137	1.451	4.29	\$ 42,491,505	\$ 46,921,272
1-Dec-21	24	\$ 35,581,864	1.045	1.000	\$ 37,183,048	10,973,988	1.755	4.53	\$ 47,606,443	\$ 56,064,214
1-Dec-22	12	\$ 32,898,471	1.000	1.000	\$ 32,898,471	11,616,907	2.816	4.74	\$ 55,014,696	\$ 68,373,566
Total		\$ 445,907,209			\$ 653,291,033	285,308,221			\$ 519,252,429	\$ 548,025,924

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (Workers Compensation - General Government (Indemnity))

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Workers Compensation - General Government (Indemnity)**

**Workers Compensation - General Government (Indemnity) Experience @ 11/30/23  
Generalized Cape Cod Paid Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Paid Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Paid Loss	Trended Payroll (in 00s)	Paid LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 8,631,892	2.478	1.003	\$ 21,449,936	13,997,926	1.015	1.60	\$ 9,021,850	\$ 8,762,423
1-Dec-02	252	\$ 8,334,228	2.372	1.003	\$ 19,818,423	14,071,385	1.017	1.61	\$ 9,512,042	\$ 8,490,221
1-Dec-03	240	\$ 8,660,741	2.269	1.000	\$ 19,654,708	14,241,630	1.020	1.63	\$ 10,240,288	\$ 8,861,909
1-Dec-04	228	\$ 9,089,367	2.172	1.000	\$ 19,739,169	14,170,415	1.024	1.68	\$ 10,936,705	\$ 9,346,931
1-Dec-05	216	\$ 9,232,252	2.078	1.000	\$ 19,186,095	13,660,441	1.028	1.74	\$ 11,444,278	\$ 9,546,289
1-Dec-06	204	\$ 12,454,573	1.989	1.000	\$ 24,768,032	13,798,971	1.032	1.83	\$ 12,695,281	\$ 12,852,128
1-Dec-07	192	\$ 18,516,246	1.903	1.000	\$ 35,237,030	14,279,004	1.042	1.91	\$ 14,348,552	\$ 19,089,813
1-Dec-08	180	\$ 14,483,206	1.821	1.000	\$ 26,375,141	14,259,286	1.052	1.93	\$ 15,115,463	\$ 15,231,102
1-Dec-09	168	\$ 13,639,269	1.774	1.000	\$ 24,198,100	14,659,634	1.064	1.95	\$ 16,089,481	\$ 14,604,205
1-Dec-10	156	\$ 11,116,795	1.802	1.000	\$ 20,028,660	13,232,237	1.080	1.98	\$ 14,568,255	\$ 12,192,876
1-Dec-11	144	\$ 13,117,274	1.720	1.000	\$ 22,556,639	12,476,093	1.096	2.05	\$ 14,900,542	\$ 14,420,028
1-Dec-12	132	\$ 11,447,935	1.636	1.000	\$ 18,725,825	12,758,314	1.111	2.13	\$ 16,650,786	\$ 13,113,500
1-Dec-13	120	\$ 14,580,982	1.554	1.000	\$ 22,656,998	12,892,217	1.128	2.27	\$ 18,816,036	\$ 16,713,385
1-Dec-14	108	\$ 16,643,320	1.481	1.000	\$ 24,641,026	12,649,542	1.160	2.44	\$ 20,848,944	\$ 19,526,194
1-Dec-15	96	\$ 24,324,682	1.410	1.000	\$ 34,305,535	12,993,985	1.207	2.65	\$ 24,409,489	\$ 28,508,883
1-Dec-16	84	\$ 23,887,024	1.341	1.000	\$ 32,038,257	12,839,021	1.263	2.83	\$ 27,119,205	\$ 29,525,682
1-Dec-17	72	\$ 25,409,051	1.274	1.000	\$ 32,381,620	11,668,630	1.370	3.02	\$ 27,626,248	\$ 32,867,379
1-Dec-18	60	\$ 23,381,240	1.213	1.000	\$ 28,369,939	11,684,598	1.515	3.17	\$ 30,486,917	\$ 33,740,771
1-Dec-19	48	\$ 26,205,741	1.156	1.000	\$ 30,304,096	11,544,860	1.705	3.30	\$ 32,981,719	\$ 39,847,135
1-Dec-20	36	\$ 18,906,286	1.093	1.000	\$ 20,668,603	10,839,137	2.085	3.36	\$ 33,347,417	\$ 36,259,245
1-Dec-21	24	\$ 13,928,220	1.045	1.000	\$ 14,554,990	10,973,988	2.841	3.39	\$ 35,572,533	\$ 36,978,734
1-Dec-22	12	\$ 5,988,082	1.000	1.000	\$ 5,988,082	11,616,907	6.603	3.39	\$ 39,357,454	\$ 39,384,917
Total		\$ 331,978,406			\$ 517,646,904	285,308,221			\$ 446,089,484	\$ 459,863,751

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (Workers Compensation - General Government (Indemnity))

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Workers Compensation - General Government (Indemnity)**

**Workers Compensation - General Government (Indemnity) Experience @ 11/30/23  
Frequency & Severity Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Reported Claims	Claim CDF	Ultimate Claims	Severity LDF	Reported Severity	Ultimate Reported Severity	Unreported Claims	Ultimate Unreported Severity	Ultimate Loss
Prior	276	17,485	1.000	17,485	1.005	\$ 5,082	\$ 5,107	0	\$ 5,578	\$ 89,299,220
1-Dec-01	264	1,161	1.000	1,161	1.007	\$ 7,435	\$ 7,487	0	\$ 6,115	\$ 8,692,435
1-Dec-02	252	1,223	1.000	1,223	1.009	\$ 7,355	\$ 7,421	0	\$ 6,739	\$ 9,075,549
1-Dec-03	240	1,218	1.000	1,218	1.011	\$ 8,036	\$ 8,126	0	\$ 7,510	\$ 9,897,870
1-Dec-04	228	1,318	1.000	1,318	1.014	\$ 7,295	\$ 7,399	0	\$ 8,420	\$ 9,751,561
1-Dec-05	216	1,159	1.000	1,159	1.017	\$ 8,302	\$ 8,446	0	\$ 9,643	\$ 9,788,401
1-Dec-06	204	903	1.000	903	1.020	\$ 15,766	\$ 16,086	0	\$ 11,294	\$ 14,525,809
1-Dec-07	192	777	1.000	777	1.023	\$ 23,941	\$ 24,501	0	\$ 13,079	\$ 19,037,081
1-Dec-08	180	767	1.000	767	1.026	\$ 19,272	\$ 19,781	0	\$ 14,576	\$ 15,172,391
1-Dec-09	168	862	1.000	862	1.030	\$ 16,379	\$ 16,862	0	\$ 15,718	\$ 14,535,323
1-Dec-10	156	789	1.000	789	1.033	\$ 16,748	\$ 17,294	0	\$ 16,239	\$ 13,645,036
1-Dec-11	144	783	1.000	783	1.038	\$ 16,888	\$ 17,526	0	\$ 17,823	\$ 13,723,014
1-Dec-12	132	720	1.000	720	1.047	\$ 18,250	\$ 19,110	0	\$ 19,683	\$ 13,758,891
1-Dec-13	120	761	1.000	761	1.059	\$ 21,414	\$ 22,680	0	\$ 21,814	\$ 17,259,241
1-Dec-14	108	778	1.000	778	1.075	\$ 23,348	\$ 25,110	0	\$ 24,009	\$ 19,535,942
1-Dec-15	96	1,108	1.000	1,108	1.092	\$ 24,581	\$ 26,833	0	\$ 26,295	\$ 29,730,697
1-Dec-16	84	1,240	1.001	1,241	1.118	\$ 23,974	\$ 26,798	1	\$ 28,750	\$ 33,258,386
1-Dec-17	72	1,088	1.002	1,090	1.156	\$ 30,341	\$ 35,066	2	\$ 31,718	\$ 38,215,563
1-Dec-18	60	1,038	1.003	1,041	1.221	\$ 28,312	\$ 34,560	3	\$ 34,643	\$ 35,977,441
1-Dec-19	48	1,221	1.004	1,226	1.310	\$ 34,325	\$ 44,964	5	\$ 37,954	\$ 55,090,292
1-Dec-20	36	1,205	1.007	1,213	1.441	\$ 27,986	\$ 40,317	8	\$ 41,268	\$ 48,912,396
1-Dec-21	24	1,281	1.013	1,297	1.733	\$ 27,777	\$ 48,136	16	\$ 44,836	\$ 62,379,464
1-Dec-22	12	1,100	1.033	1,136	2.725	\$ 29,908	\$ 81,513	36	\$ 48,908	\$ 91,424,584
Total		39,985		40,056				71		\$ 672,686,585

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (6) : from {Exhibit 3, Column (4)} / Column (4)

Column (7) : from {Exhibit 3, Column (3)} / Column (3)

Column (8) : Column (6) X Column (7)

Column (9) : Column (5) - Column (3)

Column (10) : Weighted Average of Column (8) adjusted for Trend and Retention

Column (11) : Column (3) X Column (8) + Column (9) X Column (10)



**Cook County, Illinois  
Workers Compensation - General Government (Indemnity)**

**Workers Compensation - General Government (Indemnity) Experience @ 11/30/23  
Incurred Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Incurred Losses	Incurred LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	IBNR Factor	IBNR	Expected Ultimate Loss
1-Dec-01	\$ 9,500,000	\$ 8,631,892	1.007	3.62	1.003	3.61	\$ 27,169,866	0.007	\$ 189,238	\$ 8,821,130
1-Dec-02	\$ 9,500,000	\$ 8,994,680	1.009	3.67	1.003	3.66	\$ 28,541,509	0.009	\$ 254,324	\$ 9,249,004
1-Dec-03	Various	\$ 9,788,449	1.011	3.74	1.000	3.74	\$ 30,268,575	0.011	\$ 334,621	\$ 10,123,069
1-Dec-04	Unlimited	\$ 9,614,913	1.014	3.78	1.000	3.78	\$ 31,472,494	0.014	\$ 441,022	\$ 10,055,935
1-Dec-05	Unlimited	\$ 9,622,371	1.017	3.84	1.000	3.84	\$ 31,705,135	0.017	\$ 537,781	\$ 10,160,152
1-Dec-06	Unlimited	\$ 14,236,714	1.020	3.89	1.000	3.89	\$ 33,467,853	0.020	\$ 666,083	\$ 14,902,797
1-Dec-07	Unlimited	\$ 18,602,396	1.023	3.96	1.000	3.96	\$ 36,190,565	0.023	\$ 826,361	\$ 19,428,757
1-Dec-08	Unlimited	\$ 14,781,607	1.026	4.01	1.000	4.01	\$ 37,766,917	0.026	\$ 972,735	\$ 15,754,341
1-Dec-09	Unlimited	\$ 14,118,593	1.030	3.99	1.000	3.99	\$ 39,854,445	0.029	\$ 1,142,634	\$ 15,261,227
1-Dec-10	Unlimited	\$ 13,214,189	1.033	3.82	1.000	3.82	\$ 35,424,585	0.032	\$ 1,118,544	\$ 14,332,733
1-Dec-11	Unlimited	\$ 13,223,588	1.038	3.89	1.000	3.89	\$ 34,993,842	0.036	\$ 1,273,541	\$ 14,497,129
1-Dec-12	Unlimited	\$ 13,139,904	1.047	3.96	1.000	3.96	\$ 37,620,390	0.045	\$ 1,692,473	\$ 14,832,376
1-Dec-13	Unlimited	\$ 16,296,203	1.059	4.05	1.000	4.05	\$ 40,018,042	0.056	\$ 2,232,942	\$ 18,529,145
1-Dec-14	Unlimited	\$ 18,164,761	1.075	4.13	1.000	4.13	\$ 41,209,734	0.070	\$ 2,892,413	\$ 21,057,174
1-Dec-15	Unlimited	\$ 27,235,448	1.092	4.22	1.000	4.22	\$ 44,439,500	0.084	\$ 3,729,734	\$ 30,965,182
1-Dec-16	Unlimited	\$ 29,727,985	1.119	4.29	1.000	4.29	\$ 46,170,961	0.106	\$ 4,906,638	\$ 34,634,623
1-Dec-17	Unlimited	\$ 33,010,544	1.158	4.39	1.000	4.39	\$ 44,162,491	0.136	\$ 6,027,879	\$ 39,038,423
1-Dec-18	Unlimited	\$ 29,388,340	1.224	4.47	1.000	4.47	\$ 46,447,970	0.183	\$ 8,510,735	\$ 37,899,075
1-Dec-19	Unlimited	\$ 41,910,707	1.315	4.57	1.000	4.57	\$ 48,153,470	0.240	\$ 11,540,093	\$ 53,450,800
1-Dec-20	Unlimited	\$ 33,723,592	1.451	4.68	1.000	4.68	\$ 47,822,649	0.311	\$ 14,853,512	\$ 48,577,103
1-Dec-21	Unlimited	\$ 35,581,864	1.755	4.75	1.000	4.75	\$ 50,651,466	0.430	\$ 21,792,450	\$ 57,374,314
1-Dec-22	Unlimited	\$ 32,898,471	2.816	4.82	1.000	4.82	\$ 56,031,770	0.645	\$ 36,130,935	\$ 69,029,406
Total		\$ 445,907,209					\$ 869,584,229		\$ 122,066,687	\$ 567,973,896

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Payroll) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Workers Compensation - General Government (Indemnity)**

**Workers Compensation - General Government (Indemnity) Experience @ 11/30/23  
Paid Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Paid Losses	Paid LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	Unpaid Factor	Unpaid	Expected Ultimate Loss
1-Dec-01	\$ 9,500,000	\$ 8,631,892	1.015	3.62	1.003	3.61	\$ 27,169,866	0.014	\$ 393,102	\$ 9,024,994
1-Dec-02	\$ 9,500,000	\$ 8,334,228	1.017	3.67	1.003	3.66	\$ 28,541,509	0.016	\$ 468,068	\$ 8,802,297
1-Dec-03	Various	\$ 8,660,741	1.020	3.74	1.000	3.74	\$ 30,268,575	0.020	\$ 594,618	\$ 9,255,360
1-Dec-04	Unlimited	\$ 9,089,367	1.024	3.78	1.000	3.78	\$ 31,472,494	0.024	\$ 741,191	\$ 9,830,558
1-Dec-05	Unlimited	\$ 9,232,252	1.028	3.84	1.000	3.84	\$ 31,705,135	0.027	\$ 870,007	\$ 10,102,259
1-Dec-06	Unlimited	\$ 12,454,573	1.032	3.89	1.000	3.89	\$ 33,467,853	0.031	\$ 1,048,053	\$ 13,502,626
1-Dec-07	Unlimited	\$ 18,516,246	1.042	3.96	1.000	3.96	\$ 36,190,565	0.040	\$ 1,446,678	\$ 19,962,924
1-Dec-08	Unlimited	\$ 14,483,206	1.052	4.01	1.000	4.01	\$ 37,766,917	0.049	\$ 1,868,664	\$ 16,351,871
1-Dec-09	Unlimited	\$ 13,639,269	1.064	3.99	1.000	3.99	\$ 39,854,445	0.060	\$ 2,390,195	\$ 16,029,463
1-Dec-10	Unlimited	\$ 11,116,795	1.080	3.82	1.000	3.82	\$ 35,424,585	0.074	\$ 2,616,630	\$ 13,733,424
1-Dec-11	Unlimited	\$ 13,117,274	1.096	3.89	1.000	3.89	\$ 34,993,842	0.087	\$ 3,059,509	\$ 16,176,783
1-Dec-12	Unlimited	\$ 11,447,935	1.111	3.96	1.000	3.96	\$ 37,620,390	0.100	\$ 3,763,139	\$ 15,211,074
1-Dec-13	Unlimited	\$ 14,580,982	1.128	4.05	1.000	4.05	\$ 40,018,042	0.113	\$ 4,535,205	\$ 19,116,187
1-Dec-14	Unlimited	\$ 16,643,320	1.160	4.13	1.000	4.13	\$ 41,209,734	0.138	\$ 5,698,248	\$ 22,341,569
1-Dec-15	Unlimited	\$ 24,324,682	1.207	4.22	1.000	4.22	\$ 44,439,500	0.171	\$ 7,617,685	\$ 31,942,367
1-Dec-16	Unlimited	\$ 23,887,024	1.263	4.29	1.000	4.29	\$ 46,170,961	0.208	\$ 9,599,923	\$ 33,486,947
1-Dec-17	Unlimited	\$ 25,409,051	1.370	4.39	1.000	4.39	\$ 44,162,491	0.270	\$ 11,922,659	\$ 37,331,711
1-Dec-18	Unlimited	\$ 23,381,240	1.515	4.47	1.000	4.47	\$ 46,447,970	0.340	\$ 15,783,138	\$ 39,164,377
1-Dec-19	Unlimited	\$ 26,205,741	1.705	4.57	1.000	4.57	\$ 48,153,470	0.414	\$ 19,916,501	\$ 46,122,242
1-Dec-20	Unlimited	\$ 18,906,286	2.085	4.68	1.000	4.68	\$ 47,822,649	0.520	\$ 24,885,420	\$ 43,791,706
1-Dec-21	Unlimited	\$ 13,928,220	2.841	4.75	1.000	4.75	\$ 50,651,466	0.648	\$ 32,821,456	\$ 46,749,676
1-Dec-22	Unlimited	\$ 5,988,082	6.603	4.82	1.000	4.82	\$ 56,031,770	0.849	\$ 47,545,854	\$ 53,533,936
Total		\$ 331,978,406					\$ 869,584,229		\$ 199,585,944	\$ 531,564,349

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Payroll) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Workers Compensation - General Government (Indemnity)**

**Workers Compensation - General Government (Indemnity) Experience @ 11/30/23  
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred LDF's		(4) Paid LDF's		(6) Claim CDF	(8) Trend Factors		(9) Payroll (in 00s)
	Unlimited	Limited	Unlimited	Limited		Loss	Exposure	
Prior	1.005	1.005	1.013	1.013	1.000	2.590	1.893	-
1-Dec-01	1.007	1.007	1.015	1.015	1.000	2.478	1.860	7,524,575
1-Dec-02	1.009	1.009	1.017	1.017	1.000	2.372	1.806	7,790,984
1-Dec-03	1.011	1.011	1.020	1.020	1.000	2.269	1.758	8,101,821
1-Dec-04	1.014	1.014	1.024	1.024	1.000	2.172	1.702	8,323,626
1-Dec-05	1.017	1.017	1.028	1.028	1.000	2.078	1.653	8,264,792
1-Dec-06	1.020	1.020	1.032	1.032	1.000	1.989	1.605	8,599,062
1-Dec-07	1.023	1.023	1.042	1.042	1.000	1.903	1.562	9,142,601
1-Dec-08	1.026	1.026	1.052	1.052	1.000	1.821	1.513	9,427,068
1-Dec-09	1.030	1.030	1.064	1.064	1.000	1.774	1.469	9,982,498
1-Dec-10	1.033	1.033	1.080	1.080	1.000	1.802	1.426	9,280,825
1-Dec-11	1.038	1.038	1.096	1.096	1.000	1.720	1.388	8,990,821
1-Dec-12	1.047	1.047	1.111	1.111	1.000	1.636	1.344	9,493,384
1-Dec-13	1.059	1.059	1.128	1.128	1.000	1.554	1.305	9,880,811
1-Dec-14	1.075	1.075	1.160	1.160	1.000	1.481	1.267	9,985,665
1-Dec-15	1.092	1.092	1.207	1.207	1.000	1.410	1.233	10,539,306
1-Dec-16	1.119	1.119	1.263	1.263	1.001	1.341	1.194	10,752,478
1-Dec-17	1.158	1.158	1.370	1.370	1.002	1.274	1.159	10,065,463
1-Dec-18	1.224	1.224	1.515	1.515	1.003	1.213	1.126	10,381,614
1-Dec-19	1.315	1.315	1.705	1.705	1.004	1.156	1.095	10,539,190
1-Dec-20	1.451	1.451	2.085	2.085	1.007	1.093	1.061	10,216,926
1-Dec-21	1.755	1.755	2.841	2.841	1.013	1.045	1.030	10,654,358
1-Dec-22	2.816	2.816	6.603	6.603	1.033	1.000	1.000	11,616,907

Methods Included in Analysis :  
Source Used for LDFs :

**Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity  
Company Exclusively**

LDF Annual Decay Rate (Incurred/Paid/Clm Count): **0.75**  
ELR for B/F Method : **4.91**  
Generalized Cape Cod Decay Factor: **0.75**  
Loss Limitation :  
Discount Rates : **4.48%**  
States Selected for WC : **IL**

**Exhibit 10, Column (5)**

**Column (2) : Company Exclusively**  
**Column (3) : Exhibit 13, Sheet 1, Column (15)**  
**Column (4) : Company Exclusively**

**Column (5) : Exhibit 13, Sheet 2, Column (15)**  
**Column (6) : Company Exclusively**  
**Column (7) : Aon Compilation of Estimated Trends, California Indices, Benefit Level Adjustment Factors**  
**Column (8) : Flat 3.00%**  
**Column (9) : supplied by Cook County, Illinois**



**Cook County, Illinois  
Workers Compensation - General Government (Indemnity)**

**Workers Compensation - General Government (Indemnity) Experience @ 11/30/23  
Limited Loss Calculations**

(1) Policy Period Inception	(2) Unlimited			(5) Retention	(6) Claims valued over the Retention			(10) Limited			
	Incurred	Paid	Case O/S		No.	Incurred	No.	Paid	Incurred	Paid	Case O/S
Prior	\$ 88,851,335	\$ 86,480,686	\$ 2,370,649	Various	-	\$ -	-	\$ -	\$ 88,851,335	\$ 86,480,686	\$ 2,370,649
1-Dec-01	\$ 8,631,892	\$ 8,631,892	\$ -	\$ 9,500,000	-	\$ -	-	\$ -	\$ 8,631,892	\$ 8,631,892	\$ -
1-Dec-02	\$ 8,994,680	\$ 8,334,228	\$ 660,452	\$ 9,500,000	-	\$ -	-	\$ -	\$ 8,994,680	\$ 8,334,228	\$ 660,452
1-Dec-03	\$ 9,788,449	\$ 8,660,741	\$ 1,127,707	Various	-	\$ -	-	\$ -	\$ 9,788,449	\$ 8,660,741	\$ 1,127,707
1-Dec-04	\$ 9,614,913	\$ 9,089,367	\$ 525,546	Unlimited	-	\$ -	-	\$ -	\$ 9,614,913	\$ 9,089,367	\$ 525,546
1-Dec-05	\$ 9,622,371	\$ 9,232,252	\$ 390,119	Unlimited	-	\$ -	-	\$ -	\$ 9,622,371	\$ 9,232,252	\$ 390,119
1-Dec-06	\$ 14,236,714	\$ 12,454,573	\$ 1,782,141	Unlimited	-	\$ -	-	\$ -	\$ 14,236,714	\$ 12,454,573	\$ 1,782,141
1-Dec-07	\$ 18,602,396	\$ 18,516,246	\$ 86,150	Unlimited	-	\$ -	-	\$ -	\$ 18,602,396	\$ 18,516,246	\$ 86,150
1-Dec-08	\$ 14,781,607	\$ 14,483,206	\$ 298,401	Unlimited	-	\$ -	-	\$ -	\$ 14,781,607	\$ 14,483,206	\$ 298,401
1-Dec-09	\$ 14,118,593	\$ 13,639,269	\$ 479,324	Unlimited	-	\$ -	-	\$ -	\$ 14,118,593	\$ 13,639,269	\$ 479,324
1-Dec-10	\$ 13,214,189	\$ 11,116,795	\$ 2,097,394	Unlimited	-	\$ -	-	\$ -	\$ 13,214,189	\$ 11,116,795	\$ 2,097,394
1-Dec-11	\$ 13,223,588	\$ 13,117,274	\$ 106,314	Unlimited	-	\$ -	-	\$ -	\$ 13,223,588	\$ 13,117,274	\$ 106,314
1-Dec-12	\$ 13,139,904	\$ 11,447,935	\$ 1,691,969	Unlimited	-	\$ -	-	\$ -	\$ 13,139,904	\$ 11,447,935	\$ 1,691,969
1-Dec-13	\$ 16,296,203	\$ 14,580,982	\$ 1,715,221	Unlimited	-	\$ -	-	\$ -	\$ 16,296,203	\$ 14,580,982	\$ 1,715,221
1-Dec-14	\$ 18,164,761	\$ 16,643,320	\$ 1,521,441	Unlimited	-	\$ -	-	\$ -	\$ 18,164,761	\$ 16,643,320	\$ 1,521,441
1-Dec-15	\$ 27,235,448	\$ 24,324,682	\$ 2,910,766	Unlimited	-	\$ -	-	\$ -	\$ 27,235,448	\$ 24,324,682	\$ 2,910,766
1-Dec-16	\$ 29,727,985	\$ 23,887,024	\$ 5,840,961	Unlimited	-	\$ -	-	\$ -	\$ 29,727,985	\$ 23,887,024	\$ 5,840,961
1-Dec-17	\$ 33,010,544	\$ 25,409,051	\$ 7,601,493	Unlimited	-	\$ -	-	\$ -	\$ 33,010,544	\$ 25,409,051	\$ 7,601,493
1-Dec-18	\$ 29,388,340	\$ 23,381,240	\$ 6,007,100	Unlimited	-	\$ -	-	\$ -	\$ 29,388,340	\$ 23,381,240	\$ 6,007,100
1-Dec-19	\$ 41,910,707	\$ 26,205,741	\$ 15,704,966	Unlimited	-	\$ -	-	\$ -	\$ 41,910,707	\$ 26,205,741	\$ 15,704,966
1-Dec-20	\$ 33,723,592	\$ 18,906,286	\$ 14,817,306	Unlimited	-	\$ -	-	\$ -	\$ 33,723,592	\$ 18,906,286	\$ 14,817,306
1-Dec-21	\$ 35,581,864	\$ 13,928,220	\$ 21,653,644	Unlimited	-	\$ -	-	\$ -	\$ 35,581,864	\$ 13,928,220	\$ 21,653,644
1-Dec-22	\$ 32,898,471	\$ 5,988,082	\$ 26,910,388	Unlimited	-	\$ -	-	\$ -	\$ 32,898,471	\$ 5,988,082	\$ 26,910,388
	\$ 534,758,544	\$ 418,459,092	\$ 116,299,452		-	\$ -	-	\$ -	\$ 534,758,543	\$ 418,459,092	\$ 116,299,452

Column (2) and Column (3) : Supplied by Cook County, Illinois  
 Column (4) : Column (2) - Column (3)  
 Column (5) : Individual loss limitation

Column (6) through Column (9) : supplied by Cook County, Illinois  
 Column (10) : Column (2) - Column (7) + [Column (5) x Column (6)]  
 Column (11) : Column (3) - Column (9) + [Column (5) x Column (8)]



**Cook County, Illinois  
Workers Compensation - General Government (Indemnity)**

**Workers Compensation - General Government (Indemnity) Experience @ 11/30/23  
Selected Ultimate Claim Counts**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Policy Period Inception	Trended Payroll (in 00s)	Reported Claims	Claim CDF	Chain-Ladder Developed Claims	Frequency Trend	Trended Developed Claims	Trended Frequency Rate	Bornhuetter -Ferguson Developed	Selected Trended Claims	Selected Untrended Claims	Trended Frequency Rate
1-Dec-01	13,997,926	1,161	1.000	1,161	1.000	1,161	0.00829%		1,161	1,161	0.00829%
1-Dec-02	14,071,385	1,223	1.000	1,223	1.000	1,223	0.00869%		1,223	1,223	0.00869%
1-Dec-03	14,241,630	1,218	1.000	1,218	1.000	1,218	0.00855%		1,218	1,218	0.00855%
1-Dec-04	14,170,415	1,318	1.000	1,318	1.000	1,318	0.00930%		1,318	1,318	0.00930%
1-Dec-05	13,660,441	1,159	1.000	1,159	1.000	1,159	0.00848%		1,159	1,159	0.00848%
1-Dec-06	13,798,971	903	1.000	903	1.000	903	0.00654%		903	903	0.00654%
1-Dec-07	14,279,004	777	1.000	777	1.000	777	0.00544%		777	777	0.00544%
1-Dec-08	14,259,286	767	1.000	767	1.000	767	0.00538%		767	767	0.00538%
1-Dec-09	14,659,634	862	1.000	862	1.000	862	0.00588%		862	862	0.00588%
1-Dec-10	13,232,237	789	1.000	789	1.000	789	0.00596%		789	789	0.00596%
1-Dec-11	12,476,093	783	1.000	783	1.000	783	0.00628%		783	783	0.00628%
1-Dec-12	12,758,314	720	1.000	720	1.000	720	0.00564%		720	720	0.00564%
1-Dec-13	12,892,217	761	1.000	761	1.000	761	0.00590%		761	761	0.00590%
1-Dec-14	12,649,542	778	1.000	778	1.000	778	0.00615%		778	778	0.00615%
1-Dec-15	12,993,985	1,108	1.000	1,108	1.000	1,108	0.00853%		1,108	1,108	0.00853%
1-Dec-16	12,839,021	1,240	1.001	1,241	1.000	1,241	0.00967%		1,241	1,241	0.00967%
1-Dec-17	11,668,630	1,088	1.002	1,090	1.000	1,090	0.00934%		1,090	1,090	0.00934%
1-Dec-18	11,684,598	1,038	1.003	1,041	1.000	1,041	0.00891%		1,041	1,041	0.00891%
1-Dec-19	11,544,860	1,221	1.004	1,226	1.000	1,226	0.01062%		1,226	1,226	0.01062%
1-Dec-20	10,839,137	1,205	1.007	1,213	1.000	1,213	0.01119%		1,213	1,213	0.01119%
1-Dec-21	10,973,988	1,281	1.013	1,297	1.000	1,297	0.01182%		1,297	1,297	0.01182%
1-Dec-22	11,616,907	1,100	1.033	1,136	1.000	1,136	0.00978%		1,136	1,136	0.00978%
Total	285,308,221	22,500		22,572		22,572	0.00791%		22,572	22,571	0.00791%

Column (2) : from Exhibit 4  
 Column (3) : supplied by Cook County, Illinois  
 Column (4) : from Exhibit 9

Column (5) : Column (3) x Column (4)  
 Column (6) : Assumption  
 Column (7) : Column (5) x Column (6)  
 Column (8) : Column (7) / Column (2)

Column (9) : Bornhuetter Method = (3) + (1.0 - 1.0 / (4)) x 1,652  
 Column (10) : Selected Trended Ultimate Claims  
 Column (11) : Column (10) / Column (6)  
 Column (12) : Column (10) / Column (2)

Selected Frequency Rate for Renewal Policy Period 1-Dec-23					
Weighted Averages through and including Policy Period 1-Dec-22					
Last 5 Policies	56,659,491			5,914	0.01044%
Last 3 Policies	33,430,033			3,647	0.01091%
Last 2 Policies	22,590,896			2,434	0.01077%
Last 22 Policies	285,308,221			22,572	0.00791%
Selected Bornhuetter-Ferguson Frequency Rate					<b>0.01121%</b>
Factor to adjust the Claims / Exposure Trend Rate from Policy Period 1-Dec-22 to Renewal Period 1-Dec-23					0.973
Selected Frequency Rate adjusted to the Renewal Policy Period Level					0.01091%
Payroll for 1-Dec-23					12,231,964
Projected Count for 1-Dec-23					1,335





**Cook County, Illinois**  
**Workers Compensation - General Government (Indemnity)**  
**Workers Compensation - General Government (Indemnity) Experience @ 11/30/23**  
**Losses Limited to Retentions**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Policy Period Inception	Incurred Loss	Selected Ultimate Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Ultimate Loss	Payroll (in 00s)	Exposure Trend Factor	Trended Payroll (in 00s)	Trended Loss Rate
1-Dec-01	8,631,892	8,631,892	2.590	1.003	22,415,184	7,524,575	1.911	14,382,393	1.56
1-Dec-02	8,994,680	9,045,000	2.478	1.003	22,476,495	7,790,984	1.856	14,457,869	1.55
1-Dec-03	9,788,449	9,976,000	2.372	1.000	23,658,339	8,101,821	1.806	14,632,790	1.62
1-Dec-04	9,614,913	9,679,000	2.269	1.000	21,965,547	8,323,626	1.749	14,559,620	1.51
1-Dec-05	9,622,371	9,709,000	2.172	1.000	21,084,812	8,264,792	1.698	14,035,639	1.50
1-Dec-06	14,236,714	14,644,000	2.078	1.000	30,432,573	8,599,062	1.649	14,177,973	2.15
1-Dec-07	18,602,396	18,808,000	1.989	1.000	37,402,900	9,142,601	1.605	14,671,191	2.55
1-Dec-08	14,781,607	15,045,000	1.903	1.000	28,631,135	9,427,068	1.554	14,650,932	1.95
1-Dec-09	14,118,593	14,580,000	1.854	1.000	27,031,118	9,982,498	1.509	15,062,276	1.79
1-Dec-10	13,214,189	13,800,000	1.883	1.000	25,981,707	9,280,825	1.465	13,595,673	1.91
1-Dec-11	13,223,588	13,800,000	1.797	1.000	24,798,543	8,990,821	1.426	12,818,761	1.93
1-Dec-12	13,139,904	13,530,000	1.709	1.000	23,127,458	9,493,384	1.381	13,108,734	1.76
1-Dec-13	16,296,203	17,000,000	1.624	1.000	27,604,558	9,880,811	1.341	13,246,314	2.08
1-Dec-14	18,164,761	19,600,000	1.547	1.000	30,324,327	9,985,665	1.302	12,996,974	2.33
1-Dec-15	27,235,448	29,300,000	1.474	1.000	43,181,819	10,539,306	1.267	13,350,878	3.23
1-Dec-16	29,727,985	33,000,000	1.402	1.000	46,252,697	10,752,478	1.227	13,191,658	3.51
1-Dec-17	33,010,544	37,300,000	1.332	1.000	49,674,699	10,065,463	1.191	11,989,120	4.14
1-Dec-18	29,388,340	35,000,000	1.268	1.000	44,378,764	10,381,614	1.156	12,005,527	3.70
1-Dec-19	41,910,707	52,500,000	1.208	1.000	63,442,529	10,539,190	1.126	11,861,951	5.35
1-Dec-20	33,723,592	46,000,000	1.142	1.000	52,550,762	10,216,926	1.090	11,136,845	4.72
1-Dec-21	35,581,864	57,000,000	1.092	1.000	62,245,425	10,654,358	1.058	11,275,400	5.52
1-Dec-22	32,898,471	69,000,000	1.045	1.000	72,105,000	11,616,907	1.027	11,935,977	6.04
<b>All Year Weighted Average</b>					800,766,391			293,144,495	2.73
<b>Latest 5-Year Weighted Average</b>					294,722,480			58,215,700	5.06
<b>Latest 3-Year Weighted Average</b>					186,901,187			34,348,222	5.44
<b>SELECTED - Based on Shaded PY</b>					344,397,179			70,204,820	<b>4.91</b>

Column (1) : from Exhibit 10 Column (10)  
 Column (2) : from Exhibit 2, Column (10)  
 Column (3) : Trend Indices appropriate for Workers Compensation - General Government (In  
 Column (4) : from Retention Analysis  
 Column (5) : Column (2) x Column (3) x Column (4)  
 Column (6) : supplied by Cook County, Illinois  
 Column (7) : Annual Exposure Trend  
 Column (8) : Column (6) x Column (7)  
 Column (9) : Column (5) / Column (8)

Renewal Projections (Losses and Claims developed to Ultimate)					
(10)	(11)	(12)	(13)	(14)	(15)
Policy Period Inception	Retention	Payroll (in 00s)	Claim Count	Loss Rate	Loss Amount
1-Dec-23	Unlimited	12,231,964	1,335	4.91	60,100,000
1-Dec-24	Unlimited	12,629,995	1,335	4.97	62,800,000
1-Dec-25	Unlimited	13,008,895	1,335	5.04	65,600,000

Columns (11) - (15) : Projections. These are preliminary and should be monitored with actuarial updates.



**Cook County, Illinois  
Workers Compensation - General Government (Indemnity)**

Average : \$16,169    sigma = 2.192  
CV : 11.00        mu = 7.289

**Limitation of Incurred LDF's for Workers Compensation - General Government (Indemnity)**

Evaluation	(1) Incurred LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.005	1.000	9,500,000	4.005	1.813	1.000	0.965	15,899	9,548,792	4.007	1.815	1.000	0.965	15,900	1.005
264	1.007	1.000	9,500,000	4.005	1.813	1.000	0.965	15,899	9,567,890	4.008	1.816	1.000	0.965	15,901	1.007
252	1.009	1.000	9,500,000	4.005	1.813	1.000	0.965	15,899	9,587,026	4.009	1.817	1.000	0.965	15,902	1.009
240	1.011	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,011,178,932	6.134	3.943	1.000	1.000	16,168	1.011
228	1.014	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,014,212,468	6.136	3.944	1.000	1.000	16,168	1.014
216	1.017	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,017,255,106	6.137	3.945	1.000	1.000	16,168	1.017
204	1.020	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,020,306,871	6.139	3.947	1.000	1.000	16,168	1.020
192	1.023	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,023,367,792	6.140	3.948	1.000	1.000	16,168	1.023
180	1.026	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,026,437,895	6.141	3.949	1.000	1.000	16,168	1.026
168	1.030	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,029,517,209	6.143	3.951	1.000	1.000	16,168	1.030
156	1.033	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,032,605,760	6.144	3.952	1.000	1.000	16,168	1.033
144	1.038	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,037,768,789	6.146	3.954	1.000	1.000	16,168	1.038
132	1.047	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,047,108,708	6.150	3.959	1.000	1.000	16,168	1.047
120	1.059	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,059,097,406	6.156	3.964	1.000	1.000	16,168	1.059
108	1.075	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,075,487,767	6.163	3.971	1.000	1.000	16,168	1.075
96	1.092	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,091,620,084	6.169	3.978	1.000	1.000	16,168	1.092
84	1.119	1.001	999,999,999	6.129	3.938	1.000	1.000	16,168	1,117,792,793	6.180	3.988	1.000	1.000	16,168	1.119
72	1.158	1.002	999,999,999	6.129	3.938	1.000	1.000	16,168	1,155,759,781	6.195	4.004	1.000	1.000	16,168	1.158
60	1.224	1.003	999,999,999	6.129	3.938	1.000	1.000	16,168	1,220,677,109	6.220	4.029	1.000	1.000	16,169	1.224
48	1.315	1.004	999,999,999	6.129	3.938	1.000	1.000	16,168	1,309,947,820	6.253	4.061	1.000	1.000	16,169	1.315
36	1.451	1.007	999,999,999	6.129	3.938	1.000	1.000	16,168	1,440,611,698	6.296	4.104	1.000	1.000	16,169	1.451
24	1.755	1.013	999,999,999	6.129	3.938	1.000	1.000	16,168	1,732,980,022	6.380	4.188	1.000	1.000	16,169	1.755
12	2.816	1.033	999,999,999	6.129	3.938	1.000	1.000	16,168	2,725,506,093	6.587	4.395	1.000	1.000	16,169	2.816

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve



**Cook County, Illinois  
Workers Compensation - General Government (Indemnity)**

Average : \$16,169      sigma = 2.192  
CV : 11.00              mu = 7.289

**Limitation of Paid LDF's for Workers Compensation - General Government (Indemnity)**

Evaluation	(1) Paid LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.013	1.000	9,500,000	4.005	1.813	1.000	0.965	15,899	9,622,856	4.011	1.819	1.000	0.966	15,903	1.013
264	1.015	1.000	9,500,000	4.005	1.813	1.000	0.965	15,899	9,642,102	4.012	1.820	1.000	0.966	15,903	1.015
252	1.017	1.000	9,500,000	4.005	1.813	1.000	0.965	15,899	9,661,386	4.013	1.821	1.000	0.966	15,904	1.017
240	1.020	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,020,038,932	6.138	3.947	1.000	1.000	16,168	1.020
228	1.024	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,024,119,088	6.140	3.948	1.000	1.000	16,168	1.024
216	1.028	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,028,215,564	6.142	3.950	1.000	1.000	16,168	1.028
204	1.032	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,032,328,426	6.144	3.952	1.000	1.000	16,168	1.032
192	1.042	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,041,639,463	6.148	3.956	1.000	1.000	16,168	1.042
180	1.052	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,052,055,858	6.153	3.961	1.000	1.000	16,168	1.052
168	1.064	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,063,801,036	6.158	3.966	1.000	1.000	16,168	1.064
156	1.080	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,079,758,051	6.164	3.973	1.000	1.000	16,168	1.080
144	1.096	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,095,808,780	6.171	3.979	1.000	1.000	16,168	1.096
132	1.111	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,111,150,103	6.177	3.986	1.000	1.000	16,168	1.111
120	1.128	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,127,817,355	6.184	3.992	1.000	1.000	16,168	1.128
108	1.160	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,160,466,233	6.197	4.005	1.000	1.000	16,168	1.160
96	1.207	1.000	999,999,999	6.129	3.938	1.000	1.000	16,168	1,206,884,882	6.215	4.023	1.000	1.000	16,169	1.207
84	1.263	1.001	999,999,999	6.129	3.938	1.000	1.000	16,168	1,261,245,927	6.235	4.043	1.000	1.000	16,169	1.263
72	1.370	1.002	999,999,999	6.129	3.938	1.000	1.000	16,168	1,367,084,746	6.272	4.080	1.000	1.000	16,169	1.370
60	1.515	1.003	999,999,999	6.129	3.938	1.000	1.000	16,168	1,510,175,081	6.317	4.126	1.000	1.000	16,169	1.515
48	1.705	1.004	999,999,999	6.129	3.938	1.000	1.000	16,168	1,698,545,409	6.371	4.179	1.000	1.000	16,169	1.705
36	2.085	1.007	999,999,999	6.129	3.938	1.000	1.000	16,168	2,070,690,098	6.461	4.270	1.000	1.000	16,169	2.085
24	2.841	1.013	999,999,999	6.129	3.938	1.000	1.000	16,168	2,804,947,593	6.600	4.408	1.000	1.000	16,169	2.841
12	6.603	1.033	999,999,999	6.129	3.938	1.000	1.000	16,168	6,391,758,243	6.976	4.784	1.000	1.000	16,169	6.603

**Column (1) : from Exhibit 9**  
**Column (2) : Unlimited claim count development factors**  
**Column (3) : Individual loss limitation**  
**Columns (4) through (8) : Factors and quantities used in fitting distribution curve**

**Column (9) : (1)/(2)x(3)**  
**Columns (10) through (14) : Factors and quantities used in fitting distribution curve**  
**Column (15) : Limited loss development factors based on fitted distribution curve**



**Cook County, Illinois  
Workers Compensation - General Government (Indemnity)  
Projected Losses Paid 12/1/2023 to 11/30/2024**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/23	Percent Losses Paid	Months of Development 11/30/24	Percent Losses Paid	Estimated Outstanding Losses 11/30/23	Projected Losses Paid	Estimated Outstanding Losses 11/30/24	Discount Factor	Discounted Outstanding Losses 11/30/24
Prior	276	98.7%	288	99.1%	\$ 3,419,314	\$ 846,765	\$ 2,572,548	0.867	\$ 2,229,300
1-Dec-01	264	98.5%	276	98.7%	\$ -	\$ -	\$ -	0.866	\$ -
1-Dec-02	252	98.3%	264	98.6%	\$ 710,772	\$ 83,702	\$ 627,070	0.849	\$ 532,450
1-Dec-03	240	98.0%	252	98.3%	\$ 1,315,259	\$ 196,906	\$ 1,118,353	0.832	\$ 930,698
1-Dec-04	228	97.6%	240	98.0%	\$ 589,633	\$ 97,787	\$ 491,846	0.824	\$ 405,156
1-Dec-05	216	97.3%	228	97.6%	\$ 476,748	\$ 67,587	\$ 409,162	0.820	\$ 335,482
1-Dec-06	204	96.9%	216	97.3%	\$ 2,189,427	\$ 270,898	\$ 1,918,529	0.812	\$ 1,558,254
1-Dec-07	192	96.0%	204	96.9%	\$ 291,754	\$ 63,196	\$ 228,558	0.802	\$ 183,361
1-Dec-08	180	95.1%	192	96.0%	\$ 561,794	\$ 107,922	\$ 453,872	0.813	\$ 369,202
1-Dec-09	168	94.0%	180	95.1%	\$ 940,731	\$ 164,611	\$ 776,120	0.817	\$ 634,049
1-Dec-10	156	92.6%	168	94.0%	\$ 2,683,205	\$ 504,628	\$ 2,178,577	0.816	\$ 1,778,347
1-Dec-11	144	91.3%	156	92.6%	\$ 682,726	\$ 105,928	\$ 576,798	0.818	\$ 472,020
1-Dec-12	132	90.0%	144	91.3%	\$ 2,082,065	\$ 262,249	\$ 1,819,816	0.814	\$ 1,480,465
1-Dec-13	120	88.7%	132	90.0%	\$ 2,419,018	\$ 283,885	\$ 2,135,133	0.804	\$ 1,716,207
1-Dec-14	108	86.2%	120	88.7%	\$ 2,956,680	\$ 533,399	\$ 2,423,281	0.794	\$ 1,923,737
1-Dec-15	96	82.9%	108	86.2%	\$ 4,975,318	\$ 961,954	\$ 4,013,364	0.799	\$ 3,207,633
1-Dec-16	84	79.2%	96	82.9%	\$ 9,112,976	\$ 1,599,944	\$ 7,513,032	0.806	\$ 6,057,162
1-Dec-17	72	73.0%	84	79.2%	\$ 11,890,949	\$ 2,733,051	\$ 9,157,897	0.808	\$ 7,399,005
1-Dec-18	60	66.0%	72	73.0%	\$ 11,618,760	\$ 2,387,675	\$ 9,231,085	0.820	\$ 7,573,364
1-Dec-19	48	58.6%	60	66.0%	\$ 26,294,259	\$ 4,691,855	\$ 21,602,404	0.825	\$ 17,820,271
1-Dec-20	36	48.0%	48	58.6%	\$ 27,093,714	\$ 5,558,824	\$ 21,534,890	0.823	\$ 17,728,255
1-Dec-21	24	35.2%	36	48.0%	\$ 43,071,780	\$ 8,482,753	\$ 34,589,027	0.827	\$ 28,605,042
1-Dec-22	12	15.1%	24	35.2%	\$ 63,011,918	\$ 14,893,625	\$ 48,118,293	0.828	\$ 39,857,541
1-Dec-23	0	0.0%	12	15.1%	\$ 60,100,000	\$ 9,102,043	\$ 50,997,957	0.837	\$ 42,667,764
Total					\$ 278,488,800	\$ 54,001,187	\$ 224,487,613		\$ 185,464,765

Column (3): 1 / Exhibit 9 Column (3)  
 Column (5): 1 / Rollforward Exhibit Column (54)  
 Column (6): From Executive Summary  
 Column (7): Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)



**Cook County, Illinois  
Workers Compensation - General Government (Indemnity)  
Projected Losses Paid 12/1/2024 to 11/30/2025**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/24	Percent Losses Paid	Months of Development 11/30/25	Percent Losses Paid	Estimated Outstanding Losses 11/30/24	Projected Losses Paid	Estimated Outstanding Losses 11/30/25	Discount Factor	Discounted Outstanding Losses 11/30/25
Prior	288	99.1%	300	99.3%	\$ 2,572,548	\$ 638,577	\$ 1,933,972	0.867	\$ 1,676,405
1-Dec-01	276	98.7%	288	99.1%	\$ -	\$ -	\$ -	0.867	\$ -
1-Dec-02	264	98.6%	276	98.7%	\$ 627,070	\$ 83,863	\$ 543,207	0.866	\$ 470,580
1-Dec-03	252	98.3%	264	98.5%	\$ 1,118,353	\$ 131,664	\$ 986,689	0.849	\$ 837,805
1-Dec-04	240	98.0%	252	98.3%	\$ 491,846	\$ 73,634	\$ 418,213	0.832	\$ 348,038
1-Dec-05	228	97.6%	240	98.0%	\$ 409,162	\$ 67,857	\$ 341,305	0.824	\$ 281,148
1-Dec-06	216	97.3%	228	97.6%	\$ 1,918,529	\$ 271,982	\$ 1,646,547	0.820	\$ 1,350,046
1-Dec-07	204	96.9%	216	97.3%	\$ 228,558	\$ 28,280	\$ 200,278	0.812	\$ 162,669
1-Dec-08	192	96.0%	204	96.9%	\$ 453,872	\$ 98,313	\$ 355,560	0.802	\$ 285,249
1-Dec-09	180	95.1%	192	96.0%	\$ 776,120	\$ 149,094	\$ 627,026	0.813	\$ 510,054
1-Dec-10	168	94.0%	180	95.1%	\$ 2,178,577	\$ 381,212	\$ 1,797,365	0.817	\$ 1,468,352
1-Dec-11	156	92.6%	168	94.0%	\$ 576,798	\$ 108,478	\$ 468,320	0.816	\$ 382,284
1-Dec-12	144	91.3%	156	92.6%	\$ 1,819,816	\$ 282,353	\$ 1,537,464	0.818	\$ 1,258,178
1-Dec-13	132	90.0%	144	91.3%	\$ 2,135,133	\$ 268,933	\$ 1,866,200	0.814	\$ 1,518,199
1-Dec-14	120	88.7%	132	90.0%	\$ 2,423,281	\$ 284,385	\$ 2,138,896	0.804	\$ 1,719,232
1-Dec-15	108	86.2%	120	88.7%	\$ 4,013,364	\$ 724,029	\$ 3,289,335	0.794	\$ 2,611,259
1-Dec-16	96	82.9%	108	86.2%	\$ 7,513,032	\$ 1,452,609	\$ 6,060,423	0.799	\$ 4,843,721
1-Dec-17	84	79.2%	96	82.9%	\$ 9,157,897	\$ 1,607,831	\$ 7,550,066	0.806	\$ 6,087,019
1-Dec-18	72	73.0%	84	79.2%	\$ 9,231,085	\$ 2,121,700	\$ 7,109,385	0.808	\$ 5,743,936
1-Dec-19	60	66.0%	72	73.0%	\$ 21,602,404	\$ 4,439,331	\$ 17,163,073	0.820	\$ 14,080,923
1-Dec-20	48	58.6%	60	66.0%	\$ 21,534,890	\$ 3,842,610	\$ 17,692,280	0.825	\$ 14,594,729
1-Dec-21	36	48.0%	48	58.6%	\$ 34,589,027	\$ 7,096,640	\$ 27,492,388	0.823	\$ 22,632,670
1-Dec-22	24	35.2%	36	48.0%	\$ 48,118,293	\$ 9,476,636	\$ 38,641,657	0.827	\$ 31,956,556
1-Dec-23	12	15.1%	24	35.2%	\$ 50,997,957	\$ 12,053,981	\$ 38,943,976	0.828	\$ 32,258,233
1-Dec-24	0	0.0%	12	15.1%	\$ 62,800,000	\$ 9,510,954	\$ 53,289,046	0.837	\$ 44,584,619
<b>Total</b>					<b>\$ 287,287,613</b>	<b>\$ 55,194,944</b>	<b>\$ 232,092,669</b>		<b>\$ 191,661,904</b>

Column (3): 1 / Rollforward Exhibit Column (54)  
 Column (5): 1 / Rollforward Exhibit 2 Column (54)  
 Column (6): Rollforward Exhibit Column (21) & Projection  
 Column (7): Rollforward Exhibit 2 Column (31) - Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)



**Cook County, Illinois  
Workers Compensation - General Government (Indemnity)  
Projected Losses Paid 12/1/2025 to 11/30/2026**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/25	Percent Losses Paid	Months of Development 11/30/26	Percent Losses Paid	Estimated Outstanding Losses 11/30/25	Projected Losses Paid	Estimated Outstanding Losses 11/30/26	Discount Factor	Discounted Outstanding Losses 11/30/26
Prior	300	99.3%	312	99.5%	\$ 1,933,972	\$ 480,917	\$ 1,453,055	0.867	\$ 1,259,887
1-Dec-01	288	99.1%	300	99.3%	\$ -	\$ -	\$ -	0.867	\$ -
1-Dec-02	276	98.7%	288	99.1%	\$ 543,207	\$ 134,521	\$ 408,686	0.867	\$ 354,156
1-Dec-03	264	98.5%	276	98.7%	\$ 986,689	\$ 131,928	\$ 854,761	0.866	\$ 740,480
1-Dec-04	252	98.3%	264	98.5%	\$ 418,213	\$ 49,236	\$ 368,976	0.849	\$ 313,300
1-Dec-05	240	98.0%	252	98.3%	\$ 341,305	\$ 51,096	\$ 290,208	0.832	\$ 241,513
1-Dec-06	228	97.6%	240	98.0%	\$ 1,646,547	\$ 273,070	\$ 1,373,477	0.824	\$ 1,131,396
1-Dec-07	216	97.3%	228	97.6%	\$ 200,278	\$ 28,393	\$ 171,886	0.820	\$ 140,933
1-Dec-08	204	96.9%	216	97.3%	\$ 355,560	\$ 43,994	\$ 311,566	0.812	\$ 253,058
1-Dec-09	192	96.0%	204	96.9%	\$ 627,026	\$ 135,819	\$ 491,207	0.802	\$ 394,072
1-Dec-10	180	95.1%	192	96.0%	\$ 1,797,365	\$ 345,277	\$ 1,452,088	0.813	\$ 1,181,200
1-Dec-11	168	94.0%	180	95.1%	\$ 468,320	\$ 60,382	\$ 407,938	0.817	\$ 333,264
1-Dec-12	156	92.6%	168	94.0%	\$ 1,537,464	\$ 289,150	\$ 1,248,314	0.816	\$ 1,018,984
1-Dec-13	144	91.3%	156	92.6%	\$ 1,866,200	\$ 289,549	\$ 1,576,651	0.818	\$ 1,290,246
1-Dec-14	132	90.0%	144	91.3%	\$ 2,138,896	\$ 269,407	\$ 1,869,489	0.814	\$ 1,520,874
1-Dec-15	120	88.7%	132	90.0%	\$ 3,289,335	\$ 386,021	\$ 2,903,313	0.804	\$ 2,333,666
1-Dec-16	108	86.2%	120	88.7%	\$ 6,060,423	\$ 1,093,328	\$ 4,967,095	0.794	\$ 3,943,160
1-Dec-17	96	82.9%	108	86.2%	\$ 7,550,066	\$ 1,459,769	\$ 6,090,297	0.799	\$ 4,867,598
1-Dec-18	84	79.2%	96	82.9%	\$ 7,109,385	\$ 1,248,178	\$ 5,861,207	0.806	\$ 4,725,426
1-Dec-19	72	73.0%	84	79.2%	\$ 17,163,073	\$ 3,944,812	\$ 13,218,261	0.808	\$ 10,679,523
1-Dec-20	60	66.0%	72	73.0%	\$ 17,692,280	\$ 3,635,794	\$ 14,056,486	0.820	\$ 11,532,218
1-Dec-21	48	58.6%	60	66.0%	\$ 27,492,388	\$ 4,905,645	\$ 22,586,743	0.825	\$ 18,632,273
1-Dec-22	36	48.0%	48	58.6%	\$ 38,641,657	\$ 7,928,119	\$ 30,713,538	0.823	\$ 25,284,431
1-Dec-23	24	35.2%	36	48.0%	\$ 38,943,976	\$ 7,669,804	\$ 31,274,172	0.827	\$ 25,863,664
1-Dec-24	12	15.1%	24	35.2%	\$ 53,289,046	\$ 12,595,507	\$ 40,693,539	0.828	\$ 33,707,439
1-Dec-25	0	0.0%	12	15.1%	\$ 65,600,000	\$ 9,935,009	\$ 55,664,991	0.837	\$ 46,572,468
Total					\$ 297,692,669	\$ 57,384,724	\$ 240,307,945		\$ 198,315,230

Column (3): 1 / Rollforward Exhibit 2 Column (54)

Column (5): 1 / Rollforward Exhibit 3 Column (54)

Column (6): Rollforward Exhibit 2 Column (21) & Projection

Column (7): Rollforward Exhibit 3 Column (31) - Rollforward Exhibit 2 Column (31)

Column (8): Column (6) - Column (7)

Column (9): Based on Column (3) and 4.48% Interest Rate

Column (10): Column (8) x Column (9)



**Cook County, Illinois**  
**Workers Compensation - General Government (Indemnity)**  
**Large Claims**

All Claims greater than or equal to \$1,000,000

(1)	(2)	(3)	(4)	(5)
<u>Policy Period</u>	<u>Loss Date</u>	<u>Incurred Loss</u>	<u>Paid Loss</u>	<u>Case Reserves</u>
Prior	2/28/1995	1,826,561	894,025	932,536
Prior	8/7/1998	1,534,333	827,505	706,829
12/1/2002	6/23/2003	1,222,780	571,950	650,830
12/1/2003	12/8/2003	1,111,004	668,587	442,418
12/1/2003	4/14/2004	1,091,486	452,025	639,462
12/1/2005	5/7/2006	1,145,742	755,623	390,119
12/1/2006	2/6/2007	2,441,118	1,022,548	1,418,570
12/1/2006	3/19/2007	1,088,493	1,088,493	-
12/1/2006	8/1/2007	1,531,623	1,531,623	-
12/1/2007	7/1/2008	2,777,098	2,777,098	-
12/1/2007	7/1/2008	2,380,852	2,380,852	-
12/1/2007	8/1/2008	1,219,594	1,219,594	-
12/1/2008	2/12/2009	1,135,930	837,529	298,401
12/1/2010	6/2/2011	1,129,159	673,735	455,424
12/1/2010	11/17/2011	1,229,582	38,760	1,190,822
12/1/2012	1/18/2013	1,443,371	534,330	909,041
12/1/2015	1/26/2016	1,183,850	522,671	661,179
12/1/2016	1/11/2017	1,096,976	486,602	610,374
12/1/2016	6/7/2017	1,310,598	447,661	862,937
12/1/2017	1/9/2018	1,010,594	251,182	759,412
12/1/2020	9/22/2021	1,047,894	173,938	873,956

Cook County, Illinois  
 Workers' Compensation - General Government  
 Occurrence  
 Indemnity  
 Incurred Development Triangle  
 Data Unlimited (000s)  
 As of 11/30/2023

		Age in Months																										
		12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276				
Prior																												
12/1/2001						6,778	7,267	7,901	7,230	7,363	7,326	6,799	7,726	8,750	8,752	89,788	82,318	82,554	83,226	83,533	88,021	88,112	89,196	89,320				
12/1/2002					8,233	9,063	9,454	7,060	7,424	7,333	7,596	7,634	8,262	8,071	8,504	8,514	8,647	8,423	8,423	8,423	8,423	9,024	8,714	8,714	8,714	8,714		
12/1/2003			7,149		7,596	8,160	6,898	7,363	7,353	7,823	7,825	8,474	8,502	8,831	8,777	8,595	8,888	9,732	9,427	9,880	9,883							
12/1/2004		5,944	7,079	7,733	6,717	6,876	6,929	7,199	7,449	7,705	8,045	8,609	8,649	8,994	9,262	9,870	9,583	9,584	9,721									
12/1/2005	3,325	5,112	7,350	7,002	7,473	7,347	7,562	7,662	8,354	8,374	8,795	8,837	8,888	9,149	9,637	9,638	9,640											
12/1/2006	3,898	6,477	6,611	7,633	8,097	8,940	9,513	10,647	10,794	11,739	11,968	11,890	11,922	11,969	11,998	14,267	14,281											
12/1/2007	3,366	5,060	6,631	6,733	7,983	8,863	11,257	11,696	16,602	16,997	17,468	17,570	17,934	18,360	18,635	18,865												
12/1/2008	3,421	6,040	6,393	7,861	9,131	12,857	13,048	13,735	13,907	14,010	14,495	14,810	14,810	14,800	14,806													
12/1/2009	3,954	5,346	7,028	7,962	11,691	12,760	13,215	13,262	13,419	13,743	14,030	14,119	14,489	14,164														
12/1/2010	3,335	4,763	5,658	9,128	9,585	10,509	11,018	11,328	11,777	12,023	12,241	13,295	13,247															
12/1/2011	2,894	5,892	9,845	11,328	12,770	13,071	13,266	13,453	14,275	14,252	13,545	13,375																
12/1/2012	2,850	7,583	8,606	9,982	10,602	11,158	12,548	12,640	12,589	12,961	13,164																	
12/1/2013	5,774	8,444	11,564	12,220	12,484	14,678	15,572	16,308	16,561	16,398																		
12/1/2014	5,499	11,396	14,181	16,046	17,382	17,598	18,054	18,343	18,249																			
12/1/2015	9,516	19,675	21,634	24,218	26,296	25,861	26,659	27,495																				
12/1/2016	14,585	19,624	23,318	25,835	27,320	29,071	30,089																					
12/1/2017	16,531	23,379	28,467	29,205	31,015	33,308																						
12/1/2018	19,378	23,229	25,444	27,196	29,510																							
12/1/2019	25,253	33,920	41,039	41,947																								
12/1/2020	21,014	29,602	33,761																									
12/1/2021	29,227	35,594																										
12/1/2022	32,900																											

		Age-to-Age																										
		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	240-252	252-264	264-276	276-Ult				
Prior													0.996	1.091	0.965	0.917	1.003	1.008	1.004	1.054	1.001	1.012	1.001					
12/1/2001					1.072	1.087	0.915	1.018	0.995	1.051	1.003	1.133	1.000	1.040	0.996	1.000	1.003	0.959	1.000	1.000	1.000	1.000	1.000	1.001	1.001			
12/1/2002				1.101	1.043	0.747	1.052	0.988	1.036	1.005	1.082	0.977	1.054	1.001	1.016	0.974	1.000	1.000	1.000	1.000	1.071							
12/1/2003			1.191	1.062	1.074	0.845	1.067	0.999	1.064	1.000	1.063	1.033	1.039	1.000	0.979	1.034	1.095	0.969	1.048	1.000								
12/1/2004			1.438	0.953	0.869	1.024	1.008	1.039	1.035	1.034	1.044	1.070	1.005	1.040	1.030	1.066	0.971	1.000	1.014									
12/1/2005	1.537	1.438	0.953	0.869	1.024	1.008	1.039	1.035	1.034	1.044	1.070	1.005	1.040	1.030	1.066	0.971	1.000	1.014										
12/1/2006	1.662	1.021	1.155	1.061	1.104	1.064	1.119	1.014	1.088	1.019	0.993	1.003	1.004	1.002	1.189	1.001												
12/1/2007	1.503	1.310	1.015	1.186	1.110	1.270	1.039	1.419	1.024	1.028	1.006	1.021	1.024	1.015	1.012													
12/1/2008	1.766	1.058	1.230	1.162	1.408	1.015	1.053	1.013	1.007	1.035	1.022	1.000	0.999	1.000														
12/1/2009	1.352	1.315	1.133	1.468	1.091	1.036	1.004	1.012	1.024	1.021	1.006	1.026	0.978															
12/1/2010	1.428	1.188	1.613	1.050	1.096	1.046	1.028	1.040	1.021	1.018	1.068	0.996																
12/1/2011	2.036	1.671	1.151	1.127	1.024	1.015	1.014	1.061	0.998	0.950	0.987																	
12/1/2012	2.661	1.135	1.160	1.062	1.053	1.125	1.007	0.996	1.030	1.016																		
12/1/2013	1.462	1.369	1.057	1.022	1.176	1.061	1.047	1.015	0.990																			
12/1/2014	2.072	1.244	1.132	1.063	1.012	1.028	1.016	0.995																				
12/1/2015	2.068	1.100	1.119	1.096	0.983	1.031	1.031																					
12/1/2016	1.345	1.188	1.108	1.057	1.064	1.035																						
12/1/2017	1.414	1.218	1.026	1.062	1.074																							
12/1/2018	1.199	1.095	1.069	1.085																								
12/1/2019	1.343	1.210	1.022																									
12/1/2020	1.418	1.133																										
12/1/2021	1.218																											
12/1/2022																												

		Averages																										
		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	240-252	252-264	264-276	276-Ult				
All Year Average		1.617	1.228	1.123	1.095	1.068	1.041	1.025	1.054	1.019	1.027	1.024	1.018	1.021	1.010	1.029	1.006	0.997	1.005	1.013	1.024	1.006	1.001	1.001	1.001			
3 Yr Average		1.326	1.146	1.039	1.068	1.041	1.031	1.032	1.002	1.006	0.995	1.027	1.008	1.000	1.006	1.067	0.991	1.000	1.021	1.000	1.024	NA	NA	NA	NA			
5 Yr Average		1.318	1.169	1.069	1.075	1.062	1.055	1.023	1.021	1.013	1.008	1.021	1.009	1.007	1.020	1.060	1.008	0.994	1.005	NA	NA	NA	NA	NA				
3 Yr Wtd Average		1.316	1.153	1.036	1.068	1.043	1.031	1.031	1.002	1.004	0.993	1.024	1.008	1.002	1.007	1.062	0.992	0.989	1.022	1.000	1.007	NA	NA	NA	NA			
5 Yr Wtd Average		1.310	1.170	1.061	1.074	1.053	1.046	1.025	1.019	1.011	1.007	1.019	1.010	1.006	1.017	1.059	1.007	0.994	1.004	NA	NA	NA	NA	NA				
Avg X HI-Lo (3yr X 2)		1.343	1.133	1.026	1.062	1.064	1.031	1.031	0.996	0.998	1.016	1.006	1.000	0.999	1.002	1.012	1.000	1.000	1.014	1.000	1.001	NA	NA	NA	NA			
Avg X HI-Lo (5yr X 2)		1.325	1.177	1.068	1.077	1.050	1.042	1.020	1.017	1.014	1.018	1.011	1.008	1.009	1.016	1.037	0.992	1.000	1.006	NA	NA	NA	NA	NA				
Prior		1.625	1.210	1.114	1.074	1.057	1.035	1.025	1.015	1.015	1.009	1.009	1.005	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.002	1.002	1.000	1.005			
Industry		1.543	1.160	1.058	1.028	1.006	1.007	1.003	1.002	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.001	0.999										



Cook County, Illinois  
 Workers' Compensation - General Government  
 Occurrence  
 Indemnity  
 Paid Development Triangle  
 Data Unlimited (000s)  
 As of 11/30/2023

		Age in Months																									
Policy Year		12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276			
	Prior																										
12/1/2001						5,012	5,409	6,145	6,866	7,018	7,218	7,373	7,426	7,500	7,532	7,532	79,014	79,944	80,733	81,363	81,807	86,112	86,305	86,487	86,949		
12/1/2002					4,995	5,562	5,948	6,768	6,991	7,316	7,534	7,582	7,611	7,682	7,616	8,248	8,248	8,274	8,281	8,308	8,334	8,364	8,364				
12/1/2003				3,755	4,354	5,205	6,500	6,855	7,022	7,164	7,248	7,332	7,406	8,000	8,034	8,192	8,249	8,621	8,656	8,722	8,755						
12/1/2004			2,828	3,565	4,391	5,913	6,186	6,560	6,850	7,111	7,386	7,443	8,065	8,352	8,471	8,592	8,723	9,139	9,167	9,196							
12/1/2005	1,453	2,780	4,351	6,140	6,770	7,111	7,396	7,536	7,952	8,103	8,503	8,683	8,803	9,073	9,117	9,162	9,207	9,250									
12/1/2006	1,811	3,799	5,627	6,820	7,908	8,615	9,131	9,583	9,724	11,075	11,225	11,460	11,636	11,791	11,944	12,387	12,499										
12/1/2007	1,544	3,529	5,382	6,535	7,464	8,455	9,820	10,401	15,890	16,466	16,699	17,029	17,413	17,897	18,176	18,778											
12/1/2008	1,829	4,111	5,863	7,314	8,708	9,995	11,196	12,384	13,060	13,438	14,001	14,150	14,209	14,453	14,508												
12/1/2009	2,059	4,695	6,392	7,658	8,838	9,734	11,256	11,807	12,225	12,689	12,802	13,139	13,399	13,685													
12/1/2010	2,183	4,158	5,415	6,697	7,719	9,220	9,737	10,089	10,722	10,812	10,932	11,039	11,149														
12/1/2011	1,861	3,935	5,816	7,160	9,913	11,006	12,024	12,693	13,033	13,110	13,247	13,268															
12/1/2012	1,527	3,443	5,292	7,744	8,595	9,220	9,861	10,330	10,686	10,995	11,472																
12/1/2013	2,329	4,358	7,831	9,470	10,455	11,814	13,017	13,567	14,156	14,683																	
12/1/2014	2,265	7,515	10,310	12,083	13,574	15,105	15,898	16,207	16,727																		
12/1/2015	4,540	10,919	14,827	17,988	20,320	21,813	22,640	24,584																			
12/1/2016	4,906	11,598	15,522	19,057	21,328	22,634	24,248																				
12/1/2017	5,345	12,360	16,989	21,278	23,858	25,706																					
12/1/2018	5,271	12,462	16,584	20,693	23,503																						
12/1/2019	6,826	16,152	21,485	26,242																							
12/1/2020	6,546	13,966	18,944																								
12/1/2021	7,117	13,940																									
12/1/2022	5,989																										

		Age-to-Age																									
Policy Year		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	240-252	252-264	264-276	276-Ult			
	Prior																										
12/1/2001						1,079	1,136	1,117	1,022	1,029	1,021	1,007	1,011	1,005	1,085	1,019	1,004	1,004	1,036	1,000	1,000	1,000	1,000				
12/1/2002					1,113	1,069	1,138	1,033	1,046	1,030	1,006	1,004	1,009	1,063	1,006	1,004	1,003	1,001	1,003	1,003	1,004						
12/1/2003				1,261	1,231	1,347	1,046	1,060	1,044	1,038	1,034	1,012	1,010	1,080	1,004	1,020	1,007	1,045	1,004	1,008	1,004						
12/1/2004			1,261	1,231	1,347	1,046	1,060	1,044	1,038	1,034	1,012	1,010	1,084	1,036	1,014	1,014	1,015	1,048	1,003	1,003							
12/1/2005	1,913	1,565	1,411	1,103	1,050	1,040	1,019	1,055	1,019	1,049	1,021	1,014	1,031	1,005	1,005	1,005	1,005	1,005									
12/1/2006	2,088	1,481	1,212	1,160	1,089	1,060	1,049	1,015	1,139	1,014	1,021	1,015	1,013	1,013	1,037	1,009											
12/1/2007	2,287	1,525	1,214	1,142	1,133	1,161	1,059	1,528	1,036	1,014	1,020	1,023	1,028	1,016	1,033												
12/1/2008	2,248	1,426	1,248	1,190	1,148	1,120	1,106	1,055	1,029	1,042	1,011	1,004	1,017	1,004													
12/1/2009	2,280	1,361	1,198	1,154	1,101	1,156	1,049	1,035	1,038	1,009	1,026	1,020	1,021														
12/1/2010	1,905	1,302	1,237	1,153	1,195	1,056	1,037	1,062	1,008	1,011	1,010	1,010	1,010														
12/1/2011	2,114	1,478	1,231	1,385	1,110	1,092	1,056	1,027	1,006	1,010	1,002																
12/1/2012	2,254	1,537	1,463	1,130	1,073	1,069	1,048	1,034	1,029	1,043																	
12/1/2013	1,871	1,797	1,209	1,104	1,130	1,102	1,042	1,043	1,037																		
12/1/2014	3,318	1,372	1,172	1,123	1,113	1,053	1,019	1,032																			
12/1/2015	2,405	1,358	1,213	1,130	1,073	1,038	1,086																				
12/1/2016	2,364	1,338	1,228	1,119	1,061	1,071																					
12/1/2017	2,312	1,375	1,252	1,121	1,077																						
12/1/2018	2,364	1,331	1,248	1,136																							
12/1/2019	2,366	1,330	1,221																								
12/1/2020	2,134	1,356																									
12/1/2021	1,959																										
12/1/2022																											

		Averages																									
		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	240-252	252-264	264-276	276-Ult			
All Year Average		2,247	1,423	1,244	1,164	1,106	1,088	1,053	1,072	1,034	1,020	1,020	1,022	1,020	1,019	1,017	1,018	1,004	1,011	1,015	1,002	1,001	1,005				
3 Yr Average		2,153	1,339	1,241	1,125	1,071	1,054	1,049	1,037	1,024	1,022	1,013	1,011	1,022	1,011	1,025	1,021	1,004	1,005	1,002	NA	NA	NA				
5 Yr Average		2,227	1,346	1,232	1,126	1,091	1,067	1,050	1,040	1,024	1,023	1,014	1,014	1,022	1,010	1,019	1,022	1,003	1,011	NA	NA	NA	NA				
3 Yr Wtd Average		2,150	1,339	1,239	1,126	1,071	1,054	1,054	1,037	1,024	1,021	1,013	1,011	1,023	1,011	1,028	1,019	1,004	1,005	1,002	1,002	NA	NA	NA			
5 Yr Wtd Average		2,214	1,345	1,232	1,126	1,084	1,063	1,054	1,039	1,024	1,023	1,014	1,015	1,022	1,011	1,023	1,021	1,003	1,008	NA	NA	NA	NA				
Avg X Hi-Lo (3yr X 2)		2,134	1,331	1,248	1,121	1,073	1,053	1,042	1,034	1,029	1,011	1,010	1,010	1,021	1,013	1,033	1,009	1,004	1,003	1,003	1,002	NA	NA	NA			
Avg X Hi-Lo (5yr X 2)		2,270	1,342	1,232	1,125	1,088	1,064	1,048	1,037	1,025	1,021	1,013	1,015	1,022	1,011	1,018	1,020	1,004	1,005	NA	NA	NA	NA				
Prior		3,349	1,378	1,223	1,124	1,110	1,089	1,048	1,040	1,025	1,015	1,014	1,015	1,012	1,011	1,010	1,005	1,004	1,004	1,004	1,003	1,001	1,001	1,001	1,012		
Industry		2,907	1,889	1,273	1,140	1,078	1,043	1,028	1,018	1,012	1,008	1,008	1,004	1,003	1,003	1,003	1,001	1,002	1,002	1,004	1,003	1,002	1,002	1,005			
Initial Selected		2,324	1,363	1,223	1,126	1,106	1,085	1,046	1,040	1,029	1,015	1,014															





**Cook County, Illinois  
Workers Compensation - General Government (Medical) Experience @ 11/30/23  
Losses Limited to Retentions**

Policy Period	Payroll (in 00s)	Retention	Reported Claims	Open Claims	Incurred	Paid	Case	Est IBNR	Total O/S	Ultimate	Ultimate Loss Rate
	(1)	(2)	(3)	(3a)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
							[(4)-(5)]		[(6)+(7)]	[(4)+(7)]	[(9)/(1)]

**Historical Experience**

Prior	-	Various	17,485	9	32,412,365	31,816,811	595,554	84,635	680,189	32,497,000	
1-Dec-01	7,524,575	9,500,000	1,161	-	4,041,536	4,041,536	-	-	-	4,041,536	0.54
1-Dec-02	7,790,984	9,500,000	1,223	2	4,231,301	4,146,967	84,333	20,700	105,033	4,252,000	0.55
1-Dec-03	8,101,821	Various	1,218	3	4,506,845	3,811,038	695,807	17,155	712,962	4,524,000	0.56
1-Dec-04	8,323,626	Unlimited	1,318	3	12,143,387	12,000,994	142,393	61,613	204,006	12,205,000	1.47
1-Dec-05	8,264,792	Unlimited	1,159	1	4,204,172	4,204,172	-	12,828	12,828	4,217,000	0.51
1-Dec-06	8,599,062	Unlimited	903	2	4,908,826	4,866,242	42,584	35,174	77,758	4,944,000	0.57
1-Dec-07	9,142,601	Unlimited	777	1	6,199,824	6,145,349	54,475	64,176	118,651	6,264,000	0.69
1-Dec-08	9,427,068	Unlimited	767	1	6,576,318	6,487,142	89,177	113,682	202,858	6,690,000	0.71
1-Dec-09	9,982,498	Unlimited	862	4	6,786,280	6,515,127	271,153	83,720	354,873	6,870,000	0.69
1-Dec-10	9,280,825	Unlimited	789	9	5,543,258	5,008,311	534,947	66,742	601,689	5,610,000	0.60
1-Dec-11	8,990,821	Unlimited	783	5	4,504,245	4,410,838	93,407	95,755	189,162	4,600,000	0.51
1-Dec-12	9,493,384	Unlimited	720	8	4,397,247	4,254,655	142,592	92,753	235,345	4,490,000	0.47
1-Dec-13	9,880,811	Unlimited	761	22	5,474,290	4,814,390	659,899	125,710	785,610	5,600,000	0.57
1-Dec-14	9,985,665	Unlimited	778	23	5,954,649	5,218,569	736,080	145,351	881,431	6,100,000	0.61
1-Dec-15	10,539,306	Unlimited	1,108	31	9,428,287	8,666,303	761,984	271,713	1,033,697	9,700,000	0.92
1-Dec-16	10,752,478	Unlimited	1,240	50	10,480,029	8,278,944	2,201,084	419,971	2,621,056	10,900,000	1.01
1-Dec-17	10,065,463	Unlimited	1,088	69	9,854,065	7,593,799	2,260,266	445,935	2,706,201	10,300,000	1.02
1-Dec-18	10,381,614	Unlimited	1,038	81	10,185,745	7,767,110	2,418,635	814,255	3,232,890	11,000,000	1.06
1-Dec-19	10,539,190	Unlimited	1,221	210	17,556,141	9,536,219	8,019,922	1,443,859	9,463,781	19,000,000	1.80
1-Dec-20	10,216,926	Unlimited	1,205	232	16,329,715	8,297,463	8,032,252	1,070,285	9,102,537	17,400,000	1.70
1-Dec-21	10,654,358	Unlimited	1,281	297	20,598,167	6,903,184	13,694,983	2,401,833	16,096,816	23,000,000	2.16
1-Dec-22	11,616,907	Unlimited	1,100	543	19,498,351	2,365,727	17,132,624	7,501,649	24,634,273	27,000,000	2.32
<b>Total</b>	<b>209,554,774</b>		<b>39,985</b>	<b>1,606</b>	<b>225,815,043</b>	<b>167,150,890</b>	<b>58,664,154</b>	<b>15,389,493</b>	<b>74,053,646</b>	<b>241,204,536</b>	<b>1.00</b>

**Full Policy Period Projections**

1-Dec-23	12,231,964	Unlimited								23,200,000	1.90
1-Dec-24	12,629,995	Unlimited								24,900,000	1.97



**Cook County, Illinois  
Workers Compensation - General Government (Medical)**

**Workers Compensation - General Government (Medical) Experience @ 11/30/23  
Summary of Various Reserving Methods  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Chain Ladder			Bornhuetter-Ferguson		Generalized Cape Cod		Freq/Sev	Selected Ultimate
	Incurred	Paid	Outstanding	Incurred	Paid	Incurred	Paid		
Prior	\$ 32,494,126	\$ 32,456,878	\$ 32,499,467	N/A	N/A	N/A	N/A	\$ 32,494,126	\$ 32,497,000
1-Dec-01	\$ 4,053,743	\$ 4,122,840	\$ 4,041,536	\$ 4,059,987	\$ 4,162,366	\$ 4,054,893	\$ 4,127,467	\$ 4,053,743	\$ 4,041,536
1-Dec-02	\$ 4,246,189	\$ 4,230,393	\$ 4,249,538	\$ 4,254,409	\$ 4,276,934	\$ 4,248,207	\$ 4,240,012	\$ 4,246,189	\$ 4,252,000
1-Dec-03	\$ 4,525,070	\$ 3,888,211	\$ 4,683,978	\$ 4,536,253	\$ 3,955,963	\$ 4,528,818	\$ 3,916,505	\$ 4,525,070	\$ 4,524,000
1-Dec-04	\$ 12,204,684	\$ 12,244,014	\$ 12,191,625	\$ 12,182,431	\$ 12,155,289	\$ 12,173,587	\$ 12,117,962	\$ 12,204,684	\$ 12,205,000
1-Dec-05	\$ 4,229,619	\$ 4,289,306	\$ 4,204,172	\$ 4,252,415	\$ 4,363,326	\$ 4,238,796	\$ 4,316,162	\$ 4,229,619	\$ 4,217,000
1-Dec-06	\$ 4,943,477	\$ 4,969,748	\$ 4,930,428	\$ 4,969,577	\$ 5,046,750	\$ 4,950,372	\$ 4,987,022	\$ 4,943,477	\$ 4,944,000
1-Dec-07	\$ 6,249,831	\$ 6,282,338	\$ 6,231,400	\$ 6,276,607	\$ 6,354,599	\$ 6,250,673	\$ 6,280,352	\$ 6,249,831	\$ 6,264,000
1-Dec-08	\$ 6,635,992	\$ 6,638,381	\$ 6,634,469	\$ 6,668,525	\$ 6,720,750	\$ 6,635,549	\$ 6,632,237	\$ 6,635,992	\$ 6,690,000
1-Dec-09	\$ 6,854,706	\$ 6,673,686	\$ 6,982,758	\$ 6,896,879	\$ 6,778,361	\$ 6,855,106	\$ 6,671,699	\$ 6,854,706	\$ 6,870,000
1-Dec-10	\$ 5,604,751	\$ 5,140,459	\$ 5,941,545	\$ 5,653,889	\$ 5,267,533	\$ 5,609,902	\$ 5,155,395	\$ 5,604,751	\$ 5,610,000
1-Dec-11	\$ 4,558,766	\$ 4,540,802	\$ 4,571,290	\$ 4,626,222	\$ 4,702,755	\$ 4,575,737	\$ 4,569,726	\$ 4,558,766	\$ 4,600,000
1-Dec-12	\$ 4,454,922	\$ 4,393,158	\$ 4,496,602	\$ 4,542,598	\$ 4,608,610	\$ 4,481,705	\$ 4,441,825	\$ 4,454,922	\$ 4,490,000
1-Dec-13	\$ 5,562,731	\$ 5,010,883	\$ 5,924,296	\$ 5,668,705	\$ 5,293,901	\$ 5,589,385	\$ 5,066,095	\$ 5,562,731	\$ 5,600,000
1-Dec-14	\$ 6,069,003	\$ 5,480,441	\$ 6,433,883	\$ 6,197,596	\$ 5,834,670	\$ 6,104,250	\$ 5,546,004	\$ 6,069,003	\$ 6,100,000
1-Dec-15	\$ 9,638,177	\$ 9,192,198	\$ 9,896,585	\$ 9,738,323	\$ 9,480,808	\$ 9,631,044	\$ 9,112,980	\$ 9,638,177	\$ 9,700,000
1-Dec-16	\$ 10,766,899	\$ 8,909,422	\$ 11,809,197	\$ 10,883,559	\$ 9,350,715	\$ 10,759,524	\$ 8,876,150	\$ 10,765,878	\$ 10,900,000
1-Dec-17	\$ 10,204,791	\$ 8,440,320	\$ 11,032,390	\$ 10,363,862	\$ 9,081,490	\$ 10,227,841	\$ 8,432,739	\$ 10,205,803	\$ 10,300,000
1-Dec-18	\$ 10,687,223	\$ 8,844,489	\$ 11,701,159	\$ 10,935,297	\$ 9,712,964	\$ 10,772,757	\$ 8,878,640	\$ 10,690,854	\$ 11,000,000
1-Dec-19	\$ 18,696,795	\$ 11,345,391	\$ 22,525,705	\$ 18,590,639	\$ 12,240,197	\$ 18,438,279	\$ 11,109,893	\$ 18,689,004	\$ 19,000,000
1-Dec-20	\$ 17,612,257	\$ 10,859,526	\$ 19,915,813	\$ 17,585,378	\$ 12,365,597	\$ 17,470,774	\$ 10,679,242	\$ 17,611,406	\$ 17,400,000
1-Dec-21	\$ 24,096,701	\$ 11,348,308	\$ 28,664,048	\$ 23,313,173	\$ 14,227,971	\$ 23,224,215	\$ 11,187,586	\$ 24,059,965	\$ 23,000,000
1-Dec-22	\$ 30,555,571	\$ 10,349,017	\$ 34,637,114	\$ 27,163,271	\$ 18,705,080	\$ 27,208,465	\$ 11,863,713	\$ 30,248,464	\$ 27,000,000
Total	\$ 244,946,025	\$ 189,650,209	\$ 264,198,999	\$ 209,359,594	\$ 174,686,629	\$ 208,029,881	\$ 158,209,405	\$ 244,597,161	\$ 241,204,536

Column (2) : from Exhibit 3, Column (5)  
 Column (3) : from Exhibit 3, Column (8)  
 Column (4) : from Exhibit 3, Column (11)

Column (5) : from Exhibit 7, Column (11)  
 Column (6) : from Exhibit 8, Column (11)  
 Column (7) : from Exhibit 4, Column (11)  
 Column (8) : from Exhibit 5, Column (11)

Column (9) : from Exhibit 6, Column (11)  
 Column (10) : Ultimate



**Cook County, Illinois  
Workers Compensation - General Government (Medical)**

**Workers Compensation - General Government (Medical) Experience @ 11/30/23  
Unpaid Liabilities at Various Discount Rates  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.48%
Prior	276	Various	\$ 32,497,000	\$ 32,412,365	\$ 31,816,811	\$ 595,554	\$ 84,635	\$ 680,189	\$ 588,952
1-Dec-01	264	\$ 9,500,000	\$ 4,041,536	\$ 4,041,536	\$ 4,041,536	\$ -	\$ -	\$ -	\$ -
1-Dec-02	252	\$ 9,500,000	\$ 4,252,000	\$ 4,231,301	\$ 4,146,967	\$ 84,333	\$ 20,700	\$ 105,033	\$ 83,312
1-Dec-03	240	Various	\$ 4,524,000	\$ 4,506,845	\$ 3,811,038	\$ 695,807	\$ 17,155	\$ 712,962	\$ 541,274
1-Dec-04	228	Unlimited	\$ 12,205,000	\$ 12,143,387	\$ 12,000,994	\$ 142,393	\$ 61,613	\$ 204,006	\$ 148,238
1-Dec-05	216	Unlimited	\$ 4,217,000	\$ 4,204,172	\$ 4,204,172	\$ -	\$ 12,828	\$ 12,828	\$ 8,922
1-Dec-06	204	Unlimited	\$ 4,944,000	\$ 4,908,826	\$ 4,866,242	\$ 42,584	\$ 35,174	\$ 77,758	\$ 52,904
1-Dec-07	192	Unlimited	\$ 6,264,000	\$ 6,199,824	\$ 6,145,349	\$ 54,475	\$ 64,176	\$ 118,651	\$ 79,006
1-Dec-08	180	Unlimited	\$ 6,690,000	\$ 6,576,318	\$ 6,487,142	\$ 89,177	\$ 113,682	\$ 202,858	\$ 132,254
1-Dec-09	168	Unlimited	\$ 6,870,000	\$ 6,786,280	\$ 6,515,127	\$ 271,153	\$ 83,720	\$ 354,873	\$ 226,608
1-Dec-10	156	Unlimited	\$ 5,610,000	\$ 5,543,258	\$ 5,008,311	\$ 534,947	\$ 66,742	\$ 601,689	\$ 384,491
1-Dec-11	144	Unlimited	\$ 4,600,000	\$ 4,504,245	\$ 4,410,838	\$ 93,407	\$ 95,755	\$ 189,162	\$ 122,760
1-Dec-12	132	Unlimited	\$ 4,490,000	\$ 4,397,247	\$ 4,254,655	\$ 142,592	\$ 92,753	\$ 235,345	\$ 153,931
1-Dec-13	120	Unlimited	\$ 5,600,000	\$ 5,474,290	\$ 4,814,390	\$ 659,899	\$ 125,710	\$ 785,610	\$ 546,070
1-Dec-14	108	Unlimited	\$ 6,100,000	\$ 5,954,649	\$ 5,218,569	\$ 736,080	\$ 145,351	\$ 881,431	\$ 635,900
1-Dec-15	96	Unlimited	\$ 9,700,000	\$ 9,428,287	\$ 8,666,303	\$ 761,984	\$ 271,713	\$ 1,033,697	\$ 762,809
1-Dec-16	84	Unlimited	\$ 10,900,000	\$ 10,480,029	\$ 8,278,944	\$ 2,201,084	\$ 419,971	\$ 2,621,056	\$ 1,987,836
1-Dec-17	72	Unlimited	\$ 10,300,000	\$ 9,854,065	\$ 7,593,799	\$ 2,260,266	\$ 445,935	\$ 2,706,201	\$ 2,165,558
1-Dec-18	60	Unlimited	\$ 11,000,000	\$ 10,185,745	\$ 7,767,110	\$ 2,418,635	\$ 814,255	\$ 3,232,890	\$ 2,597,416
1-Dec-19	48	Unlimited	\$ 19,000,000	\$ 17,556,141	\$ 9,536,219	\$ 8,019,922	\$ 1,443,859	\$ 9,463,781	\$ 7,745,280
1-Dec-20	36	Unlimited	\$ 17,400,000	\$ 16,329,715	\$ 8,297,463	\$ 8,032,252	\$ 1,070,285	\$ 9,102,537	\$ 7,705,516
1-Dec-21	24	Unlimited	\$ 23,000,000	\$ 20,598,167	\$ 6,903,184	\$ 13,694,983	\$ 2,401,833	\$ 16,096,816	\$ 14,118,154
1-Dec-22	12	Unlimited	\$ 27,000,000	\$ 19,498,351	\$ 2,365,727	\$ 17,132,624	\$ 7,501,649	\$ 24,634,273	\$ 22,363,456
<b>Total</b>			<b>\$ 241,204,536</b>	<b>\$ 225,815,043</b>	<b>\$ 167,150,890</b>	<b>\$ 58,664,154</b>	<b>\$ 15,389,493</b>	<b>\$ 74,053,646</b>	<b>\$ 63,150,647</b>

Column (4) : from Exhibit 1, Column (10)  
Columns (5), (6), (7) : Exhibit 10

Column (8) : Column (4) - Column (5)  
Column (9) : Column (4) - Column (6)  
Column (9) : Column (10) discounted



**Cook County, Illinois  
Workers Compensation - General Government (Medical)**

**Workers Compensation - General Government (Medical) Experience @ 11/30/23  
Incurred, Paid, & Outstanding "Chain Ladder" Methods  
Losses Limited to Retentions**

(1)	(2)	(3)			(6)			(9)		
Policy Period Inception	Evaluation in Months	Incurred Chain-Ladder			Paid Chain-Ladder			Outstanding Chain-Ladder		
		Incurred Loss	Incurred LDF	Ultimate Loss	Paid Loss	Paid LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss
Prior	276	\$ 32,412,365	1.003	\$ 32,494,126	\$ 31,816,811	1.020	\$ 32,456,878	\$ 595,554	1.146	\$ 32,499,467
1-Dec-01	264	\$ 4,041,536	1.003	\$ 4,053,743	\$ 4,041,536	1.020	\$ 4,122,840	\$ -	1.180	\$ 4,041,536
1-Dec-02	252	\$ 4,231,301	1.004	\$ 4,246,189	\$ 4,146,967	1.020	\$ 4,230,393	\$ 84,333	1.216	\$ 4,249,538
1-Dec-03	240	\$ 4,506,845	1.004	\$ 4,525,070	\$ 3,811,038	1.020	\$ 3,888,211	\$ 695,807	1.255	\$ 4,683,978
1-Dec-04	228	\$ 12,143,387	1.005	\$ 12,204,684	\$ 12,000,994	1.020	\$ 12,244,014	\$ 142,393	1.339	\$ 12,191,625
1-Dec-05	216	\$ 4,204,172	1.006	\$ 4,229,619	\$ 4,204,172	1.020	\$ 4,289,306	\$ -	1.435	\$ 4,204,172
1-Dec-06	204	\$ 4,908,826	1.007	\$ 4,943,477	\$ 4,866,242	1.021	\$ 4,969,748	\$ 42,584	1.507	\$ 4,930,428
1-Dec-07	192	\$ 6,199,824	1.008	\$ 6,249,831	\$ 6,145,349	1.022	\$ 6,282,338	\$ 54,475	1.580	\$ 6,231,400
1-Dec-08	180	\$ 6,576,318	1.009	\$ 6,635,992	\$ 6,487,142	1.023	\$ 6,638,381	\$ 89,177	1.652	\$ 6,634,469
1-Dec-09	168	\$ 6,786,280	1.010	\$ 6,854,706	\$ 6,515,127	1.024	\$ 6,673,686	\$ 271,153	1.725	\$ 6,982,758
1-Dec-10	156	\$ 5,543,258	1.011	\$ 5,604,751	\$ 5,008,311	1.026	\$ 5,140,459	\$ 534,947	1.745	\$ 5,941,545
1-Dec-11	144	\$ 4,504,245	1.012	\$ 4,558,766	\$ 4,410,838	1.029	\$ 4,540,802	\$ 93,407	1.718	\$ 4,571,290
1-Dec-12	132	\$ 4,397,247	1.013	\$ 4,454,922	\$ 4,254,655	1.033	\$ 4,393,158	\$ 142,592	1.697	\$ 4,496,602
1-Dec-13	120	\$ 5,474,290	1.016	\$ 5,562,731	\$ 4,814,390	1.041	\$ 5,010,883	\$ 659,899	1.682	\$ 5,924,296
1-Dec-14	108	\$ 5,954,649	1.019	\$ 6,069,003	\$ 5,218,569	1.050	\$ 5,480,441	\$ 736,080	1.651	\$ 6,433,883
1-Dec-15	96	\$ 9,428,287	1.022	\$ 9,638,177	\$ 8,666,303	1.061	\$ 9,192,198	\$ 761,984	1.615	\$ 9,896,585
1-Dec-16	84	\$ 10,480,029	1.027	\$ 10,766,899	\$ 8,278,944	1.076	\$ 8,909,422	\$ 2,201,084	1.604	\$ 11,809,197
1-Dec-17	72	\$ 9,854,065	1.036	\$ 10,204,791	\$ 7,593,799	1.111	\$ 8,440,320	\$ 2,260,266	1.521	\$ 11,032,390
1-Dec-18	60	\$ 10,185,745	1.049	\$ 10,687,223	\$ 7,767,110	1.139	\$ 8,844,489	\$ 2,418,635	1.627	\$ 11,701,159
1-Dec-19	48	\$ 17,556,141	1.065	\$ 18,696,795	\$ 9,536,219	1.190	\$ 11,345,391	\$ 8,019,922	1.620	\$ 22,525,705
1-Dec-20	36	\$ 16,329,715	1.079	\$ 17,612,257	\$ 8,297,463	1.309	\$ 10,859,526	\$ 8,032,252	1.446	\$ 19,915,813
1-Dec-21	24	\$ 20,598,167	1.170	\$ 24,096,701	\$ 6,903,184	1.644	\$ 11,348,308	\$ 13,694,983	1.589	\$ 28,664,048
1-Dec-22	12	\$ 19,498,351	1.567	\$ 30,555,571	\$ 2,365,727	4.375	\$ 10,349,017	\$ 17,132,624	1.884	\$ 34,637,114
Total		\$ 225,815,043		\$ 244,946,025	\$ 167,150,890		\$ 189,650,209	\$ 58,664,154		\$ 264,198,999

Columns (3), (6), (9) : Exhibit 10  
 Column (4) & (7) : from Exhibit 9  
 Column (5) : Column (3) X Column (4)

Column (8) : Column (6) X Column (7)  
 Column (10) : Outstanding LDF = (Incurred LDF - 1) X Paid LDF / (Paid LDF - Incurred LDF) + 1  
 Column (11) : Column (9) X Column (10) + Column (6)



**Cook County, Illinois  
Workers Compensation - General Government (Medical)**

**Workers Compensation - General Government (Medical) Experience @ 11/30/23  
Generalized Cape Cod Incurred Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Incurred Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Incurred Loss	Trended Payroll (in 00s)	Incurred LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 4,041,536	4.072	1.023	\$ 16,835,009	13,997,926	1.003	1.32	\$ 4,435,523	\$ 4,054,893
1-Dec-02	252	\$ 4,231,301	3.805	1.023	\$ 16,472,405	14,071,385	1.004	1.33	\$ 4,821,724	\$ 4,248,207
1-Dec-03	240	\$ 4,506,845	3.556	1.000	\$ 16,027,524	14,241,630	1.004	1.36	\$ 5,455,649	\$ 4,528,818
1-Dec-04	228	\$ 12,143,387	3.324	1.000	\$ 40,359,879	14,170,415	1.005	1.41	\$ 6,012,939	\$ 12,173,587
1-Dec-05	216	\$ 4,204,172	3.106	1.000	\$ 13,058,903	13,660,441	1.006	1.31	\$ 5,755,008	\$ 4,238,796
1-Dec-06	204	\$ 4,908,826	2.903	1.000	\$ 14,250,173	13,798,971	1.007	1.25	\$ 5,927,068	\$ 4,950,372
1-Dec-07	192	\$ 6,199,824	2.713	1.000	\$ 16,820,466	14,279,004	1.008	1.21	\$ 6,355,066	\$ 6,250,673
1-Dec-08	180	\$ 6,576,318	2.536	1.000	\$ 16,674,689	14,259,286	1.009	1.17	\$ 6,586,713	\$ 6,635,549
1-Dec-09	168	\$ 6,786,280	2.413	1.000	\$ 16,371,908	14,659,634	1.010	1.13	\$ 6,894,733	\$ 6,855,106
1-Dec-10	156	\$ 5,543,258	2.393	1.000	\$ 13,263,168	13,232,237	1.011	1.10	\$ 6,074,321	\$ 5,609,902
1-Dec-11	144	\$ 4,504,245	2.230	1.000	\$ 10,046,046	12,476,093	1.012	1.07	\$ 5,977,821	\$ 4,575,737
1-Dec-12	132	\$ 4,397,247	2.072	1.000	\$ 9,111,073	12,758,314	1.013	1.06	\$ 6,523,656	\$ 4,481,705
1-Dec-13	120	\$ 5,474,290	1.922	1.000	\$ 10,523,271	12,892,217	1.016	1.08	\$ 7,239,252	\$ 5,589,385
1-Dec-14	108	\$ 5,954,649	1.789	1.000	\$ 10,651,600	12,649,542	1.019	1.12	\$ 7,939,663	\$ 6,104,250
1-Dec-15	96	\$ 9,428,287	1.664	1.000	\$ 15,689,974	12,993,985	1.022	1.19	\$ 9,310,615	\$ 9,631,044
1-Dec-16	84	\$ 10,480,029	1.546	1.000	\$ 16,198,478	12,839,021	1.027	1.26	\$ 10,490,117	\$ 10,759,524
1-Dec-17	72	\$ 9,854,065	1.434	1.000	\$ 14,133,931	11,668,630	1.036	1.34	\$ 10,875,465	\$ 10,227,841
1-Dec-18	60	\$ 10,185,745	1.334	1.000	\$ 13,584,812	11,684,598	1.049	1.43	\$ 12,510,075	\$ 10,772,757
1-Dec-19	48	\$ 17,556,141	1.241	1.000	\$ 21,793,973	11,544,860	1.065	1.55	\$ 14,459,393	\$ 18,438,279
1-Dec-20	36	\$ 16,329,715	1.146	1.000	\$ 18,716,234	10,839,137	1.079	1.66	\$ 15,669,370	\$ 17,470,774
1-Dec-21	24	\$ 20,598,167	1.070	1.000	\$ 22,040,039	10,973,988	1.170	1.76	\$ 18,087,319	\$ 23,224,215
1-Dec-22	12	\$ 19,498,351	1.000	1.000	\$ 19,498,351	11,616,907	1.567	1.83	\$ 21,306,163	\$ 27,208,465
Total		\$ 193,402,678			\$ 362,121,906	285,308,221			\$ 198,707,652	\$ 208,029,881

Column (3) : supplied by Cook County, Illinois  
 Column (4) : Aon Indices appropriate for coverage (Workers Compensation - General Government (Medical))  
 Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period  
 Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.  
 Column (8) : from Exhibit 9  
 Columns (9) and (10) : Quantities used in Cape Cod  
 Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Workers Compensation - General Government (Medical)**

**Workers Compensation - General Government (Medical) Experience @ 11/30/23  
Generalized Cape Cod Paid Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Paid Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Paid Loss	Trended Payroll (in 00s)	Paid LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 4,041,536	4.072	1.023	\$ 16,835,009	13,997,926	1.020	1.30	\$ 4,357,470	\$ 4,127,467
1-Dec-02	252	\$ 4,146,967	3.805	1.023	\$ 16,144,096	14,071,385	1.020	1.31	\$ 4,718,184	\$ 4,240,012
1-Dec-03	240	\$ 3,811,038	3.556	1.000	\$ 13,553,050	14,241,630	1.020	1.33	\$ 5,313,751	\$ 3,916,505
1-Dec-04	228	\$ 12,000,994	3.324	1.000	\$ 39,886,621	14,170,415	1.020	1.38	\$ 5,893,146	\$ 12,117,962
1-Dec-05	216	\$ 4,204,172	3.106	1.000	\$ 13,058,903	13,660,441	1.020	1.28	\$ 5,642,373	\$ 4,316,162
1-Dec-06	204	\$ 4,866,242	2.903	1.000	\$ 14,126,553	13,798,971	1.021	1.22	\$ 5,799,124	\$ 4,987,022
1-Dec-07	192	\$ 6,145,349	2.713	1.000	\$ 16,672,674	14,279,004	1.022	1.18	\$ 6,191,261	\$ 6,280,352
1-Dec-08	180	\$ 6,487,142	2.536	1.000	\$ 16,448,576	14,259,286	1.023	1.13	\$ 6,368,666	\$ 6,632,237
1-Dec-09	168	\$ 6,515,127	2.413	1.000	\$ 15,717,751	14,659,634	1.024	1.08	\$ 6,590,058	\$ 6,671,699
1-Dec-10	156	\$ 5,008,311	2.393	1.000	\$ 11,983,218	13,232,237	1.026	1.03	\$ 5,721,455	\$ 5,155,395
1-Dec-11	144	\$ 4,410,838	2.230	1.000	\$ 9,837,715	12,476,093	1.029	0.99	\$ 5,551,367	\$ 4,569,726
1-Dec-12	132	\$ 4,254,655	2.072	1.000	\$ 8,815,624	12,758,314	1.033	0.96	\$ 5,936,835	\$ 4,441,825
1-Dec-13	120	\$ 4,814,390	1.922	1.000	\$ 9,254,741	12,892,217	1.041	0.96	\$ 6,418,873	\$ 5,066,095
1-Dec-14	108	\$ 5,218,569	1.789	1.000	\$ 9,334,909	12,649,542	1.050	0.97	\$ 6,852,536	\$ 5,546,004
1-Dec-15	96	\$ 8,666,303	1.664	1.000	\$ 14,421,927	12,993,985	1.061	1.00	\$ 7,807,542	\$ 9,112,980
1-Dec-16	84	\$ 8,278,944	1.546	1.000	\$ 12,796,368	12,839,021	1.076	1.02	\$ 8,439,244	\$ 8,876,150
1-Dec-17	72	\$ 7,593,799	1.434	1.000	\$ 10,891,975	11,668,630	1.111	1.03	\$ 8,364,728	\$ 8,432,739
1-Dec-18	60	\$ 7,767,110	1.334	1.000	\$ 10,359,058	11,684,598	1.139	1.04	\$ 9,124,843	\$ 8,878,640
1-Dec-19	48	\$ 9,536,219	1.241	1.000	\$ 11,838,142	11,544,860	1.190	1.06	\$ 9,868,575	\$ 11,109,893
1-Dec-20	36	\$ 8,297,463	1.146	1.000	\$ 9,510,102	10,839,137	1.309	1.07	\$ 10,095,377	\$ 10,679,242
1-Dec-21	24	\$ 6,903,184	1.070	1.000	\$ 7,386,407	10,973,988	1.644	1.07	\$ 10,937,987	\$ 11,187,586
1-Dec-22	12	\$ 2,365,727	1.000	1.000	\$ 2,365,727	11,616,907	4.375	1.06	\$ 12,312,570	\$ 11,863,713
<b>Total</b>		<b>\$ 135,334,079</b>			<b>\$ 291,239,146</b>	<b>285,308,221</b>			<b>\$ 158,305,968</b>	<b>\$ 158,209,405</b>

Column (3) : supplied by Cook County, Illinois  
 Column (4) : Aon Indices appropriate for coverage (Workers Compensation - General Government (Medical))  
 Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period  
 Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.  
 Column (8) : from Exhibit 9  
 Columns (9) and (10) : Quantities used in Cape Cod  
 Column (11) : Cape Cod estimated ultimate loss





**Cook County, Illinois  
Workers Compensation - General Government (Medical)**

**Workers Compensation - General Government (Medical) Experience @ 11/30/23  
Frequency & Severity Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Reported Claims	Claim CDF	Ultimate Claims	Severity LDF	Reported Severity	Ultimate Reported Severity	Unreported Claims	Ultimate Unreported Severity	Ultimate Loss
Prior	276	17,485	1.000	17,485	1.003	\$ 1,854	\$ 1,858	0	\$ 2,152	\$ 32,494,126
1-Dec-01	264	1,161	1.000	1,161	1.003	\$ 3,481	\$ 3,492	0	\$ 2,486	\$ 4,053,743
1-Dec-02	252	1,223	1.000	1,223	1.004	\$ 3,460	\$ 3,472	0	\$ 2,881	\$ 4,246,189
1-Dec-03	240	1,218	1.000	1,218	1.004	\$ 3,700	\$ 3,715	0	\$ 3,441	\$ 4,525,070
1-Dec-04	228	1,318	1.000	1,318	1.005	\$ 9,213	\$ 9,260	0	\$ 4,063	\$ 12,204,684
1-Dec-05	216	1,159	1.000	1,159	1.006	\$ 3,627	\$ 3,649	0	\$ 4,455	\$ 4,229,619
1-Dec-06	204	903	1.000	903	1.007	\$ 5,436	\$ 5,475	0	\$ 4,977	\$ 4,943,477
1-Dec-07	192	777	1.000	777	1.008	\$ 7,979	\$ 8,044	0	\$ 5,571	\$ 6,249,831
1-Dec-08	180	767	1.000	767	1.009	\$ 8,574	\$ 8,652	0	\$ 6,121	\$ 6,635,992
1-Dec-09	168	862	1.000	862	1.010	\$ 7,873	\$ 7,952	0	\$ 6,463	\$ 6,854,706
1-Dec-10	156	789	1.000	789	1.011	\$ 7,026	\$ 7,104	0	\$ 6,440	\$ 5,604,751
1-Dec-11	144	783	1.000	783	1.012	\$ 5,753	\$ 5,822	0	\$ 6,769	\$ 4,558,766
1-Dec-12	132	720	1.000	720	1.013	\$ 6,107	\$ 6,187	0	\$ 7,198	\$ 4,454,922
1-Dec-13	120	761	1.000	761	1.016	\$ 7,194	\$ 7,310	0	\$ 7,733	\$ 5,562,731
1-Dec-14	108	778	1.000	778	1.019	\$ 7,654	\$ 7,801	0	\$ 8,313	\$ 6,069,003
1-Dec-15	96	1,108	1.000	1,108	1.022	\$ 8,509	\$ 8,699	0	\$ 8,976	\$ 9,638,177
1-Dec-16	84	1,240	1.001	1,241	1.026	\$ 8,452	\$ 8,674	1	\$ 9,736	\$ 10,765,878
1-Dec-17	72	1,088	1.002	1,090	1.034	\$ 9,057	\$ 9,361	2	\$ 10,695	\$ 10,205,803
1-Dec-18	60	1,038	1.003	1,041	1.046	\$ 9,813	\$ 10,265	3	\$ 11,876	\$ 10,690,854
1-Dec-19	48	1,221	1.004	1,226	1.061	\$ 14,378	\$ 15,252	5	\$ 13,362	\$ 18,689,004
1-Dec-20	36	1,205	1.007	1,213	1.071	\$ 13,552	\$ 14,516	8	\$ 14,959	\$ 17,611,406
1-Dec-21	24	1,281	1.013	1,297	1.155	\$ 16,080	\$ 18,573	16	\$ 16,728	\$ 24,059,965
1-Dec-22	12	1,100	1.033	1,136	1.517	\$ 17,726	\$ 26,889	36	\$ 18,623	\$ 30,248,464
Total		39,985		40,056				71		\$ 244,597,161

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (6) : from {Exhibit 3, Column (4)} / Column (4)

Column (7) : from {Exhibit 3, Column (3)} / Column (3)

Column (8) : Column (6) X Column (7)

Column (9) : Column (5) - Column (3)

Column (10) : Weighted Average of Column (8) adjusted for Trend and Retention

Column (11) : Column (3) X Column (8) + Column (9) X Column (10)



**Cook County, Illinois  
Workers Compensation - General Government (Medical)**

**Workers Compensation - General Government (Medical) Experience @ 11/30/23  
Incurred Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Incurred Losses	Incurred LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	IBNR Factor	IBNR	Expected Ultimate Loss
1-Dec-01	\$ 9,500,000	\$ 4,041,536	1.003	0.83	1.023	0.81	\$ 6,127,147	0.003	\$ 18,451	\$ 4,059,987
1-Dec-02	\$ 9,500,000	\$ 4,231,301	1.004	0.87	1.023	0.85	\$ 6,590,452	0.004	\$ 23,109	\$ 4,254,409
1-Dec-03	Various	\$ 4,506,845	1.004	0.90	1.000	0.90	\$ 7,301,758	0.004	\$ 29,408	\$ 4,536,253
1-Dec-04	Unlimited	\$ 12,143,387	1.005	0.93	1.000	0.93	\$ 7,773,813	0.005	\$ 39,043	\$ 12,182,431
1-Dec-05	Unlimited	\$ 4,204,172	1.006	0.97	1.000	0.97	\$ 8,018,627	0.006	\$ 48,243	\$ 4,252,415
1-Dec-06	Unlimited	\$ 4,908,826	1.007	1.01	1.000	1.01	\$ 8,666,939	0.007	\$ 60,750	\$ 4,969,577
1-Dec-07	Unlimited	\$ 6,199,824	1.008	1.05	1.000	1.05	\$ 9,596,232	0.008	\$ 76,783	\$ 6,276,607
1-Dec-08	Unlimited	\$ 6,576,318	1.009	1.09	1.000	1.09	\$ 10,253,790	0.009	\$ 92,206	\$ 6,668,525
1-Dec-09	Unlimited	\$ 6,786,280	1.010	1.11	1.000	1.11	\$ 11,079,423	0.010	\$ 110,599	\$ 6,896,879
1-Dec-10	Unlimited	\$ 5,543,258	1.011	1.09	1.000	1.09	\$ 10,083,531	0.011	\$ 110,631	\$ 5,653,889
1-Dec-11	Unlimited	\$ 4,504,245	1.012	1.13	1.000	1.13	\$ 10,199,220	0.012	\$ 121,977	\$ 4,626,222
1-Dec-12	Unlimited	\$ 4,397,247	1.013	1.18	1.000	1.18	\$ 11,227,062	0.013	\$ 145,351	\$ 4,542,598
1-Dec-13	Unlimited	\$ 5,474,290	1.016	1.24	1.000	1.24	\$ 12,228,302	0.016	\$ 194,416	\$ 5,668,705
1-Dec-14	Unlimited	\$ 5,954,649	1.019	1.29	1.000	1.29	\$ 12,893,702	0.019	\$ 242,947	\$ 6,197,596
1-Dec-15	Unlimited	\$ 9,428,287	1.022	1.35	1.000	1.35	\$ 14,236,868	0.022	\$ 310,035	\$ 9,738,323
1-Dec-16	Unlimited	\$ 10,480,029	1.027	1.41	1.000	1.41	\$ 15,145,433	0.027	\$ 403,530	\$ 10,883,559
1-Dec-17	Unlimited	\$ 9,854,065	1.036	1.47	1.000	1.47	\$ 14,833,165	0.034	\$ 509,797	\$ 10,363,862
1-Dec-18	Unlimited	\$ 10,185,745	1.049	1.54	1.000	1.54	\$ 15,974,030	0.047	\$ 749,552	\$ 10,935,297
1-Dec-19	Unlimited	\$ 17,556,141	1.065	1.61	1.000	1.61	\$ 16,956,758	0.061	\$ 1,034,498	\$ 18,590,639
1-Dec-20	Unlimited	\$ 16,329,715	1.079	1.69	1.000	1.69	\$ 17,243,140	0.073	\$ 1,255,663	\$ 17,585,378
1-Dec-21	Unlimited	\$ 20,598,167	1.170	1.76	1.000	1.76	\$ 18,700,027	0.145	\$ 2,715,005	\$ 23,313,173
1-Dec-22	Unlimited	\$ 19,498,351	1.567	1.82	1.000	1.82	\$ 21,181,273	0.362	\$ 7,664,920	\$ 27,163,271
Total		\$ 193,402,678					\$ 266,310,694		\$ 15,956,916	\$ 209,359,594

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Payroll) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Workers Compensation - General Government (Medical)**

**Workers Compensation - General Government (Medical) Experience @ 11/30/23  
Paid Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Paid Losses	Paid LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	Unpaid Factor	Unpaid	Expected Ultimate Loss
1-Dec-01	\$ 9,500,000	\$ 4,041,536	1.020	0.83	1.023	0.81	\$ 6,127,147	0.020	\$ 120,831	\$ 4,162,366
1-Dec-02	\$ 9,500,000	\$ 4,146,967	1.020	0.87	1.023	0.85	\$ 6,590,452	0.020	\$ 129,967	\$ 4,276,934
1-Dec-03	Various	\$ 3,811,038	1.020	0.90	1.000	0.90	\$ 7,301,758	0.020	\$ 144,925	\$ 3,955,963
1-Dec-04	Unlimited	\$ 12,000,994	1.020	0.93	1.000	0.93	\$ 7,773,813	0.020	\$ 154,295	\$ 12,155,289
1-Dec-05	Unlimited	\$ 4,204,172	1.020	0.97	1.000	0.97	\$ 8,018,627	0.020	\$ 159,154	\$ 4,363,326
1-Dec-06	Unlimited	\$ 4,866,242	1.021	1.01	1.000	1.01	\$ 8,666,939	0.021	\$ 180,508	\$ 5,046,750
1-Dec-07	Unlimited	\$ 6,145,349	1.022	1.05	1.000	1.05	\$ 9,596,232	0.022	\$ 209,249	\$ 6,354,599
1-Dec-08	Unlimited	\$ 6,487,142	1.023	1.09	1.000	1.09	\$ 10,253,790	0.023	\$ 233,608	\$ 6,720,750
1-Dec-09	Unlimited	\$ 6,515,127	1.024	1.11	1.000	1.11	\$ 11,079,423	0.024	\$ 263,234	\$ 6,778,361
1-Dec-10	Unlimited	\$ 5,008,311	1.026	1.09	1.000	1.09	\$ 10,083,531	0.026	\$ 259,221	\$ 5,267,533
1-Dec-11	Unlimited	\$ 4,410,838	1.029	1.13	1.000	1.13	\$ 10,199,220	0.029	\$ 291,917	\$ 4,702,755
1-Dec-12	Unlimited	\$ 4,254,655	1.033	1.18	1.000	1.18	\$ 11,227,062	0.032	\$ 353,955	\$ 4,608,610
1-Dec-13	Unlimited	\$ 4,814,390	1.041	1.24	1.000	1.24	\$ 12,228,302	0.039	\$ 479,511	\$ 5,293,901
1-Dec-14	Unlimited	\$ 5,218,569	1.050	1.29	1.000	1.29	\$ 12,893,702	0.048	\$ 616,101	\$ 5,834,670
1-Dec-15	Unlimited	\$ 8,666,303	1.061	1.35	1.000	1.35	\$ 14,236,868	0.057	\$ 814,505	\$ 9,480,808
1-Dec-16	Unlimited	\$ 8,278,944	1.076	1.41	1.000	1.41	\$ 15,145,433	0.071	\$ 1,071,771	\$ 9,350,715
1-Dec-17	Unlimited	\$ 7,593,799	1.111	1.47	1.000	1.47	\$ 14,833,165	0.100	\$ 1,487,691	\$ 9,081,490
1-Dec-18	Unlimited	\$ 7,767,110	1.139	1.54	1.000	1.54	\$ 15,974,030	0.122	\$ 1,945,854	\$ 9,712,964
1-Dec-19	Unlimited	\$ 9,536,219	1.190	1.61	1.000	1.61	\$ 16,956,758	0.159	\$ 2,703,979	\$ 12,240,197
1-Dec-20	Unlimited	\$ 8,297,463	1.309	1.69	1.000	1.69	\$ 17,243,140	0.236	\$ 4,068,135	\$ 12,365,597
1-Dec-21	Unlimited	\$ 6,903,184	1.644	1.76	1.000	1.76	\$ 18,700,027	0.392	\$ 7,324,787	\$ 14,227,971
1-Dec-22	Unlimited	\$ 2,365,727	4.375	1.82	1.000	1.82	\$ 21,181,273	0.771	\$ 16,339,353	\$ 18,705,080
Total		\$ 135,334,079					\$ 266,310,694		\$ 39,352,551	\$ 174,686,629

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Payroll) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Workers Compensation - General Government (Medical)**

**Workers Compensation - General Government (Medical) Experience @ 11/30/23  
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred LDF's		(4) Paid LDF's		(6) Claim CDF	(8) Trend Factors		(9) Payroll (in 00s)
	Unlimited	Limited	Unlimited	Limited		Loss	Exposure	
Prior	1.003	1.003	1.020	1.020	1.000	4.357	1.893	-
1-Dec-01	1.003	1.003	1.020	1.020	1.000	4.072	1.860	7,524,575
1-Dec-02	1.004	1.004	1.020	1.020	1.000	3.805	1.806	7,790,984
1-Dec-03	1.004	1.004	1.020	1.020	1.000	3.556	1.758	8,101,821
1-Dec-04	1.005	1.005	1.020	1.020	1.000	3.324	1.702	8,323,626
1-Dec-05	1.006	1.006	1.020	1.020	1.000	3.106	1.653	8,264,792
1-Dec-06	1.007	1.007	1.021	1.021	1.000	2.903	1.605	8,599,062
1-Dec-07	1.008	1.008	1.022	1.022	1.000	2.713	1.562	9,142,601
1-Dec-08	1.009	1.009	1.023	1.023	1.000	2.536	1.513	9,427,068
1-Dec-09	1.010	1.010	1.024	1.024	1.000	2.413	1.469	9,982,498
1-Dec-10	1.011	1.011	1.026	1.026	1.000	2.393	1.426	9,280,825
1-Dec-11	1.012	1.012	1.029	1.029	1.000	2.230	1.388	8,990,821
1-Dec-12	1.013	1.013	1.033	1.033	1.000	2.072	1.344	9,493,384
1-Dec-13	1.016	1.016	1.041	1.041	1.000	1.922	1.305	9,880,811
1-Dec-14	1.019	1.019	1.050	1.050	1.000	1.789	1.267	9,985,665
1-Dec-15	1.022	1.022	1.061	1.061	1.000	1.664	1.233	10,539,306
1-Dec-16	1.027	1.027	1.076	1.076	1.001	1.546	1.194	10,752,478
1-Dec-17	1.036	1.036	1.111	1.111	1.002	1.434	1.159	10,065,463
1-Dec-18	1.049	1.049	1.139	1.139	1.003	1.334	1.126	10,381,614
1-Dec-19	1.065	1.065	1.190	1.190	1.004	1.241	1.095	10,539,190
1-Dec-20	1.079	1.079	1.309	1.309	1.007	1.146	1.061	10,216,926
1-Dec-21	1.170	1.170	1.644	1.644	1.013	1.070	1.030	10,654,358
1-Dec-22	1.567	1.567	4.375	4.375	1.033	1.000	1.000	11,616,907

Methods Included in Analysis :  
Source Used for LDFs :

**Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity  
Company Exclusively**

LDF Annual Decay Rate (Incurred/Paid/Clm Count): **0.75**  
ELR for B/F Method : **1.90**  
Generalized Cape Cod Decay Factor: **0.75**  
Loss Limitation : **Exhibit 10, Column (5)**  
Discount Rates : **4.48%**  
States Selected for WC : **IL**

**Column (2) : Company Exclusively**  
**Column (3) : Exhibit 13, Sheet 1, Column (15)**  
**Column (4) : Company Exclusively**

**Column (5) : Exhibit 13, Sheet 2, Column (15)**  
**Column (6) : Company Exclusively**  
**Column (7) : Aon Compilation of Estimated Trends, California Indices, Benefit Level Adjustment Factors**

**Column (8) : Flat 3.00%**  
**Column (9) : supplied by Cook County, Illinois**



**Cook County, Illinois  
Workers Compensation - General Government (Medical)**

**Workers Compensation - General Government (Medical) Experience @ 11/30/23  
Limited Loss Calculations**

(1) Policy Period Inception	(2) Unlimited			(5) Retention	(6) Claims valued over the Retention			(10) Limited			
	Incurred	Paid	Case O/S		No.	Incurred	No.	Paid	Incurred	Paid	Case O/S
Prior	\$ 32,412,365	\$ 31,816,811	\$ 595,554	Various	-	\$ -	-	\$ -	\$ 32,412,365	\$ 31,816,811	\$ 595,554
1-Dec-01	\$ 4,041,536	\$ 4,041,536	\$ -	\$ 9,500,000	-	\$ -	-	\$ -	\$ 4,041,536	\$ 4,041,536	\$ -
1-Dec-02	\$ 4,231,301	\$ 4,146,967	\$ 84,333	\$ 9,500,000	-	\$ -	-	\$ -	\$ 4,231,301	\$ 4,146,967	\$ 84,333
1-Dec-03	\$ 4,506,845	\$ 3,811,038	\$ 695,807	Various	-	\$ -	-	\$ -	\$ 4,506,845	\$ 3,811,038	\$ 695,807
1-Dec-04	\$ 12,143,387	\$ 12,000,994	\$ 142,393	Unlimited	-	\$ -	-	\$ -	\$ 12,143,387	\$ 12,000,994	\$ 142,393
1-Dec-05	\$ 4,204,172	\$ 4,204,172	\$ -	Unlimited	-	\$ -	-	\$ -	\$ 4,204,172	\$ 4,204,172	\$ -
1-Dec-06	\$ 4,908,826	\$ 4,866,242	\$ 42,584	Unlimited	-	\$ -	-	\$ -	\$ 4,908,826	\$ 4,866,242	\$ 42,584
1-Dec-07	\$ 6,199,824	\$ 6,145,349	\$ 54,475	Unlimited	-	\$ -	-	\$ -	\$ 6,199,824	\$ 6,145,349	\$ 54,475
1-Dec-08	\$ 6,576,318	\$ 6,487,142	\$ 89,177	Unlimited	-	\$ -	-	\$ -	\$ 6,576,318	\$ 6,487,142	\$ 89,177
1-Dec-09	\$ 6,786,280	\$ 6,515,127	\$ 271,153	Unlimited	-	\$ -	-	\$ -	\$ 6,786,280	\$ 6,515,127	\$ 271,153
1-Dec-10	\$ 5,543,258	\$ 5,008,311	\$ 534,947	Unlimited	-	\$ -	-	\$ -	\$ 5,543,258	\$ 5,008,311	\$ 534,947
1-Dec-11	\$ 4,504,245	\$ 4,410,838	\$ 93,407	Unlimited	-	\$ -	-	\$ -	\$ 4,504,245	\$ 4,410,838	\$ 93,407
1-Dec-12	\$ 4,397,247	\$ 4,254,655	\$ 142,592	Unlimited	-	\$ -	-	\$ -	\$ 4,397,247	\$ 4,254,655	\$ 142,592
1-Dec-13	\$ 5,474,290	\$ 4,814,390	\$ 659,899	Unlimited	-	\$ -	-	\$ -	\$ 5,474,290	\$ 4,814,390	\$ 659,899
1-Dec-14	\$ 5,954,649	\$ 5,218,569	\$ 736,080	Unlimited	-	\$ -	-	\$ -	\$ 5,954,649	\$ 5,218,569	\$ 736,080
1-Dec-15	\$ 9,428,287	\$ 8,666,303	\$ 761,984	Unlimited	-	\$ -	-	\$ -	\$ 9,428,287	\$ 8,666,303	\$ 761,984
1-Dec-16	\$ 10,480,029	\$ 8,278,944	\$ 2,201,084	Unlimited	-	\$ -	-	\$ -	\$ 10,480,029	\$ 8,278,944	\$ 2,201,084
1-Dec-17	\$ 9,854,065	\$ 7,593,799	\$ 2,260,266	Unlimited	-	\$ -	-	\$ -	\$ 9,854,065	\$ 7,593,799	\$ 2,260,266
1-Dec-18	\$ 10,185,745	\$ 7,767,110	\$ 2,418,635	Unlimited	-	\$ -	-	\$ -	\$ 10,185,745	\$ 7,767,110	\$ 2,418,635
1-Dec-19	\$ 17,556,141	\$ 9,536,219	\$ 8,019,922	Unlimited	-	\$ -	-	\$ -	\$ 17,556,141	\$ 9,536,219	\$ 8,019,922
1-Dec-20	\$ 16,329,715	\$ 8,297,463	\$ 8,032,252	Unlimited	-	\$ -	-	\$ -	\$ 16,329,715	\$ 8,297,463	\$ 8,032,252
1-Dec-21	\$ 20,598,167	\$ 6,903,184	\$ 13,694,983	Unlimited	-	\$ -	-	\$ -	\$ 20,598,167	\$ 6,903,184	\$ 13,694,983
1-Dec-22	\$ 19,498,351	\$ 2,365,727	\$ 17,132,624	Unlimited	-	\$ -	-	\$ -	\$ 19,498,351	\$ 2,365,727	\$ 17,132,624
	\$ 225,815,043	\$ 167,150,890	\$ 58,664,154		-	\$ -	-	\$ -	\$ 225,815,043	\$ 167,150,890	\$ 58,664,154

Column (2) and Column (3) : Supplied by Cook County, Illinois  
 Column (4) : Column (2) - Column (3)  
 Column (5) : Individual loss limitation

Column (6) through Column (9) : supplied by Cook County, Illinois  
 Column (10) : Column (2) - Column (7) + [Column (5) x Column (6)]  
 Column (11) : Column (3) - Column (9) + [Column (5) x Column (8)]



**Cook County, Illinois  
Workers Compensation - General Government (Medical)**

**Workers Compensation - General Government (Medical) Experience @ 11/30/23  
Selected Ultimate Claim Counts**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Policy Period Inception	Trended Payroll (in 00s)	Reported Claims	Claim CDF	Chain-Ladder Developed Claims	Frequency Trend	Trended Developed Claims	Trended Frequency Rate	Bornhuetter -Ferguson Developed	Selected Trended Claims	Selected Untrended Claims	Trended Frequency Rate
1-Dec-01	13,997,926	1,161	1.000	1,161	1.000	1,161	0.00829%		1,161	1,161	0.00829%
1-Dec-02	14,071,385	1,223	1.000	1,223	1.000	1,223	0.00869%		1,223	1,223	0.00869%
1-Dec-03	14,241,630	1,218	1.000	1,218	1.000	1,218	0.00855%		1,218	1,218	0.00855%
1-Dec-04	14,170,415	1,318	1.000	1,318	1.000	1,318	0.00930%		1,318	1,318	0.00930%
1-Dec-05	13,660,441	1,159	1.000	1,159	1.000	1,159	0.00848%		1,159	1,159	0.00848%
1-Dec-06	13,798,971	903	1.000	903	1.000	903	0.00654%		903	903	0.00654%
1-Dec-07	14,279,004	777	1.000	777	1.000	777	0.00544%		777	777	0.00544%
1-Dec-08	14,259,286	767	1.000	767	1.000	767	0.00538%		767	767	0.00538%
1-Dec-09	14,659,634	862	1.000	862	1.000	862	0.00588%		862	862	0.00588%
1-Dec-10	13,232,237	789	1.000	789	1.000	789	0.00596%		789	789	0.00596%
1-Dec-11	12,476,093	783	1.000	783	1.000	783	0.00628%		783	783	0.00628%
1-Dec-12	12,758,314	720	1.000	720	1.000	720	0.00564%		720	720	0.00564%
1-Dec-13	12,892,217	761	1.000	761	1.000	761	0.00590%		761	761	0.00590%
1-Dec-14	12,649,542	778	1.000	778	1.000	778	0.00615%		778	778	0.00615%
1-Dec-15	12,993,985	1,108	1.000	1,108	1.000	1,108	0.00853%		1,108	1,108	0.00853%
1-Dec-16	12,839,021	1,240	1.001	1,241	1.000	1,241	0.00967%		1,241	1,241	0.00967%
1-Dec-17	11,668,630	1,088	1.002	1,090	1.000	1,090	0.00934%		1,090	1,090	0.00934%
1-Dec-18	11,684,598	1,038	1.003	1,041	1.000	1,041	0.00891%		1,041	1,041	0.00891%
1-Dec-19	11,544,860	1,221	1.004	1,226	1.000	1,226	0.01062%		1,226	1,226	0.01062%
1-Dec-20	10,839,137	1,205	1.007	1,213	1.000	1,213	0.01119%		1,213	1,213	0.01119%
1-Dec-21	10,973,988	1,281	1.013	1,297	1.000	1,297	0.01182%		1,297	1,297	0.01182%
1-Dec-22	11,616,907	1,100	1.033	1,136	1.000	1,136	0.00978%		1,136	1,136	0.00978%
Total	285,308,221	22,500		22,572		22,572	0.00791%		22,572	22,571	0.00791%

Column (2) : from Exhibit 4  
 Column (3) : supplied by Cook County, Illinois  
 Column (4) : from Exhibit 9

Column (5) : Column (3) x Column (4)  
 Column (6) : Assumption  
 Column (7) : Column (5) x Column (6)  
 Column (8) : Column (7) / Column (2)

Column (9) : Bornhuetter Method = (3) + (1.0 - 1.0 / (4)) x 1,652  
 Column (10) : Selected Trended Ultimate Claims  
 Column (11) : Column (10) / Column (6)  
 Column (12) : Column (10) / Column (2)

Selected Frequency Rate for Renewal Policy Period 1-Dec-23					
Weighted Averages through and including Policy Period 1-Dec-22					
Last 5 Policies	56,659,491			5,914	0.01044%
Last 3 Policies	33,430,033			3,647	0.01091%
Last 2 Policies	22,590,896			2,434	0.01077%
Last 22 Policies	285,308,221			22,572	0.00791%
Selected Bornhuetter-Ferguson Frequency Rate					<b>0.01121%</b>
Factor to adjust the Claims / Exposure Trend Rate from Policy Period 1-Dec-22 to Renewal Period 1-Dec-23					0.973
Selected Frequency Rate adjusted to the Renewal Policy Period Level					0.01091%
Payroll for 1-Dec-23					12,231,964
Projected Count for 1-Dec-23					1,335



**Cook County, Illinois**  
**Workers Compensation - General Government (Medical)**  
**Workers Compensation - General Government (Medical) Experience @ 11/30/23**  
**Losses Limited to Retentions**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
<b>Policy Period Inception</b>	<b>Incurred Loss</b>	<b>Selected Ultimate Loss</b>	<b>Loss Trend Factor</b>	<b>Retention Adjustment Factor</b>	<b>Trended Ultimate Loss</b>	<b>Payroll (in 00s)</b>	<b>Exposure Trend Factor</b>	<b>Trended Payroll (in 00s)</b>	<b>Trended Loss Rate</b>
1-Dec-01	4,041,536	4,041,536	4.357	1.023	18,013,459	7,524,575	1.911	14,382,393	1.25
1-Dec-02	4,231,301	4,252,000	4.072	1.023	17,711,697	7,790,984	1.856	14,457,869	1.23
1-Dec-03	4,506,845	4,524,000	3.805	1.000	17,214,728	8,101,821	1.806	14,632,790	1.18
1-Dec-04	12,143,387	12,205,000	3.556	1.000	43,404,181	8,323,626	1.749	14,559,620	2.98
1-Dec-05	4,204,172	4,217,000	3.324	1.000	14,015,662	8,264,792	1.698	14,035,639	1.00
1-Dec-06	4,908,826	4,944,000	3.106	1.000	15,356,940	8,599,062	1.649	14,177,973	1.08
1-Dec-07	6,199,824	6,264,000	2.903	1.000	18,184,200	9,142,601	1.605	14,671,191	1.24
1-Dec-08	6,576,318	6,690,000	2.713	1.000	18,150,341	9,427,068	1.554	14,650,932	1.24
1-Dec-09	6,786,280	6,870,000	2.581	1.000	17,734,054	9,982,498	1.509	15,062,276	1.18
1-Dec-10	5,543,258	5,610,000	2.560	1.000	14,362,459	9,280,825	1.465	13,595,673	1.06
1-Dec-11	4,504,245	4,600,000	2.386	1.000	10,977,786	8,990,821	1.426	12,818,761	0.86
1-Dec-12	4,397,247	4,490,000	2.217	1.000	9,954,485	9,493,384	1.381	13,108,734	0.76
1-Dec-13	5,474,290	5,600,000	2.057	1.000	11,518,469	9,880,811	1.341	13,246,314	0.87
1-Dec-14	5,954,649	6,100,000	1.914	1.000	11,675,415	9,985,665	1.302	12,996,974	0.90
1-Dec-15	9,428,287	9,700,000	1.781	1.000	17,272,092	10,539,306	1.267	13,350,878	1.29
1-Dec-16	10,480,029	10,900,000	1.654	1.000	18,026,941	10,752,478	1.227	13,191,658	1.37
1-Dec-17	9,854,065	10,300,000	1.535	1.000	15,807,695	10,065,463	1.191	11,989,120	1.32
1-Dec-18	10,185,745	11,000,000	1.427	1.000	15,697,745	10,381,614	1.156	12,005,527	1.31
1-Dec-19	17,556,141	19,000,000	1.328	1.000	25,237,407	10,539,190	1.126	11,861,951	2.13
1-Dec-20	16,329,715	17,400,000	1.226	1.000	21,338,943	10,216,926	1.090	11,136,845	1.92
1-Dec-21	20,598,167	23,000,000	1.145	1.000	26,332,700	10,654,358	1.058	11,275,400	2.34
1-Dec-22	19,498,351	27,000,000	1.070	1.000	28,890,000	11,616,907	1.027	11,935,977	2.42
<b>All Year Weighted Average</b>					406,877,399			293,144,495	1.39
<b>Latest 5-Year Weighted Average</b>					117,496,795			58,215,700	2.02
<b>Latest 3-Year Weighted Average</b>					76,561,643			34,348,222	2.23
<b>SELECTED - Based on Shaded PY</b>					133,304,490			70,204,820	<b>1.90</b>

Column (1) : from Exhibit 10    Column (10)  
 Column (2) : from Exhibit 2, Column (10)  
 Column (3) : Trend Indices appropriate for Workers Compensation - General Government (M  
 Column (4) : from Retention Analysis  
 Column (5) : Column (2) x Column (3) x Column (4)  
 Column (6) : supplied by Cook County, Illinois  
 Column (7) : Annual Exposure Trend  
 Column (8) : Column (6) x Column (7)  
 Column (9) : Column (5) / Column (8)

Renewal Projections (Losses and Claims developed to Ultimate)						
	(10)	(11)	(12)	(13)	(14)	(15)
<b>Policy Period Inception</b>		<b>Retention</b>	<b>Payroll (in 00s)</b>	<b>Claim Count</b>	<b>Loss Rate</b>	<b>Loss Amount</b>
1-Dec-23	Unlimited		12,231,964	1,335	1.90	23,200,000
1-Dec-24	Unlimited		12,629,995	1,335	1.97	24,900,000
1-Dec-25	Unlimited		13,008,895	1,335	2.05	26,700,000

Columns (11) - (15) : Projections. These are preliminary and should be monitored with actuarial updates.



**Cook County, Illinois  
Workers Compensation - General Government (Medical)**

Average : \$5,965      sigma = 2.192  
CV : 11.00              mu = 6.292

**Limitation of Incurred LDF's for Workers Compensation - General Government (Medical)**

Evaluation	(1) Incurred LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.003	1.000	9,500,000	4.460	2.268	1.000	0.988	5,934	9,524,122	4.461	2.269	1.000	0.988	5,934	1.003
264	1.003	1.000	9,500,000	4.460	2.268	1.000	0.988	5,934	9,528,884	4.461	2.269	1.000	0.988	5,934	1.003
252	1.004	1.000	9,500,000	4.460	2.268	1.000	0.988	5,934	9,533,649	4.461	2.270	1.000	0.988	5,934	1.004
240	1.004	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,004,043,760	6.586	4.394	1.000	1.000	5,965	1.004
228	1.005	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,005,047,804	6.587	4.395	1.000	1.000	5,965	1.005
216	1.006	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,006,052,851	6.587	4.395	1.000	1.000	5,965	1.006
204	1.007	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,007,058,904	6.588	4.396	1.000	1.000	5,965	1.007
192	1.008	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,008,065,963	6.588	4.396	1.000	1.000	5,965	1.008
180	1.009	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,009,074,029	6.588	4.397	1.000	1.000	5,965	1.009
168	1.010	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,010,083,103	6.589	4.397	1.000	1.000	5,965	1.010
156	1.011	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,011,093,186	6.589	4.398	1.000	1.000	5,965	1.011
144	1.012	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,012,104,279	6.590	4.398	1.000	1.000	5,965	1.012
132	1.013	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,013,116,384	6.590	4.398	1.000	1.000	5,965	1.013
120	1.016	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,016,155,733	6.592	4.400	1.000	1.000	5,965	1.016
108	1.019	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,019,204,200	6.593	4.401	1.000	1.000	5,965	1.019
96	1.022	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,022,261,813	6.594	4.403	1.000	1.000	5,965	1.022
84	1.027	1.001	999,999,999	6.584	4.393	1.000	1.000	5,965	1,026,346,775	6.596	4.404	1.000	1.000	5,965	1.027
72	1.036	1.002	999,999,999	6.584	4.393	1.000	1.000	5,965	1,033,524,025	6.599	4.408	1.000	1.000	5,965	1.036
60	1.049	1.003	999,999,999	6.584	4.393	1.000	1.000	5,965	1,046,092,101	6.605	4.413	1.000	1.000	5,965	1.049
48	1.065	1.004	999,999,999	6.584	4.393	1.000	1.000	5,965	1,060,722,760	6.611	4.419	1.000	1.000	5,965	1.065
36	1.079	1.007	999,999,999	6.584	4.393	1.000	1.000	5,965	1,071,159,857	6.616	4.424	1.000	1.000	5,965	1.079
24	1.170	1.013	999,999,999	6.584	4.393	1.000	1.000	5,965	1,155,069,787	6.650	4.458	1.000	1.000	5,965	1.170
12	1.567	1.033	999,999,999	6.584	4.393	1.000	1.000	5,965	1,516,951,990	6.774	4.583	1.000	1.000	5,965	1.567

**Column (1) : from Exhibit 9**  
**Column (2) : Unlimited claim count development factors**  
**Column (3) : Individual loss limitation**  
**Columns (4) through (8) : Factors and quantities used in fitting distribution curve**

**Column (9) : (1)/(2)x(3)**  
**Columns (10) through (14) : Factors and quantities used in fitting distribution curve**  
**Column (15) : Limited loss development factors based on fitted distribution curve**





**Cook County, Illinois  
Workers Compensation - General Government (Medical)**

Average : \$5,965      sigma = 2.192  
CV : 11.00            mu = 6.292

**Limitation of Paid LDF's for Workers Compensation - General Government (Medical)**

Evaluation	(1) Paid LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.020	1.000	9,500,000	4.460	2.268	1.000	0.988	5,934	9,692,375	4.469	2.277	1.000	0.989	5,935	1.020
264	1.020	1.000	9,500,000	4.460	2.268	1.000	0.988	5,934	9,692,375	4.469	2.277	1.000	0.989	5,935	1.020
252	1.020	1.000	9,500,000	4.460	2.268	1.000	0.988	5,934	9,692,375	4.469	2.277	1.000	0.989	5,935	1.020
240	1.020	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,020,249,999	6.593	4.402	1.000	1.000	5,965	1.020
228	1.020	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,020,249,999	6.593	4.402	1.000	1.000	5,965	1.020
216	1.020	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,020,249,999	6.593	4.402	1.000	1.000	5,965	1.020
204	1.021	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,021,270,249	6.594	4.402	1.000	1.000	5,965	1.021
192	1.022	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,022,291,519	6.594	4.403	1.000	1.000	5,965	1.022
180	1.023	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,023,313,811	6.595	4.403	1.000	1.000	5,965	1.023
168	1.024	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,024,337,125	6.595	4.404	1.000	1.000	5,965	1.024
156	1.026	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,026,385,799	6.596	4.404	1.000	1.000	5,965	1.026
144	1.029	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,029,464,956	6.598	4.406	1.000	1.000	5,965	1.029
132	1.033	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,032,553,351	6.599	4.407	1.000	1.000	5,965	1.033
120	1.041	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,040,813,778	6.603	4.411	1.000	1.000	5,965	1.041
108	1.050	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,050,181,102	6.607	4.415	1.000	1.000	5,965	1.050
96	1.061	1.000	999,999,999	6.584	4.393	1.000	1.000	5,965	1,060,682,913	6.611	4.419	1.000	1.000	5,965	1.061
84	1.076	1.001	999,999,999	6.584	4.393	1.000	1.000	5,965	1,075,079,582	6.617	4.426	1.000	1.000	5,965	1.076
72	1.111	1.002	999,999,999	6.584	4.393	1.000	1.000	5,965	1,109,256,116	6.632	4.440	1.000	1.000	5,965	1.111
60	1.139	1.003	999,999,999	6.584	4.393	1.000	1.000	5,965	1,135,301,617	6.642	4.450	1.000	1.000	5,965	1.139
48	1.190	1.004	999,999,999	6.584	4.393	1.000	1.000	5,965	1,184,969,544	6.662	4.470	1.000	1.000	5,965	1.190
36	1.309	1.007	999,999,999	6.584	4.393	1.000	1.000	5,965	1,299,821,309	6.704	4.512	1.000	1.000	5,965	1.309
24	1.644	1.013	999,999,999	6.584	4.393	1.000	1.000	5,965	1,623,159,436	6.805	4.614	1.000	1.000	5,965	1.644
12	4.375	1.033	999,999,999	6.584	4.393	1.000	1.000	5,965	4,234,616,142	7.243	5.051	1.000	1.000	5,965	4.375

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve



**Cook County, Illinois  
Workers Compensation - General Government (Medical)  
Projected Losses Paid 12/1/2023 to 11/30/2024**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/23	Percent Losses Paid	Months of Development 11/30/24	Percent Losses Paid	Estimated Outstanding Losses 11/30/23	Projected Losses Paid	Estimated Outstanding Losses 11/30/24	Discount Factor	Discounted Outstanding Losses 11/30/24
Prior	276	98.0%	288	98.5%	\$ 680,189	\$ 167,521	* \$ 512,668	0.866	\$ 444,096
1-Dec-01	264	98.0%	276	98.0%	\$ -	\$ -	* \$ -	0.866	\$ -
1-Dec-02	252	98.0%	264	98.0%	\$ 105,033	\$ -	* \$ 105,033	0.829	\$ 87,045
1-Dec-03	240	98.0%	252	98.0%	\$ 712,962	\$ -	* \$ 712,962	0.793	\$ 565,523
1-Dec-04	228	98.0%	240	98.0%	\$ 204,006	\$ -	* \$ 204,006	0.759	\$ 154,879
1-Dec-05	216	98.0%	228	98.0%	\$ 12,828	\$ -	* \$ 12,828	0.727	\$ 9,321
1-Dec-06	204	97.9%	216	98.0%	\$ 77,758	\$ 3,656	* \$ 74,102	0.695	\$ 51,536
1-Dec-07	192	97.8%	204	97.9%	\$ 118,651	\$ 5,323	* \$ 113,328	0.680	\$ 77,104
1-Dec-08	180	97.7%	192	97.8%	\$ 202,858	\$ 8,701	* \$ 194,157	0.666	\$ 129,284
1-Dec-09	168	97.6%	180	97.7%	\$ 354,873	\$ 14,582	* \$ 340,292	0.652	\$ 221,854
1-Dec-10	156	97.4%	168	97.6%	\$ 601,689	\$ 45,607	* \$ 556,082	0.639	\$ 355,092
1-Dec-11	144	97.1%	156	97.4%	\$ 189,162	\$ 19,260	* \$ 169,903	0.639	\$ 108,571
1-Dec-12	132	96.8%	144	97.1%	\$ 235,345	\$ 21,689	* \$ 213,656	0.649	\$ 138,656
1-Dec-13	120	96.1%	132	96.8%	\$ 785,610	\$ 153,989	* \$ 631,621	0.654	\$ 413,121
1-Dec-14	108	95.2%	120	96.1%	\$ 881,431	\$ 158,085	* \$ 723,346	0.695	\$ 502,791
1-Dec-15	96	94.3%	108	95.2%	\$ 1,033,697	\$ 170,344	* \$ 863,353	0.721	\$ 622,857
1-Dec-16	84	92.9%	96	94.3%	\$ 2,621,056	\$ 502,035	* \$ 2,119,021	0.738	\$ 1,563,716
1-Dec-17	72	90.0%	84	92.9%	\$ 2,706,201	\$ 676,550	* \$ 2,029,651	0.758	\$ 1,539,308
1-Dec-18	60	87.8%	72	90.0%	\$ 3,232,890	\$ 571,098	* \$ 2,661,792	0.800	\$ 2,130,021
1-Dec-19	48	84.1%	60	87.8%	\$ 9,463,781	\$ 2,234,417	* \$ 7,229,364	0.803	\$ 5,808,323
1-Dec-20	36	76.4%	48	84.1%	\$ 9,102,537	\$ 2,275,634	* \$ 6,826,903	0.818	\$ 5,587,225
1-Dec-21	24	60.8%	36	76.4%	\$ 16,096,816	\$ 4,024,204	* \$ 12,072,612	0.847	\$ 10,219,755
1-Dec-23	0	0.0%	12	22.9%	\$ 23,200,000	\$ 5,303,389	* \$ 17,896,611	0.908	\$ 16,246,879
<b>Total</b>					<b>\$ 72,619,373</b>	<b>\$ 16,356,084</b>	<b>\$ 56,263,289</b>		<b>\$ 46,976,959</b>

Column (3): 1 / Exhibit 9 Column (3)

Column (5): 1 / Rollforward Exhibit Column (54)

Column (6): From Executive Summary

Column (7): Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)

Column (9): Based on Column (3) and 4.48% Interest Rate

Column (10): Column (8) x Column (9)

\* - Limited to a maximum of 25% per actuarial judgement



**Cook County, Illinois  
Workers Compensation - General Government (Medical)  
Projected Losses Paid 12/1/2024 to 11/30/2025**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/24	Percent Losses Paid	Months of Development 11/30/25	Percent Losses Paid	Estimated Outstanding Losses 11/30/24	Projected Losses Paid	Estimated Outstanding Losses 11/30/25	Discount Factor	Discounted Outstanding Losses 11/30/25
Prior	288	98.5%	300	98.9%	\$ 512,668	\$ 126,734	\$ 385,935	0.867	\$ 334,441
1-Dec-01	276	98.0%	288	98.5%	\$ -	\$ -	\$ -	0.866	\$ -
1-Dec-02	264	98.0%	276	98.0%	\$ 105,033	\$ -	\$ 105,033	0.866	\$ 90,944
1-Dec-03	252	98.0%	264	98.0%	\$ 712,962	\$ -	\$ 712,962	0.829	\$ 590,859
1-Dec-04	240	98.0%	252	98.0%	\$ 204,006	\$ -	\$ 204,006	0.793	\$ 161,818
1-Dec-05	228	98.0%	240	98.0%	\$ 12,828	\$ -	\$ 12,828	0.759	\$ 9,739
1-Dec-06	216	98.0%	228	98.0%	\$ 74,102	\$ -	\$ 74,102	0.727	\$ 53,845
1-Dec-07	204	97.9%	216	98.0%	\$ 113,328	\$ 5,328	\$ 108,000	0.695	\$ 75,112
1-Dec-08	192	97.8%	204	97.9%	\$ 194,157	\$ 8,710	\$ 185,447	0.680	\$ 126,172
1-Dec-09	180	97.7%	192	97.8%	\$ 340,292	\$ 14,596	\$ 325,695	0.666	\$ 216,871
1-Dec-10	168	97.6%	180	97.7%	\$ 556,082	\$ 22,849	\$ 533,233	0.652	\$ 347,642
1-Dec-11	156	97.4%	168	97.6%	\$ 169,903	\$ 12,878	\$ 157,024	0.639	\$ 100,270
1-Dec-12	144	97.1%	156	97.4%	\$ 213,656	\$ 21,754	\$ 191,903	0.639	\$ 122,630
1-Dec-13	132	96.8%	144	97.1%	\$ 631,621	\$ 58,208	\$ 573,413	0.649	\$ 372,125
1-Dec-14	120	96.1%	132	96.8%	\$ 723,346	\$ 141,785	\$ 581,562	0.654	\$ 380,379
1-Dec-15	108	95.2%	120	96.1%	\$ 863,353	\$ 154,843	\$ 708,510	0.695	\$ 492,479
1-Dec-16	96	94.3%	108	95.2%	\$ 2,119,021	\$ 349,196	\$ 1,769,825	0.721	\$ 1,276,823
1-Dec-17	84	92.9%	96	94.3%	\$ 1,909,420	\$ 365,729	\$ 1,543,691	0.738	\$ 1,139,156
1-Dec-18	72	90.0%	84	92.9%	\$ 2,661,792	\$ 665,448	\$ 1,996,344	0.758	\$ 1,514,047
1-Dec-19	60	87.8%	72	90.0%	\$ 7,229,364	\$ 1,277,086	\$ 5,952,279	0.800	\$ 4,763,136
1-Dec-20	48	84.1%	60	87.8%	\$ 6,152,391	\$ 1,452,591	\$ 4,699,800	0.803	\$ 3,775,983
1-Dec-21	36	76.4%	48	84.1%	\$ 9,695,410	\$ 2,423,852	\$ 7,271,557	0.818	\$ 5,951,136
1-Dec-23	12	22.9%	24	60.8%	\$ 17,896,611	\$ 4,474,153	\$ 13,422,458	0.877	\$ 11,772,535
1-Dec-24	0	0.0%	12	22.9%	\$ 24,900,000	\$ 5,692,000	\$ 19,208,000	0.908	\$ 17,437,383
<b>Total</b>					<b>\$ 77,991,344</b>	<b>\$ 17,267,739</b>	<b>\$ 60,723,606</b>		<b>\$ 51,105,525</b>

Column (3): 1 / Rollforward Exhibit Column (54)  
 Column (5): 1 / Rollforward Exhibit 2 Column (54)  
 Column (6): Rollforward Exhibit Column (21) & Projection  
 Column (7): Rollforward Exhibit 2 Column (31) - Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)  
 \* - Limited to a maximum of 25% per actuarial judgement



**Cook County, Illinois  
Workers Compensation - General Government (Medical)  
Projected Losses Paid 12/1/2025 to 11/30/2026**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/25	Percent Losses Paid	Months of Development 11/30/26	Percent Losses Paid	Estimated Outstanding Losses 11/30/25	Projected Losses Paid	Estimated Outstanding Losses 11/30/26	Discount Factor	Discounted Outstanding Losses 11/30/26
Prior	300	98.9%	312	99.2%	\$ 385,935	\$ 95,672	\$ 290,262	0.867	\$ 251,622
1-Dec-01	288	98.5%	300	98.9%	\$ -	\$ -	\$ -	0.867	\$ -
1-Dec-02	276	98.0%	288	98.5%	\$ 105,033	\$ 25,868	\$ 79,165	0.866	\$ 68,576
1-Dec-03	264	98.0%	276	98.0%	\$ 712,962	\$ -	\$ 712,962	0.866	\$ 617,329
1-Dec-04	252	98.0%	264	98.0%	\$ 204,006	\$ -	\$ 204,006	0.829	\$ 169,067
1-Dec-05	240	98.0%	252	98.0%	\$ 12,828	\$ -	\$ 12,828	0.793	\$ 10,175
1-Dec-06	228	98.0%	240	98.0%	\$ 74,102	\$ -	\$ 74,102	0.759	\$ 56,258
1-Dec-07	216	98.0%	228	98.0%	\$ 108,000	\$ -	\$ 108,000	0.727	\$ 78,477
1-Dec-08	204	97.9%	216	98.0%	\$ 185,447	\$ 8,719	\$ 176,728	0.695	\$ 122,911
1-Dec-09	192	97.8%	204	97.9%	\$ 325,695	\$ 14,611	\$ 311,085	0.680	\$ 211,651
1-Dec-10	180	97.7%	192	97.8%	\$ 533,233	\$ 22,872	\$ 510,361	0.666	\$ 339,835
1-Dec-11	168	97.6%	180	97.7%	\$ 157,024	\$ 6,452	\$ 150,572	0.652	\$ 98,166
1-Dec-12	156	97.4%	168	97.6%	\$ 191,903	\$ 14,546	\$ 177,357	0.639	\$ 113,253
1-Dec-13	144	97.1%	156	97.4%	\$ 573,413	\$ 58,383	\$ 515,030	0.639	\$ 329,114
1-Dec-14	132	96.8%	144	97.1%	\$ 581,562	\$ 53,595	\$ 527,967	0.649	\$ 342,633
1-Dec-15	120	96.1%	132	96.8%	\$ 708,510	\$ 138,877	\$ 569,634	0.654	\$ 372,578
1-Dec-16	108	95.2%	120	96.1%	\$ 1,769,825	\$ 317,419	\$ 1,452,406	0.695	\$ 1,009,555
1-Dec-17	96	94.3%	108	95.2%	\$ 1,543,691	\$ 254,387	\$ 1,289,305	0.721	\$ 930,156
1-Dec-18	84	92.9%	96	94.3%	\$ 1,878,086	\$ 359,727	\$ 1,518,359	0.738	\$ 1,120,462
1-Dec-19	72	90.0%	84	92.9%	\$ 5,952,279	\$ 1,488,070	\$ 4,464,209	0.758	\$ 3,385,701
1-Dec-20	60	87.8%	72	90.0%	\$ 4,699,800	\$ 830,232	\$ 3,869,568	0.800	\$ 3,096,508
1-Dec-21	48	84.1%	60	87.8%	\$ 6,553,113	\$ 1,547,203	\$ 5,005,910	0.803	\$ 4,021,922
1-Dec-23	24	60.8%	36	76.4%	\$ 9,087,423	\$ 2,271,856	\$ 6,815,567	0.847	\$ 5,769,541
1-Dec-24	12	22.9%	24	60.8%	\$ 19,208,000	\$ 4,802,000	\$ 14,406,000	0.877	\$ 12,635,178
1-Dec-25	0	0.0%	12	22.9%	\$ 26,700,000	\$ 6,103,470	\$ 20,596,530	0.908	\$ 18,697,917
<b>Total</b>					<b>\$ 82,251,869</b>	<b>\$ 18,413,955</b>	<b>\$ 63,837,913</b>		<b>\$ 53,848,585</b>

Column (3): 1 / Rollforward Exhibit 2 Column (54)

Column (5): 1 / Rollforward Exhibit 3 Column (54)

Column (6): Rollforward Exhibit 2 Column (21) & Projection

Column (7): Rollforward Exhibit 3 Column (31) - Rollforward Exhibit 2 Column (31)

Column (8): Column (6) - Column (7)

Column (9): Based on Column (3) and 4.48% Interest Rate

Column (10): Column (8) x Column (9)

\* - Limited to a maximum of 25% per actuarial judgement



**Cook County, Illinois**  
**Workers Compensation - General Government (Medical)**  
**Large Claims**

All Claims greater than or equal to \$1,000,000

(1)	(2)	(3)	(4)	(5)
<u>Policy</u> <u>Period</u>	<u>Loss</u> <u>Date</u>	<u>Incurred</u> <u>Loss</u>	<u>Paid</u> <u>Loss</u>	<u>Case</u> <u>Reserves</u>
12/1/2003	4/14/2004	1,240,568	554,644	685,924
12/1/2004	2/5/2005	6,171,677	6,171,677	-
12/1/2004	2/5/2005	1,471,257	1,471,257	-

Cook County, Illinois
Workers' Compensation - General Government
Occurrence
Medical
Incurred Development Triangle
Data Unlimited (000s)
As of 11/30/2023

Table with columns for Policy Year and Age in Months (12 to 276). Rows show data from 12/1/2001 to 12/1/2022.

Table with columns for Policy Year and Age-to-Age (12-24 to 276-Ult). Rows show data from 12/1/2001 to 12/1/2022.

Averages table with columns for Policy Year and Age-to-Age. Rows include All Year Average, 3 Yr Average, 5 Yr Average, 3 Yr Wtd Average, 5 Yr Wtd Average, Avg X HI-Lo (3yr X 2), Avg X HI-Lo (5yr X 2), Prior, Industry, and Initial Selected.

Tail Factor Calculation table with columns for Policy Year and Age-to-Age. Rows include Inverse Power Curve Fit, Exponential Curve Fit, Weibull Curve Fit, Manual Entry, Selected Tail Method, Final Link Ratio, and Final CDF.

The County changed data systems during 2016, resulting in a shift between indemnity and medical. The amounts in the 2016 diagonal are not consistent with prior diagonals. Industry Factor Source: 2023 NCCI Medical Only

Cook County, Illinois  
Workers' Compensation - General Government  
Occurrence  
Medical  
Paid Development Triangle  
Data Unlimited (000s)  
As of 11/30/2023

Table with columns for Policy Year and Age in Months (12 to 276). Rows include Prior and various policy years from 12/1/2001 to 12/1/2022.

Table with columns for Policy Year and Age-to-Age (12-24 to 276-UI). Rows include Prior and various policy years from 12/1/2001 to 12/1/2022.

Table with columns for Averages (12-24 to 276-UI). Rows include All Year Average, 3 Yr Average, 5 Yr Average, 3 Yr Wtd Average, 5 Yr Wtd Average, Avg X Hi-Lo (3yr X 2), Avg X Hi-Lo (5yr X 2), Prior, Industry, and Initial Selected.

Table with columns for Tail Factor Calculation (12-24 to 276-UI). Rows include Inverse Power Curve Fit, Exponential Curve Fit, Weibull Curve Fit, Manual Entry, Selected Tail Method, Final Link Ratio, and Final CDF.

The County changed data systems during 2016, resulting in a shift between indemnity and medical. The amounts in the 2016 diagonal are not consistent with prior diagonals.  
Industry Factor Source: 2023 NCCI Medical Only

Cook County, Illinois  
 Workers' Compensation - General Government  
 Occurrence  
 Medical  
 Reported Claim Count Development Triangle  
 Data Unlimited  
 As of 11/30/2023

		Age in Months																										
Policy Year		12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276				
	Prior																											
12/1/2001						1,160	1,160	1,160	1,160	1,160	1,160	1,159	1,178	1,160	1,161	1,161	1,161	1,161	1,161	1,161	1,161	1,161	1,161	1,161	1,161	1,161		
12/1/2002					1,220	1,221	1,222	1,222	1,222	1,222	1,222	1,222	1,223	1,223	1,223	1,223	1,223	1,223	1,223	1,223	1,223	1,223	1,223	1,223	1,223	1,223		
12/1/2003				1,212	1,215	1,215	1,215	1,215	1,215	1,215	1,214	1,215	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218		
12/1/2004			1,312	1,313	1,315	1,315	1,316	1,316	1,316	1,316	1,316	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318		
12/1/2005	1,153	1,158	1,156	1,156	1,155	1,155	1,155	1,155	1,155	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159			
12/1/2006	875	890	892	896	897	897	896	902	902	903	903	903	903	903	903	903	903	903	903	903	903	903	903	903	903			
12/1/2007	756	767	767	767	768	768	776	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777	777			
12/1/2008	668	679	755	755	755	755	766	767	767	767	767	767	767	767	767	767	767	767	767	767	767	767	767	767	767			
12/1/2009	751	842	843	844	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862			
12/1/2010	768	773	776	788	788	788	788	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789			
12/1/2011	787	781	781	783	783	783	783	783	783	783	783	783	783	783	783	783	783	783	783	783	783	783	783	783	783			
12/1/2012	703	715	716	719	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720			
12/1/2013	730	752	756	759	760	760	760	760	760	760	760	761	761	761	761	761	761	761	761	761	761	761	761	761	761			
12/1/2014	762	768	771	777	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778			
12/1/2015	1,076	1,104	1,107	1,109	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108			
12/1/2016	1,149	1,234	1,238	1,239	1,239	1,239	1,239	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240	1,240			
12/1/2017	1,069	1,086	1,086	1,086	1,086	1,088	1,088	1,088	1,088	1,088	1,088	1,088	1,088	1,088	1,088	1,088	1,088	1,088	1,088	1,088	1,088	1,088	1,088	1,088	1,088			
12/1/2018	1,020	1,037	1,037	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038			
12/1/2019	1,172	1,204	1,210	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221			
12/1/2020	1,178	1,190	1,205	1,205	1,205	1,205	1,205	1,205	1,205	1,205	1,205	1,205	1,205	1,205	1,205	1,205	1,205	1,205	1,205	1,205	1,205	1,205	1,205	1,205	1,205			
12/1/2021	1,262	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281			
12/1/2022	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100			

		Age-to-Age																										
Policy Year		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	240-252	252-264	264-276	276-Ult				
	Prior																											
12/1/2001						1.000	1.000	1.000	1.000	1.000	1.000	0.999	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
12/1/2002					1.001	1.001	1.000	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	1.000	1.000			
12/1/2003				1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
12/1/2004			1.001	1.002	1.000	1.001	1.000	1.000	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
12/1/2005	1.004	0.998	1.000	0.999	1.000	1.000	1.001	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2006	1.017	1.002	1.004	1.001	1.000	0.999	1.007	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2007	1.015	1.000	1.000	1.001	1.000	1.010	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2008	1.016	1.112	1.000	1.000	1.015	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2009	1.121	1.001	1.001	1.021	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2010	1.007	1.004	1.015	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	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2011	1.005	1.026	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2012	1.017	1.001	1.004	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2013	1.030	1.005	1.004	1.001	1.000	1.000	1.000	1.000	1.000	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001				
12/1/2014	1.008	1.004	1.008	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2015	1.026	1.003	1.002	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2016	1.074	1.003	1.001	1.000	1.000	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001				
12/1/2017	1.016	1.000	1.000	1.000	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002				
12/1/2018	1.017	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	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2019	1.027	1.005	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009				
12/1/2020	1.010	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013				
12/1/2021	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015				
12/1/2022	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015				





**Cook County, Illinois  
General Liability Experience @ 11/30/23  
Losses Limited to Retentions**

Policy Period	Revenue (in 000s)	Retention	Reported Claims	Open Claims	Incurred	Paid	Case	Est IBNR	Total O/S	Ultimate	Ultimate Loss Rate
	(1)	(2)	(3)	(3a)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
							[(4)-(5)]		[(6)+(7)]	[(4)+(7)]	[(9)/(1)]

**Historical Experience**

Prior	-	Various	969	-	6,387,749	6,387,749	-	-	-	6,387,749	
1-Dec-01	1,057,079	9,500,000	107	-	264,864	264,864	-	-	-	264,864	0.25
1-Dec-02	1,086,728	9,500,000	74	-	431,980	431,980	-	-	-	431,980	0.40
1-Dec-03	1,199,434	Various	76	-	40,287	40,287	-	-	-	40,287	0.03
1-Dec-04	1,189,789	10,000,000	104	-	236,472	236,472	-	-	-	236,472	0.20
1-Dec-05	1,357,723	10,000,000	85	-	151,662	151,662	-	-	-	151,662	0.11
1-Dec-06	1,243,144	10,000,000	82	-	111,956	111,956	-	-	-	111,956	0.09
1-Dec-07	1,207,801	10,000,000	246	-	538,122	538,122	-	-	-	538,122	0.45
1-Dec-08	1,303,812	10,000,000	204	-	195,329	195,329	-	-	-	195,329	0.15
1-Dec-09	1,287,986	10,000,000	101	-	325,332	325,332	-	-	-	325,332	0.25
1-Dec-10	1,293,078	10,000,000	121	-	153,831	153,831	-	-	-	153,831	0.12
1-Dec-11	1,331,769	10,000,000	74	-	146,905	146,905	-	-	-	146,905	0.11
1-Dec-12	1,285,791	Various	120	-	369,930	369,930	-	-	-	369,930	0.29
1-Dec-13	1,362,902	15,000,000	291	-	259,375	259,375	-	-	-	259,375	0.19
1-Dec-14	1,509,150	15,000,000	104	-	373,224	373,224	-	-	-	373,224	0.25
1-Dec-15	1,699,156	15,000,000	85	1	258,465	158,465	100,000	3,535	103,535	262,000	0.15
1-Dec-16	1,753,287	15,000,000	108	4	474,398	459,497	14,901	2,602	17,503	477,000	0.27
1-Dec-17	1,675,248	Various	124	91	865,616	496,521	369,094	25,384	394,479	891,000	0.53
1-Dec-18	1,719,805	20,000,000	198	103	376,917	247,986	128,932	32,083	161,014	409,000	0.24
1-Dec-19	1,547,010	Various	68	7	795,336	45,200	750,136	91,664	841,800	887,000	0.57
1-Dec-20	1,881,172	30,000,000	86	5	3,398,913	93,913	3,305,000	453,087	3,758,087	3,852,000	2.05
1-Dec-21	1,979,429	30,000,000	88	20	309,785	49,566	260,219	329,215	589,434	639,000	0.32
1-Dec-22	1,944,279	30,000,000	71	1	72,312	22,312	50,000	640,688	690,688	713,000	0.37
<b>Total</b>	<b>31,915,572</b>		<b>3,586</b>	<b>232</b>	<b>16,538,759</b>	<b>11,560,476</b>	<b>4,978,283</b>	<b>1,578,258</b>	<b>6,556,540</b>	<b>18,117,017</b>	<b>0.37</b>

**Full Policy Period Projections**

1-Dec-23	1,953,331	30,000,000								820,000	0.42
1-Dec-24	1,974,501	30,000,000								849,000	0.43



**Cook County, Illinois  
General Liability**

**General Liability Experience @ 11/30/23  
Summary of Various Reserving Methods  
Losses Limited to Retentions**

(1) Policy Period Inception	(2) Chain Ladder			(5) Bornhuetter-Ferguson		(8) Generalized Cape Cod		(9) Freq/Sev	(10) Selected Ultimate
	Incurred	Paid	Outstanding	Incurred	Paid	Incurred	Paid		
Prior	\$ 6,387,749	\$ 6,387,749	\$ 6,387,749	N/A	N/A	N/A	N/A	\$ 6,387,749	\$ 6,387,749
1-Dec-01	\$ 264,864	\$ 264,864	\$ 264,864	\$ 264,864	\$ 264,864	\$ 264,864	\$ 264,864	\$ 264,864	\$ 264,864
1-Dec-02	\$ 431,980	\$ 431,980	\$ 431,980	\$ 431,980	\$ 431,980	\$ 431,980	\$ 431,980	\$ 431,980	\$ 431,980
1-Dec-03	\$ 40,287	\$ 40,287	\$ 40,287	\$ 40,287	\$ 40,287	\$ 40,287	\$ 40,287	\$ 40,287	\$ 40,287
1-Dec-04	\$ 236,472	\$ 236,472	\$ 236,472	\$ 236,472	\$ 236,472	\$ 236,472	\$ 236,472	\$ 236,472	\$ 236,472
1-Dec-05	\$ 151,662	\$ 151,662	\$ 151,662	\$ 151,662	\$ 151,662	\$ 151,662	\$ 151,662	\$ 151,662	\$ 151,662
1-Dec-06	\$ 111,956	\$ 111,956	\$ 111,956	\$ 111,956	\$ 111,956	\$ 111,956	\$ 111,956	\$ 111,956	\$ 111,956
1-Dec-07	\$ 538,122	\$ 538,122	\$ 538,122	\$ 538,122	\$ 538,122	\$ 538,122	\$ 538,122	\$ 538,122	\$ 538,122
1-Dec-08	\$ 195,329	\$ 195,329	\$ 195,329	\$ 195,329	\$ 195,329	\$ 195,329	\$ 195,329	\$ 195,329	\$ 195,329
1-Dec-09	\$ 325,332	\$ 325,332	\$ 325,332	\$ 325,332	\$ 325,332	\$ 325,332	\$ 325,332	\$ 325,332	\$ 325,332
1-Dec-10	\$ 153,831	\$ 153,831	\$ 153,831	\$ 153,831	\$ 153,831	\$ 153,831	\$ 153,831	\$ 153,831	\$ 153,831
1-Dec-11	\$ 146,905	\$ 146,905	\$ 146,905	\$ 146,905	\$ 146,905	\$ 146,905	\$ 146,905	\$ 146,905	\$ 146,905
1-Dec-12	\$ 369,930	\$ 369,930	\$ 369,930	\$ 369,930	\$ 369,930	\$ 369,930	\$ 369,930	\$ 369,930	\$ 369,930
1-Dec-13	\$ 259,375	\$ 259,375	\$ 259,375	\$ 259,375	\$ 259,375	\$ 259,375	\$ 259,375	\$ 259,375	\$ 259,375
1-Dec-14	\$ 373,224	\$ 373,224	\$ 373,224	\$ 373,224	\$ 373,224	\$ 373,224	\$ 373,224	\$ 373,224	\$ 373,224
1-Dec-15	\$ 258,465	\$ 158,935	\$ 258,465	\$ 258,465	\$ 160,268	\$ 258,465	\$ 159,449	\$ 258,465	\$ 262,000
1-Dec-16	\$ 474,868	\$ 463,144	\$ 476,539	\$ 475,034	\$ 464,563	\$ 475,032	\$ 462,307	\$ 474,868	\$ 477,000
1-Dec-17	\$ 869,056	\$ 506,362	\$ 960,014	\$ 868,101	\$ 508,724	\$ 868,447	\$ 503,171	\$ 869,056	\$ 891,000
1-Dec-18	\$ 384,071	\$ 261,906	\$ 446,481	\$ 389,033	\$ 282,558	\$ 392,301	\$ 265,327	\$ 384,071	\$ 409,000
1-Dec-19	\$ 842,738	\$ 59,151	\$ 1,030,252	\$ 828,552	\$ 184,479	\$ 845,129	\$ 109,285	\$ 842,738	\$ 887,000
1-Dec-20	\$ 3,909,671	\$ 208,082	\$ 4,431,764	\$ 3,495,144	\$ 498,069	\$ 3,570,714	\$ 273,874	\$ 3,901,867	\$ 3,852,000
1-Dec-21	\$ 487,650	\$ 241,727	\$ 530,402	\$ 600,513	\$ 683,209	\$ 788,649	\$ 328,460	\$ 485,706	\$ 639,000
1-Dec-22	\$ 255,764	\$ 393,738	\$ 230,956	\$ 647,468	\$ 778,740	\$ 984,434	\$ 355,774	\$ 325,951	\$ 713,000
Total	\$ 17,469,299	\$ 12,280,063	\$ 18,351,889	\$ 11,161,577	\$ 7,159,878	\$ 11,782,437	\$ 6,056,914	\$ 17,529,737	\$ 18,117,017

Column (2) : from Exhibit 3, Column (5)  
 Column (3) : from Exhibit 3, Column (8)  
 Column (4) : from Exhibit 3, Column (11)

Column (5) : from Exhibit 7, Column (11)  
 Column (6) : from Exhibit 8, Column (11)  
 Column (7) : from Exhibit 4, Column (11)  
 Column (8) : from Exhibit 5, Column (11)

Column (9) : from Exhibit 6, Column (11)  
 Column (10) : Ultimate



**Cook County, Illinois  
General Liability**

**General Liability Experience @ 11/30/23  
Unpaid Liabilities at Various Discount Rates  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.48%
Prior	276	Various	\$ 6,387,749	\$ 6,387,749	\$ 6,387,749	\$ -	\$ -	\$ -	\$ -
1-Dec-01	264	\$ 9,500,000	\$ 264,864	\$ 264,864	\$ 264,864	\$ -	\$ -	\$ -	\$ -
1-Dec-02	252	\$ 9,500,000	\$ 431,980	\$ 431,980	\$ 431,980	\$ -	\$ -	\$ -	\$ -
1-Dec-03	240	Various	\$ 40,287	\$ 40,287	\$ 40,287	\$ -	\$ -	\$ -	\$ -
1-Dec-04	228	\$ 10,000,000	\$ 236,472	\$ 236,472	\$ 236,472	\$ -	\$ -	\$ -	\$ -
1-Dec-05	216	\$ 10,000,000	\$ 151,662	\$ 151,662	\$ 151,662	\$ -	\$ -	\$ -	\$ -
1-Dec-06	204	\$ 10,000,000	\$ 111,956	\$ 111,956	\$ 111,956	\$ -	\$ -	\$ -	\$ -
1-Dec-07	192	\$ 10,000,000	\$ 538,122	\$ 538,122	\$ 538,122	\$ -	\$ -	\$ -	\$ -
1-Dec-08	180	\$ 10,000,000	\$ 195,329	\$ 195,329	\$ 195,329	\$ -	\$ -	\$ -	\$ -
1-Dec-09	168	\$ 10,000,000	\$ 325,332	\$ 325,332	\$ 325,332	\$ -	\$ -	\$ -	\$ -
1-Dec-10	156	\$ 10,000,000	\$ 153,831	\$ 153,831	\$ 153,831	\$ -	\$ -	\$ -	\$ -
1-Dec-11	144	\$ 10,000,000	\$ 146,905	\$ 146,905	\$ 146,905	\$ -	\$ -	\$ -	\$ -
1-Dec-12	132	Various	\$ 369,930	\$ 369,930	\$ 369,930	\$ -	\$ -	\$ -	\$ -
1-Dec-13	120	\$ 15,000,000	\$ 259,375	\$ 259,375	\$ 259,375	\$ -	\$ -	\$ -	\$ -
1-Dec-14	108	\$ 15,000,000	\$ 373,224	\$ 373,224	\$ 373,224	\$ -	\$ -	\$ -	\$ -
1-Dec-15	96	\$ 15,000,000	\$ 262,000	\$ 258,465	\$ 158,465	\$ 100,000	\$ 3,535	\$ 103,535	\$ 101,291
1-Dec-16	84	\$ 15,000,000	\$ 477,000	\$ 474,398	\$ 459,497	\$ 14,901	\$ 2,602	\$ 17,503	\$ 16,847
1-Dec-17	72	Various	\$ 891,000	\$ 865,616	\$ 496,521	\$ 369,094	\$ 25,384	\$ 394,479	\$ 376,787
1-Dec-18	60	\$ 20,000,000	\$ 409,000	\$ 376,917	\$ 247,986	\$ 128,932	\$ 32,083	\$ 161,014	\$ 153,749
1-Dec-19	48	Various	\$ 887,000	\$ 795,336	\$ 45,200	\$ 750,136	\$ 91,664	\$ 841,800	\$ 811,309
1-Dec-20	36	\$ 30,000,000	\$ 3,852,000	\$ 3,398,913	\$ 93,913	\$ 3,305,000	\$ 453,087	\$ 3,758,087	\$ 3,586,372
1-Dec-21	24	\$ 30,000,000	\$ 639,000	\$ 309,785	\$ 49,566	\$ 260,219	\$ 329,215	\$ 589,434	\$ 550,241
1-Dec-22	12	\$ 30,000,000	\$ 713,000	\$ 72,312	\$ 22,312	\$ 50,000	\$ 640,688	\$ 690,688	\$ 626,333
<b>Total</b>			<b>\$ 18,117,017</b>	<b>\$ 16,538,759</b>	<b>\$ 11,560,476</b>	<b>\$ 4,978,283</b>	<b>\$ 1,578,258</b>	<b>\$ 6,556,540</b>	<b>\$ 6,222,929</b>

Column (4) : from Exhibit 1, Column (10)  
Columns (5), (6), (7) : Exhibit 10

Column (8) : Column (4) - Column (5)  
Column (9) : Column (4) - Column (6)  
Column (9) : Column (10) discounted



**Cook County, Illinois  
General Liability**

**General Liability Experience @ 11/30/23  
Incurred, Paid, & Outstanding "Chain Ladder" Methods  
Losses Limited to Retentions**

(1)	(2)	(3)			(4)			(5)			(6)			(7)			(8)			(9)			(10)			(11)		
Policy Period Inception	Evaluation in Months	Incurred Chain-Ladder			Paid Chain-Ladder			Outstanding Chain-Ladder			Case Reserves	Outstanding LDF	Ultimate Loss	Paid Loss	Paid LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss			
		Incurred Loss	Incurred LDF	Ultimate Loss	Paid Loss	Paid LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss																		
Prior	276	\$ 6,387,749	1.000	\$ 6,387,749	\$ 6,387,749	1.000	\$ 6,387,749	\$ -	1.000	\$ 6,387,749	\$ -	1.000	\$ 6,387,749	\$ -	1.000	\$ 6,387,749	\$ -	1.000	\$ -	1.000	\$ 6,387,749	\$ -	1.000	\$ 6,387,749				
1-Dec-01	264	\$ 264,864	1.000	\$ 264,864	\$ 264,864	1.000	\$ 264,864	\$ -	1.000	\$ 264,864	\$ -	1.000	\$ 264,864	\$ -	1.000	\$ 264,864	\$ -	1.000	\$ -	1.000	\$ 264,864	\$ -	1.000	\$ 264,864				
1-Dec-02	252	\$ 431,980	1.000	\$ 431,980	\$ 431,980	1.000	\$ 431,980	\$ -	1.000	\$ 431,980	\$ -	1.000	\$ 431,980	\$ -	1.000	\$ 431,980	\$ -	1.000	\$ -	1.000	\$ 431,980	\$ -	1.000	\$ 431,980				
1-Dec-03	240	\$ 40,287	1.000	\$ 40,287	\$ 40,287	1.000	\$ 40,287	\$ -	1.000	\$ 40,287	\$ -	1.000	\$ 40,287	\$ -	1.000	\$ 40,287	\$ -	1.000	\$ -	1.000	\$ 40,287	\$ -	1.000	\$ 40,287				
1-Dec-04	228	\$ 236,472	1.000	\$ 236,472	\$ 236,472	1.000	\$ 236,472	\$ -	1.000	\$ 236,472	\$ -	1.000	\$ 236,472	\$ -	1.000	\$ 236,472	\$ -	1.000	\$ -	1.000	\$ 236,472	\$ -	1.000	\$ 236,472				
1-Dec-05	216	\$ 151,662	1.000	\$ 151,662	\$ 151,662	1.000	\$ 151,662	\$ -	1.000	\$ 151,662	\$ -	1.000	\$ 151,662	\$ -	1.000	\$ 151,662	\$ -	1.000	\$ -	1.000	\$ 151,662	\$ -	1.000	\$ 151,662				
1-Dec-06	204	\$ 111,956	1.000	\$ 111,956	\$ 111,956	1.000	\$ 111,956	\$ -	1.000	\$ 111,956	\$ -	1.000	\$ 111,956	\$ -	1.000	\$ 111,956	\$ -	1.000	\$ -	1.000	\$ 111,956	\$ -	1.000	\$ 111,956				
1-Dec-07	192	\$ 538,122	1.000	\$ 538,122	\$ 538,122	1.000	\$ 538,122	\$ -	1.000	\$ 538,122	\$ -	1.000	\$ 538,122	\$ -	1.000	\$ 538,122	\$ -	1.000	\$ -	1.000	\$ 538,122	\$ -	1.000	\$ 538,122				
1-Dec-08	180	\$ 195,329	1.000	\$ 195,329	\$ 195,329	1.000	\$ 195,329	\$ -	1.000	\$ 195,329	\$ -	1.000	\$ 195,329	\$ -	1.000	\$ 195,329	\$ -	1.000	\$ -	1.000	\$ 195,329	\$ -	1.000	\$ 195,329				
1-Dec-09	168	\$ 325,332	1.000	\$ 325,332	\$ 325,332	1.000	\$ 325,332	\$ -	1.000	\$ 325,332	\$ -	1.000	\$ 325,332	\$ -	1.000	\$ 325,332	\$ -	1.000	\$ -	1.000	\$ 325,332	\$ -	1.000	\$ 325,332				
1-Dec-10	156	\$ 153,831	1.000	\$ 153,831	\$ 153,831	1.000	\$ 153,831	\$ -	1.000	\$ 153,831	\$ -	1.000	\$ 153,831	\$ -	1.000	\$ 153,831	\$ -	1.000	\$ -	1.000	\$ 153,831	\$ -	1.000	\$ 153,831				
1-Dec-11	144	\$ 146,905	1.000	\$ 146,905	\$ 146,905	1.000	\$ 146,905	\$ -	1.000	\$ 146,905	\$ -	1.000	\$ 146,905	\$ -	1.000	\$ 146,905	\$ -	1.000	\$ -	1.000	\$ 146,905	\$ -	1.000	\$ 146,905				
1-Dec-12	132	\$ 369,930	1.000	\$ 369,930	\$ 369,930	1.000	\$ 369,930	\$ -	1.000	\$ 369,930	\$ -	1.000	\$ 369,930	\$ -	1.000	\$ 369,930	\$ -	1.000	\$ -	1.000	\$ 369,930	\$ -	1.000	\$ 369,930				
1-Dec-13	120	\$ 259,375	1.000	\$ 259,375	\$ 259,375	1.000	\$ 259,375	\$ -	1.000	\$ 259,375	\$ -	1.000	\$ 259,375	\$ -	1.000	\$ 259,375	\$ -	1.000	\$ -	1.000	\$ 259,375	\$ -	1.000	\$ 259,375				
1-Dec-14	108	\$ 373,224	1.000	\$ 373,224	\$ 373,224	1.000	\$ 373,224	\$ -	1.000	\$ 373,224	\$ -	1.000	\$ 373,224	\$ -	1.000	\$ 373,224	\$ -	1.000	\$ -	1.000	\$ 373,224	\$ -	1.000	\$ 373,224				
1-Dec-15	96	\$ 258,465	1.000	\$ 258,465	\$ 158,465	1.003	\$ 158,935	\$ 100,000	1.000	\$ 258,465	\$ 100,000	1.000	\$ 258,465	\$ -	1.003	\$ 158,935	\$ 100,000	1.000	\$ -	1.000	\$ 258,465	\$ 100,000	1.000	\$ 258,465				
1-Dec-16	84	\$ 474,398	1.001	\$ 474,868	\$ 459,497	1.008	\$ 463,144	\$ 14,901	1.144	\$ 474,398	\$ 14,901	1.144	\$ 476,539	\$ -	1.008	\$ 459,497	\$ 14,901	1.144	\$ -	1.144	\$ 474,398	\$ 14,901	1.144	\$ 476,539				
1-Dec-17	72	\$ 865,616	1.004	\$ 869,056	\$ 496,521	1.020	\$ 506,362	\$ 369,094	1.256	\$ 865,616	\$ 369,094	1.256	\$ 960,014	\$ -	1.020	\$ 496,521	\$ 369,094	1.256	\$ -	1.256	\$ 865,616	\$ 369,094	1.256	\$ 960,014				
1-Dec-18	60	\$ 376,917	1.019	\$ 384,071	\$ 247,986	1.056	\$ 261,906	\$ 128,932	1.540	\$ 376,917	\$ 128,932	1.540	\$ 446,481	\$ -	1.056	\$ 247,986	\$ 128,932	1.540	\$ -	1.540	\$ 376,917	\$ 128,932	1.540	\$ 446,481				
1-Dec-19	48	\$ 795,336	1.060	\$ 842,738	\$ 45,200	1.309	\$ 59,151	\$ 750,136	1.313	\$ 795,336	\$ 750,136	1.313	\$ 1,030,252	\$ -	1.309	\$ 45,200	\$ 750,136	1.313	\$ -	1.313	\$ 795,336	\$ 750,136	1.313	\$ 1,030,252				
1-Dec-20	36	\$ 3,398,913	1.150	\$ 3,909,671	\$ 93,913	2.216	\$ 208,082	\$ 3,305,000	1.313	\$ 3,398,913	\$ 3,305,000	1.313	\$ 4,431,764	\$ -	2.216	\$ 93,913	\$ 3,305,000	1.313	\$ -	1.313	\$ 3,398,913	\$ 3,305,000	1.313	\$ 4,431,764				
1-Dec-21	24	\$ 309,785	1.574	\$ 487,650	\$ 49,566	4.877	\$ 241,727	\$ 260,219	1.848	\$ 309,785	\$ 260,219	1.848	\$ 530,402	\$ -	4.877	\$ 49,566	\$ 260,219	1.848	\$ -	1.848	\$ 309,785	\$ 260,219	1.848	\$ 530,402				
1-Dec-22	12	\$ 72,312	3.537	\$ 255,764	\$ 22,312	17.647	\$ 393,738	\$ 50,000	4.173	\$ 72,312	\$ 50,000	4.173	\$ 230,956	\$ -	17.647	\$ 22,312	\$ 50,000	4.173	\$ -	4.173	\$ 72,312	\$ 50,000	4.173	\$ 230,956				
Total		\$ 16,538,759		\$ 17,469,299	\$ 11,560,476		\$ 12,280,063	\$ 4,978,283		\$ 16,538,759	\$ 4,978,283		\$ 18,351,889			\$ 11,560,476	\$ 12,280,063		\$ 4,978,283		\$ 18,351,889			\$ 18,351,889				

Columns (3), (6), (9) : Exhibit 10  
 Column (4) & (7) : from Exhibit 9  
 Column (5) : Column (3) X Column (4)

Column (8) : Column (6) X Column (7)  
 Column (10) : Outstanding LDF = (Incurred LDF - 1) X Paid LDF / (Paid LDF - Incurred LDF) + 1  
 Column (11) : Column (9) X Column (10) + Column (6)



**Cook County, Illinois  
General Liability**

**General Liability Experience @ 11/30/23  
Generalized Cape Cod Incurred Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Incurred Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Incurred Loss	Trended Revenue (in 000s)	Incurred LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 264,864	1.966	1.000	\$ 520,928	1,302,735	1.000	0.33	\$ 215,426	\$ 264,864
1-Dec-02	252	\$ 431,980	1.883	1.000	\$ 813,829	1,326,015	1.000	0.32	\$ 222,978	\$ 431,980
1-Dec-03	240	\$ 40,287	1.816	1.000	\$ 73,188	1,450,249	1.000	0.28	\$ 223,883	\$ 40,287
1-Dec-04	228	\$ 236,472	1.742	1.000	\$ 412,075	1,423,163	1.000	0.27	\$ 224,143	\$ 236,472
1-Dec-05	216	\$ 151,662	1.679	1.000	\$ 254,675	1,607,957	1.000	0.27	\$ 256,506	\$ 151,662
1-Dec-06	204	\$ 111,956	1.617	1.000	\$ 181,090	1,457,684	1.000	0.27	\$ 246,110	\$ 111,956
1-Dec-07	192	\$ 538,122	1.556	1.000	\$ 837,355	1,403,382	1.000	0.29	\$ 262,751	\$ 538,122
1-Dec-08	180	\$ 195,329	1.523	1.000	\$ 297,636	1,498,699	1.000	0.28	\$ 278,241	\$ 195,329
1-Dec-09	168	\$ 325,332	1.478	1.000	\$ 481,051	1,465,848	1.000	0.28	\$ 279,816	\$ 325,332
1-Dec-10	156	\$ 153,831	1.425	1.000	\$ 219,234	1,457,073	1.000	0.28	\$ 283,944	\$ 153,831
1-Dec-11	144	\$ 146,905	1.381	1.000	\$ 202,880	1,487,045	1.000	0.28	\$ 305,767	\$ 146,905
1-Dec-12	132	\$ 369,930	1.333	1.000	\$ 493,254	1,420,314	1.000	0.30	\$ 322,279	\$ 369,930
1-Dec-13	120	\$ 259,375	1.295	1.000	\$ 336,070	1,490,586	1.000	0.32	\$ 364,850	\$ 259,375
1-Dec-14	108	\$ 373,224	1.264	1.000	\$ 471,751	1,634,193	1.000	0.34	\$ 438,250	\$ 373,224
1-Dec-15	96	\$ 258,465	1.235	1.000	\$ 319,244	1,823,237	1.000	0.36	\$ 538,746	\$ 258,465
1-Dec-16	84	\$ 474,398	1.193	1.000	\$ 566,054	1,861,149	1.001	0.41	\$ 640,401	\$ 475,032
1-Dec-17	72	\$ 865,616	1.156	1.000	\$ 1,001,083	1,760,702	1.004	0.47	\$ 715,230	\$ 868,447
1-Dec-18	60	\$ 376,917	1.135	1.000	\$ 427,707	1,789,636	1.019	0.52	\$ 825,897	\$ 392,301
1-Dec-19	48	\$ 795,336	1.114	1.000	\$ 886,076	1,595,208	1.060	0.62	\$ 885,243	\$ 845,129
1-Dec-20	36	\$ 3,398,913	1.074	1.000	\$ 3,651,898	1,918,983	1.150	0.74	\$ 1,315,074	\$ 3,570,714
1-Dec-21	24	\$ 309,785	1.034	1.000	\$ 320,451	1,999,224	1.574	0.68	\$ 1,312,892	\$ 788,649
1-Dec-22	12	\$ 72,312	1.000	1.000	\$ 72,312	1,944,279	3.537	0.65	\$ 1,271,656	\$ 984,434
Total		\$ 10,151,010			\$ 12,839,841	35,117,362			\$ 11,430,084	\$ 11,782,437

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (General Liability)

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
General Liability**

**General Liability Experience @ 11/30/23  
Generalized Cape Cod Paid Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Paid Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Paid Loss	Trended Revenue (in 000s)	Paid LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 264,864	1.966	1.000	\$ 520,928	1,302,735	1.000	0.32	\$ 212,432	\$ 264,864
1-Dec-02	252	\$ 431,980	1.883	1.000	\$ 813,829	1,326,015	1.000	0.31	\$ 219,424	\$ 431,980
1-Dec-03	240	\$ 40,287	1.816	1.000	\$ 73,188	1,450,249	1.000	0.27	\$ 219,074	\$ 40,287
1-Dec-04	228	\$ 236,472	1.742	1.000	\$ 412,075	1,423,163	1.000	0.27	\$ 218,108	\$ 236,472
1-Dec-05	216	\$ 151,662	1.679	1.000	\$ 254,675	1,607,957	1.000	0.26	\$ 247,628	\$ 151,662
1-Dec-06	204	\$ 111,956	1.617	1.000	\$ 181,090	1,457,684	1.000	0.26	\$ 235,403	\$ 111,956
1-Dec-07	192	\$ 538,122	1.556	1.000	\$ 837,355	1,403,382	1.000	0.28	\$ 248,944	\$ 538,122
1-Dec-08	180	\$ 195,329	1.523	1.000	\$ 297,636	1,498,699	1.000	0.26	\$ 258,556	\$ 195,329
1-Dec-09	168	\$ 325,332	1.478	1.000	\$ 481,051	1,465,848	1.000	0.26	\$ 253,754	\$ 325,332
1-Dec-10	156	\$ 153,831	1.425	1.000	\$ 219,234	1,457,073	1.000	0.24	\$ 248,437	\$ 153,831
1-Dec-11	144	\$ 146,905	1.381	1.000	\$ 202,880	1,487,045	1.000	0.24	\$ 256,436	\$ 146,905
1-Dec-12	132	\$ 369,930	1.333	1.000	\$ 493,254	1,420,314	1.000	0.24	\$ 257,969	\$ 369,930
1-Dec-13	120	\$ 259,375	1.295	1.000	\$ 336,070	1,490,586	1.000	0.24	\$ 273,247	\$ 259,375
1-Dec-14	108	\$ 373,224	1.264	1.000	\$ 471,751	1,634,193	1.000	0.23	\$ 302,452	\$ 373,224
1-Dec-15	96	\$ 158,465	1.235	1.000	\$ 195,728	1,823,237	1.003	0.23	\$ 332,295	\$ 159,449
1-Dec-16	84	\$ 459,497	1.193	1.000	\$ 548,274	1,861,149	1.008	0.23	\$ 356,835	\$ 462,307
1-Dec-17	72	\$ 496,521	1.156	1.000	\$ 574,226	1,760,702	1.020	0.22	\$ 342,140	\$ 503,171
1-Dec-18	60	\$ 247,986	1.135	1.000	\$ 281,402	1,789,636	1.056	0.21	\$ 326,269	\$ 265,327
1-Dec-19	48	\$ 45,200	1.114	1.000	\$ 50,357	1,595,208	1.309	0.19	\$ 271,711	\$ 109,285
1-Dec-20	36	\$ 93,913	1.074	1.000	\$ 100,904	1,918,983	2.216	0.18	\$ 327,993	\$ 273,874
1-Dec-21	24	\$ 49,566	1.034	1.000	\$ 51,272	1,999,224	4.877	0.18	\$ 350,831	\$ 328,460
1-Dec-22	12	\$ 22,312	1.000	1.000	\$ 22,312	1,944,279	17.647	0.18	\$ 353,494	\$ 355,774
Total		\$ 5,172,727			\$ 7,419,491	35,117,362			\$ 6,113,430	\$ 6,056,914

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (General Liability)

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
General Liability**

**General Liability Experience @ 11/30/23  
Frequency & Severity Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Reported Claims	Claim CDF	Ultimate Claims	Severity LDF	Reported Severity	Ultimate Reported Severity	Unreported Claims	Ultimate Unreported Severity	Ultimate Loss
Prior	276	969	1.000	969	1.000	\$ 6,592	\$ 6,592	0	\$ 5,526	\$ 6,387,749
1-Dec-01	264	107	1.000	107	1.000	\$ 2,475	\$ 2,475	0	\$ 5,124	\$ 264,864
1-Dec-02	252	74	1.000	74	1.000	\$ 5,838	\$ 5,838	0	\$ 4,816	\$ 431,980
1-Dec-03	240	76	1.000	76	1.000	\$ 530	\$ 530	0	\$ 4,297	\$ 40,287
1-Dec-04	228	104	1.000	104	1.000	\$ 2,274	\$ 2,274	0	\$ 3,868	\$ 236,472
1-Dec-05	216	85	1.000	85	1.000	\$ 1,784	\$ 1,784	0	\$ 3,461	\$ 151,662
1-Dec-06	204	82	1.000	82	1.000	\$ 1,365	\$ 1,365	0	\$ 3,117	\$ 111,956
1-Dec-07	192	246	1.000	246	1.000	\$ 2,187	\$ 2,187	0	\$ 2,866	\$ 538,122
1-Dec-08	180	204	1.000	204	1.000	\$ 957	\$ 957	0	\$ 2,661	\$ 195,329
1-Dec-09	168	101	1.000	101	1.000	\$ 3,221	\$ 3,221	0	\$ 2,672	\$ 325,332
1-Dec-10	156	121	1.000	121	1.000	\$ 1,271	\$ 1,271	0	\$ 2,659	\$ 153,831
1-Dec-11	144	74	1.000	74	1.000	\$ 1,985	\$ 1,985	0	\$ 2,732	\$ 146,905
1-Dec-12	132	120	1.000	120	1.000	\$ 3,083	\$ 3,083	0	\$ 2,853	\$ 369,930
1-Dec-13	120	291	1.000	291	1.000	\$ 891	\$ 891	0	\$ 2,942	\$ 259,375
1-Dec-14	108	104	1.000	104	1.000	\$ 3,589	\$ 3,589	0	\$ 3,431	\$ 373,224
1-Dec-15	96	85	1.000	85	1.000	\$ 3,041	\$ 3,041	0	\$ 3,989	\$ 258,465
1-Dec-16	84	108	1.000	108	1.001	\$ 4,393	\$ 4,397	0	\$ 4,748	\$ 474,868
1-Dec-17	72	124	1.000	124	1.004	\$ 6,981	\$ 7,009	0	\$ 5,634	\$ 869,056
1-Dec-18	60	198	1.000	198	1.019	\$ 1,904	\$ 1,940	0	\$ 6,436	\$ 384,071
1-Dec-19	48	68	1.000	68	1.060	\$ 11,696	\$ 12,393	0	\$ 8,321	\$ 842,738
1-Dec-20	36	86	1.002	86	1.148	\$ 39,522	\$ 45,371	0	\$ 10,852	\$ 3,901,867
1-Dec-21	24	88	1.004	88	1.568	\$ 3,520	\$ 5,519	0	\$ 10,776	\$ 485,706
1-Dec-22	12	71	1.122	80	3.151	\$ 1,018	\$ 3,209	9	\$ 10,899	\$ 325,951
Total		3,586		3,595				9		\$ 17,529,737

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (6) : from {Exhibit 3, Column (4)} / Column (4)

Column (7) : from {Exhibit 3, Column (3)} / Column (3)

Column (8) : Column (6) X Column (7)

Column (9) : Column (5) - Column (3)

Column (10) : Weighted Average of Column (8) adjusted for Trend and Retention

Column (11) : Column (3) X Column (8) + Column (9) X Column (10)



**Cook County, Illinois  
General Liability**

**General Liability Experience @ 11/30/23  
Incurred Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Incurred Losses	Incurred LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	IBNR Factor	IBNR	Expected Ultimate Loss
1-Dec-01	\$ 9,500,000	\$ 264,864	1.000	0.26	1.000	0.26	\$ 273,178	0.000	\$ -	\$ 264,864
1-Dec-02	\$ 9,500,000	\$ 431,980	1.000	0.27	1.000	0.27	\$ 290,284	0.000	\$ -	\$ 431,980
1-Dec-03	Various	\$ 40,287	1.000	0.27	1.000	0.27	\$ 329,238	0.000	\$ -	\$ 40,287
1-Dec-04	\$ 10,000,000	\$ 236,472	1.000	0.28	1.000	0.28	\$ 336,823	0.000	\$ -	\$ 236,472
1-Dec-05	\$ 10,000,000	\$ 151,662	1.000	0.29	1.000	0.29	\$ 394,919	0.000	\$ -	\$ 151,662
1-Dec-06	\$ 10,000,000	\$ 111,956	1.000	0.30	1.000	0.30	\$ 371,670	0.000	\$ -	\$ 111,956
1-Dec-07	\$ 10,000,000	\$ 538,122	1.000	0.31	1.000	0.31	\$ 371,955	0.000	\$ -	\$ 538,122
1-Dec-08	\$ 10,000,000	\$ 195,329	1.000	0.31	1.000	0.31	\$ 405,639	0.000	\$ -	\$ 195,329
1-Dec-09	\$ 10,000,000	\$ 325,332	1.000	0.32	1.000	0.32	\$ 408,855	0.000	\$ -	\$ 325,332
1-Dec-10	\$ 10,000,000	\$ 153,831	1.000	0.33	1.000	0.33	\$ 421,660	0.000	\$ -	\$ 153,831
1-Dec-11	\$ 10,000,000	\$ 146,905	1.000	0.33	1.000	0.33	\$ 444,084	0.000	\$ -	\$ 146,905
1-Dec-12	Various	\$ 369,930	1.000	0.34	1.000	0.34	\$ 439,316	0.000	\$ -	\$ 369,930
1-Dec-13	\$ 15,000,000	\$ 259,375	1.000	0.35	1.000	0.35	\$ 474,459	0.000	\$ -	\$ 259,375
1-Dec-14	\$ 15,000,000	\$ 373,224	1.000	0.35	1.000	0.35	\$ 533,217	0.000	\$ -	\$ 373,224
1-Dec-15	\$ 15,000,000	\$ 258,465	1.000	0.36	1.000	0.36	\$ 608,787	0.000	\$ -	\$ 258,465
1-Dec-16	\$ 15,000,000	\$ 474,398	1.001	0.37	1.000	0.37	\$ 643,295	0.001	\$ 636	\$ 475,034
1-Dec-17	Various	\$ 865,616	1.004	0.37	1.000	0.37	\$ 627,892	0.004	\$ 2,485	\$ 868,101
1-Dec-18	\$ 20,000,000	\$ 376,917	1.019	0.38	1.000	0.38	\$ 650,442	0.019	\$ 12,116	\$ 389,033
1-Dec-19	Various	\$ 795,336	1.060	0.38	1.000	0.38	\$ 590,529	0.056	\$ 33,215	\$ 828,552
1-Dec-20	\$ 30,000,000	\$ 3,398,913	1.150	0.39	1.000	0.39	\$ 736,608	0.131	\$ 96,230	\$ 3,495,144
1-Dec-21	\$ 30,000,000	\$ 309,785	1.574	0.40	1.000	0.40	\$ 797,083	0.365	\$ 290,728	\$ 600,513
1-Dec-22	\$ 30,000,000	\$ 72,312	3.537	0.41	1.000	0.41	\$ 801,867	0.717	\$ 575,156	\$ 647,468
Total		\$ 10,151,010					\$ 10,951,801		\$ 1,010,567	\$ 11,161,577

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Revenue) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)





**Cook County, Illinois  
General Liability**

**General Liability Experience @ 11/30/23  
Paid Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Paid Losses	Paid LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	Unpaid Factor	Unpaid	Expected Ultimate Loss
1-Dec-01	\$ 9,500,000	\$ 264,864	1.000	0.26	1.000	0.26	\$ 273,178	0.000	\$ -	\$ 264,864
1-Dec-02	\$ 9,500,000	\$ 431,980	1.000	0.27	1.000	0.27	\$ 290,284	0.000	\$ -	\$ 431,980
1-Dec-03	Various	\$ 40,287	1.000	0.27	1.000	0.27	\$ 329,238	0.000	\$ -	\$ 40,287
1-Dec-04	\$ 10,000,000	\$ 236,472	1.000	0.28	1.000	0.28	\$ 336,823	0.000	\$ -	\$ 236,472
1-Dec-05	\$ 10,000,000	\$ 151,662	1.000	0.29	1.000	0.29	\$ 394,919	0.000	\$ -	\$ 151,662
1-Dec-06	\$ 10,000,000	\$ 111,956	1.000	0.30	1.000	0.30	\$ 371,670	0.000	\$ -	\$ 111,956
1-Dec-07	\$ 10,000,000	\$ 538,122	1.000	0.31	1.000	0.31	\$ 371,955	0.000	\$ -	\$ 538,122
1-Dec-08	\$ 10,000,000	\$ 195,329	1.000	0.31	1.000	0.31	\$ 405,639	0.000	\$ -	\$ 195,329
1-Dec-09	\$ 10,000,000	\$ 325,332	1.000	0.32	1.000	0.32	\$ 408,855	0.000	\$ -	\$ 325,332
1-Dec-10	\$ 10,000,000	\$ 153,831	1.000	0.33	1.000	0.33	\$ 421,660	0.000	\$ -	\$ 153,831
1-Dec-11	\$ 10,000,000	\$ 146,905	1.000	0.33	1.000	0.33	\$ 444,084	0.000	\$ -	\$ 146,905
1-Dec-12	Various	\$ 369,930	1.000	0.34	1.000	0.34	\$ 439,316	0.000	\$ -	\$ 369,930
1-Dec-13	\$ 15,000,000	\$ 259,375	1.000	0.35	1.000	0.35	\$ 474,459	0.000	\$ -	\$ 259,375
1-Dec-14	\$ 15,000,000	\$ 373,224	1.000	0.35	1.000	0.35	\$ 533,217	0.000	\$ -	\$ 373,224
1-Dec-15	\$ 15,000,000	\$ 158,465	1.003	0.36	1.000	0.36	\$ 608,787	0.003	\$ 1,803	\$ 160,268
1-Dec-16	\$ 15,000,000	\$ 459,497	1.008	0.37	1.000	0.37	\$ 643,295	0.008	\$ 5,066	\$ 464,563
1-Dec-17	Various	\$ 496,521	1.020	0.37	1.000	0.37	\$ 627,892	0.019	\$ 12,203	\$ 508,724
1-Dec-18	\$ 20,000,000	\$ 247,986	1.056	0.38	1.000	0.38	\$ 650,442	0.053	\$ 34,572	\$ 282,558
1-Dec-19	Various	\$ 45,200	1.309	0.38	1.000	0.38	\$ 590,529	0.236	\$ 139,279	\$ 184,479
1-Dec-20	\$ 30,000,000	\$ 93,913	2.216	0.39	1.000	0.39	\$ 736,608	0.549	\$ 404,155	\$ 498,069
1-Dec-21	\$ 30,000,000	\$ 49,566	4.877	0.40	1.000	0.40	\$ 797,083	0.795	\$ 633,643	\$ 683,209
1-Dec-22	\$ 30,000,000	\$ 22,312	17.647	0.41	1.000	0.41	\$ 801,867	0.943	\$ 756,428	\$ 778,740
Total		\$ 5,172,727					\$ 10,951,801		\$ 1,987,150	\$ 7,159,878

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Revenue) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
General Liability**

**General Liability Experience @ 11/30/23  
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred LDF's		(3) Paid LDF's		(4) Claim CDF	(5) Trend Factors		(6) Revenue (in 000s)
	Unlimited	Limited	Unlimited	Limited		Loss	Exposure	
Prior	1.000	1.000	1.000	1.000	1.000	2.016	1.240	-
1-Dec-01	1.000	1.000	1.000	1.000	1.000	1.966	1.232	1,057,079
1-Dec-02	1.000	1.000	1.000	1.000	1.000	1.883	1.220	1,086,728
1-Dec-03	1.000	1.000	1.000	1.000	1.000	1.816	1.209	1,199,434
1-Dec-04	1.000	1.000	1.000	1.000	1.000	1.742	1.196	1,189,789
1-Dec-05	1.000	1.000	1.000	1.000	1.000	1.679	1.184	1,357,723
1-Dec-06	1.000	1.000	1.000	1.000	1.000	1.617	1.173	1,243,144
1-Dec-07	1.000	1.000	1.000	1.000	1.000	1.556	1.162	1,207,801
1-Dec-08	1.000	1.000	1.000	1.000	1.000	1.523	1.149	1,303,812
1-Dec-09	1.000	1.000	1.000	1.000	1.000	1.478	1.138	1,287,986
1-Dec-10	1.000	1.000	1.000	1.000	1.000	1.425	1.127	1,293,078
1-Dec-11	1.000	1.000	1.000	1.000	1.000	1.381	1.117	1,331,769
1-Dec-12	1.000	1.000	1.000	1.000	1.000	1.333	1.105	1,285,791
1-Dec-13	1.000	1.000	1.000	1.000	1.000	1.295	1.094	1,362,902
1-Dec-14	1.000	1.000	1.000	1.000	1.000	1.264	1.083	1,509,150
1-Dec-15	1.000	1.000	1.003	1.003	1.000	1.235	1.073	1,699,156
1-Dec-16	1.001	1.001	1.008	1.008	1.000	1.193	1.062	1,753,287
1-Dec-17	1.004	1.004	1.020	1.020	1.000	1.156	1.051	1,675,248
1-Dec-18	1.019	1.019	1.057	1.056	1.000	1.135	1.041	1,719,805
1-Dec-19	1.060	1.060	1.310	1.309	1.000	1.114	1.031	1,547,010
1-Dec-20	1.151	1.150	2.221	2.216	1.002	1.074	1.020	1,881,172
1-Dec-21	1.577	1.574	4.894	4.877	1.004	1.034	1.010	1,979,429
1-Dec-22	3.548	3.537	17.716	17.647	1.122	1.000	1.000	1,944,279

Methods Included in Analysis :  
Source Used for LDFs :

**Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity  
Company Exclusively**

LDF Annual Decay Rate (Incurred/Paid/Clm Count): **0.75**  
ELR for B/F Method : **0.42**  
Generalized Cape Cod Decay Factor: **0.75**  
Loss Limitation :  
Discount Rates :

**Exhibit 10, Column (5)  
4.48%**

**Column (2) : Company Exclusively  
Column (3) : Exhibit 13, Sheet 1, Column (15)  
Column (4) : Company Exclusively**

**Column (5) : Exhibit 13, Sheet 2, Column (15)  
Column (6) : Company Exclusively  
Column (7) : Aon Compilation of Estimated Trends**

**Column (8) : Flat 1.00%  
Column (9) : supplied by Cook County, Illinois**



**Cook County, Illinois  
General Liability**

**General Liability Experience @ 11/30/23  
Limited Loss Calculations**

(1) Policy Period Inception	(2) Unlimited			(4) Case O/S	(5) Retention	(6) Claims valued over the Retention			(10) Limited		
	Incurred	Paid				No.	Incurred	No.	Paid	Incurred	Paid
Prior	\$ 6,387,749	\$ 6,387,749	\$ -	Various	-	\$ -	-	\$ -	\$ 6,387,749	\$ 6,387,749	\$ -
1-Dec-01	\$ 264,864	\$ 264,864	\$ -	\$ 9,500,000	-	\$ -	-	\$ -	\$ 264,864	\$ 264,864	\$ -
1-Dec-02	\$ 431,980	\$ 431,980	\$ -	\$ 9,500,000	-	\$ -	-	\$ -	\$ 431,980	\$ 431,980	\$ -
1-Dec-03	\$ 40,287	\$ 40,287	\$ -	Various	-	\$ -	-	\$ -	\$ 40,287	\$ 40,287	\$ -
1-Dec-04	\$ 236,472	\$ 236,472	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	\$ 236,472	\$ 236,472	\$ -
1-Dec-05	\$ 151,662	\$ 151,662	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	\$ 151,662	\$ 151,662	\$ -
1-Dec-06	\$ 111,956	\$ 111,956	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	\$ 111,956	\$ 111,956	\$ -
1-Dec-07	\$ 538,122	\$ 538,122	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	\$ 538,122	\$ 538,122	\$ -
1-Dec-08	\$ 195,329	\$ 195,329	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	\$ 195,329	\$ 195,329	\$ -
1-Dec-09	\$ 325,332	\$ 325,332	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	\$ 325,332	\$ 325,332	\$ -
1-Dec-10	\$ 153,831	\$ 153,831	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	\$ 153,831	\$ 153,831	\$ -
1-Dec-11	\$ 146,905	\$ 146,905	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	\$ 146,905	\$ 146,905	\$ -
1-Dec-12	\$ 369,930	\$ 369,930	\$ -	Various	-	\$ -	-	\$ -	\$ 369,930	\$ 369,930	\$ -
1-Dec-13	\$ 259,375	\$ 259,375	\$ -	\$ 15,000,000	-	\$ -	-	\$ -	\$ 259,375	\$ 259,375	\$ -
1-Dec-14	\$ 373,224	\$ 373,224	\$ -	\$ 15,000,000	-	\$ -	-	\$ -	\$ 373,224	\$ 373,224	\$ -
1-Dec-15	\$ 258,465	\$ 158,465	\$ 100,000	\$ 15,000,000	-	\$ -	-	\$ -	\$ 258,465	\$ 158,465	\$ 100,000
1-Dec-16	\$ 474,398	\$ 459,497	\$ 14,901	\$ 15,000,000	-	\$ -	-	\$ -	\$ 474,398	\$ 459,497	\$ 14,901
1-Dec-17	\$ 865,616	\$ 496,521	\$ 369,094	Various	-	\$ -	-	\$ -	\$ 865,616	\$ 496,521	\$ 369,094
1-Dec-18	\$ 376,917	\$ 247,986	\$ 128,932	\$ 20,000,000	-	\$ -	-	\$ -	\$ 376,917	\$ 247,986	\$ 128,932
1-Dec-19	\$ 795,336	\$ 45,200	\$ 750,136	Various	-	\$ -	-	\$ -	\$ 795,336	\$ 45,200	\$ 750,136
1-Dec-20	\$ 3,398,913	\$ 93,913	\$ 3,305,000	\$ 30,000,000	-	\$ -	-	\$ -	\$ 3,398,913	\$ 93,913	\$ 3,305,000
1-Dec-21	\$ 309,785	\$ 49,566	\$ 260,219	\$ 30,000,000	-	\$ -	-	\$ -	\$ 309,785	\$ 49,566	\$ 260,219
1-Dec-22	\$ 72,312	\$ 22,312	\$ 50,000	\$ 30,000,000	-	\$ -	-	\$ -	\$ 72,312	\$ 22,312	\$ 50,000
	\$ 16,538,759	\$ 11,560,476	\$ 4,978,283		-	\$ -	-	\$ -	\$ 16,538,759	\$ 11,560,476	\$ 4,978,283

Column (2) and Column (3) : Supplied by Cook County, Illinois

Column (4) : Column (2) - Column (3)

Column (5) : Individual loss limitation

Column (6) through Column (9) : supplied by Cook County, Illinois

Column (10) : Column (2) - Column (7) + [Column (5) x Column (6)]

Column (11) : Column (3) - Column (9) + [Column (5) x Column (8)]

**Cook County, Illinois  
General Liability**

**General Liability Experience @ 11/30/23  
Selected Ultimate Claim Counts**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Policy Period Inception	Trended Revenue (in 000s)	Reported Claims	Claim CDF	Chain-Ladder Developed Claims	Frequency Trend	Trended Developed Claims	Trended Frequency Rate	Bornhuetter-Ferguson Developed	Selected Trended Claims	Selected Untrended Claims	Trended Frequency Rate
1-Dec-01	1,302,735	107	1.000	107	1.000	107	0.00821%		107	107	0.00821%
1-Dec-02	1,326,015	74	1.000	74	1.000	74	0.00558%		74	74	0.00558%
1-Dec-03	1,450,249	76	1.000	76	1.000	76	0.00524%		76	76	0.00524%
1-Dec-04	1,423,163	104	1.000	104	1.000	104	0.00731%		104	104	0.00731%
1-Dec-05	1,607,957	85	1.000	85	1.000	85	0.00529%		85	85	0.00529%
1-Dec-06	1,457,684	82	1.000	82	1.000	82	0.00563%		82	82	0.00563%
1-Dec-07	1,403,382	246	1.000	246	1.000	246	0.01753%		246	246	0.01753%
1-Dec-08	1,498,699	204	1.000	204	1.000	204	0.01361%		204	204	0.01361%
1-Dec-09	1,465,848	101	1.000	101	1.000	101	0.00689%		101	101	0.00689%
1-Dec-10	1,457,073	121	1.000	121	1.000	121	0.00830%		121	121	0.00830%
1-Dec-11	1,487,045	74	1.000	74	1.000	74	0.00498%		74	74	0.00498%
1-Dec-12	1,420,314	120	1.000	120	1.000	120	0.00845%		120	120	0.00845%
1-Dec-13	1,490,586	291	1.000	291	1.000	291	0.01952%		291	291	0.01952%
1-Dec-14	1,634,193	104	1.000	104	1.000	104	0.00636%		104	104	0.00636%
1-Dec-15	1,823,237	85	1.000	85	1.000	85	0.00466%		85	85	0.00466%
1-Dec-16	1,861,149	108	1.000	108	1.000	108	0.00580%		108	108	0.00580%
1-Dec-17	1,760,702	124	1.000	124	1.000	124	0.00704%		124	124	0.00704%
1-Dec-18	1,789,636	198	1.000	198	1.000	198	0.01106%		198	198	0.01106%
1-Dec-19	1,595,208	68	1.000	68	1.000	68	0.00426%		68	68	0.00426%
1-Dec-20	1,918,983	86	1.002	86	1.000	86	0.00449%		86	86	0.00449%
1-Dec-21	1,999,224	88	1.004	88	1.000	88	0.00442%		88	88	0.00442%
1-Dec-22	1,944,279	71	1.122	80	1.000	80	0.00410%		80	80	0.00410%
Total	35,117,362	2,617		2,626		2,626	0.00748%		2,626	2,626	0.00748%

Column (2) : from Exhibit 4  
 Column (3) : supplied by Cook County, Illinois  
 Column (4) : from Exhibit 9

Column (5) : Column (3) x Column (4)  
 Column (6) : Assumption  
 Column (7) : Column (5) x Column (6)  
 Column (8) : Column (7) / Column (2)

Column (9) : Bornhuetter Method = (3) + (1.0 - 1.0/(4)) x 206  
 Column (10) : Selected Trended Ultimate Claims  
 Column (11) : Column (10) / Column (6)  
 Column (12) : Column (10) / Column (2)

Selected Frequency Rate for Renewal Policy Period 1-Dec-23					
<u>Weighted Averages through and including Policy Period 1-Dec-22</u>					
Last 5 Policies	9,247,331			520	0.00563%
Last 3 Policies	5,862,486			254	0.00434%
Last 2 Policies	3,943,503			168	0.00426%
Last 22 Policies	35,117,362			2,626	0.00748%
Selected Bornhuetter-Ferguson Frequency Rate					<b>0.00591%</b>
Factor to adjust the Claims / Exposure Trend Rate from Policy Period 1-Dec-22 to Renewal Period 1-Dec-23					0.991
Selected Frequency Rate adjusted to the Renewal Policy Period Level					0.00585%
Revenue for 1-Dec-23					1,953,331
Projected Count for 1-Dec-23					114



**Cook County, Illinois  
General Liability  
General Liability Experience @ 11/30/23  
Losses Limited to Retentions**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Policy Period Inception	Incurred Loss	Selected Ultimate Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Ultimate Loss	Revenue (in 000s)	Exposure Trend Factor	Trended Revenue (in 000s)	Trended Loss Rate
1-Dec-01	264,864	264,864	2.026	1.000	536,824	1,057,079	1.244	1,314,672	0.41
1-Dec-02	431,980	431,980	1.941	1.000	838,663	1,086,728	1.231	1,338,165	0.63
1-Dec-03	40,287	40,287	1.871	1.000	75,421	1,199,434	1.220	1,463,537	0.05
1-Dec-04	236,472	236,472	1.795	1.000	424,650	1,189,789	1.207	1,436,204	0.30
1-Dec-05	151,662	151,662	1.730	1.000	262,447	1,357,723	1.195	1,622,690	0.16
1-Dec-06	111,956	111,956	1.666	1.000	186,616	1,243,144	1.183	1,471,041	0.13
1-Dec-07	538,122	538,122	1.603	1.000	862,906	1,207,801	1.173	1,416,241	0.61
1-Dec-08	195,329	195,329	1.570	1.000	306,718	1,303,812	1.160	1,512,431	0.20
1-Dec-09	325,332	325,332	1.523	1.000	495,730	1,287,986	1.149	1,479,280	0.34
1-Dec-10	153,831	153,831	1.468	1.000	225,924	1,293,078	1.137	1,470,424	0.15
1-Dec-11	146,905	146,905	1.423	1.000	209,071	1,331,769	1.127	1,500,670	0.14
1-Dec-12	369,930	369,930	1.374	1.000	508,306	1,285,791	1.115	1,433,328	0.35
1-Dec-13	259,375	259,375	1.335	1.000	346,325	1,362,902	1.104	1,504,244	0.23
1-Dec-14	373,224	373,224	1.302	1.000	486,146	1,509,150	1.093	1,649,167	0.29
1-Dec-15	258,465	262,000	1.273	1.000	333,486	1,699,156	1.083	1,839,943	0.18
1-Dec-16	474,398	477,000	1.229	1.000	586,527	1,753,287	1.071	1,878,203	0.31
1-Dec-17	865,616	891,000	1.192	1.000	1,061,883	1,675,248	1.061	1,776,835	0.60
1-Dec-18	376,917	409,000	1.169	1.000	478,275	1,719,805	1.050	1,806,034	0.26
1-Dec-19	795,336	887,000	1.148	1.000	1,018,352	1,547,010	1.041	1,609,825	0.63
1-Dec-20	3,398,913	3,852,000	1.107	1.000	4,265,000	1,881,172	1.029	1,936,567	2.20
1-Dec-21	309,785	639,000	1.066	1.000	681,172	1,979,429	1.019	2,017,542	0.34
1-Dec-22	72,312	713,000	1.031	1.000	734,757	1,944,279	1.009	1,962,094	0.37
<b>All Year Weighted Average</b>					14,925,199			35,439,137	0.42
<b>Latest 5-Year Weighted Average</b>					7,177,556			9,332,062	0.77
<b>Latest 3-Year Weighted Average</b>					5,680,929			5,916,203	0.96
<b>SELECTED - Based on Shaded PY</b>					14,925,199			35,439,137	<b>0.42</b>

Column (1) : from Exhibit 10 Column (10)

Column (2) : from Exhibit 2, Column (10)

Column (3) : Trend Indices appropriate for General Liability

Column (4) : from Retention Analysis

Column (5) : Column (2) x Column (3) x Column (4)

Column (6) : supplied by Cook County, Illinois

Column (7) : Annual Exposure Trend

Column (8) : Column (6) x Column (7)

Column (9) : Column (5) / Column (8)

Renewal Projections (Losses and Claims developed to Ultimate)						
	(10)	(11)	(12)	(13)	(14)	(15)
Policy Period Inception	Retention	Revenue (in 000s)	Claim Count	Loss Rate	Loss Amount	
1-Dec-23	30,000,000	1,953,331	114	0.42	820,000	
1-Dec-24	30,000,000	1,974,501	114	0.43	849,000	
1-Dec-25	30,000,000	1,994,246	114	0.44	877,000	

Columns (11) - (15) : Projections. These are preliminary and should be monitored with actuarial updates.



**Cook County, Illinois  
General Liability**

Average : \$5,112      sigma = 2.420  
CV : 18.67              mu = 5.611

**Limitation of Incurred LDF's for General Liability**

Evaluation	(1) Incurred LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.000	1.000	9,500,000	4.321	1.901	1.000	0.971	5,040	9,500,000	4.321	1.901	1.000	0.971	5,040	1.000
264	1.000	1.000	9,500,000	4.321	1.901	1.000	0.971	5,040	9,500,000	4.321	1.901	1.000	0.971	5,040	1.000
252	1.000	1.000	9,500,000	4.321	1.901	1.000	0.971	5,040	9,500,000	4.321	1.901	1.000	0.971	5,040	1.000
240	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
228	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
216	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
204	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
192	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
180	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
168	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
156	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
144	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
132	1.000	1.000	15,000,000	4.509	2.089	1.000	0.982	5,067	15,000,000	4.509	2.089	1.000	0.982	5,067	1.000
120	1.000	1.000	15,000,000	4.509	2.089	1.000	0.982	5,067	15,000,000	4.509	2.089	1.000	0.982	5,067	1.000
108	1.000	1.000	15,000,000	4.509	2.089	1.000	0.982	5,067	15,000,000	4.509	2.089	1.000	0.982	5,067	1.000
96	1.000	1.000	15,000,000	4.509	2.089	1.000	0.982	5,067	15,000,000	4.509	2.089	1.000	0.982	5,067	1.000
84	1.001	1.000	15,000,000	4.509	2.089	1.000	0.982	5,067	15,015,000	4.510	2.090	1.000	0.982	5,067	1.001
72	1.004	1.000	20,000,000	4.628	2.208	1.000	0.986	5,079	20,080,060	4.630	2.210	1.000	0.986	5,080	1.004
60	1.019	1.000	20,000,000	4.628	2.208	1.000	0.986	5,079	20,382,396	4.636	2.216	1.000	0.987	5,080	1.019
48	1.060	1.000	30,000,000	4.796	2.376	1.000	0.991	5,092	31,796,537	4.820	2.400	1.000	0.992	5,093	1.060
36	1.151	1.002	30,000,000	4.796	2.376	1.000	0.991	5,092	34,460,434	4.853	2.433	1.000	0.993	5,095	1.150
24	1.577	1.004	30,000,000	4.796	2.376	1.000	0.991	5,092	47,116,562	4.982	2.562	1.000	0.995	5,100	1.574
12	3.548	1.122	30,000,000	4.796	2.376	1.000	0.991	5,092	94,826,192	5.271	2.851	1.000	0.998	5,107	3.537

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve



**Cook County, Illinois  
General Liability**

Average : \$5,112      sigma = 2.420  
CV : 18.67            mu = 5.611

**Limitation of Paid LDF's for General Liability**

Evaluation	(1) Paid LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.000	1.000	9,500,000	4.321	1.901	1.000	0.971	5,040	9,500,000	4.321	1.901	1.000	0.971	5,040	1.000
264	1.000	1.000	9,500,000	4.321	1.901	1.000	0.971	5,040	9,500,000	4.321	1.901	1.000	0.971	5,040	1.000
252	1.000	1.000	9,500,000	4.321	1.901	1.000	0.971	5,040	9,500,000	4.321	1.901	1.000	0.971	5,040	1.000
240	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
228	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
216	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
204	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
192	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
180	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
168	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
156	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
144	1.000	1.000	10,000,000	4.342	1.922	1.000	0.973	5,043	10,000,000	4.342	1.922	1.000	0.973	5,043	1.000
132	1.000	1.000	15,000,000	4.509	2.089	1.000	0.982	5,067	15,000,000	4.509	2.089	1.000	0.982	5,067	1.000
120	1.000	1.000	15,000,000	4.509	2.089	1.000	0.982	5,067	15,000,000	4.509	2.089	1.000	0.982	5,067	1.000
108	1.000	1.000	15,000,000	4.509	2.089	1.000	0.982	5,067	15,000,000	4.509	2.089	1.000	0.982	5,067	1.000
96	1.003	1.000	15,000,000	4.509	2.089	1.000	0.982	5,067	15,045,000	4.510	2.091	1.000	0.982	5,067	1.003
84	1.008	1.000	15,000,000	4.509	2.089	1.000	0.982	5,067	15,120,225	4.513	2.093	1.000	0.982	5,068	1.008
72	1.020	1.000	20,000,000	4.628	2.208	1.000	0.986	5,079	20,399,297	4.636	2.216	1.000	0.987	5,080	1.020
60	1.057	1.000	20,000,000	4.628	2.208	1.000	0.986	5,079	21,130,926	4.651	2.231	1.000	0.987	5,081	1.056
48	1.310	1.000	30,000,000	4.796	2.376	1.000	0.991	5,092	39,303,523	4.907	2.487	1.000	0.994	5,097	1.309
36	2.221	1.002	30,000,000	4.796	2.376	1.000	0.991	5,092	66,505,525	5.125	2.705	1.000	0.997	5,105	2.216
24	4.894	1.004	30,000,000	4.796	2.376	1.000	0.991	5,092	146,235,530	5.450	3.030	1.000	0.999	5,110	4.877
12	17.716	1.122	30,000,000	4.796	2.376	1.000	0.991	5,092	473,514,927	5.936	3.516	1.000	1.000	5,112	17.647

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve



**Cook County, Illinois  
General Liability  
Projected Losses Paid 12/1/2023 to 11/30/2024**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/23	Percent Losses Paid	Months of Development 11/30/24	Percent Losses Paid	Estimated Outstanding Losses 11/30/23	Projected Losses Paid	Estimated Outstanding Losses 11/30/24	Discount Factor	Discounted Outstanding Losses 11/30/24
Prior	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	180	100.0%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	168	100.0%	180	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-10	156	100.0%	168	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-11	144	100.0%	156	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-12	132	100.0%	144	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-13	120	100.0%	132	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-14	108	100.0%	120	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-15	96	99.7%	108	100.0%	\$ 103,535	\$ 100,000	\$ 3,535	1.000	\$ 3,535
1-Dec-16	84	99.2%	96	99.7%	\$ 17,503	\$ 10,919	\$ 6,584	0.978	\$ 6,441
1-Dec-17	72	98.0%	84	99.2%	\$ 394,479	\$ 234,249	\$ 160,229	0.963	\$ 154,228
1-Dec-18	60	94.6%	72	98.1%	\$ 161,014	\$ 102,141	\$ 58,874	0.955	\$ 56,233
1-Dec-19	48	76.3%	60	94.7%	\$ 841,800	\$ 651,642	\$ 190,158	0.955	\$ 181,577
1-Dec-20	36	45.0%	48	76.4%	\$ 3,758,087	\$ 2,142,610	\$ 1,615,476	0.964	\$ 1,556,962
1-Dec-21	24	20.4%	36	45.1%	\$ 589,434	\$ 182,611	\$ 406,824	0.954	\$ 388,235
1-Dec-22	12	5.6%	24	20.5%	\$ 690,688	\$ 108,642	\$ 582,047	0.934	\$ 543,344
1-Dec-23	0	0.0%	12	5.7%	\$ 820,000	\$ 46,467	\$ 773,533	0.907	\$ 701,459
<b>Total</b>					<b>\$ 7,376,540</b>	<b>\$ 3,579,280</b>	<b>\$ 3,797,260</b>		<b>\$ 3,592,015</b>

Column (3): 1 / Exhibit 9 Column (3)  
 Column (5): 1 / Rollforward Exhibit Column (54)  
 Column (6): From Executive Summary  
 Column (7): Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)





**Cook County, Illinois  
General Liability  
Projected Losses Paid 12/1/2024 to 11/30/2025**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/24	Percent Losses Paid	Months of Development 11/30/25	Percent Losses Paid	Estimated Outstanding Losses 11/30/24	Projected Losses Paid	Estimated Outstanding Losses 11/30/25	Discount Factor	Discounted Outstanding Losses 11/30/25
Prior	288	100.0%	300	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	180	100.0%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-10	168	100.0%	180	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-11	156	100.0%	168	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-12	144	100.0%	156	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-13	132	100.0%	144	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-14	120	100.0%	132	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-15	108	100.0%	120	100.0%	\$ 3,535	\$ -	\$ 3,535	1.000	\$ 3,535
1-Dec-16	96	99.7%	108	100.0%	\$ 6,584	\$ 6,584	\$ 0	1.000	\$ 0
1-Dec-17	84	99.2%	96	99.7%	\$ 160,229	\$ 99,958	\$ 60,271	0.978	\$ 58,965
1-Dec-18	72	98.1%	84	99.2%	\$ 58,874	\$ 34,961	\$ 23,913	0.963	\$ 23,018
1-Dec-19	60	94.7%	72	98.1%	\$ 190,158	\$ 120,623	\$ 69,536	0.955	\$ 66,417
1-Dec-20	48	76.4%	60	94.7%	\$ 1,615,476	\$ 1,250,549	\$ 364,928	0.955	\$ 348,460
1-Dec-21	36	45.1%	48	76.4%	\$ 406,824	\$ 231,944	\$ 174,880	0.964	\$ 168,546
1-Dec-22	24	20.5%	36	45.1%	\$ 582,047	\$ 180,322	\$ 401,725	0.954	\$ 383,369
1-Dec-23	12	5.7%	24	20.5%	\$ 773,533	\$ 121,673	\$ 651,861	0.934	\$ 608,516
1-Dec-24	0	0.0%	12	5.7%	\$ 849,000	\$ 48,110	\$ 800,890	0.907	\$ 726,266
<b>Total</b>					<b>\$ 4,646,260</b>	<b>\$ 2,094,722</b>	<b>\$ 2,551,538</b>		<b>\$ 2,387,092</b>

Column (3): 1 / Rollforward Exhibit Column (54)  
 Column (5): 1 / Rollforward Exhibit 2 Column (54)  
 Column (6): Rollforward Exhibit Column (21) & Projection  
 Column (7): Rollforward Exhibit 2 Column (31) - Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)



**Cook County, Illinois  
General Liability  
Projected Losses Paid 12/1/2025 to 11/30/2026**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/25	Percent Losses Paid	Months of Development 11/30/26	Percent Losses Paid	Estimated Outstanding Losses 11/30/25	Projected Losses Paid	Estimated Outstanding Losses 11/30/26	Discount Factor	Discounted Outstanding Losses 11/30/26
Prior	300	100.0%	312	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	288	100.0%	300	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-10	180	100.0%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-11	168	100.0%	180	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-12	156	100.0%	168	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-13	144	100.0%	156	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-14	132	100.0%	144	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-15	120	100.0%	132	100.0%	\$ 3,535	\$ -	\$ 3,535	1.000	\$ 3,535
1-Dec-16	108	100.0%	120	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-17	96	99.7%	108	100.0%	\$ 60,271	\$ 60,271	\$ -	1.000	\$ -
1-Dec-18	84	99.2%	96	99.7%	\$ 23,913	\$ 14,918	\$ 8,995	0.978	\$ 8,800
1-Dec-19	72	98.1%	84	99.2%	\$ 69,536	\$ 41,291	\$ 28,245	0.963	\$ 27,187
1-Dec-20	60	94.7%	72	98.1%	\$ 364,928	\$ 231,484	\$ 133,444	0.955	\$ 127,459
1-Dec-21	48	76.4%	60	94.7%	\$ 174,880	\$ 135,375	\$ 39,504	0.955	\$ 37,722
1-Dec-22	36	45.1%	48	76.4%	\$ 401,725	\$ 229,037	\$ 172,688	0.964	\$ 166,433
1-Dec-23	24	20.5%	36	45.1%	\$ 651,861	\$ 201,951	\$ 449,910	0.954	\$ 429,352
1-Dec-24	12	5.7%	24	20.5%	\$ 800,890	\$ 125,976	\$ 674,914	0.934	\$ 630,037
1-Dec-25	0	0.0%	12	5.7%	\$ 877,000	\$ 49,697	\$ 827,303	0.907	\$ 750,219
<b>Total</b>					<b>\$ 3,428,538</b>	<b>\$ 1,089,999</b>	<b>\$ 2,338,539</b>		<b>\$ 2,180,744</b>

Column (3): 1 / Rollforward Exhibit 2 Column (54)

Column (5): 1 / Rollforward Exhibit 3 Column (54)

Column (6): Rollforward Exhibit 2 Column (21) & Projection

Column (7): Rollforward Exhibit 3 Column (31) - Rollforward Exhibit 2 Column (31)

Column (8): Column (6) - Column (7)

Column (9): Based on Column (3) and 4.48% Interest Rate

Column (10): Column (8) x Column (9)



**Cook County, Illinois  
General Liability  
Large Claims**

**All Claims greater than or equal to \$1,000,000**

(1)	(2)	(3)	(4)	(5)
<u>Policy Period</u>	<u>Loss Date</u>	<u>Incurred Loss</u>	<u>Paid Loss</u>	<u>Case Reserves</u>
12/1/2020	7/31/2021	3,000,000	-	3,000,000

Cook County, Illinois  
 General Liability  
 Occurrence  
 Indemnity and Expense  
 Incurred Development Triangle  
 Data Unlimited (000s)  
 As of 11/30/2023

		Age in Months																						
Policy Year		12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276
	Prior																				6,387	6,388	6,388	6,388
12/1/2001		320	270	1,108	1,613	761	443	303	303	303	243	243	243	243	243	243	252	252	265	265	265	265	265	
12/1/2002		125	1,626	12,779	12,979	439	429	429	429	429	429	429	429	429	429	419	419	432	432	432	432	432	265	
12/1/2003		641	327	337	982	55	35	35	35	35	35	35	35	35	30	30	40	40	40	40	40	40	40	
12/1/2004		488	751	411	267	222	222	222	222	222	222	222	222	222	222	236	236	236	236	236	236	236	236	
12/1/2005		200	527	421	214	184	176	170	170	170	170	170	138	138	152	152	152	152	152	152	152	152	152	
12/1/2006		412	421	317	133	133	118	118	118	118	98	98	98	112	112	112	112	112	112	112	112	112	112	
12/1/2007		197	638	530	453	453	512	447	447	447	486	486	538	538	538	538	538	538	538	538	538	538	538	
12/1/2008		169	127	70	47	152	152	152	152	153	153	195	195	195	195	195	195	195	195	195	195	195	195	
12/1/2009		117	211	332	310	305	313	313	311	311	325	325	325	325	325	325	325	325	325	325	325	325	325	
12/1/2010		68	219	59	139	139	139	139	139	154	154	154	154	154	154	154	154	154	154	154	154	154	154	
12/1/2011		205	253	396	395	170	140	140	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	
12/1/2012		383	410	384	356	356	356	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	
12/1/2013		135	223	258	242	214	259	259	259	259	259	259	259	259	259	259	259	259	259	259	259	259	259	
12/1/2014		84	411	364	353	373	373	373	373	373	373	373	373	373	373	373	373	373	373	373	373	373	373	
12/1/2015		113	236	196	308	308	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	
12/1/2016		71	186	244	494	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	
12/1/2017		196	814	966	866	866	866	866	866	866	866	866	866	866	866	866	866	866	866	866	866	866	866	
12/1/2018		195	572	423	331	377																		
12/1/2019		40	895	895	795																			
12/1/2020		254	3,456																					
12/1/2021		61	310																					
12/1/2022		72																						

		Age-to-Age																							
Policy Year		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	240-252	252-264	264-276	276-Ult	
	Prior																								
12/1/2001		0.843	4.107	1.455	0.472	0.582	0.684	1.000	1.000	0.802	1.000	1.000	1.000	1.000	1.000	1.040	1.000	1.049	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2002		13.027	7.857	1.016	0.034	0.977	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.978	1.000	1.031	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2003		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	0.840	1.000	1.364	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2004		1.540	0.547	0.650	0.832	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.998	1.000	1.065	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2005		2.632	0.800	0.507	0.860	0.959	0.966	1.000	1.000	1.000	1.000	0.810	1.000	1.099	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2006		1.022	0.755	0.419	1.000	0.887	1.000	1.000	1.000	1.000	0.830	1.000	1.144	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2007		3.239	0.831	0.855	1.000	1.129	0.873	1.000	1.000	1.088	1.000	1.107	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2008		0.756	0.550	0.672	3.229	1.000	1.000	1.000	1.000	1.008	1.000	1.274	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2009		1.805	1.575	0.935	0.884	1.026	1.000	0.994	1.000	1.046	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2010		3.222	0.269	2.346	1.000	1.000	1.000	1.000	1.000	1.110	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2011		1.234	1.567	0.998	0.430	0.824	1.000	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	
12/1/2012		1.070	0.936	0.929	1.000	1.000	1.038	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2013		1.658	1.156	0.939	0.883	1.213	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2014		4.905	0.886	0.969	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	1.000	1.000	1.000	1.000	
12/1/2015		2.101	0.830	1.572	1.000	0.838	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2016		2.627	1.314	2.025	0.960	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2017		4.160	1.187	0.896	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2018		2.938	0.739	0.783	1.138																				
12/1/2019		22.264	1.001	0.888																					
12/1/2020		13.591	0.984																						
12/1/2021		5.096																							
12/1/2022																									

		Averages																							
		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	240-252	252-264	264-276	276-Ult	
All Year Average		4.297	1.446	1.146	0.941	0.945	0.973	1.003	1.008	0.995	1.009	0.992	1.014	0.993	1.005	1.058	1.005	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3 Yr Average		13.651	0.908	0.856	1.033	0.946	1.000	1.000	1.000	1.000	1.000	1.000	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 Yr Average		9.610	1.045	1.233	1.031	1.010	1.008	1.010	1.022	1.009	1.055	1.021	1.029	1.020	1.013	1.073	1.006	1.010	1.000	1.000	1.000	1.000	1.000	1.000	
3 Yr Wtd Average		13.119	0.958	0.872	1.015	0.970	1.000	1.000	1.000	1.000	1.000	1.000	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 Yr Wtd Average		8.110	1.001	1.026	1.020	0.998	1.008	1.005	1.012	1.012	1.037	1.040	1.011	1.010	1.012	1.010	1.013	1.011	1.011	1.011	1.011	1.011	1.011	1.011	
Avg X HI-Lo (5yr X 2)		13.591	0.984	0.888	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Avg X HI-Lo (3yr X 2)		7.616	1.057	1.119	1.019	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Prior		2.160	1																						

Cook County, Illinois  
 General Liability  
 Occurrence  
 Indemnity and Expense  
 Paid Development Triangle  
 Data Unlimited (000s)  
 As of 11/30/2023

		Age in Months																						
Policy Year		12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276
	Prior																			6,387	6,388	6,388	6,388	6,388
12/1/2001		13	20	93	93	93	243	243	243	243	243	243	243	243	243	243	252	252	265	265	265	265	265	
12/1/2002		1	10	20	24	429	429	429	429	429	429	429	429	429	429	419	419	432	432	432	432	432	265	
12/1/2003		5	18	22	22	35	35	35	35	35	35	35	35	35	30	30	40	40	40	40	40	40	40	
12/1/2004		10	24	61	222	222	222	222	222	222	222	222	222	222	222	236	236	236	236	236	236	236	236	
12/1/2005		4	41	74	164	164	164	170	170	170	170	170	170	138	138	152	152	152	152	152	152	152	152	
12/1/2006		21	38	99	118	118	118	118	118	118	118	98	98	112	112	112	112	112	112	112	112	112	112	
12/1/2007		37	69	81	128	398	402	447	447	447	486	486	538	538	538	538	538	538	538	538	538	538	538	
12/1/2008		15	40	47	47	152	152	152	152	152	153	153	195	195	195	195	195	195	195	195	195	195	195	
12/1/2009		19	27	119	205	205	313	313	311	311	325	325	325	325	325	325								
12/1/2010		13	20	24	139	139	139	139	139	154	154	154	154	154	154	154								
12/1/2011		20	24	39	90	140	140	140	147	147	147	147	147	147	147	147								
12/1/2012		303	314	315	356	356	356	370	370	370	370	370	370	370	370	370								
12/1/2013		24	80	98	212	214	259	259	259	259	259	259	259	259	259	259								
12/1/2014		9	27	338	353	373	373	373	373	373	373	373	373	373	373	373								
12/1/2015		12	104	116	158	158	158	158	158	158	158	158	158	158	158	158								
12/1/2016		3	21	74	379	459	459	459	459	459	459	459	459	459	459	459								
12/1/2017		15	145	147	497	497	497	497	497	497	497	497	497	497	497	497								
12/1/2018		62	81	81	150	248																		
12/1/2019		40	45	45	45																			
12/1/2020		29	51	94																				
12/1/2021		26	50																					
12/1/2022		22																						

		Age-to-Age																							
Policy Year		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	240-252	252-264	264-276	276-Ult	
	Prior																				1,000	1,000	1,000	1,000	1,000
12/1/2001		1,557	4,709	1,000	1,000	2,619	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,040	1,000	1,049	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2002		8,396	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	978	1,000	1,031	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2003		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	840	1,000	1,364	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2004		2,462	2,571	3,623	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	998	1,000	1,065	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2005		11,562	1,797	2,222	1,000	1,000	1,040	1,000	1,000	1,000	1,000	1,000	810	1,000	1,099	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2006		1,784	2,622	1,192	1,000	1,000	1,000	1,000	1,000	1,000	830	1,000	1,144	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2007		1,851	1,173	1,590	3,101	1,009	1,112	1,000	1,000	1,088	1,000	1,107	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2008		2,643	1,180	1,000	3,229	1,000	1,000	1,000	1,000	1,008	1,000	1,274	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2009		1,443	4,407	1,720	1,000	1,527	1,000	0,994	1,000	1,046	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2010		1,534	1,200	5,761	1,000	1,000	1,000	1,000	1,110	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2011		1,204	1,622	2,301	1,555	1,000	1,000	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	
12/1/2012		1,038	1,003	1,131	1,000	1,000	1,008	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2013		3,276	1,225	2,161	1,011	1,213	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2014		2,893	12,701	1,044	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	1,000	1,000	1,000	1,000	
12/1/2015		8,979	1,119	1,363	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2016		7,834	3,568	5,111	1,211	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2017		9,341	1,014	3,389	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2018		1,321	1,000	1,841	1,653																				
12/1/2019		1,124	1,013	1,000																					
12/1/2020		1,729	1,857																						
12/1/2021		1,939																							
12/1/2022																									

		Averages																							
		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	240-252	252-264	264-276	276-Ult	
All Year Average		3,681	2,450	2,087	2,290	1,139	1,012	1,003	1,008	1,010	1,009	0,992	1,014	0,993	1,005	1,058	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
3 Yr Average		1,597	1,290	2,076	1,288	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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 Yr Average		3,091	1,690	2,541	1,184	1,043	1,008	1,010	1,022	1,009	1,055	1,021	1,029	1,020	1,013	1,073	1,006	1,010	NA	NA	NA	NA	NA	NA	
3 Yr Wtd Average		1,532	1,249	2,532	1,173	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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 Yr Wtd Average		2,160	1,291	2,652	1,129	1,027	1,008	1,005	1,012	1,012	1,037	1,040	1,011	1,010	1,012	1,010	1,013	1,011	7,561	NA	NA	NA	NA	NA	
Avg X Hi-Lo (3yr X 2)		1,729	1,013	1,841	1,211	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Avg X Hi-Lo (5yr X 2)		1,663	1,295	2,198	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	1,000	1,000	1,000	1,000	1,000	1,000	
Prior		3,689	2,250	1,695	1,240	1,045	1,015	1,005	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	
Industry		2,650	1,710																						





**Cook County, Illinois  
Automobile Liability Experience @ 11/30/23  
Losses Limited to Retentions**

Policy Period	Number of Vehicles (1)	Retention (2)	Reported Claims (3)	Open Claims (3a)	Incurred (4)	Paid (5)	Case (6)	Est IBNR (7)	Total O/S (8)	Ultimate (9)	Ultimate Loss Rate (10)
							[(6)-(5)]		[(6)+(7)]	[(4)+(7)]	[(9)/(1)]

**Historical Experience**

Prior	-	Various	1,054	-	13,250,354	13,250,354	-	-	-	13,250,354	
1-Dec-01	2,283	9,500,000	112	-	2,523,962	2,523,962	-	-	-	2,523,962	1,106
1-Dec-02	2,283	9,500,000	74	-	234,297	234,297	-	-	-	234,297	103
1-Dec-03	1,997	Various	111	-	430,586	430,586	-	-	-	430,586	216
1-Dec-04	1,997	10,000,000	91	-	2,857,039	2,857,039	-	-	-	2,857,039	1,431
1-Dec-05	1,780	10,000,000	82	-	201,210	201,210	-	-	-	201,210	113
1-Dec-06	-	10,000,000	92	-	653,237	653,237	-	-	-	653,237	
1-Dec-07	-	10,000,000	71	-	149,661	149,661	-	-	-	149,661	
1-Dec-08	-	10,000,000	60	-	191,753	191,753	-	-	-	191,753	
1-Dec-09	-	10,000,000	62	-	6,849,297	6,849,297	-	-	-	6,849,297	
1-Dec-10	2,071	10,000,000	88	-	834,347	834,347	-	-	-	834,347	403
1-Dec-11	1,837	10,000,000	75	-	445,189	445,189	-	-	-	445,189	242
1-Dec-12	1,892	Various	58	-	302,494	302,494	-	-	-	302,494	160
1-Dec-13	1,921	15,000,000	86	-	2,935,696	2,935,696	-	-	-	2,935,696	1,528
1-Dec-14	2,022	15,000,000	62	-	309,188	309,188	-	-	-	309,188	153
1-Dec-15	1,915	15,000,000	70	-	1,519,883	1,519,883	-	-	-	1,519,883	794
1-Dec-16	1,773	15,000,000	53	-	1,529,308	1,529,308	-	-	-	1,529,308	863
1-Dec-17	1,847	Various	61	17	8,968,035	8,759,129	208,906	41,965	250,871	9,010,000	4,878
1-Dec-18	1,903	20,000,000	61	8	1,156,610	1,093,672	62,938	23,390	86,328	1,180,000	620
1-Dec-19	1,800	Various	35	1	233,863	208,863	25,000	76,137	101,137	310,000	172
1-Dec-20	1,744	30,000,000	32	2	347,738	147,738	200,000	342,262	542,262	690,000	396
1-Dec-21	1,769	30,000,000	57	2	305,360	155,360	150,000	764,640	914,640	1,070,000	605
1-Dec-22	1,764	30,000,000	43	-	38,106	38,106	-	1,461,894	1,461,894	1,500,000	850
<b>Total</b>	<b>34,598</b>		<b>2,590</b>	<b>30</b>	<b>46,267,216</b>	<b>45,620,372</b>	<b>646,844</b>	<b>2,710,287</b>	<b>3,357,131</b>	<b>48,977,503</b>	<b>806</b>

**Full Policy Period Projections**

1-Dec-23	1,825	30,000,000								2,040,000	1,118
1-Dec-24	1,832	30,000,000								2,130,000	1,164



Cook County, Illinois
Automobile Liability

Automobile Liability Experience @ 11/30/23
Summary of Various Reserving Methods
Losses Limited to Retentions

Table with columns (1) through (10) and rows for Policy Period Inception from Prior to 1-Dec-22. Columns (2)-(8) are grouped into Chain Ladder, Bornhuetter-Ferguson, and Generalized Cape Cod methods. Column (10) is Selected Ultimate.

Column (2) : from Exhibit 3, Column (5)
Column (3) : from Exhibit 3, Column (8)
Column (4) : from Exhibit 3, Column (11)

Column (5) : from Exhibit 7, Column (11)
Column (6) : from Exhibit 8, Column (11)
Column (7) : from Exhibit 4, Column (11)
Column (8) : from Exhibit 5, Column (11)

Column (9) : from Exhibit 6, Column (11)
Column (10) : Ultimate





**Cook County, Illinois  
Automobile Liability**

**Automobile Liability Experience @ 11/30/23  
Unpaid Liabilities at Various Discount Rates  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.48%
Prior	276	Various	\$ 13,250,354	\$ 13,250,354	\$ 13,250,354	\$ -	\$ -	\$ -	\$ -
1-Dec-01	264	\$ 9,500,000	\$ 2,523,962	\$ 2,523,962	\$ 2,523,962	\$ -	\$ -	\$ -	\$ -
1-Dec-02	252	\$ 9,500,000	\$ 234,297	\$ 234,297	\$ 234,297	\$ -	\$ -	\$ -	\$ -
1-Dec-03	240	Various	\$ 430,586	\$ 430,586	\$ 430,586	\$ -	\$ -	\$ -	\$ -
1-Dec-04	228	\$ 10,000,000	\$ 2,857,039	\$ 2,857,039	\$ 2,857,039	\$ -	\$ -	\$ -	\$ -
1-Dec-05	216	\$ 10,000,000	\$ 201,210	\$ 201,210	\$ 201,210	\$ -	\$ -	\$ -	\$ -
1-Dec-06	204	\$ 10,000,000	\$ 653,237	\$ 653,237	\$ 653,237	\$ -	\$ -	\$ -	\$ -
1-Dec-07	192	\$ 10,000,000	\$ 149,661	\$ 149,661	\$ 149,661	\$ -	\$ -	\$ -	\$ -
1-Dec-08	180	\$ 10,000,000	\$ 191,753	\$ 191,753	\$ 191,753	\$ -	\$ -	\$ -	\$ -
1-Dec-09	168	\$ 10,000,000	\$ 6,849,297	\$ 6,849,297	\$ 6,849,297	\$ -	\$ -	\$ -	\$ -
1-Dec-10	156	\$ 10,000,000	\$ 834,347	\$ 834,347	\$ 834,347	\$ -	\$ -	\$ -	\$ -
1-Dec-11	144	\$ 10,000,000	\$ 445,189	\$ 445,189	\$ 445,189	\$ -	\$ -	\$ -	\$ -
1-Dec-12	132	Various	\$ 302,494	\$ 302,494	\$ 302,494	\$ -	\$ -	\$ -	\$ -
1-Dec-13	120	\$ 15,000,000	\$ 2,935,696	\$ 2,935,696	\$ 2,935,696	\$ -	\$ -	\$ -	\$ -
1-Dec-14	108	\$ 15,000,000	\$ 309,188	\$ 309,188	\$ 309,188	\$ -	\$ -	\$ -	\$ -
1-Dec-15	96	\$ 15,000,000	\$ 1,519,883	\$ 1,519,883	\$ 1,519,883	\$ -	\$ -	\$ -	\$ -
1-Dec-16	84	\$ 15,000,000	\$ 1,529,308	\$ 1,529,308	\$ 1,529,308	\$ -	\$ -	\$ -	\$ -
1-Dec-17	72	Various	\$ 9,010,000	\$ 8,968,035	\$ 8,759,129	\$ 208,906	\$ 41,965	\$ 250,871	\$ 243,549
1-Dec-18	60	\$ 20,000,000	\$ 1,180,000	\$ 1,156,610	\$ 1,093,672	\$ 62,938	\$ 23,390	\$ 86,328	\$ 82,816
1-Dec-19	48	Various	\$ 310,000	\$ 233,863	\$ 208,863	\$ 25,000	\$ 76,137	\$ 101,137	\$ 96,079
1-Dec-20	36	\$ 30,000,000	\$ 690,000	\$ 347,738	\$ 147,738	\$ 200,000	\$ 342,262	\$ 542,262	\$ 515,702
1-Dec-21	24	\$ 30,000,000	\$ 1,070,000	\$ 305,360	\$ 155,360	\$ 150,000	\$ 764,640	\$ 914,640	\$ 859,930
1-Dec-22	12	\$ 30,000,000	\$ 1,500,000	\$ 38,106	\$ 38,106	\$ -	\$ 1,461,894	\$ 1,461,894	\$ 1,353,574
<b>Total</b>			<b>\$ 48,977,503</b>	<b>\$ 46,267,216</b>	<b>\$ 45,620,372</b>	<b>\$ 646,844</b>	<b>\$ 2,710,287</b>	<b>\$ 3,357,131</b>	<b>\$ 3,151,651</b>

Column (4) : from Exhibit 1, Column (10)  
Columns (5), (6), (7) : Exhibit 10

Column (8) : Column (4) - Column (5)  
Column (9) : Column (4) - Column (6)  
Column (9) : Column (10) discounted



**Cook County, Illinois  
Automobile Liability**

**Automobile Liability Experience @ 11/30/23  
Incurred, Paid, & Outstanding "Chain Ladder" Methods  
Losses Limited to Retentions**

(1)	(2)	(3)			(4)			(5)			(6)			(7)			(8)			(9)			(10)			(11)		
Policy Period Inception	Evaluation in Months	Incurred Chain-Ladder			Paid Chain-Ladder			Outstanding Chain-Ladder			Case Reserves	Outstanding LDF	Ultimate Loss	Paid Loss	Paid LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss			
		Incurred Loss	Incurred LDF	Ultimate Loss	Paid Loss	Paid LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss																		
Prior	276	\$ 13,250,354	1.000	\$ 13,250,354	\$ 13,250,354	1.000	\$ 13,250,354	\$ -	1.000	\$ 13,250,354	\$ -	1.000	\$ 13,250,354	\$ -	1.000	\$ 13,250,354	\$ -	1.000	\$ 13,250,354	\$ -	1.000	\$ 13,250,354	\$ -	1.000	\$ 13,250,354			
1-Dec-01	264	\$ 2,523,962	1.000	\$ 2,523,962	\$ 2,523,962	1.000	\$ 2,523,962	\$ -	1.000	\$ 2,523,962	\$ -	1.000	\$ 2,523,962	\$ -	1.000	\$ 2,523,962	\$ -	1.000	\$ 2,523,962	\$ -	1.000	\$ 2,523,962	\$ -	1.000	\$ 2,523,962			
1-Dec-02	252	\$ 234,297	1.000	\$ 234,297	\$ 234,297	1.000	\$ 234,297	\$ -	1.000	\$ 234,297	\$ -	1.000	\$ 234,297	\$ -	1.000	\$ 234,297	\$ -	1.000	\$ 234,297	\$ -	1.000	\$ 234,297	\$ -	1.000	\$ 234,297			
1-Dec-03	240	\$ 430,586	1.000	\$ 430,586	\$ 430,586	1.000	\$ 430,586	\$ -	1.000	\$ 430,586	\$ -	1.000	\$ 430,586	\$ -	1.000	\$ 430,586	\$ -	1.000	\$ 430,586	\$ -	1.000	\$ 430,586	\$ -	1.000	\$ 430,586			
1-Dec-04	228	\$ 2,857,039	1.000	\$ 2,857,039	\$ 2,857,039	1.000	\$ 2,857,039	\$ -	1.000	\$ 2,857,039	\$ -	1.000	\$ 2,857,039	\$ -	1.000	\$ 2,857,039	\$ -	1.000	\$ 2,857,039	\$ -	1.000	\$ 2,857,039	\$ -	1.000	\$ 2,857,039			
1-Dec-05	216	\$ 201,210	1.000	\$ 201,210	\$ 201,210	1.000	\$ 201,210	\$ -	1.000	\$ 201,210	\$ -	1.000	\$ 201,210	\$ -	1.000	\$ 201,210	\$ -	1.000	\$ 201,210	\$ -	1.000	\$ 201,210	\$ -	1.000	\$ 201,210			
1-Dec-06	204	\$ 653,237	1.000	\$ 653,237	\$ 653,237	1.000	\$ 653,237	\$ -	1.000	\$ 653,237	\$ -	1.000	\$ 653,237	\$ -	1.000	\$ 653,237	\$ -	1.000	\$ 653,237	\$ -	1.000	\$ 653,237	\$ -	1.000	\$ 653,237			
1-Dec-07	192	\$ 149,661	1.000	\$ 149,661	\$ 149,661	1.000	\$ 149,661	\$ -	1.000	\$ 149,661	\$ -	1.000	\$ 149,661	\$ -	1.000	\$ 149,661	\$ -	1.000	\$ 149,661	\$ -	1.000	\$ 149,661	\$ -	1.000	\$ 149,661			
1-Dec-08	180	\$ 191,753	1.000	\$ 191,753	\$ 191,753	1.000	\$ 191,753	\$ -	1.000	\$ 191,753	\$ -	1.000	\$ 191,753	\$ -	1.000	\$ 191,753	\$ -	1.000	\$ 191,753	\$ -	1.000	\$ 191,753	\$ -	1.000	\$ 191,753			
1-Dec-09	168	\$ 6,849,297	1.000	\$ 6,849,297	\$ 6,849,297	1.000	\$ 6,849,297	\$ -	1.000	\$ 6,849,297	\$ -	1.000	\$ 6,849,297	\$ -	1.000	\$ 6,849,297	\$ -	1.000	\$ 6,849,297	\$ -	1.000	\$ 6,849,297	\$ -	1.000	\$ 6,849,297			
1-Dec-10	156	\$ 834,347	1.000	\$ 834,347	\$ 834,347	1.000	\$ 834,347	\$ -	1.000	\$ 834,347	\$ -	1.000	\$ 834,347	\$ -	1.000	\$ 834,347	\$ -	1.000	\$ 834,347	\$ -	1.000	\$ 834,347	\$ -	1.000	\$ 834,347			
1-Dec-11	144	\$ 445,189	1.000	\$ 445,189	\$ 445,189	1.000	\$ 445,189	\$ -	1.000	\$ 445,189	\$ -	1.000	\$ 445,189	\$ -	1.000	\$ 445,189	\$ -	1.000	\$ 445,189	\$ -	1.000	\$ 445,189	\$ -	1.000	\$ 445,189			
1-Dec-12	132	\$ 302,494	1.000	\$ 302,494	\$ 302,494	1.000	\$ 302,494	\$ -	1.000	\$ 302,494	\$ -	1.000	\$ 302,494	\$ -	1.000	\$ 302,494	\$ -	1.000	\$ 302,494	\$ -	1.000	\$ 302,494	\$ -	1.000	\$ 302,494			
1-Dec-13	120	\$ 2,935,696	1.000	\$ 2,935,696	\$ 2,935,696	1.000	\$ 2,935,696	\$ -	1.000	\$ 2,935,696	\$ -	1.000	\$ 2,935,696	\$ -	1.000	\$ 2,935,696	\$ -	1.000	\$ 2,935,696	\$ -	1.000	\$ 2,935,696	\$ -	1.000	\$ 2,935,696			
1-Dec-14	108	\$ 309,188	1.000	\$ 309,188	\$ 309,188	1.000	\$ 309,188	\$ -	1.000	\$ 309,188	\$ -	1.000	\$ 309,188	\$ -	1.000	\$ 309,188	\$ -	1.000	\$ 309,188	\$ -	1.000	\$ 309,188	\$ -	1.000	\$ 309,188			
1-Dec-15	96	\$ 1,519,883	1.000	\$ 1,519,883	\$ 1,519,883	1.000	\$ 1,519,883	\$ -	1.000	\$ 1,519,883	\$ -	1.000	\$ 1,519,883	\$ -	1.000	\$ 1,519,883	\$ -	1.000	\$ 1,519,883	\$ -	1.000	\$ 1,519,883	\$ -	1.000	\$ 1,519,883			
1-Dec-16	84	\$ 1,529,308	1.000	\$ 1,529,308	\$ 1,529,308	1.004	\$ 1,535,545	\$ -	1.000	\$ 1,529,308	\$ -	1.000	\$ 1,529,308	\$ -	1.004	\$ 1,535,545	\$ -	1.000	\$ 1,529,308	\$ -	1.000	\$ 1,529,308	\$ -	1.004	\$ 1,535,545			
1-Dec-17	72	\$ 8,968,035	1.007	\$ 9,027,583	\$ 8,759,129	1.023	\$ 8,964,141	\$ 208,906	1.405	\$ 8,968,035	\$ 208,906	1.405	\$ 9,052,709	\$ 208,906	1.023	\$ 8,964,141	\$ 208,906	1.405	\$ 9,052,709	\$ 208,906	1.405	\$ 9,052,709	\$ 208,906	1.023	\$ 8,964,141			
1-Dec-18	60	\$ 1,156,610	1.014	\$ 1,173,267	\$ 1,093,672	1.063	\$ 1,162,432	\$ 62,938	1.316	\$ 1,156,610	\$ 62,938	1.316	\$ 1,176,487	\$ 62,938	1.063	\$ 1,162,432	\$ 62,938	1.316	\$ 1,176,487	\$ 62,938	1.316	\$ 1,176,487	\$ 62,938	1.063	\$ 1,162,432			
1-Dec-19	48	\$ 233,863	1.045	\$ 244,466	\$ 208,863	1.145	\$ 239,155	\$ 25,000	1.521	\$ 233,863	\$ 25,000	1.521	\$ 246,880	\$ 208,863	1.145	\$ 239,155	\$ 25,000	1.521	\$ 246,880	\$ 25,000	1.521	\$ 246,880	\$ 25,000	1.521	\$ 246,880			
1-Dec-20	36	\$ 347,738	1.165	\$ 404,987	\$ 147,738	1.471	\$ 217,391	\$ 200,000	1.790	\$ 347,738	\$ 200,000	1.790	\$ 505,644	\$ 147,738	1.471	\$ 217,391	\$ 200,000	1.790	\$ 505,644	\$ 200,000	1.790	\$ 505,644	\$ 200,000	1.790	\$ 505,644			
1-Dec-21	24	\$ 305,360	1.528	\$ 466,627	\$ 155,360	2.336	\$ 362,931	\$ 150,000	2.527	\$ 305,360	\$ 150,000	2.527	\$ 534,408	\$ 155,360	2.336	\$ 362,931	\$ 150,000	2.527	\$ 534,408	\$ 150,000	2.527	\$ 534,408	\$ 150,000	2.527	\$ 534,408			
1-Dec-22	12	\$ 38,106	3.070	\$ 116,999	\$ 38,106	6.943	\$ 264,575	\$ -	4.712	\$ 38,106	\$ -	4.712	\$ 38,106	\$ 38,106	6.943	\$ 264,575	\$ -	4.712	\$ 38,106	\$ -	4.712	\$ 38,106	\$ -	4.712	\$ 38,106			
Total		\$ 46,267,216		\$ 46,651,432	\$ 45,620,372		\$ 46,434,365	\$ 646,844		\$ 46,267,216	\$ 646,844		\$ 46,771,737	\$ 45,620,372		\$ 46,434,365	\$ 646,844		\$ 46,771,737	\$ 646,844		\$ 46,771,737	\$ 646,844		\$ 46,771,737			

Columns (3), (6), (9) : Exhibit 10  
 Column (4) & (7) : from Exhibit 9  
 Column (5) : Column (3) X Column (4)

Column (8) : Column (6) X Column (7)  
 Column (10) : Outstanding LDF = (Incurred LDF - 1) X Paid LDF / (Paid LDF - Incurred LDF) + 1  
 Column (11) : Column (9) X Column (10) + Column (6)



**Cook County, Illinois  
Automobile Liability**

**Automobile Liability Experience @ 11/30/23  
Generalized Cape Cod Incurred Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Incurred Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Incurred Loss	Trended Number of Vehicles	Incurred LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-10	156	\$ 834,347	1.400	1.029	\$ 1,202,848	2,071	1.000	668	\$ 959,316	\$ 834,347
1-Dec-11	144	\$ 445,189	1.355	1.029	\$ 621,197	1,837	1.000	736	\$ 968,833	\$ 445,189
1-Dec-12	132	\$ 302,494	1.314	1.000	\$ 397,512	1,892	1.000	835	\$ 1,201,511	\$ 302,494
1-Dec-13	120	\$ 2,935,696	1.280	1.000	\$ 3,757,062	1,921	1.000	987	\$ 1,480,925	\$ 2,935,696
1-Dec-14	108	\$ 309,188	1.253	1.000	\$ 387,478	2,022	1.000	1032	\$ 1,665,235	\$ 309,188
1-Dec-15	96	\$ 1,519,883	1.227	1.000	\$ 1,864,822	1,915	1.000	1166	\$ 1,820,636	\$ 1,519,883
1-Dec-16	84	\$ 1,529,308	1.188	1.000	\$ 1,816,639	1,773	1.000	1324	\$ 1,976,473	\$ 1,529,308
1-Dec-17	72	\$ 8,968,035	1.157	1.000	\$ 10,372,131	1,847	1.007	1521	\$ 2,428,448	\$ 8,984,053
1-Dec-18	60	\$ 1,156,610	1.137	1.000	\$ 1,315,166	1,903	1.014	1289	\$ 2,156,448	\$ 1,187,226
1-Dec-19	48	\$ 233,863	1.115	1.000	\$ 260,804	1,800	1.045	1091	\$ 1,761,756	\$ 310,270
1-Dec-20	36	\$ 347,738	1.083	1.000	\$ 376,688	1,744	1.165	965	\$ 1,554,008	\$ 567,413
1-Dec-21	24	\$ 305,360	1.041	1.000	\$ 317,769	1,769	1.528	887	\$ 1,508,415	\$ 826,670
1-Dec-22	12	\$ 38,106	1.000	1.000	\$ 38,106	1,764	3.070	848	\$ 1,495,988	\$ 1,046,855
Total		\$ 18,925,818			\$ 22,728,222	24,258			\$ 20,977,993	\$ 20,798,592

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (Automobile Liability)

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Automobile Liability**

**Automobile Liability Experience @ 11/30/23  
Generalized Cape Cod Paid Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Paid Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Paid Loss	Trended Number of Vehicles	Paid LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-10	156	\$ 834,347	1.400	1.029	\$ 1,202,848	2,071	1.000	666	\$ 957,083	\$ 834,347
1-Dec-11	144	\$ 445,189	1.355	1.029	\$ 621,197	1,837	1.000	735	\$ 967,213	\$ 445,189
1-Dec-12	132	\$ 302,494	1.314	1.000	\$ 397,512	1,892	1.000	834	\$ 1,200,995	\$ 302,494
1-Dec-13	120	\$ 2,935,696	1.280	1.000	\$ 3,757,062	1,921	1.000	988	\$ 1,483,753	\$ 2,935,696
1-Dec-14	108	\$ 309,188	1.253	1.000	\$ 387,478	2,022	1.000	1035	\$ 1,670,717	\$ 309,188
1-Dec-15	96	\$ 1,519,883	1.227	1.000	\$ 1,864,822	1,915	1.000	1175	\$ 1,833,509	\$ 1,519,883
1-Dec-16	84	\$ 1,529,308	1.188	1.000	\$ 1,816,639	1,773	1.004	1341	\$ 2,002,255	\$ 1,537,440
1-Dec-17	72	\$ 8,759,129	1.157	1.000	\$ 10,130,517	1,847	1.023	1555	\$ 2,482,529	\$ 8,815,905
1-Dec-18	60	\$ 1,093,672	1.137	1.000	\$ 1,243,600	1,903	1.063	1332	\$ 2,229,528	\$ 1,225,553
1-Dec-19	48	\$ 208,863	1.115	1.000	\$ 232,924	1,800	1.145	1144	\$ 1,847,448	\$ 442,866
1-Dec-20	36	\$ 147,738	1.083	1.000	\$ 160,038	1,744	1.471	1028	\$ 1,654,732	\$ 677,922
1-Dec-21	24	\$ 155,360	1.041	1.000	\$ 161,673	1,769	2.336	967	\$ 1,644,166	\$ 1,095,708
1-Dec-22	12	\$ 38,106	1.000	1.000	\$ 38,106	1,764	6.943	946	\$ 1,669,383	\$ 1,467,050
Total		\$ 18,278,974			\$ 22,014,416	24,258			\$ 21,643,311	\$ 21,609,241

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (Automobile Liability)

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Automobile Liability**

**Automobile Liability Experience @ 11/30/23  
Frequency & Severity Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Reported Claims	Claim CDF	Ultimate Claims	Severity LDF	Reported Severity	Ultimate Reported Severity	Unreported Claims	Ultimate Unreported Severity	Ultimate Loss
Prior	276	1,054	1.000	1,054	1.000	\$ 12,571	\$ 12,571	0	\$ 12,694	\$ 13,250,354
1-Dec-01	264	112	1.000	112	1.000	\$ 22,535	\$ 22,535	0	\$ 13,084	\$ 2,523,962
1-Dec-02	252	74	1.000	74	1.000	\$ 3,166	\$ 3,166	0	\$ 13,141	\$ 234,297
1-Dec-03	240	111	1.000	111	1.000	\$ 3,879	\$ 3,879	0	\$ 13,529	\$ 430,586
1-Dec-04	228	91	1.000	91	1.000	\$ 31,396	\$ 31,396	0	\$ 14,535	\$ 2,857,039
1-Dec-05	216	82	1.000	82	1.000	\$ 2,454	\$ 2,454	0	\$ 14,437	\$ 201,210
1-Dec-06	204	92	1.000	92	1.000	\$ 7,100	\$ 7,100	0	\$ 15,077	\$ 653,237
1-Dec-07	192	71	1.000	71	1.000	\$ 2,108	\$ 2,108	0	\$ 16,524	\$ 149,661
1-Dec-08	180	60	1.000	60	1.000	\$ 3,196	\$ 3,196	0	\$ 19,203	\$ 191,753
1-Dec-09	168	62	1.000	62	1.000	\$ 110,473	\$ 110,473	0	\$ 23,354	\$ 6,849,297
1-Dec-10	156	88	1.000	88	1.000	\$ 9,481	\$ 9,481	0	\$ 22,145	\$ 834,347
1-Dec-11	144	75	1.000	75	1.000	\$ 5,936	\$ 5,936	0	\$ 21,781	\$ 445,189
1-Dec-12	132	58	1.000	58	1.000	\$ 5,215	\$ 5,215	0	\$ 23,332	\$ 302,494
1-Dec-13	120	86	1.000	86	1.000	\$ 34,136	\$ 34,136	0	\$ 25,507	\$ 2,935,696
1-Dec-14	108	62	1.000	62	1.000	\$ 4,987	\$ 4,987	0	\$ 26,805	\$ 309,188
1-Dec-15	96	70	1.000	70	1.000	\$ 21,713	\$ 21,713	0	\$ 30,164	\$ 1,519,883
1-Dec-16	84	53	1.000	53	1.000	\$ 28,855	\$ 28,855	0	\$ 35,385	\$ 1,529,308
1-Dec-17	72	61	1.000	61	1.007	\$ 147,017	\$ 147,993	0	\$ 42,035	\$ 9,027,583
1-Dec-18	60	61	1.000	61	1.014	\$ 18,961	\$ 19,234	0	\$ 37,926	\$ 1,173,267
1-Dec-19	48	35	1.000	35	1.045	\$ 6,682	\$ 6,985	0	\$ 34,718	\$ 244,466
1-Dec-20	36	32	1.000	32	1.165	\$ 10,867	\$ 12,656	0	\$ 32,556	\$ 404,987
1-Dec-21	24	57	1.005	57	1.521	\$ 5,357	\$ 8,146	0	\$ 30,932	\$ 464,305
1-Dec-22	12	43	1.142	49	2.688	\$ 886	\$ 2,383	6	\$ 30,853	\$ 287,567
Total		2,590		2,596				6		\$ 46,819,678

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (6) : from {Exhibit 3, Column (4)} / Column (4)

Column (7) : from {Exhibit 3, Column (3)} / Column (3)

Column (8) : Column (6) X Column (7)

Column (9) : Column (5) - Column (3)

Column (10) : Weighted Average of Column (8) adjusted for Trend and Retention

Column (11) : Column (3) X Column (8) + Column (9) X Column (10)



**Cook County, Illinois  
Automobile Liability**

**Automobile Liability Experience @ 11/30/23  
Incurred Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Incurred Losses	Incurred LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	IBNR Factor	IBNR	Expected Ultimate Loss
1-Dec-10	\$ 10,000,000	\$ 834,347	1.000	772	1.029	750	\$ 1,553,967	0.000	\$ -	\$ 834,347
1-Dec-11	\$ 10,000,000	\$ 445,189	1.000	798	1.029	775	\$ 1,424,133	0.000	\$ -	\$ 445,189
1-Dec-12	Various	\$ 302,494	1.000	823	1.000	823	\$ 1,557,449	0.000	\$ -	\$ 302,494
1-Dec-13	\$ 15,000,000	\$ 2,935,696	1.000	845	1.000	845	\$ 1,623,737	0.000	\$ -	\$ 2,935,696
1-Dec-14	\$ 15,000,000	\$ 309,188	1.000	863	1.000	863	\$ 1,745,347	0.000	\$ -	\$ 309,188
1-Dec-15	\$ 15,000,000	\$ 1,519,883	1.000	882	1.000	882	\$ 1,688,369	0.000	\$ -	\$ 1,519,883
1-Dec-16	\$ 15,000,000	\$ 1,529,308	1.000	911	1.000	911	\$ 1,614,585	0.000	\$ -	\$ 1,529,308
1-Dec-17	Various	\$ 8,968,035	1.007	935	1.000	935	\$ 1,727,515	0.007	\$ 11,395	\$ 8,979,430
1-Dec-18	\$ 20,000,000	\$ 1,156,610	1.014	951	1.000	951	\$ 1,810,386	0.014	\$ 25,702	\$ 1,182,313
1-Dec-19	Various	\$ 233,863	1.045	970	1.000	970	\$ 1,746,168	0.043	\$ 75,731	\$ 309,594
1-Dec-20	\$ 30,000,000	\$ 347,738	1.165	999	1.000	999	\$ 1,741,663	0.141	\$ 246,202	\$ 593,940
1-Dec-21	\$ 30,000,000	\$ 305,360	1.528	1,040	1.000	1,040	\$ 1,838,883	0.346	\$ 635,521	\$ 940,881
1-Dec-22	\$ 30,000,000	\$ 38,106	3.070	1,082	1.000	1,082	\$ 1,908,202	0.674	\$ 1,286,705	\$ 1,324,811
Total		\$ 18,925,818					\$ 21,980,403		\$ 2,281,255	\$ 21,207,073

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Vehicles) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Automobile Liability**

**Automobile Liability Experience @ 11/30/23  
Paid Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Paid Losses	Paid LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	Unpaid Factor	Unpaid	Expected Ultimate Loss
1-Dec-10	\$ 10,000,000	\$ 834,347	1.000	772	1.029	750	\$ 1,553,967	0.000	\$ -	\$ 834,347
1-Dec-11	\$ 10,000,000	\$ 445,189	1.000	798	1.029	775	\$ 1,424,133	0.000	\$ -	\$ 445,189
1-Dec-12	Various	\$ 302,494	1.000	823	1.000	823	\$ 1,557,449	0.000	\$ -	\$ 302,494
1-Dec-13	\$ 15,000,000	\$ 2,935,696	1.000	845	1.000	845	\$ 1,623,737	0.000	\$ -	\$ 2,935,696
1-Dec-14	\$ 15,000,000	\$ 309,188	1.000	863	1.000	863	\$ 1,745,347	0.000	\$ -	\$ 309,188
1-Dec-15	\$ 15,000,000	\$ 1,519,883	1.000	882	1.000	882	\$ 1,688,369	0.000	\$ -	\$ 1,519,883
1-Dec-16	\$ 15,000,000	\$ 1,529,308	1.004	911	1.000	911	\$ 1,614,585	0.004	\$ 6,558	\$ 1,535,866
1-Dec-17	Various	\$ 8,759,129	1.023	935	1.000	935	\$ 1,727,515	0.023	\$ 39,509	\$ 8,798,638
1-Dec-18	\$ 20,000,000	\$ 1,093,672	1.063	951	1.000	951	\$ 1,810,386	0.059	\$ 107,087	\$ 1,200,760
1-Dec-19	Various	\$ 208,863	1.145	970	1.000	970	\$ 1,746,168	0.127	\$ 221,175	\$ 430,038
1-Dec-20	\$ 30,000,000	\$ 147,738	1.471	999	1.000	999	\$ 1,741,663	0.320	\$ 558,036	\$ 705,775
1-Dec-21	\$ 30,000,000	\$ 155,360	2.336	1,040	1.000	1,040	\$ 1,838,883	0.572	\$ 1,051,712	\$ 1,207,072
1-Dec-22	\$ 30,000,000	\$ 38,106	6.943	1,082	1.000	1,082	\$ 1,908,202	0.856	\$ 1,633,366	\$ 1,671,472
Total		\$ 18,278,974					\$ 21,980,403		\$ 3,617,443	\$ 21,896,418

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Vehicles) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Automobile Liability**

**Automobile Liability Experience @ 11/30/23  
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred LDF's		(3) Paid LDF's		(4) Claim CDF	(5) Trend Factors		(6) Number of Vehicles
	Unlimited	Limited	Unlimited	Limited		Loss	Exposure	
Prior	1.000	1.000	1.000	1.000	1.000	2.016	1.000	-
1-Dec-01	1.000	1.000	1.000	1.000	1.000	1.966	1.000	2,283
1-Dec-02	1.000	1.000	1.000	1.000	1.000	1.879	1.000	2,283
1-Dec-03	1.000	1.000	1.000	1.000	1.000	1.820	1.000	1,997
1-Dec-04	1.000	1.000	1.000	1.000	1.000	1.754	1.000	1,997
1-Dec-05	1.000	1.000	1.000	1.000	1.000	1.693	1.000	1,780
1-Dec-06	1.000	1.000	1.000	1.000	1.000	1.633	1.000	-
1-Dec-07	1.000	1.000	1.000	1.000	1.000	1.568	1.000	-
1-Dec-08	1.000	1.000	1.000	1.000	1.000	1.511	1.000	-
1-Dec-09	1.000	1.000	1.000	1.000	1.000	1.456	1.000	-
1-Dec-10	1.000	1.000	1.000	1.000	1.000	1.400	1.000	2,071
1-Dec-11	1.000	1.000	1.000	1.000	1.000	1.355	1.000	1,837
1-Dec-12	1.000	1.000	1.000	1.000	1.000	1.314	1.000	1,892
1-Dec-13	1.000	1.000	1.000	1.000	1.000	1.280	1.000	1,921
1-Dec-14	1.000	1.000	1.000	1.000	1.000	1.253	1.000	2,022
1-Dec-15	1.000	1.000	1.000	1.000	1.000	1.227	1.000	1,915
1-Dec-16	1.000	1.000	1.004	1.004	1.000	1.188	1.000	1,773
1-Dec-17	1.007	1.007	1.024	1.023	1.000	1.157	1.000	1,847
1-Dec-18	1.015	1.014	1.065	1.063	1.000	1.137	1.000	1,903
1-Dec-19	1.047	1.045	1.149	1.145	1.000	1.115	1.000	1,800
1-Dec-20	1.169	1.165	1.485	1.471	1.000	1.083	1.000	1,744
1-Dec-21	1.544	1.528	2.377	2.336	1.005	1.041	1.000	1,769
1-Dec-22	3.130	3.070	7.128	6.943	1.142	1.000	1.000	1,764

Methods Included in Analysis :  
Source Used for LDFs :

**Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity  
Company Exclusively**

LDF Annual Decay Rate (Incurred/Paid/Clm Count):  
ELR for B/F Method :  
Generalized Cape Cod Decay Factor:  
Loss Limitation :  
Discount Rates :

**0.75                      0.75                      0.75**  
**1118**  
**0.75**  
**Exhibit 10, Column (5)**  
**4.48%**

**Column (2) : Company Exclusively**  
**Column (3) : Exhibit 13, Sheet 1, Column (15)**  
**Column (4) : Company Exclusively**

**Column (5) : Exhibit 13, Sheet 2, Column (15)**  
**Column (6) : Company Exclusively**  
**Column (7) : Aon Compilation of Estimated Trends**

**Column (8) : Flat 0.00%**  
**Column (9) : supplied by Cook County, Illinois**





**Cook County, Illinois  
Automobile Liability**

**Automobile Liability Experience @ 11/30/23  
Limited Loss Calculations**

(1) Policy Period Inception	(2)			(3)	(4)	(5)	(6)			(7)	(8)	(9)	(10)			(11)	(12)
	Unlimited			Case O/S	Retention	No.	Claims valued over the Retention			Incurred	No.	Paid	Limited			Paid	Case O/S
Incurred	Paid		Incurred					Paid	Incurred				Paid	Incurred	Paid		
Prior	\$ 13,250,354	\$ 13,250,354	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 13,250,354	\$ 13,250,354	\$ -	-	-	
1-Dec-01	\$ 2,523,962	\$ 2,523,962	\$ -	\$ 9,500,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 2,523,962	\$ 2,523,962	\$ -	-	-	
1-Dec-02	\$ 234,297	\$ 234,297	\$ -	\$ 9,500,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 234,297	\$ 234,297	\$ -	-	-	
1-Dec-03	\$ 430,586	\$ 430,586	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 430,586	\$ 430,586	\$ -	-	-	
1-Dec-04	\$ 2,857,039	\$ 2,857,039	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 2,857,039	\$ 2,857,039	\$ -	-	-	
1-Dec-05	\$ 201,210	\$ 201,210	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 201,210	\$ 201,210	\$ -	-	-	
1-Dec-06	\$ 653,237	\$ 653,237	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 653,237	\$ 653,237	\$ -	-	-	
1-Dec-07	\$ 149,661	\$ 149,661	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 149,661	\$ 149,661	\$ -	-	-	
1-Dec-08	\$ 191,753	\$ 191,753	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 191,753	\$ 191,753	\$ -	-	-	
1-Dec-09	\$ 6,849,297	\$ 6,849,297	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 6,849,297	\$ 6,849,297	\$ -	-	-	
1-Dec-10	\$ 834,347	\$ 834,347	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 834,347	\$ 834,347	\$ -	-	-	
1-Dec-11	\$ 445,189	\$ 445,189	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 445,189	\$ 445,189	\$ -	-	-	
1-Dec-12	\$ 302,494	\$ 302,494	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 302,494	\$ 302,494	\$ -	-	-	
1-Dec-13	\$ 2,935,696	\$ 2,935,696	\$ -	\$ 15,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 2,935,696	\$ 2,935,696	\$ -	-	-	
1-Dec-14	\$ 309,188	\$ 309,188	\$ -	\$ 15,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 309,188	\$ 309,188	\$ -	-	-	
1-Dec-15	\$ 1,519,883	\$ 1,519,883	\$ -	\$ 15,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,519,883	\$ 1,519,883	\$ -	-	-	
1-Dec-16	\$ 1,529,308	\$ 1,529,308	\$ -	\$ 15,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,529,308	\$ 1,529,308	\$ -	-	-	
1-Dec-17	\$ 8,968,035	\$ 8,759,129	\$ 208,906	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 8,968,035	\$ 8,759,129	\$ 208,906	-	208,906	
1-Dec-18	\$ 1,156,610	\$ 1,093,672	\$ 62,938	\$ 20,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,156,610	\$ 1,093,672	\$ 62,938	-	62,938	
1-Dec-19	\$ 233,863	\$ 208,863	\$ 25,000	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 233,863	\$ 208,863	\$ 25,000	-	25,000	
1-Dec-20	\$ 347,738	\$ 147,738	\$ 200,000	\$ 30,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 347,738	\$ 147,738	\$ 200,000	-	200,000	
1-Dec-21	\$ 305,360	\$ 155,360	\$ 150,000	\$ 30,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 305,360	\$ 155,360	\$ 150,000	-	150,000	
1-Dec-22	\$ 38,106	\$ 38,106	\$ -	\$ 30,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 38,106	\$ 38,106	\$ -	-	-	
	\$ 46,267,216	\$ 45,620,372	\$ 646,844		-	\$ -	-	\$ -	-	\$ -	-	\$ 46,267,216	\$ 45,620,372	\$ 646,844			

Column (2) and Column (3) : Supplied by Cook County, Illinois

Column (4) : Column (2) - Column (3)

Column (5) : Individual loss limitation

Column (6) through Column (9) : supplied by Cook County, Illinois

Column (10) : Column (2) - Column (7) + [Column (5) x Column (6)]

Column (11) : Column (3) - Column (9) + [Column (5) x Column (8)]



**Cook County, Illinois  
Automobile Liability**

**Automobile Liability Experience @ 11/30/23  
Selected Ultimate Claim Counts**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Policy Period Inception	Trended Number of Vehicles	Reported Claims	Claim CDF	Chain-Ladder Developed Claims	Frequency Trend	Trended Developed Claims	Trended Frequency Rate	Bornhuetter-Ferguson Developed	Selected Trended Claims	Selected Untrended Claims	Trended Frequency Rate
1-Dec-10	2,071	88	1.000	88	1.000	88	4.24915%		88	88	4.24915%
1-Dec-11	1,837	75	1.000	75	1.000	75	4.08274%		75	75	4.08274%
1-Dec-12	1,892	58	1.000	58	1.000	58	3.06554%		58	58	3.06554%
1-Dec-13	1,921	86	1.000	86	1.000	86	4.47683%		86	86	4.47683%
1-Dec-14	2,022	62	1.000	62	1.000	62	3.06627%		62	62	3.06627%
1-Dec-15	1,915	70	1.000	70	1.000	70	3.65535%		70	70	3.65535%
1-Dec-16	1,773	53	1.000	53	1.000	53	2.98928%		53	53	2.98928%
1-Dec-17	1,847	61	1.000	61	1.000	61	3.30265%		61	61	3.30265%
1-Dec-18	1,903	61	1.000	61	1.000	61	3.20547%		61	61	3.20547%
1-Dec-19	1,800	35	1.000	35	1.000	35	1.94426%		35	35	1.94426%
1-Dec-20	1,744	32	1.000	32	1.000	32	1.83477%		32	32	1.83477%
1-Dec-21	1,769	57	1.005	57	1.000	57	3.23827%		57	57	3.23827%
1-Dec-22	1,764	43	1.142	49	1.000	49	2.78387%		49	49	2.78387%
Total	34,598	2,590		2,596		2,596	7.50440%		2,596	2,596	7.50440%

Column (2) : from Exhibit 4  
 Column (3) : supplied by Cook County, Illinois  
 Column (4) : from Exhibit 9

Column (5) : Column (3) x Column (4)  
 Column (6) : Assumption  
 Column (7) : Column (5) x Column (6)  
 Column (8) : Column (7) / Column (2)

Column (9) : Bornhuetter Method = (3) + (1.0 - 1.0/(4)) x 137  
 Column (10) : Selected Trended Ultimate Claims  
 Column (11) : Column (10) / Column (6)  
 Column (12) : Column (10) / Column (2)

Selected Frequency Rate for Renewal Policy Period 1-Dec-23											
<u>Weighted Averages through and including Policy Period 1-Dec-22</u>											
Last 5 Policies	8,980					234	2.61009%		234		2.61009%
Last 3 Policies	5,277					138	2.62252%		138		2.62252%
Last 2 Policies	3,533					106	3.01139%		106		3.01139%
Last 13 Policies	24,258					787	3.24587%		787		3.24587%
Selected Bornhuetter-Ferguson Frequency Rate										<b>3.12863%</b>	
Factor to adjust the Claims / Exposure Trend Rate from Policy Period 1-Dec-22 to Renewal Period 1-Dec-23										1.000	
Selected Frequency Rate adjusted to the Renewal Policy Period Level										3.12863%	
Vehicles for 1-Dec-23										1,825	
Projected Count for 1-Dec-23										57	



**Cook County, Illinois  
Automobile Liability  
Automobile Liability Experience @ 11/30/23  
Losses Limited to Retentions**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Policy Period Inception	Incurred Loss	Selected Ultimate Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Ultimate Loss	Number of Vehicles	Exposure Trend Factor	Trended Number of Vehicles	Trended Loss Rate
1-Dec-10	834,347	834,347	1.447	1.029	1,243,143	2,071	1.000	2,071	600
1-Dec-11	445,189	445,189	1.401	1.029	642,006	1,837	1.000	1,837	349
1-Dec-12	302,494	302,494	1.358	1.000	410,828	1,892	1.000	1,892	217
1-Dec-13	2,935,696	2,935,696	1.323	1.000	3,882,921	1,921	1.000	1,921	2,021
1-Dec-14	309,188	309,188	1.295	1.000	400,459	2,022	1.000	2,022	198
1-Dec-15	1,519,883	1,519,883	1.268	1.000	1,927,292	1,915	1.000	1,915	1,006
1-Dec-16	1,529,308	1,529,308	1.228	1.000	1,877,495	1,773	1.000	1,773	1,059
1-Dec-17	8,968,035	9,010,000	1.195	1.000	10,769,752	1,847	1.000	1,847	5,831
1-Dec-18	1,156,610	1,180,000	1.175	1.000	1,386,710	1,903	1.000	1,903	729
1-Dec-19	233,863	310,000	1.153	1.000	357,293	1,800	1.000	1,800	198
1-Dec-20	347,738	690,000	1.120	1.000	772,482	1,744	1.000	1,744	443
1-Dec-21	305,360	1,070,000	1.075	1.000	1,150,783	1,769	1.000	1,769	651
1-Dec-22	38,106	1,500,000	1.033	1.000	1,550,249	1,764	1.000	1,764	879
<b>All Year Weighted Average</b>					26,371,413			24,258	1,087
<b>Latest 5-Year Weighted Average</b>					5,217,517			8,980	581
<b>Latest 3-Year Weighted Average</b>					3,473,514			5,277	658
<b>SELECTED - Based on Shaded PY</b>					20,603,343			18,429	<b>1,118</b>

Column (1) : from Exhibit 10 Column (10)

Column (2) : from Exhibit 2, Column (10)

Column (3) : Trend Indices appropriate for Automobile Liability

Column (4) : from Retention Analysis

Column (5) : Column (2) x Column (3) x Column (4)

Column (6) : supplied by Cook County, Illinois

Column (7) : Annual Exposure Trend

Column (8) : Column (6) x Column (7)

Column (9) : Column (5) / Column (8)

Renewal Projections (Losses and Claims developed to Ultimate)						
	(10)	(11)	(12)	(13)	(14)	(15)
Policy Period Inception	Retention	Number of Vehicles	Claim Count	Loss Rate	Loss Amount	
1-Dec-23	30,000,000	1,825	57	1,118	2,040,000	
1-Dec-24	30,000,000	1,832	57	1,164	2,130,000	
1-Dec-25	30,000,000	1,832	57	1,208	2,210,000	

Columns (11) - (15) : Projections. These are preliminary and should be monitored with actuarial updates.



**Cook County, Illinois  
Automobile Liability**

Average : \$19,695    sigma = 2.565  
CV : 26.80        mu = 6.599

**Limitation of Incurred LDF's for Automobile Liability**

Evaluation	(1) Incurred LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.000	1.000	9,500,000	3.691	1.127	1.000	0.870	18,195	9,500,000	3.691	1.127	1.000	0.870	18,195	1.000
264	1.000	1.000	9,500,000	3.691	1.127	1.000	0.870	18,195	9,500,000	3.691	1.127	1.000	0.870	18,195	1.000
252	1.000	1.000	9,500,000	3.691	1.127	1.000	0.870	18,195	9,500,000	3.691	1.127	1.000	0.870	18,195	1.000
240	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
228	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
216	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
204	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
192	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
180	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
168	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
156	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
144	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
132	1.000	1.000	15,000,000	3.870	1.305	1.000	0.904	18,623	15,000,000	3.870	1.305	1.000	0.904	18,623	1.000
120	1.000	1.000	15,000,000	3.870	1.305	1.000	0.904	18,623	15,000,000	3.870	1.305	1.000	0.904	18,623	1.000
108	1.000	1.000	15,000,000	3.870	1.305	1.000	0.904	18,623	15,000,000	3.870	1.305	1.000	0.904	18,623	1.000
96	1.000	1.000	15,000,000	3.870	1.305	1.000	0.904	18,623	15,000,000	3.870	1.305	1.000	0.904	18,623	1.000
84	1.000	1.000	15,000,000	3.870	1.305	1.000	0.904	18,623	15,000,000	3.870	1.305	1.000	0.904	18,623	1.000
72	1.007	1.000	20,000,000	3.982	1.417	1.000	0.922	18,838	20,137,811	3.984	1.420	1.000	0.922	18,843	1.007
60	1.015	1.000	20,000,000	3.982	1.417	1.000	0.922	18,838	20,298,913	3.987	1.423	1.000	0.923	18,848	1.014
48	1.047	1.000	30,000,000	4.140	1.575	1.000	0.942	19,082	31,398,516	4.158	1.593	1.000	0.944	19,105	1.045
36	1.169	1.000	30,000,000	4.140	1.575	1.000	0.942	19,082	35,080,396	4.201	1.636	1.000	0.949	19,159	1.165
24	1.544	1.005	30,000,000	4.140	1.575	1.000	0.942	19,082	46,075,744	4.307	1.742	1.000	0.959	19,274	1.528
12	3.130	1.142	30,000,000	4.140	1.575	1.000	0.942	19,082	82,216,866	4.533	1.968	1.000	0.975	19,452	3.070

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve



**Cook County, Illinois  
Automobile Liability**

Average : \$19,695      sigma = 2.565  
CV : 26.80              mu = 6.599

**Limitation of Paid LDF's for Automobile Liability**

Evaluation	(1) Paid LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.000	1.000	9,500,000	3.691	1.127	1.000	0.870	18,195	9,500,000	3.691	1.127	1.000	0.870	18,195	1.000
264	1.000	1.000	9,500,000	3.691	1.127	1.000	0.870	18,195	9,500,000	3.691	1.127	1.000	0.870	18,195	1.000
252	1.000	1.000	9,500,000	3.691	1.127	1.000	0.870	18,195	9,500,000	3.691	1.127	1.000	0.870	18,195	1.000
240	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
228	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
216	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
204	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
192	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
180	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
168	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
156	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
144	1.000	1.000	10,000,000	3.711	1.147	1.000	0.874	18,249	10,000,000	3.711	1.147	1.000	0.874	18,249	1.000
132	1.000	1.000	15,000,000	3.870	1.305	1.000	0.904	18,623	15,000,000	3.870	1.305	1.000	0.904	18,623	1.000
120	1.000	1.000	15,000,000	3.870	1.305	1.000	0.904	18,623	15,000,000	3.870	1.305	1.000	0.904	18,623	1.000
108	1.000	1.000	15,000,000	3.870	1.305	1.000	0.904	18,623	15,000,000	3.870	1.305	1.000	0.904	18,623	1.000
96	1.000	1.000	15,000,000	3.870	1.305	1.000	0.904	18,623	15,000,000	3.870	1.305	1.000	0.904	18,623	1.000
84	1.004	1.000	15,000,000	3.870	1.305	1.000	0.904	18,623	15,063,985	3.871	1.306	1.000	0.904	18,626	1.004
72	1.024	1.000	20,000,000	3.982	1.417	1.000	0.922	18,838	20,485,817	3.991	1.426	1.000	0.923	18,855	1.023
60	1.065	1.000	20,000,000	3.982	1.417	1.000	0.922	18,838	21,305,250	4.006	1.442	1.000	0.925	18,881	1.063
48	1.149	1.000	30,000,000	4.140	1.575	1.000	0.942	19,082	34,475,332	4.194	1.629	1.000	0.948	19,151	1.145
36	1.485	1.000	30,000,000	4.140	1.575	1.000	0.942	19,082	44,559,367	4.294	1.729	1.000	0.958	19,261	1.471
24	2.377	1.005	30,000,000	4.140	1.575	1.000	0.942	19,082	70,947,065	4.475	1.911	1.000	0.972	19,414	2.336
12	7.128	1.142	30,000,000	4.140	1.575	1.000	0.942	19,082	187,257,444	4.854	2.289	1.000	0.989	19,591	6.943

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve



**Cook County, Illinois  
Automobile Liability  
Projected Losses Paid 12/1/2023 to 11/30/2024**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/23	Percent Losses Paid	Months of Development 11/30/24	Percent Losses Paid	Estimated Outstanding Losses 11/30/23	Projected Losses Paid	Estimated Outstanding Losses 11/30/24	Discount Factor	Discounted Outstanding Losses 11/30/24
Prior	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	180	100.0%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	168	100.0%	180	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-10	156	100.0%	168	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-11	144	100.0%	156	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-12	132	100.0%	144	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-13	120	100.0%	132	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-14	108	100.0%	120	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-15	96	100.0%	108	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-16	84	99.6%	96	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-17	72	97.6%	84	99.6%	\$ 250,871	\$ 205,965	\$ 44,906	0.978	\$ 43,933
1-Dec-18	60	93.9%	72	97.7%	\$ 86,328	\$ 52,950	\$ 33,377	0.971	\$ 32,403
1-Dec-19	48	87.0%	60	94.0%	\$ 101,137	\$ 53,486	\$ 47,651	0.959	\$ 45,713
1-Dec-20	36	67.3%	48	87.3%	\$ 542,262	\$ 327,894	\$ 214,368	0.950	\$ 203,648
1-Dec-21	24	42.1%	36	68.0%	\$ 914,640	\$ 402,244	\$ 512,396	0.951	\$ 487,299
1-Dec-22	12	14.0%	24	42.8%	\$ 1,461,894	\$ 485,108	\$ 976,786	0.940	\$ 918,359
1-Dec-23	0	0.0%	12	14.4%	\$ 2,040,000	\$ 293,818	\$ 1,746,182	0.926	\$ 1,616,797
<b>Total</b>					<b>\$ 5,397,131</b>	<b>\$ 1,821,464</b>	<b>\$ 3,575,667</b>		<b>\$ 3,348,152</b>

Column (3): 1 / Exhibit 9 Column (3)  
 Column (5): 1 / Rollforward Exhibit Column (54)  
 Column (6): From Executive Summary  
 Column (7): Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)



**Cook County, Illinois  
Automobile Liability  
Projected Losses Paid 12/1/2024 to 11/30/2025**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/24	Percent Losses Paid	Months of Development 11/30/25	Percent Losses Paid	Estimated Outstanding Losses 11/30/24	Projected Losses Paid	Estimated Outstanding Losses 11/30/25	Discount Factor	Discounted Outstanding Losses 11/30/25
Prior	288	100.0%	300	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	180	100.0%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-10	168	100.0%	180	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-11	156	100.0%	168	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-12	144	100.0%	156	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-13	132	100.0%	144	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-14	120	100.0%	132	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-15	108	100.0%	120	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-16	96	100.0%	108	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-17	84	99.6%	96	100.0%	\$ 44,906	\$ 44,906	\$ (0)	1.000	\$ (0)
1-Dec-18	72	97.7%	84	99.6%	\$ 33,377	\$ 27,403	\$ 5,975	0.978	\$ 5,845
1-Dec-19	60	94.0%	72	97.7%	\$ 47,651	\$ 29,222	\$ 18,429	0.971	\$ 17,891
1-Dec-20	48	87.3%	60	94.0%	\$ 214,368	\$ 113,368	\$ 101,000	0.959	\$ 96,892
1-Dec-21	36	68.0%	48	87.3%	\$ 512,396	\$ 309,834	\$ 202,562	0.950	\$ 192,432
1-Dec-22	24	42.8%	36	68.0%	\$ 976,786	\$ 429,575	\$ 547,211	0.951	\$ 520,409
1-Dec-23	12	14.4%	24	42.8%	\$ 1,746,182	\$ 579,444	\$ 1,166,737	0.940	\$ 1,096,948
1-Dec-24	0	0.0%	12	14.4%	\$ 2,130,000	\$ 306,781	\$ 1,823,219	0.926	\$ 1,688,126
<b>Total</b>					\$ 5,705,667	\$ 1,840,534	\$ 3,865,133		\$ 3,618,543

Column (3): 1 / Rollforward Exhibit Column (54)  
 Column (5): 1 / Rollforward Exhibit 2 Column (54)  
 Column (6): Rollforward Exhibit Column (21) & Projection  
 Column (7): Rollforward Exhibit 2 Column (31) - Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)



**Cook County, Illinois  
Automobile Liability  
Projected Losses Paid 12/1/2025 to 11/30/2026**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/25	Percent Losses Paid	Months of Development 11/30/26	Percent Losses Paid	Estimated Outstanding Losses 11/30/25	Projected Losses Paid	Estimated Outstanding Losses 11/30/26	Discount Factor	Discounted Outstanding Losses 11/30/26
Prior	300	100.0%	312	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	288	100.0%	300	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	276	100.0%	288	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-10	180	100.0%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-11	168	100.0%	180	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-12	156	100.0%	168	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-13	144	100.0%	156	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-14	132	100.0%	144	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-15	120	100.0%	132	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-16	108	100.0%	120	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-17	96	100.0%	108	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-18	84	99.6%	96	100.0%	\$ 5,975	\$ 5,975	\$ 0	1.000	\$ 0
1-Dec-19	72	97.7%	84	99.6%	\$ 18,429	\$ 15,129	\$ 3,299	0.978	\$ 3,228
1-Dec-20	60	94.0%	72	97.7%	\$ 101,000	\$ 61,940	\$ 39,061	0.971	\$ 37,921
1-Dec-21	48	87.3%	60	94.0%	\$ 202,562	\$ 107,124	\$ 95,438	0.959	\$ 91,556
1-Dec-22	36	68.0%	48	87.3%	\$ 547,211	\$ 330,886	\$ 216,325	0.950	\$ 205,507
1-Dec-23	24	42.8%	36	68.0%	\$ 1,166,737	\$ 513,112	\$ 653,625	0.951	\$ 621,611
1-Dec-24	12	14.4%	24	42.8%	\$ 1,823,219	\$ 605,008	\$ 1,218,211	0.940	\$ 1,145,343
1-Dec-25	0	0.0%	12	14.4%	\$ 2,210,000	\$ 318,303	\$ 1,891,697	0.926	\$ 1,751,530
<b>Total</b>					<b>\$ 6,075,133</b>	<b>\$ 1,957,477</b>	<b>\$ 4,117,655</b>		<b>\$ 3,856,695</b>

Column (3): 1 / Rollforward Exhibit 2 Column (54)

Column (5): 1 / Rollforward Exhibit 3 Column (54)

Column (6): Rollforward Exhibit 2 Column (21) & Projection

Column (7): Rollforward Exhibit 3 Column (31) - Rollforward Exhibit 2 Column (31)

Column (8): Column (6) - Column (7)

Column (9): Based on Column (3) and 4.48% Interest Rate

Column (10): Column (8) x Column (9)





**Cook County, Illinois  
Automobile Liability  
Large Claims**

All Claims greater than or equal to \$1,000,000

(1)	(2)	(3)	(4)	(5)
<u>Policy Period</u>	<u>Loss Date</u>	<u>Incurred Loss</u>	<u>Paid Loss</u>	<u>Case Reserves</u>
Prior	5/28/2001	3,750,000	3,750,000	-
Prior	5/28/2001	5,750,000	5,750,000	-
12/1/2001	8/7/2002	1,500,000	1,500,000	-
12/1/2004	6/4/2005	1,809,767	1,809,767	-
12/1/2009	8/15/2010	6,000,000	6,000,000	-
12/1/2013	12/6/2013	2,500,000	2,500,000	-
12/1/2016	11/28/2017	1,057,654	1,057,654	-
12/1/2017	9/6/2018	8,500,000	8,500,000	-

Cook County, Illinois  
Automobile Liability  
Occurrence  
Indemnity and Expense  
Incurred Development Triangle  
Data Unlimited (000s)  
As of 11/30/2023

		Age in Months																							
Policy Year		12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	
Prior						15,023	31,472	31,179	19,181	15,733	14,932	14,932	14,932	14,932	14,932	14,934	14,934	14,934	14,840	14,938	13,250	13,250	13,250	13,250	
12/1/2001	233	422	1,333	2,188	3,307	5,307	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,524	2,524	2,524	2,524	
12/1/2002	246	488	320	238	213	221	213	213	213	213	213	213	213	213	213	213	213	213	213	234	234	234	234		
12/1/2003	163	361	339	571	505	405	455	385	385	385	385	385	385	385	397	397	397	431	431	431	431	431	431		
12/1/2004	277	614	2,824	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,828	2,828	2,857	2,857	2,857	2,857	2,857	2,857	2,857	2,857		
12/1/2005	204	250	207	171	171	171	171	171	171	171	171	171	176	176	201	201	201	201	201	201	201	201	201		
12/1/2006	160	263	633	834	834	834	984	634	634	634	634	624	624	653	653	653	653	653	653	653	653	653	653		
12/1/2007	91	155	131	122	130	128	128	128	128	132	132	150	150	150	150	150	150	150	150	150	150	150	150		
12/1/2008	132	164	184	173	173	173	175	175	174	174	192	192	192	192	192	192	192	192	192	192	192	192	192		
12/1/2009	618	381	2,725	6,473	6,973	6,848	6,828	6,830	6,830	6,849	6,849	6,849	6,849	6,849	6,849	6,849	6,849	6,849	6,849	6,849	6,849	6,849	6,849		
12/1/2010	229	380	514	809	809	809	809	809	819	834	834	834	834	834	834	834	834	834	834	834	834	834	834		
12/1/2011	166	363	762	462	432	432	432	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445		
12/1/2012	213	334	272	282	282	282	302	302	302	302	302	302	302	302	302	302	302	302	302	302	302	302	302		
12/1/2013	740	1,306	3,408	2,907	2,907	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936		
12/1/2014	137	242	215	215	239	239	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309		
12/1/2015	980	1,331	1,566	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520		
12/1/2016	296	514	621	594	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529		
12/1/2017	620	4,542	10,490	10,490	8,990	8,968	8,968	8,968	8,968	8,968	8,968	8,968	8,968	8,968	8,968	8,968	8,968	8,968	8,968	8,968	8,968	8,968	8,968		
12/1/2018	118	558	752	1,122	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157		
12/1/2019	58	190	176	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234		
12/1/2020	275	413	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348		
12/1/2021	133	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305		
12/1/2022	38																								

		Age-to-Age																							
Policy Year		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	240-252	252-264	264-276	276-Ult	
Prior						2,095	0,991	0,615	0,820	0,949	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	0,994	1,007	0,887	1,000	1,000	
12/1/2001	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	1,011	1,000	1,000	1,000		
12/1/2002	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	1,000	1,000	1,000		
12/1/2003	2,215	0,938	1,885	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	1,000	1,000	1,000		
12/1/2004	2,215	4,596	1,003	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	0,998	1,000	1,010	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
12/1/2005	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	1,141	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
12/1/2006	1,645	2,402	1,319	1,000	1,000	1,180	0,644	1,000	0,984	1,000	0,984	1,000	1,047	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
12/1/2007	1,704	0,847	0,933	1,061	0,986	1,000	1,000	1,000	1,028	1,000	1,136	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
12/1/2008	1,246	1,123	0,940	1,000	1,000	1,010	1,000	1,000	0,994	1,000	1,102	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
12/1/2009	0,617	7,154	2,376	1,077	0,982	0,967	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
12/1/2010	1,659	1,353	1,574	1,000	1,000	1,000	1,000	1,012	1,019	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
12/1/2011	2,187	2,098	0,606	0,935	1,000	1,000	1,000	1,031	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
12/1/2012	1,572	0,814	1,037	1,000	1,000	1,073	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
12/1/2013	1,764	2,610	0,853	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	1,000	1,000	1,000	1,000		
12/1/2014	1,763	0,897	1,000	1,114	1,000	1,293	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
12/1/2015	1,358	1,177	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	1,000		
12/1/2016	1,738	1,208	0,957	2,573	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
12/1/2017	7,328	2,309	1,000	0,857	0,998	0,998	0,998	0,998	0,998	0,998	0,998	0,998	0,998	0,998	0,998	0,998	0,998	0,998	0,998	0,998	0,998	0,998	0,998		
12/1/2018	4,744	1,349	1,491	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031		
12/1/2019	3,278	0,928	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332	1,332		
12/1/2020	1,502	0,841	0,841	0,841	0,841	0,841	0,841	0,841	0,841	0,841	0,841	0,841	0,841	0,841	0,841	0,841	0,841	0,841	0,841	0,841	0,841	0,841	0,841		
12/1/2021	2,300																								
12/1/2022																									

		Averages																							
		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	240-252	252-264	264-276	276-Ult	
All Year Average		2,184	1,864	1,173	1,108	1,084	1,006	0,947	0,989	0,999	1,007	1,014	1,004	1,017	1,001	1,011	1,014	1,001	1,001	0,972	1,000	1,000	1,000	1,000	
3 Yr Average		2,360	1,039	1,274	1,487	0,999	1,098	1,000	1,000	1,000	1,000	1,000	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 Yr Average		3,830	1,327	1,150	1,315	1,001	1,073	1,006	1,004	1															

Cook County, Illinois  
Automobile Liability  
Occurrence  
Indemnity and Expense  
Paid Development Triangle  
Data Unlimited (000s)  
As of 11/30/2023

		Age in Months																						
Policy Year	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	
Prior					4,682	11,069	11,154	11,179	11,181	11,182	11,182	14,932	14,932	14,934	14,934	14,934	14,934	14,934	14,934	14,934	14,938	13,250	13,250	13,250
12/1/2001	32	143	181	217	857	857	2,497	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,524	2,524	2,524	
12/1/2002	23	76	125	178	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213	234	234	234	234	
12/1/2003	50	141	246	355	355	355	355	385	385	385	385	385	385	385	397	397	431	431	431	431	431	431	431	
12/1/2004	61	159	353	2,333	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,833	2,828	2,828	2,857	2,857	2,857	2,857	2,857	2,857	2,857	2,857	2,857	
12/1/2005	61	136	164	171	171	171	171	171	171	171	171	171	176	176	201	201	201	201	201	201	201	201	201	
12/1/2006	33	96	200	234	234	234	234	234	634	634	634	624	624	653	653	653	653	653	653	653	653	653	653	
12/1/2007	30	78	101	122	122	128	128	128	128	128	132	132	150	150	150	150	150	150	150	150	150	150	150	
12/1/2008	43	73	163	173	173	173	175	175	174	174	192	192	192	192	192	192	192	192	192	192	192	192	192	
12/1/2009	19	67	95	103	103	828	6,828	6,830	6,830	6,849	6,849	6,849	6,849	6,849	6,849	6,849	6,849	6,849	6,849	6,849	6,849	6,849	6,849	
12/1/2010	42	132	234	809	809	809	809	809	834	834	834	834	834	834	834	834	834	834	834	834	834	834	834	
12/1/2011	40	125	157	202	432	432	432	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	
12/1/2012	35	103	172	282	282	282	302	302	302	302	302	302	302	302	302	302	302	302	302	302	302	302	302	
12/1/2013	78	218	406	2,907	2,907	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	2,936	
12/1/2014	35	72	215	215	239	239	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309	
12/1/2015	54	1,220	1,256	1,510	1,510	1,510	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	1,520	
12/1/2016	95	295	411	444	479	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	
12/1/2017	65	156	239	239	8,739	8,759	8,759	8,759	8,759	8,759	8,759	8,759	8,759	8,759	8,759	8,759	8,759	8,759	8,759	8,759	8,759	8,759	8,759	
12/1/2018	60	162	189	209	1,094	1,094	1,094	1,094	1,094	1,094	1,094	1,094	1,094	1,094	1,094	1,094	1,094	1,094	1,094	1,094	1,094	1,094	1,094	
12/1/2019	28	85	116	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	
12/1/2020	25	98	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	
12/1/2021	33	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	
12/1/2022	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	

		Age-to-Age																					
Policy Year	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	240-252	252-264	264-276	276-Ult
Prior					2,364	1,008	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2001	4.491	1.271	1.199	3.944	1.000	2.914	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2002	3.262	1.645	1.423	1.196	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2003	2.809	1.749	1.039	1.387	1.000	1.000	1.084	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2004	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	1.000	1.000	
12/1/2005	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	1.000	1.000	
12/1/2006	2.932	2.067	1.170	1.000	1.000	1.000	2.709	1.000	1.000	0.984	1.000	1.047	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2007	2.650	1.294	1.209	1.000	1.047	1.000	1.000	1.000	1.028	1.000	1.136	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2008	1.698	2.250	1.061	1.000	1.000	1.010	1.000	0.994	1.000	1.102	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2009	3.603	1.407	1.090	1.000	8.015	8.243	1.000	1.000	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2010	3.124	1.765	3.461	1.000	1.000	1.000	1.000	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	1.000	1.000	
12/1/2011	3.121	1.259	1.287	2.139	1.000	1.000	1.031	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2012	2.905	1.673	1.640	1.000	1.000	1.073	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2013	2.814	1.860	7.158	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	1.000	1.000	1.000	
12/1/2014	2.059	2.982	1.000	1.114	1.000	1.293	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2015	22.491	1.029	1.202	1.000	1.000	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2016	3.114	1.392	1.080	1.079	3.191	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2017	2.415	1.533	1.000	36.546	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2018	2.682	1.166	1.106	5.241	1.002	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2019	3.038	1.366	1.807	1.807	1.807	1.807	1.807	1.807	1.807	1.807	1.807	1.807	1.807	1.807	1.807	1.807	1.807	1.807	1.807	1.807	1.807	1.807	
12/1/2020	3.858	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513	
12/1/2021	4.739	4.739	4.739	4.739	4.739	4.739	4.739	4.739	4.739	4.739	4.739	4.739	4.739	4.739	4.739	4.739	4.739	4.739	4.739	4.739	4.739	4.739	
12/1/2022																							

		Averages																					
Policy Year	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	240-252	252-264	264-276	276-Ult
All Year Average	3.935	1.634	1.926	3.492	1.590	1.562	1.114	1.002	1.002	1.007	1.042	1.004	1.017	1.001	1.011	1.014	1.001	1.001	0.972	1.000	1.000	1.000	1.000
3 Yr Average	3.878	1.348	1.304	14.289	1.731	1.100	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	NA	NA	NA
5 Yr Average	3.346	1.394	1.239	8.996	1.441	1.074	1.006	1.006	1.001	1.020	1.027	1.009	1.028	1.002	1.017	1.020	1.002	1.001					

Cook County, Illinois  
Automobile Liability  
Occurrence  
Indemnity and Expense  
Reported Claim Count Triangle  
Data Unlimited (000s)  
As of 11/30/2023

		Age in Months																					
Policy Year	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276
Prior																			1,054	1,054	1,054	1,054	1,054
12/1/2001	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	112	112	112	112	112	112	112	112
12/1/2002	53	58	58	58	58	58	58	58	58	58	58	58	58	58	74	74	74	74	74	74	74	74	
12/1/2003	81	81	81	81	81	81	81	81	81	81	81	81	81	81	111	111	111	111	111	111	111	111	
12/1/2004	72	72	72	72	72	72	72	72	72	72	72	72	72	91	91	91	91	91	91	91	91	91	
12/1/2005	65	65	65	65	65	65	65	65	65	65	65	65	65	82	82	82	82	82	82	82	82	82	
12/1/2006	59	72	72	72	72	72	72	72	72	72	72	92	92	92	92	92	92	92	92	92	92	92	
12/1/2007	57	57	57	57	57	57	57	57	57	71	71	71	71	71	71	71	71	71	71	71	71	71	
12/1/2008	44	44	44	44	44	44	44	44	44	60	60	60	60	60	60	60	60	60	60	60	60	60	
12/1/2009	55	55	55	55	55	55	55	55	62	62	62	62	62	62	62	62	62	62	62	62	62	62	
12/1/2010	61	61	61	61	61	61	61	61	61	88	88	88	88	88	88	88	88	88	88	88	88	88	
12/1/2011	67	67	67	67	67	67	67	67	67	75	75	75	75	75	75	75	75	75	75	75	75	75	
12/1/2012	49	49	49	49	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
12/1/2013	69	69	69	69	85	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	
12/1/2014	51	51	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	
12/1/2015	58	69	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	
12/1/2016	46	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	
12/1/2017	53	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	
12/1/2018	53	59	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	
12/1/2019	29	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
12/1/2020	23	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	
12/1/2021	47	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	
12/1/2022	43																						

		Age-to-Age																							
Policy Year	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	240-252	252-264	264-276	276-Ult		
Prior																									
12/1/2001	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2002	1,094	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2003	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2004	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2005	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2006	1,220	1,007	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,278	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2007	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,246	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2008	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,364	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2009	1,000	1,000	1,000	1,000	1,000	1,000	1,127	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2010	1,000	1,000	1,000	1,000	1,000	1,443	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2011	1,000	1,000	1,000	1,000	1,119	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2012	1,000	1,000	1,000	1,184	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2013	1,000	1,000	1,232	1,012	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2014	1,000	1,216	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2015	1,190	1,014	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2016	1,152	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2017	1,151	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2018	1,113	1,034	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2019	1,207	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2020	1,391	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
12/1/2021	1,213																								
12/1/2022																									

		Averages																							
Policy Year	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	240-252	252-264	264-276	276-Ult		
All Year Average	1.082	1.013	1.012	1.011	1.007	1.028	1.008	1.026	1.019	1.023	1.024	1.026	1.041	1.034	1.057	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
3 Yr Average	1.270	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	1.000	1.000	1.000	1.000	1.000			
5 Yr Average	1.215	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
3 Yr Wtd Average	1.253	1.016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
5 Yr Wtd Average	1.190	1.008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
Avg X Hi-Lo (3yr X 2)	1.213	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
Avg X Hi-Lo (5yr X 2)	1.190	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
Prior	1.000	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
Industry	1.077	1.009	1.004	1.002	1.002</																				



**Cook County, Illinois  
Law Enforcement Liability Experience @ 11/30/23  
Losses Limited to Retentions**

Policy Period	Sworn Officers	Retention	Reported Claims	Open Claims	Incurred	Paid	Case	Est IBNR	Total O/S	Ultimate	Ultimate Loss Rate
	(1)	(2)	(3)	(3a)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
							[(4)-(5)]		[(6)+(7)]	[(4)+(7)]	[(9)/(1)]

Historical Experience											
Prior		Various	109	12	136,721,734	31,721,734	105,000,000	25,278,266	130,278,266	162,000,000	
1-Dec-01		9,500,000	1	-	-	-	-	-	-	-	
1-Dec-02		9,500,000	98	1	5,024,401	1,024,401	4,000,000	75,599	4,075,599	5,100,000	
1-Dec-03		Various	105	-	54,222,303	54,222,303	-	-	-	54,222,303	
1-Dec-04		10,000,000	104	-	1,405,052	1,405,052	-	14,948	14,948	1,420,000	
1-Dec-05		10,000,000	140	1	4,158,785	3,658,785	500,000	111,215	611,215	4,270,000	
1-Dec-06		10,000,000	183	-	2,403,373	2,403,373	-	-	-	2,403,373	
1-Dec-07		10,000,000	192	-	13,696,710	13,696,710	-	173,290	173,290	13,870,000	
1-Dec-08		10,000,000	243	-	4,392,748	4,392,748	-	-	-	4,392,748	
1-Dec-09		10,000,000	228	1	6,602,655	6,601,655	1,000	7,345	8,345	6,610,000	
1-Dec-10		10,000,000	210	1	31,268,025	31,168,025	100,000	131,975	231,975	31,400,000	
1-Dec-11		10,000,000	370	2	4,256,958	3,329,458	927,500	2,163,042	3,090,542	6,420,000	
1-Dec-12		Various	445	2	10,230,334	9,580,334	650,000	719,666	1,369,666	10,950,000	
1-Dec-13		15,000,000	625	3	32,479,100	13,229,100	19,250,000	2,420,900	21,670,900	34,900,000	
1-Dec-14	6,022	15,000,000	393	12	5,353,819	3,878,819	1,475,000	1,746,181	3,221,181	7,100,000	1,179
1-Dec-15	5,881	15,000,000	350	18	14,919,644	5,767,142	9,152,502	2,380,356	11,532,858	17,300,000	2,942
1-Dec-16	5,451	15,000,000	307	29	11,653,808	8,463,608	3,190,200	2,846,192	6,036,392	14,500,000	2,660
1-Dec-17	5,319	Various	258	45	8,388,932	2,666,882	5,722,050	5,411,068	11,133,118	13,800,000	2,594
1-Dec-18	5,054	20,000,000	173	66	9,000,435	2,743,085	6,257,350	6,999,565	13,256,915	16,000,000	3,166
1-Dec-19	4,883	Various	160	80	18,027,545	1,592,194	16,435,351	8,972,455	25,407,806	27,000,000	5,529
1-Dec-20	4,759	30,000,000	97	56	23,430,792	2,123,792	21,307,000	14,569,208	35,876,208	38,000,000	7,985
1-Dec-21	4,774	30,000,000	79	48	49,864,965	85,964	49,779,001	32,135,035	81,914,036	82,000,000	17,176
1-Dec-22	4,609	30,000,000	41	26	20,771,025	26,000	20,745,025	27,228,975	47,974,000	48,000,000	10,414
<b>Total</b>	<b>46,752</b>		<b>4,911</b>	<b>403</b>	<b>468,273,145</b>	<b>203,781,166</b>	<b>264,491,979</b>	<b>133,385,279</b>	<b>397,877,258</b>	<b>601,658,424</b>	<b>5,640</b>

Full Policy Period Projections											
1-Dec-23	4,436	30,000,000								29,400,000	6,635
1-Dec-24	4,436	30,000,000								30,600,000	6,890



**Cook County, Illinois  
Law Enforcement Liability**

**Law Enforcement Liability Experience @ 11/30/23  
Summary of Various Reserving Methods  
Losses Limited to Retentions**

(1) Policy Period Inception	(2) Chain Ladder			(5) Bornhuetter-Ferguson		(7) Generalized Cape Cod		(8) Freq/Sev	(9)	(10) Selected Ultimate
	Incurred	Paid	Outstanding	Incurred	Paid	Incurred	Paid			
Prior	\$ 137,889,276	\$ 32,076,966	\$ 477,734,226	N/A	N/A	N/A	N/A	\$ 137,889,276	\$ 162,000,000	
1-Dec-01	\$ -	\$ -	\$ -	N/A	N/A	N/A	N/A	\$ -	\$ -	
1-Dec-02	\$ 5,096,826	\$ 1,049,791	\$ 10,722,160	N/A	N/A	N/A	N/A	\$ 5,096,826	\$ 5,100,000	
1-Dec-03	\$ 55,201,253	\$ 55,767,627	\$ 54,222,303	N/A	N/A	N/A	N/A	\$ 55,201,253	\$ 54,222,303	
1-Dec-04	\$ 1,436,750	\$ 1,451,496	\$ 1,405,052	N/A	N/A	N/A	N/A	\$ 1,436,750	\$ 1,420,000	
1-Dec-05	\$ 4,271,432	\$ 3,796,470	\$ 5,491,455	N/A	N/A	N/A	N/A	\$ 4,271,432	\$ 4,270,000	
1-Dec-06	\$ 2,479,402	\$ 2,504,866	\$ 2,403,373	N/A	N/A	N/A	N/A	\$ 2,479,402	\$ 2,403,373	
1-Dec-07	\$ 14,192,592	\$ 14,338,398	\$ 13,696,710	N/A	N/A	N/A	N/A	\$ 14,192,592	\$ 13,870,000	
1-Dec-08	\$ 4,571,955	\$ 4,618,939	\$ 4,392,748	N/A	N/A	N/A	N/A	\$ 4,571,955	\$ 4,392,748	
1-Dec-09	\$ 6,904,039	\$ 6,973,947	\$ 6,607,142	N/A	N/A	N/A	N/A	\$ 6,890,258	\$ 6,610,000	
1-Dec-10	\$ 32,847,644	\$ 33,079,207	\$ 31,764,472	N/A	N/A	N/A	N/A	\$ 32,772,922	\$ 31,400,000	
1-Dec-11	\$ 4,492,857	\$ 3,550,092	\$ 9,306,805	N/A	N/A	N/A	N/A	\$ 4,564,225	\$ 6,420,000	
1-Dec-12	\$ 10,890,539	\$ 10,324,655	\$ 13,665,826	N/A	N/A	N/A	N/A	\$ 11,007,717	\$ 10,950,000	
1-Dec-13	\$ 34,895,655	\$ 14,492,866	\$ 106,752,295	N/A	N/A	N/A	N/A	\$ 34,857,580	\$ 34,900,000	
1-Dec-14	\$ 5,858,319	\$ 4,366,520	\$ 10,320,681	\$ 7,783,478	\$ 7,030,009	\$ 6,388,566	\$ 4,425,537	\$ 6,037,969	\$ 7,100,000	
1-Dec-15	\$ 16,924,002	\$ 6,848,833	\$ 42,358,001	\$ 18,256,654	\$ 10,217,266	\$ 16,606,695	\$ 6,650,698	\$ 16,983,266	\$ 17,300,000	
1-Dec-16	\$ 13,707,481	\$ 10,698,286	\$ 19,746,523	\$ 15,700,100	\$ 14,104,974	\$ 13,950,291	\$ 9,686,096	\$ 13,842,591	\$ 14,500,000	
1-Dec-17	\$ 10,353,911	\$ 4,167,769	\$ 14,764,200	\$ 13,816,247	\$ 12,965,422	\$ 11,860,494	\$ 4,832,392	\$ 10,640,007	\$ 13,800,000	
1-Dec-18	\$ 12,147,675	\$ 5,334,165	\$ 16,152,528	\$ 16,169,640	\$ 16,184,611	\$ 14,424,916	\$ 5,579,456	\$ 12,278,915	\$ 16,000,000	
1-Dec-19	\$ 27,449,031	\$ 4,967,592	\$ 34,804,437	\$ 27,737,707	\$ 20,814,840	\$ 27,147,003	\$ 5,714,327	\$ 27,014,914	\$ 27,000,000	
1-Dec-20	\$ 40,840,856	\$ 14,665,588	\$ 44,608,400	\$ 35,609,665	\$ 26,555,950	\$ 37,762,133	\$ 7,589,601	\$ 38,526,672	\$ 38,000,000	
1-Dec-21	\$ 175,407,862	\$ 2,754,255	\$ 190,648,144	\$ 71,153,311	\$ 28,901,578	\$ 81,631,682	\$ 6,498,032	\$ 131,019,200	\$ 82,000,000	
1-Dec-22	\$ 245,967,864	\$ 8,720,403	\$ 253,917,614	\$ 47,950,983	\$ 29,624,389	\$ 64,825,763	\$ 6,614,698	\$ 95,173,052	\$ 48,000,000	
Total	\$ 863,827,221	\$ 246,548,731	\$ 1,365,485,094	\$ 254,177,786	\$ 166,399,039	\$ 274,597,544	\$ 57,590,837	\$ 666,748,773	\$ 601,658,424	

Column (2) : from Exhibit 3, Column (5)  
 Column (3) : from Exhibit 3, Column (8)  
 Column (4) : from Exhibit 3, Column (11)

Column (5) : from Exhibit 7, Column (11)  
 Column (6) : from Exhibit 8, Column (11)  
 Column (7) : from Exhibit 4, Column (11)  
 Column (8) : from Exhibit 5, Column (11)

Column (9) : from Exhibit 6, Column (11)  
 Column (10) : Ultimate



**Cook County, Illinois  
Law Enforcement Liability**

**Law Enforcement Liability Experience @ 11/30/23  
Unpaid Liabilities at Various Discount Rates  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.48%
Prior	276	Various	\$ 162,000,000	\$ 136,721,734	\$ 31,721,734	\$ 105,000,000	\$ 25,278,266	\$ 130,278,266	\$ 112,867,007
1-Dec-01	264	\$ 9,500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-02	252	\$ 9,500,000	\$ 5,100,000	\$ 5,024,401	\$ 1,024,401	\$ 4,000,000	\$ 75,599	\$ 4,075,599	\$ 3,606,722
1-Dec-03	240	Various	\$ 54,222,303	\$ 54,222,303	\$ 54,222,303	\$ -	\$ -	\$ -	\$ -
1-Dec-04	228	\$ 10,000,000	\$ 1,420,000	\$ 1,405,052	\$ 1,405,052	\$ -	\$ 14,948	\$ 14,948	\$ 12,656
1-Dec-05	216	\$ 10,000,000	\$ 4,270,000	\$ 4,158,785	\$ 3,658,785	\$ 500,000	\$ 111,215	\$ 611,215	\$ 507,365
1-Dec-06	204	\$ 10,000,000	\$ 2,403,373	\$ 2,403,373	\$ 2,403,373	\$ -	\$ -	\$ -	\$ -
1-Dec-07	192	\$ 10,000,000	\$ 13,870,000	\$ 13,696,710	\$ 13,696,710	\$ -	\$ 173,290	\$ 173,290	\$ 138,235
1-Dec-08	180	\$ 10,000,000	\$ 4,392,748	\$ 4,392,748	\$ 4,392,748	\$ -	\$ -	\$ -	\$ -
1-Dec-09	168	\$ 10,000,000	\$ 6,610,000	\$ 6,602,655	\$ 6,601,655	\$ 1,000	\$ 7,345	\$ 8,345	\$ 6,400
1-Dec-10	156	\$ 10,000,000	\$ 31,400,000	\$ 31,268,025	\$ 31,168,025	\$ 100,000	\$ 131,975	\$ 231,975	\$ 174,505
1-Dec-11	144	\$ 10,000,000	\$ 6,420,000	\$ 4,256,958	\$ 3,329,458	\$ 927,500	\$ 2,163,042	\$ 3,090,542	\$ 2,280,199
1-Dec-12	132	Various	\$ 10,950,000	\$ 10,230,334	\$ 9,580,334	\$ 650,000	\$ 719,666	\$ 1,369,666	\$ 1,011,483
1-Dec-13	120	\$ 15,000,000	\$ 34,900,000	\$ 32,479,100	\$ 13,229,100	\$ 19,250,000	\$ 2,420,900	\$ 21,670,900	\$ 16,334,882
1-Dec-14	108	\$ 15,000,000	\$ 7,100,000	\$ 5,353,819	\$ 3,878,819	\$ 1,475,000	\$ 1,746,181	\$ 3,221,181	\$ 2,505,011
1-Dec-15	96	\$ 15,000,000	\$ 17,300,000	\$ 14,919,644	\$ 5,767,142	\$ 9,152,502	\$ 2,380,356	\$ 11,532,858	\$ 9,373,308
1-Dec-16	84	\$ 15,000,000	\$ 14,500,000	\$ 11,653,808	\$ 8,463,608	\$ 3,190,200	\$ 2,846,192	\$ 6,036,392	\$ 4,989,723
1-Dec-17	72	Various	\$ 13,800,000	\$ 8,388,932	\$ 2,666,882	\$ 5,722,050	\$ 5,411,068	\$ 11,133,118	\$ 9,666,787
1-Dec-18	60	\$ 20,000,000	\$ 16,000,000	\$ 9,000,435	\$ 2,743,085	\$ 6,257,350	\$ 6,999,565	\$ 13,256,915	\$ 11,519,463
1-Dec-19	48	Various	\$ 27,000,000	\$ 18,027,545	\$ 1,592,194	\$ 16,435,351	\$ 8,972,455	\$ 25,407,806	\$ 22,165,458
1-Dec-20	36	\$ 30,000,000	\$ 38,000,000	\$ 23,430,792	\$ 2,123,792	\$ 21,307,000	\$ 14,569,208	\$ 35,876,208	\$ 31,012,529
1-Dec-21	24	\$ 30,000,000	\$ 82,000,000	\$ 49,864,965	\$ 85,964	\$ 49,779,001	\$ 32,135,035	\$ 81,914,036	\$ 69,222,914
1-Dec-22	12	\$ 30,000,000	\$ 48,000,000	\$ 20,771,025	\$ 26,000	\$ 20,745,025	\$ 27,228,975	\$ 47,974,000	\$ 39,033,145
<b>Total</b>			<b>\$ 601,658,424</b>	<b>\$ 468,273,145</b>	<b>\$ 203,781,166</b>	<b>\$ 264,491,979</b>	<b>\$ 133,385,279</b>	<b>\$ 397,877,258</b>	<b>\$ 336,427,789</b>

Column (4) : from Exhibit 1, Column (10)  
Columns (5), (6), (7) : Exhibit 10

Column (8) : Column (4) - Column (5)  
Column (9) : Column (4) - Column (6)  
Column (9) : Column (10) discounted



### Cook County, Illinois Law Enforcement Liability

#### Law Enforcement Liability Experience @ 11/30/23 Incurred, Paid, & Outstanding "Chain Ladder" Methods Losses Limited to Retentions

(1)	(2)	(3)			(4)			(5)			(6)			(7)			(8)			(9)			(10)			(11)		
Policy Period Inception	Evaluation in Months	Incurred Chain-Ladder			Paid Chain-Ladder			Outstanding Chain-Ladder			Case Reserves			Outstanding LDF			Ultimate Loss											
		Incurred Loss	Incurred LDF	Ultimate Loss	Paid Loss	Paid LDF	Ultimate Loss	Paid Loss	Paid LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss									
Prior	276	\$ 136,721,734	1.009	\$ 137,889,276	\$ 31,721,734	1.011	\$ 32,076,966	\$ 105,000,000	4.248	\$ 477,734,226																		
1-Dec-01	264	\$ -	1.011	\$ -	\$ -	1.016	\$ -	\$ -	2.987	\$ -																		
1-Dec-02	252	\$ 5,024,401	1.014	\$ 5,096,826	\$ 1,024,401	1.025	\$ 1,049,791	\$ 4,000,000	2.424	\$ 10,722,160																		
1-Dec-03	240	\$ 54,222,303	1.018	\$ 55,201,253	\$ 54,222,303	1.028	\$ 55,767,627	\$ -	2.778	\$ 54,222,303																		
1-Dec-04	228	\$ 1,405,052	1.023	\$ 1,436,750	\$ 1,405,052	1.033	\$ 1,451,496	\$ -	3.221	\$ 1,405,052																		
1-Dec-05	216	\$ 4,158,785	1.027	\$ 4,271,432	\$ 3,658,785	1.038	\$ 3,796,470	\$ 500,000	3.665	\$ 5,491,455																		
1-Dec-06	204	\$ 2,403,373	1.032	\$ 2,479,402	\$ 2,403,373	1.042	\$ 2,504,866	\$ -	4.112	\$ 2,403,373																		
1-Dec-07	192	\$ 13,696,710	1.036	\$ 14,192,592	\$ 13,696,710	1.047	\$ 14,338,398	\$ -	4.560	\$ 13,696,710																		
1-Dec-08	180	\$ 4,392,748	1.041	\$ 4,571,955	\$ 4,392,748	1.051	\$ 4,618,939	\$ -	5.011	\$ 4,392,748																		
1-Dec-09	168	\$ 6,602,655	1.046	\$ 6,904,039	\$ 6,601,655	1.056	\$ 6,973,947	\$ 1,000	5.486	\$ 6,607,142																		
1-Dec-10	156	\$ 31,268,025	1.051	\$ 32,847,644	\$ 31,168,025	1.061	\$ 33,079,207	\$ 100,000	5.964	\$ 31,764,472																		
1-Dec-11	144	\$ 4,256,958	1.055	\$ 4,492,857	\$ 3,329,458	1.066	\$ 3,550,092	\$ 927,500	6.445	\$ 9,306,805																		
1-Dec-12	132	\$ 10,230,334	1.065	\$ 10,890,539	\$ 9,580,334	1.078	\$ 10,324,655	\$ 650,000	6.285	\$ 13,665,826																		
1-Dec-13	120	\$ 32,479,100	1.074	\$ 34,895,655	\$ 13,229,100	1.096	\$ 14,492,866	\$ 19,250,000	4.858	\$ 106,752,295																		
1-Dec-14	108	\$ 5,353,819	1.094	\$ 5,858,319	\$ 3,878,819	1.126	\$ 4,366,520	\$ 1,475,000	4.367	\$ 10,320,681																		
1-Dec-15	96	\$ 14,919,644	1.134	\$ 16,924,002	\$ 5,767,142	1.188	\$ 6,848,833	\$ 9,152,502	3.998	\$ 42,358,001																		
1-Dec-16	84	\$ 11,653,808	1.176	\$ 13,707,481	\$ 8,463,608	1.264	\$ 10,698,286	\$ 3,190,200	3.537	\$ 19,746,523																		
1-Dec-17	72	\$ 8,388,932	1.234	\$ 10,353,911	\$ 2,666,882	1.563	\$ 4,167,769	\$ 5,722,050	2.114	\$ 14,764,200																		
1-Dec-18	60	\$ 9,000,435	1.350	\$ 12,147,675	\$ 2,743,085	1.945	\$ 5,334,165	\$ 6,257,350	2.143	\$ 16,152,528																		
1-Dec-19	48	\$ 18,027,545	1.523	\$ 27,449,031	\$ 1,592,194	3.120	\$ 4,967,592	\$ 16,435,351	2.021	\$ 34,804,437																		
1-Dec-20	36	\$ 23,430,792	1.743	\$ 40,840,856	\$ 2,123,792	6.905	\$ 14,665,588	\$ 21,307,000	1.994	\$ 44,608,400																		
1-Dec-21	24	\$ 49,864,965	3.518	\$ 175,407,862	\$ 85,964	32.040	\$ 2,754,255	\$ 49,779,001	3.828	\$ 190,648,144																		
1-Dec-22	12	\$ 20,771,025	11.842	\$ 245,967,864	\$ 26,000	335.400	\$ 8,720,403	\$ 20,745,025	12.239	\$ 253,917,614																		
Total		\$ 468,273,145		\$ 863,827,221	\$ 203,781,166		\$ 246,548,731	\$ 264,491,979		\$ 1,365,485,094																		

Columns (3), (6), (9) : Exhibit 10

Column (4) & (7) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (8) : Column (6) X Column (7)

Column (10) : Outstanding LDF = (Incurred LDF - 1) X Paid LDF / (Paid LDF - Incurred LDF) + 1

Column (11) : Column (9) X Column (10) + Column (6)





**Cook County, Illinois  
Law Enforcement Liability**

**Law Enforcement Liability Experience @ 11/30/23  
Generalized Cape Cod Incurred Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Incurred Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Incurred Loss	Trended Sworn Officers	Incurred LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-14	108	\$ 5,353,819	1.255	1.095	\$ 7,360,475	6,022	1.094	2743	\$ 12,015,605	\$ 6,388,566
1-Dec-15	96	\$ 14,919,644	1.228	1.095	\$ 20,057,764	5,881	1.134	3256	\$ 14,244,790	\$ 16,606,695
1-Dec-16	84	\$ 11,653,808	1.187	1.095	\$ 15,150,209	5,451	1.176	3656	\$ 15,328,142	\$ 13,950,291
1-Dec-17	72	\$ 8,388,932	1.152	1.040	\$ 10,049,937	5,319	1.234	4120	\$ 18,292,433	\$ 11,860,494
1-Dec-18	60	\$ 9,000,435	1.131	1.040	\$ 10,588,212	5,054	1.350	4874	\$ 20,937,338	\$ 14,424,916
1-Dec-19	48	\$ 18,027,545	1.112	1.000	\$ 20,042,292	4,883	1.523	6049	\$ 26,569,089	\$ 27,147,003
1-Dec-20	36	\$ 23,430,792	1.073	1.000	\$ 25,139,652	4,759	1.743	7579	\$ 33,618,730	\$ 37,762,133
1-Dec-21	24	\$ 49,864,965	1.034	1.000	\$ 51,551,019	4,774	3.518	9611	\$ 44,384,286	\$ 81,631,682
1-Dec-22	12	\$ 20,771,025	1.000	1.000	\$ 20,771,025	4,609	11.842	10440	\$ 48,118,125	\$ 64,825,763
Total		\$ 161,410,966			\$ 180,710,585	52,774			\$ 243,639,498	\$ 274,597,544

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (Law Enforcement Liability)

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Law Enforcement Liability**

**Law Enforcement Liability Experience @ 11/30/23  
Generalized Cape Cod Paid Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Paid Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Paid Loss	Trended Sworn Officers	Paid LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-14	108	\$ 3,878,819	1.255	1.095	\$ 5,332,633	6,022	1.126	1117	\$ 4,894,916	\$ 4,425,537
1-Dec-15	96	\$ 5,767,142	1.228	1.095	\$ 7,753,266	5,881	1.188	1279	\$ 5,594,322	\$ 6,650,698
1-Dec-16	84	\$ 8,463,608	1.187	1.095	\$ 11,002,878	5,451	1.264	1396	\$ 5,852,531	\$ 9,686,096
1-Dec-17	72	\$ 2,666,882	1.152	1.040	\$ 3,194,924	5,319	1.563	1354	\$ 6,013,343	\$ 4,832,392
1-Dec-18	60	\$ 2,743,085	1.131	1.040	\$ 3,226,996	5,054	1.945	1359	\$ 5,839,138	\$ 5,579,456
1-Dec-19	48	\$ 1,592,194	1.112	1.000	\$ 1,770,136	4,883	3.120	1381	\$ 6,066,566	\$ 5,714,327
1-Dec-20	36	\$ 2,123,792	1.073	1.000	\$ 2,278,685	4,759	6.905	1441	\$ 6,391,374	\$ 7,589,601
1-Dec-21	24	\$ 85,964	1.034	1.000	\$ 88,871	4,774	32.040	1433	\$ 6,618,644	\$ 6,498,032
1-Dec-22	12	\$ 26,000	1.000	1.000	\$ 26,000	4,609	335.400	1434	\$ 6,608,401	\$ 6,614,698
Total		\$ 27,347,487			\$ 34,674,389	52,774			\$ 57,949,301	\$ 57,590,837

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (Law Enforcement Liability)

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Law Enforcement Liability**

**Law Enforcement Liability Experience @ 11/30/23  
Frequency & Severity Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Reported Claims	Claim CDF	Ultimate Claims	Severity LDF	Reported Severity	Ultimate Reported Severity	Unreported Claims	Ultimate Unreported Severity	Ultimate Loss
Prior	276	109	1.000	109	1.009	\$ 1,254,328	\$ 1,265,039	0	\$ 379,299	\$ 137,889,276
1-Dec-01	264	1	1.000	1	1.011	\$ -	\$ -	0	\$ 278,665	\$ -
1-Dec-02	252	98	1.000	98	1.014	\$ 51,269	\$ 52,008	0	\$ 213,121	\$ 5,096,826
1-Dec-03	240	105	1.000	105	1.018	\$ 516,403	\$ 525,726	0	\$ 180,811	\$ 55,201,253
1-Dec-04	228	104	1.000	104	1.023	\$ 13,510	\$ 13,815	0	\$ 132,175	\$ 1,436,750
1-Dec-05	216	140	1.000	140	1.027	\$ 29,706	\$ 30,510	0	\$ 100,923	\$ 4,271,432
1-Dec-06	204	183	1.000	183	1.032	\$ 13,133	\$ 13,549	0	\$ 81,358	\$ 2,479,402
1-Dec-07	192	192	1.000	192	1.036	\$ 71,337	\$ 73,920	0	\$ 71,057	\$ 14,192,592
1-Dec-08	180	243	1.000	243	1.041	\$ 18,077	\$ 18,815	0	\$ 61,272	\$ 4,571,955
1-Dec-09	168	228	1.002	228	1.044	\$ 28,959	\$ 30,220	0	\$ 57,243	\$ 6,890,258
1-Dec-10	156	210	1.004	211	1.046	\$ 148,895	\$ 155,794	1	\$ 56,275	\$ 32,772,922
1-Dec-11	144	370	1.006	372	1.049	\$ 11,505	\$ 12,070	2	\$ 49,109	\$ 4,564,225
1-Dec-12	132	445	1.008	449	1.056	\$ 22,990	\$ 24,278	4	\$ 50,967	\$ 11,007,717
1-Dec-13	120	625	1.010	631	1.064	\$ 51,967	\$ 55,278	6	\$ 51,466	\$ 34,857,580
1-Dec-14	108	393	1.013	398	1.080	\$ 13,623	\$ 14,714	5	\$ 51,046	\$ 6,037,969
1-Dec-15	96	350	1.016	356	1.116	\$ 42,628	\$ 47,588	6	\$ 54,596	\$ 16,983,266
1-Dec-16	84	307	1.021	314	1.152	\$ 37,960	\$ 43,714	7	\$ 60,321	\$ 13,842,591
1-Dec-17	72	258	1.030	266	1.199	\$ 32,515	\$ 38,979	8	\$ 72,930	\$ 10,640,007
1-Dec-18	60	173	1.042	180	1.295	\$ 52,026	\$ 67,393	7	\$ 88,572	\$ 12,278,915
1-Dec-19	48	160	1.058	169	1.440	\$ 112,672	\$ 162,221	9	\$ 117,737	\$ 27,014,914
1-Dec-20	36	97	1.105	107	1.578	\$ 241,555	\$ 381,057	10	\$ 156,417	\$ 38,526,672
1-Dec-21	24	79	1.412	112	2.491	\$ 631,202	\$ 1,572,324	33	\$ 206,231	\$ 131,019,200
1-Dec-22	12	41	3.403	140	3.480	\$ 506,610	\$ 1,762,777	99	\$ 231,305	\$ 95,173,052
Total		4,911		5,108				197		\$ 666,748,773

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (6) : from {Exhibit 3, Column (4)} / Column (4)

Column (7) : from {Exhibit 3, Column (3)} / Column (3)

Column (8) : Column (6) X Column (7)

Column (9) : Column (5) - Column (3)

Column (10) : Weighted Average of Column (8) adjusted for Trend and Retention

Column (11) : Column (3) X Column (8) + Column (9) X Column (10)



**Cook County, Illinois  
Law Enforcement Liability**

**Law Enforcement Liability Experience @ 11/30/23  
Incurred Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Incurred Losses	Incurred LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	IBNR Factor	IBNR	Expected Ultimate Loss
1-Dec-14	\$ 15,000,000	\$ 5,353,819	1.094	5,130	1.095	4,685	\$ 28,213,486	0.086	\$ 2,429,659	\$ 7,783,478
1-Dec-15	\$ 15,000,000	\$ 14,919,644	1.134	5,247	1.095	4,791	\$ 28,176,385	0.118	\$ 3,337,010	\$ 18,256,654
1-Dec-16	\$ 15,000,000	\$ 11,653,808	1.176	5,426	1.095	4,955	\$ 27,007,450	0.150	\$ 4,046,292	\$ 15,700,100
1-Dec-17	Various	\$ 8,388,932	1.234	5,591	1.040	5,377	\$ 28,597,728	0.190	\$ 5,427,314	\$ 13,816,247
1-Dec-18	\$ 20,000,000	\$ 9,000,435	1.350	5,693	1.040	5,475	\$ 27,671,600	0.259	\$ 7,169,205	\$ 16,169,640
1-Dec-19	Various	\$ 18,027,545	1.523	5,794	1.000	5,794	\$ 28,290,074	0.343	\$ 9,710,162	\$ 27,737,707
1-Dec-20	\$ 30,000,000	\$ 23,430,792	1.743	6,003	1.000	6,003	\$ 28,569,430	0.426	\$ 12,178,873	\$ 35,609,665
1-Dec-21	\$ 30,000,000	\$ 49,864,965	3.518	6,230	1.000	6,230	\$ 29,743,963	0.716	\$ 21,288,346	\$ 71,153,311
1-Dec-22	\$ 30,000,000	\$ 20,771,025	11.842	6,441	1.000	6,441	\$ 29,686,901	0.916	\$ 27,179,958	\$ 47,950,983
Total		\$ 161,410,966					\$ 283,507,607		\$ 94,674,723	\$ 254,177,786

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Sworn Officers) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Law Enforcement Liability**

**Law Enforcement Liability Experience @ 11/30/23  
Paid Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Paid Losses	Paid LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	Unpaid Factor	Unpaid	Expected Ultimate Loss
1-Dec-14	\$ 15,000,000	\$ 3,878,819	1.126	5,130	1.095	4,685	\$ 28,213,486	0.112	\$ 3,151,190	\$ 7,030,009
1-Dec-15	\$ 15,000,000	\$ 5,767,142	1.188	5,247	1.095	4,791	\$ 28,176,385	0.158	\$ 4,450,124	\$ 10,217,266
1-Dec-16	\$ 15,000,000	\$ 8,463,608	1.264	5,426	1.095	4,955	\$ 27,007,450	0.209	\$ 5,641,366	\$ 14,104,974
1-Dec-17	Various	\$ 2,666,882	1.563	5,591	1.040	5,377	\$ 28,597,728	0.360	\$ 10,298,540	\$ 12,965,422
1-Dec-18	\$ 20,000,000	\$ 2,743,085	1.945	5,693	1.040	5,475	\$ 27,671,600	0.486	\$ 13,441,526	\$ 16,184,611
1-Dec-19	Various	\$ 1,592,194	3.120	5,794	1.000	5,794	\$ 28,290,074	0.679	\$ 19,222,646	\$ 20,814,840
1-Dec-20	\$ 30,000,000	\$ 2,123,792	6.905	6,003	1.000	6,003	\$ 28,569,430	0.855	\$ 24,432,157	\$ 26,555,950
1-Dec-21	\$ 30,000,000	\$ 85,964	32.040	6,230	1.000	6,230	\$ 29,743,963	0.969	\$ 28,815,614	\$ 28,901,578
1-Dec-22	\$ 30,000,000	\$ 26,000	335.400	6,441	1.000	6,441	\$ 29,686,901	0.997	\$ 29,598,389	\$ 29,624,389
Total		\$ 27,347,487					\$ 283,507,607		\$ 141,453,942	\$ 166,399,039

Column (3) : supplied by Cook County, Illinois  
 Column (4) : from Exhibit 9  
 Column (5) : from Exhibit 12 detrended for exposure and loss  
 Column (6) : from Exhibit 12  
 Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Sworn Officers) supplied by Cook County, Illinois  
 Column (9) : 1 - 1 / Column (4)  
 Column (10) : Column (8) X Column (9)  
 Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Law Enforcement Liability**

**Law Enforcement Liability Experience @ 11/30/23  
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred LDF's		(4) Paid LDF's		(6) Claim CDF	(7) Trend Factors		(9) Sworn Officers
	Unlimited	Limited	Unlimited	Limited		Loss	Exposure	
Prior	1.010	1.009	1.013	1.011	1.000	1.978	1.000	-
1-Dec-01	1.012	1.011	1.019	1.016	1.000	1.930	1.000	-
1-Dec-02	1.016	1.014	1.028	1.025	1.000	1.850	1.000	-
1-Dec-03	1.020	1.018	1.032	1.028	1.000	1.786	1.000	-
1-Dec-04	1.026	1.023	1.037	1.033	1.000	1.714	1.000	-
1-Dec-05	1.031	1.027	1.043	1.038	1.000	1.654	1.000	-
1-Dec-06	1.036	1.032	1.048	1.042	1.000	1.594	1.000	-
1-Dec-07	1.041	1.036	1.053	1.047	1.000	1.535	1.000	-
1-Dec-08	1.046	1.041	1.058	1.051	1.000	1.504	1.000	-
1-Dec-09	1.051	1.046	1.064	1.056	1.002	1.461	1.000	-
1-Dec-10	1.057	1.051	1.069	1.061	1.004	1.409	1.000	-
1-Dec-11	1.062	1.055	1.074	1.066	1.006	1.367	1.000	-
1-Dec-12	1.070	1.065	1.085	1.078	1.008	1.322	1.000	-
1-Dec-13	1.081	1.074	1.105	1.096	1.010	1.286	1.000	6,022
1-Dec-14	1.103	1.094	1.138	1.126	1.013	1.255	1.000	6,022
1-Dec-15	1.147	1.134	1.206	1.188	1.016	1.228	1.000	5,881
1-Dec-16	1.193	1.176	1.290	1.264	1.021	1.187	1.000	5,451
1-Dec-17	1.253	1.234	1.613	1.563	1.030	1.152	1.000	5,319
1-Dec-18	1.378	1.350	2.032	1.945	1.042	1.131	1.000	5,054
1-Dec-19	1.556	1.523	3.280	3.120	1.058	1.112	1.000	4,883
1-Dec-20	1.789	1.743	7.380	6.905	1.105	1.073	1.000	4,759
1-Dec-21	3.678	3.518	34.638	32.040	1.412	1.034	1.000	4,774
1-Dec-22	12.507	11.842	363.700	335.400	3.403	1.000	1.000	4,609

Methods Included in Analysis :  
Source Used for LDFs :

**Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity  
Company Exclusively**

LDF Annual Decay Rate (Incurred/Paid/Clm Count):  
ELR for B/F Method :  
Generalized Cape Cod Decay Factor:  
Loss Limitation :  
Discount Rates :

**0.75                      0.75                      0.75**  
**6635**  
**0.75**  
**Exhibit 10, Column (5)**  
**4.48%                      0.00%                      0.00%**

**Column (2) : Company Exclusively**  
**Column (3) : Exhibit 13, Sheet 1, Column (15)**  
**Column (4) : Company Exclusively**

**Column (5) : Exhibit 13, Sheet 2, Column (15)**  
**Column (6) : Company Exclusively**  
**Column (7) : Aon Compilation of Estimated Trends**

**Column (8) : Flat 0.00%**  
**Column (9) : supplied by Cook County, Illinois**



**Cook County, Illinois  
Law Enforcement Liability**

**Law Enforcement Liability Experience @ 11/30/23  
Limited Loss Calculations**

(1) Policy Period Inception	(2) Unlimited			(5) Retention	(6) Claims valued over the Retention			(10) Limited			
	Incurred	Paid	Case O/S		No.	Incurred	No.	Paid	Incurred	Paid	Case O/S
Prior	\$ 136,721,734	\$ 31,721,734	\$ 105,000,000	Various	-	\$ -	-	\$ -	\$ 136,721,734	\$ 31,721,734	\$ 105,000,000
1-Dec-01	\$ -	\$ -	\$ -	\$ 9,500,000	-	\$ -	-	\$ -	\$ -	\$ -	\$ -
1-Dec-02	\$ 5,024,401	\$ 1,024,401	\$ 4,000,000	\$ 9,500,000	-	\$ -	-	\$ -	\$ 5,024,401	\$ 1,024,401	\$ 4,000,000
1-Dec-03	\$ 54,222,303	\$ 54,222,303	\$ -	Various	-	\$ -	-	\$ -	\$ 54,222,303	\$ 54,222,303	\$ -
1-Dec-04	\$ 1,405,052	\$ 1,405,052	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	\$ 1,405,052	\$ 1,405,052	\$ -
1-Dec-05	\$ 4,158,785	\$ 3,658,785	\$ 500,000	\$ 10,000,000	-	\$ -	-	\$ -	\$ 4,158,785	\$ 3,658,785	\$ 500,000
1-Dec-06	\$ 2,403,373	\$ 2,403,373	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	\$ 2,403,373	\$ 2,403,373	\$ -
1-Dec-07	\$ 13,696,710	\$ 13,696,710	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	\$ 13,696,710	\$ 13,696,710	\$ -
1-Dec-08	\$ 4,392,748	\$ 4,392,748	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	\$ 4,392,748	\$ 4,392,748	\$ -
1-Dec-09	\$ 6,602,655	\$ 6,601,655	\$ 1,000	\$ 10,000,000	-	\$ -	-	\$ -	\$ 6,602,655	\$ 6,601,655	\$ 1,000
1-Dec-10	\$ 31,268,025	\$ 31,168,025	\$ 100,000	\$ 10,000,000	-	\$ -	-	\$ -	\$ 31,268,025	\$ 31,168,025	\$ 100,000
1-Dec-11	\$ 4,256,958	\$ 3,329,458	\$ 927,500	\$ 10,000,000	-	\$ -	-	\$ -	\$ 4,256,958	\$ 3,329,458	\$ 927,500
1-Dec-12	\$ 10,230,334	\$ 9,580,334	\$ 650,000	Various	-	\$ -	-	\$ -	\$ 10,230,334	\$ 9,580,334	\$ 650,000
1-Dec-13	\$ 32,479,100	\$ 13,229,100	\$ 19,250,000	\$ 15,000,000	-	\$ -	-	\$ -	\$ 32,479,100	\$ 13,229,100	\$ 19,250,000
1-Dec-14	\$ 5,353,819	\$ 3,878,819	\$ 1,475,000	\$ 15,000,000	-	\$ -	-	\$ -	\$ 5,353,819	\$ 3,878,819	\$ 1,475,000
1-Dec-15	\$ 14,919,644	\$ 5,767,142	\$ 9,152,502	\$ 15,000,000	-	\$ -	-	\$ -	\$ 14,919,644	\$ 5,767,142	\$ 9,152,502
1-Dec-16	\$ 11,653,808	\$ 8,463,608	\$ 3,190,200	\$ 15,000,000	-	\$ -	-	\$ -	\$ 11,653,808	\$ 8,463,608	\$ 3,190,200
1-Dec-17	\$ 8,388,932	\$ 2,666,882	\$ 5,722,050	Various	-	\$ -	-	\$ -	\$ 8,388,932	\$ 2,666,882	\$ 5,722,050
1-Dec-18	\$ 9,000,435	\$ 2,743,085	\$ 6,257,350	\$ 20,000,000	-	\$ -	-	\$ -	\$ 9,000,435	\$ 2,743,085	\$ 6,257,350
1-Dec-19	\$ 18,027,545	\$ 1,592,194	\$ 16,435,351	Various	-	\$ -	-	\$ -	\$ 18,027,545	\$ 1,592,194	\$ 16,435,351
1-Dec-20	\$ 23,430,792	\$ 2,123,792	\$ 21,307,000	\$ 30,000,000	-	\$ -	-	\$ -	\$ 23,430,792	\$ 2,123,792	\$ 21,307,000
1-Dec-21	\$ 49,864,965	\$ 85,964	\$ 49,779,001	\$ 30,000,000	-	\$ -	-	\$ -	\$ 49,864,965	\$ 85,964	\$ 49,779,001
1-Dec-22	\$ 20,771,025	\$ 26,000	\$ 20,745,025	\$ 30,000,000	-	\$ -	-	\$ -	\$ 20,771,025	\$ 26,000	\$ 20,745,025
	\$ 468,273,145	\$ 203,781,166	\$ 264,491,979		-	\$ -	-	\$ -	\$ 468,273,145	\$ 203,781,166	\$ 264,491,979

Column (2) and Column (3) : Supplied by Cook County, Illinois

Column (4) : Column (2) - Column (3)

Column (5) : Individual loss limitation

Column (6) through Column (9) : supplied by Cook County, Illinois

Column (10) : Column (2) - Column (7) + [Column (5) x Column (6)]

Column (11) : Column (3) - Column (9) + [Column (5) x Column (8)]



**Cook County, Illinois  
Law Enforcement Liability**

**Law Enforcement Liability Experience @ 11/30/23  
Selected Ultimate Claim Counts**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Policy Period Inception	Trended Sworn Officers	Reported Claims	Claim CDF	Chain-Ladder Developed Claims	Frequency Trend	Trended Developed Claims	Trended Frequency Rate	Bornhuetter-Ferguson Developed	Selected Trended Claims	Selected Untrended Claims	Trended Frequency Rate
1-Dec-14	6,022	393	1.013	398	1.000	398	6.61137%		398	398	6.61137%
1-Dec-15	5,881	350	1.016	356	1.000	356	6.04724%		356	356	6.04724%
1-Dec-16	5,451	307	1.021	314	1.000	314	5.75250%		314	314	5.75250%
1-Dec-17	5,319	258	1.030	266	1.000	266	4.99395%		266	266	4.99395%
1-Dec-18	5,054	173	1.042	180	1.000	180	3.56653%		180	180	3.56653%
1-Dec-19	4,883	160	1.058	169	1.000	169	3.46525%		169	169	3.46525%
1-Dec-20	4,759	97	1.105	107	1.000	107	2.25211%		107	107	2.25211%
1-Dec-21	4,774	79	1.412	112	1.000	112	2.33682%		112	112	2.33682%
1-Dec-22	4,609	41	3.403	140	1.000	140	3.02743%		140	140	3.02743%
Total	52,774	1,858		2,041		2,041	3.86687%		2,041	2,042	3.86687%

Column (2) : from Exhibit 4  
 Column (3) : supplied by Cook County, Illinois  
 Column (4) : from Exhibit 9

Column (5) : Column (3) x Column (4)  
 Column (6) : Assumption  
 Column (7) : Column (5) x Column (6)  
 Column (8) : Column (7) / Column (2)

Column (9) : Bornhuetter Method = (3) + (1.0 - 1.0 / (4)) x 475  
 Column (10) : Selected Trended Ultimate Claims  
 Column (11) : Column (10) / Column (6)  
 Column (12) : Column (10) / Column (2)

Selected Frequency Rate for Renewal Policy Period 1-Dec-23											
<u>Weighted Averages through and including Policy Period 1-Dec-22</u>											
Last 5 Policies	24,079					708	2.93921%		708		2.93921%
Last 3 Policies	14,142					358	2.53339%		358		2.53339%
Last 2 Policies	9,383					251	2.67605%		251		2.67605%
Last 9 Policies	46,752					2,041	4.36496%		2,041		4.36496%
Selected Bornhuetter-Ferguson Frequency Rate										<b>4.90000%</b>	
Factor to adjust the Claims / Exposure Trend Rate from Policy Period 1-Dec-22 to Renewal Period 1-Dec-23										1.000	
Selected Frequency Rate adjusted to the Renewal Policy Period Level										4.90000%	
Sworn Officers for 1-Dec-23										4,436	
Projected Count for 1-Dec-23										217	





**Cook County, Illinois  
Law Enforcement Liability  
Law Enforcement Liability Experience @ 11/30/23  
Losses Limited to Retentions**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
<b>Policy Period Inception</b>	<b>Incurred Loss</b>	<b>Selected Ultimate Loss</b>	<b>Loss Trend Factor</b>	<b>Retention Adjustment Factor</b>	<b>Trended Ultimate Loss</b>	<b>Sworn Officers</b>	<b>Exposure Trend Factor</b>	<b>Trended Sworn Officers</b>	<b>Trended Loss Rate</b>
1-Dec-13	32,479,100	34,900,000	1.324	1.095	50,614,436	6,022	1.000	6,022	8,405
1-Dec-14	5,353,819	7,100,000	1.293	1.095	10,054,986	6,022	1.000	6,022	1,670
1-Dec-15	14,919,644	17,300,000	1.265	1.095	23,958,032	5,881	1.000	5,881	4,074
1-Dec-16	11,653,808	14,500,000	1.223	1.095	19,417,787	5,451	1.000	5,451	3,562
1-Dec-17	8,388,932	13,800,000	1.187	1.040	17,030,080	5,319	1.000	5,319	3,202
1-Dec-18	9,000,435	16,000,000	1.165	1.040	19,389,208	5,054	1.000	5,054	3,836
1-Dec-19	18,027,545	27,000,000	1.145	1.000	30,921,143	4,883	1.000	4,883	6,332
1-Dec-20	23,430,792	38,000,000	1.105	1.000	41,998,797	4,759	1.000	4,759	8,825
1-Dec-21	49,864,965	82,000,000	1.065	1.000	87,324,590	4,774	1.000	4,774	18,292
1-Dec-22	20,771,025	48,000,000	1.030	1.000	49,444,980	4,609	1.000	4,609	10,728
<b>All Year Weighted Average</b>					350,154,039			52,774	6,635
<b>Latest 5-Year Weighted Average</b>					229,078,718			24,079	9,514
<b>Latest 3-Year Weighted Average</b>					178,768,367			14,142	12,641
<b>SELECTED - Based on Shaded PY</b>					252,774,463			41,978	<b>6,635</b>

Column (1) : from Exhibit 10 Column (10)

Column (2) : from Exhibit 2, Column (10)

Column (3) : Trend Indices appropriate for Law Enforcement Liability

Column (4) : from Retention Analysis

Column (5) : Column (2) x Column (3) x Column (4)

Column (6) : supplied by Cook County, Illinois

Column (7) : Annual Exposure Trend

Column (8) : Column (6) x Column (7)

Column (9) : Column (5) / Column (8)

Renewal Projections (Losses and Claims developed to Ultimate)					
(10)	(11)	(12)	(13)	(14)	(15)
<b>Policy Period Inception</b>	<b>Retention</b>	<b>Sworn Officers</b>	<b>Claim Count</b>	<b>Loss Rate</b>	<b>Loss Amount</b>
1-Dec-23	30,000,000	4,436	217	6,635	29,400,000
1-Dec-24	30,000,000	4,436	217	6,890	30,600,000
1-Dec-25	30,000,000	4,436	217	7,133	31,600,000

Columns (11) - (15) : Projections. These are preliminary and should be monitored with actuarial updates.



**Cook County, Illinois  
Law Enforcement Liability**

Average : \$112,797    sigma = 2.420  
CV : 18.67            mu = 8.705

**Limitation of Incurred LDF's for Law Enforcement Liability**

Evaluation	(1) Incurred LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.010	1.000	9,500,000	3.042	0.622	0.999	0.733	93,847	9,592,101	3.046	0.626	0.999	0.734	93,955	1.009
264	1.012	1.000	9,500,000	3.042	0.622	0.999	0.733	93,847	9,617,026	3.047	0.627	0.999	0.735	93,984	1.011
252	1.016	1.000	9,500,000	3.042	0.622	0.999	0.733	93,847	9,655,494	3.049	0.629	0.999	0.735	94,028	1.014
240	1.020	1.000	10,000,000	3.063	0.643	0.999	0.740	94,414	10,204,332	3.072	0.652	0.999	0.743	94,635	1.018
228	1.026	1.000	10,000,000	3.063	0.643	0.999	0.740	94,414	10,255,354	3.074	0.654	0.999	0.743	94,689	1.023
216	1.031	1.000	10,000,000	3.063	0.643	0.999	0.740	94,414	10,306,631	3.076	0.656	0.999	0.744	94,743	1.027
204	1.036	1.000	10,000,000	3.063	0.643	0.999	0.740	94,414	10,358,164	3.078	0.658	0.999	0.745	94,797	1.032
192	1.041	1.000	10,000,000	3.063	0.643	0.999	0.740	94,414	10,409,955	3.080	0.660	0.999	0.745	94,851	1.036
180	1.046	1.000	10,000,000	3.063	0.643	0.999	0.740	94,414	10,462,005	3.082	0.662	0.999	0.746	94,905	1.041
168	1.051	1.002	10,000,000	3.063	0.643	0.999	0.740	94,414	10,493,328	3.083	0.663	0.999	0.746	94,937	1.046
156	1.057	1.004	10,000,000	3.063	0.643	0.999	0.740	94,414	10,524,745	3.084	0.664	0.999	0.747	94,969	1.051
144	1.062	1.006	10,000,000	3.063	0.643	0.999	0.740	94,414	10,556,256	3.086	0.666	0.999	0.747	95,001	1.055
132	1.070	1.008	15,000,000	3.231	0.811	0.999	0.791	98,511	15,929,201	3.256	0.836	0.999	0.798	99,060	1.065
120	1.081	1.010	15,000,000	3.231	0.811	0.999	0.791	98,511	16,056,380	3.259	0.839	0.999	0.799	99,131	1.074
108	1.103	1.013	15,000,000	3.231	0.811	0.999	0.791	98,511	16,328,522	3.266	0.846	0.999	0.801	99,282	1.094
96	1.147	1.016	15,000,000	3.231	0.811	0.999	0.791	98,511	16,930,871	3.281	0.861	0.999	0.805	99,602	1.134
84	1.193	1.021	15,000,000	3.231	0.811	0.999	0.791	98,511	17,516,970	3.295	0.875	1.000	0.809	99,898	1.176
72	1.253	1.030	20,000,000	3.350	0.930	1.000	0.824	101,006	24,334,636	3.431	1.011	1.000	0.844	102,517	1.234
60	1.378	1.042	20,000,000	3.350	0.930	1.000	0.824	101,006	26,448,293	3.465	1.045	1.000	0.852	103,114	1.350
48	1.556	1.058	30,000,000	3.517	1.097	1.000	0.864	103,968	44,133,231	3.677	1.257	1.000	0.896	106,232	1.523
36	1.789	1.105	30,000,000	3.517	1.097	1.000	0.864	103,968	48,577,075	3.716	1.296	1.000	0.903	106,717	1.743
24	3.678	1.412	30,000,000	3.517	1.097	1.000	0.864	103,968	78,146,312	3.913	1.493	1.000	0.932	108,721	3.518
12	12.507	3.403	30,000,000	3.517	1.097	1.000	0.864	103,968	110,247,909	4.055	1.635	1.000	0.949	109,806	11.842

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve



**Cook County, Illinois  
Law Enforcement Liability**

Average : \$112,797    sigma = 2.420  
CV : 18.67            mu = 8.705

**Limitation of Paid LDF's for Law Enforcement Liability**

Evaluation	(1) Paid LDF	(2) Count CDF	(3) Unadjusted Limit	(4) Ln(L)-mu/ sigma	(5) (4)-sigma	(6) Phi1	(7) Phi2	(8) Ltd Mean	(9) Adjusted Limit(L)	(10) Ln(L)-mu/ sigma	(11) (10)-sigma	(12) Phi1	(13) Phi2	(14) Ltd Mean	(15) Ltd. Factors
276	1.013	1.000	9,500,000	3.042	0.622	0.999	0.733	93,847	9,620,787	3.047	0.627	0.999	0.735	93,988	1.011
264	1.019	1.000	9,500,000	3.042	0.622	0.999	0.733	93,847	9,676,914	3.050	0.630	0.999	0.736	94,052	1.016
252	1.028	1.000	9,500,000	3.042	0.622	0.999	0.733	93,847	9,767,442	3.053	0.633	0.999	0.737	94,155	1.025
240	1.032	1.000	10,000,000	3.063	0.643	0.999	0.740	94,414	10,322,644	3.076	0.656	0.999	0.744	94,760	1.028
228	1.037	1.000	10,000,000	3.063	0.643	0.999	0.740	94,414	10,374,257	3.078	0.658	0.999	0.745	94,814	1.033
216	1.043	1.000	10,000,000	3.063	0.643	0.999	0.740	94,414	10,426,128	3.080	0.660	0.999	0.746	94,868	1.038
204	1.048	1.000	10,000,000	3.063	0.643	0.999	0.740	94,414	10,478,259	3.083	0.663	0.999	0.746	94,921	1.042
192	1.053	1.000	10,000,000	3.063	0.643	0.999	0.740	94,414	10,530,650	3.085	0.665	0.999	0.747	94,975	1.047
180	1.058	1.000	10,000,000	3.063	0.643	0.999	0.740	94,414	10,583,303	3.087	0.667	0.999	0.747	95,028	1.051
168	1.064	1.002	10,000,000	3.063	0.643	0.999	0.740	94,414	10,614,990	3.088	0.668	0.999	0.748	95,060	1.056
156	1.069	1.004	10,000,000	3.063	0.643	0.999	0.740	94,414	10,646,771	3.089	0.669	0.999	0.748	95,092	1.061
144	1.074	1.006	10,000,000	3.063	0.643	0.999	0.740	94,414	10,678,648	3.090	0.670	0.999	0.749	95,124	1.066
132	1.085	1.008	15,000,000	3.231	0.811	0.999	0.791	98,511	16,145,860	3.261	0.841	0.999	0.800	99,181	1.078
120	1.105	1.010	15,000,000	3.231	0.811	0.999	0.791	98,511	16,403,678	3.268	0.848	0.999	0.802	99,323	1.096
108	1.138	1.013	15,000,000	3.231	0.811	0.999	0.791	98,511	16,845,252	3.279	0.859	0.999	0.805	99,557	1.126
96	1.206	1.016	15,000,000	3.231	0.811	0.999	0.791	98,511	17,802,560	3.302	0.882	1.000	0.811	100,037	1.188
84	1.290	1.021	15,000,000	3.231	0.811	0.999	0.791	98,511	18,950,147	3.327	0.907	1.000	0.818	100,563	1.264
72	1.613	1.030	20,000,000	3.350	0.930	1.000	0.824	101,006	31,332,914	3.535	1.115	1.000	0.868	104,249	1.563
60	2.032	1.042	20,000,000	3.350	0.930	1.000	0.824	101,006	39,011,336	3.626	1.206	1.000	0.886	105,564	1.945
48	3.280	1.058	30,000,000	3.517	1.097	1.000	0.864	103,968	93,049,264	3.985	1.565	1.000	0.941	109,305	3.120
36	7.380	1.105	30,000,000	3.517	1.097	1.000	0.864	103,968	200,384,099	4.302	1.882	1.000	0.970	111,119	6.905
24	34.638	1.412	30,000,000	3.517	1.097	1.000	0.864	103,968	735,859,430	4.839	2.419	1.000	0.992	112,400	32.040
12	363.700	3.403	30,000,000	3.517	1.097	1.000	0.864	103,968	3,206,026,562	5.448	3.028	1.000	0.999	112,740	335.400

Column (1) : from Exhibit 9

Column (2) : Unlimited claim count development factors

Column (3) : Individual loss limitation

Columns (4) through (8) : Factors and quantities used in fitting distribution curve

Column (9) : (1)/(2)x(3)

Columns (10) through (14) : Factors and quantities used in fitting distribution curve

Column (15) : Limited loss development factors based on fitted distribution curve



**Cook County, Illinois  
Law Enforcement Liability  
Projected Losses Paid 12/1/2023 to 11/30/2024**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/23	Percent Losses Paid	Months of Development 11/30/24	Percent Losses Paid	Estimated Outstanding Losses 11/30/23	Projected Losses Paid	Estimated Outstanding Losses 11/30/24	Discount Factor	Discounted Outstanding Losses 11/30/24
Prior	276	98.7%	288	99.2%	\$ 130,278,266	\$ 19,541,740	* \$ 110,736,526	0.867	\$ 95,965,601
1-Dec-01	264	98.2%	276	98.9%	\$ -	\$ -	* \$ -	0.866	\$ -
1-Dec-02	252	97.3%	264	98.4%	\$ 4,075,599	\$ 611,340	* \$ 3,464,259	0.876	\$ 3,034,570
1-Dec-03	240	96.9%	252	97.6%	\$ -	\$ -	* \$ -	0.885	\$ -
1-Dec-04	228	96.4%	240	97.2%	\$ 14,948	\$ 2,003	* \$ 12,945	0.863	\$ 11,176
1-Dec-05	216	95.9%	228	96.8%	\$ 611,215	\$ 71,955	* \$ 539,260	0.847	\$ 456,561
1-Dec-06	204	95.4%	216	96.4%	\$ -	\$ -	* \$ -	0.830	\$ -
1-Dec-07	192	95.0%	204	95.9%	\$ 173,290	\$ 16,397	* \$ 156,893	0.814	\$ 127,673
1-Dec-08	180	94.5%	192	95.5%	\$ -	\$ -	* \$ -	0.798	\$ -
1-Dec-09	168	94.0%	180	95.1%	\$ 8,345	\$ 690	* \$ 7,655	0.782	\$ 5,986
1-Dec-10	156	93.6%	168	94.7%	\$ 231,975	\$ 17,637	* \$ 214,338	0.767	\$ 164,395
1-Dec-11	144	93.1%	156	94.2%	\$ 3,090,542	\$ 217,454	* \$ 2,873,088	0.752	\$ 2,161,304
1-Dec-12	132	92.2%	144	93.7%	\$ 1,369,666	\$ 163,482	* \$ 1,206,183	0.738	\$ 889,921
1-Dec-13	120	90.5%	132	92.8%	\$ 21,670,900	\$ 3,250,635	* \$ 18,420,265	0.738	\$ 13,603,157
1-Dec-14	108	87.9%	120	91.3%	\$ 3,221,181	\$ 483,177	* \$ 2,738,004	0.754	\$ 2,063,826
1-Dec-15	96	82.9%	108	88.8%	\$ 11,532,858	\$ 1,729,929	* \$ 9,802,929	0.778	\$ 7,623,429
1-Dec-16	84	77.5%	96	84.2%	\$ 6,036,392	\$ 905,459	* \$ 5,130,933	0.813	\$ 4,170,156
1-Dec-17	72	62.0%	84	78.9%	\$ 11,133,118	\$ 1,669,968	* \$ 9,463,150	0.827	\$ 7,822,304
1-Dec-18	60	49.2%	72	64.0%	\$ 13,256,915	\$ 1,988,537	* \$ 11,268,378	0.868	\$ 9,784,232
1-Dec-19	48	30.5%	60	50.9%	\$ 25,407,806	\$ 3,811,171	* \$ 21,596,635	0.869	\$ 18,766,179
1-Dec-20	36	13.5%	48	32.1%	\$ 35,876,208	\$ 5,381,431	* \$ 30,494,777	0.872	\$ 26,603,269
1-Dec-21	24	2.9%	36	14.5%	\$ 81,914,036	\$ 9,605,506	* \$ 72,308,530	0.864	\$ 62,505,780
1-Dec-22	12	0.3%	24	3.1%	\$ 47,974,000	\$ 1,358,349	* \$ 46,615,651	0.845	\$ 39,393,386
1-Dec-23	0	0.0%	12	0.3%	\$ 29,400,000	\$ 87,656	* \$ 29,312,344	0.814	\$ 23,849,438
<b>Total</b>					<b>\$ 427,277,258</b>	<b>\$ 50,914,516</b>	<b>\$ 376,362,742</b>		<b>\$ 319,002,344</b>

Column (3): 1 / Exhibit 9 Column (3)  
 Column (5): 1 / Rollforward Exhibit Column (54)  
 Column (6): From Executive Summary  
 Column (7): Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)  
 \* - Limited to a maximum of 15% per actuarial judgement



**Cook County, Illinois  
Law Enforcement Liability  
Projected Losses Paid 12/1/2024 to 11/30/2025**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/24	Percent Losses Paid	Months of Development 11/30/25	Percent Losses Paid	Estimated Outstanding Losses 11/30/24	Projected Losses Paid	Estimated Outstanding Losses 11/30/25	Discount Factor	Discounted Outstanding Losses 11/30/25
Prior	288	99.2%	300	99.4%	\$ 97,987,982	\$ 14,698,197	* \$ 83,289,785	0.867	\$ 72,199,689
1-Dec-01	276	98.9%	288	99.2%	\$ -	\$ -	* \$ -	0.867	\$ -
1-Dec-02	264	98.4%	276	98.9%	\$ 2,718,938	\$ 407,841	* \$ 2,311,097	0.866	\$ 2,002,226
1-Dec-03	252	97.6%	264	98.4%	\$ -	\$ -	* \$ -	0.876	\$ -
1-Dec-04	240	97.2%	252	97.6%	\$ 12,945	\$ 1,609	* \$ 11,336	0.885	\$ 10,032
1-Dec-05	228	96.8%	240	97.2%	\$ 539,260	\$ 72,251	* \$ 467,009	0.863	\$ 403,176
1-Dec-06	216	96.4%	228	96.8%	\$ -	\$ -	* \$ -	0.847	\$ -
1-Dec-07	204	95.9%	216	96.4%	\$ 156,893	\$ 16,464	* \$ 140,429	0.830	\$ 116,569
1-Dec-08	192	95.5%	204	95.9%	\$ -	\$ -	* \$ -	0.814	\$ -
1-Dec-09	180	95.1%	192	95.5%	\$ 7,655	\$ 659	* \$ 6,996	0.798	\$ 5,580
1-Dec-10	168	94.7%	180	95.1%	\$ 214,338	\$ 17,718	* \$ 196,620	0.782	\$ 153,751
1-Dec-11	156	94.2%	168	94.7%	\$ 2,873,088	\$ 218,444	* \$ 2,654,644	0.767	\$ 2,036,084
1-Dec-12	144	93.7%	156	94.1%	\$ 1,206,183	\$ 84,112	* \$ 1,122,072	0.752	\$ 844,088
1-Dec-13	132	92.8%	144	93.7%	\$ 17,916,317	\$ 2,138,477	* \$ 15,777,840	0.738	\$ 11,640,876
1-Dec-14	120	91.3%	132	92.8%	\$ 2,514,837	\$ 377,226	* \$ 2,137,612	0.738	\$ 1,578,602
1-Dec-15	108	88.8%	120	91.3%	\$ 8,155,827	\$ 1,223,374	* \$ 6,932,453	0.754	\$ 5,225,477
1-Dec-16	96	84.2%	108	88.8%	\$ 4,564,188	\$ 684,628	* \$ 3,879,560	0.778	\$ 3,017,011
1-Dec-17	84	78.9%	96	84.0%	\$ 6,533,620	\$ 980,043	* \$ 5,553,577	0.813	\$ 4,513,659
1-Dec-18	72	64.0%	84	78.9%	\$ 9,828,161	\$ 1,474,224	* \$ 8,353,937	0.827	\$ 6,905,421
1-Dec-19	60	50.9%	72	63.5%	\$ 18,354,923	\$ 2,753,238	* \$ 15,601,685	0.868	\$ 13,546,804
1-Dec-20	48	32.1%	60	50.9%	\$ 28,505,284	\$ 4,275,793	* \$ 24,229,492	0.869	\$ 21,053,974
1-Dec-21	36	14.5%	48	32.1%	\$ 72,308,530	\$ 10,846,279	* \$ 61,462,250	0.872	\$ 53,618,913
1-Dec-22	24	3.1%	36	14.5%	\$ 46,615,651	\$ 5,466,303	* \$ 41,149,348	0.864	\$ 35,570,798
1-Dec-23	12	0.3%	24	3.1%	\$ 29,312,344	\$ 829,958	* \$ 28,482,386	0.845	\$ 24,069,547
1-Dec-24	0	0.0%	12	0.3%	\$ 30,600,000	\$ 91,234	* \$ 30,508,766	0.814	\$ 24,822,885
<b>Total</b>					<b>\$ 380,926,964</b>	<b>\$ 46,658,072</b>	<b>\$ 334,268,891</b>		<b>\$ 283,335,163</b>

Column (3): 1 / Rollforward Exhibit Column (54)  
 Column (5): 1 / Rollforward Exhibit 2 Column (54)  
 Column (6): Rollforward Exhibit Column (21) & Projection  
 Column (7): Rollforward Exhibit 2 Column (31) - Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)  
 \* - Limited to a maximum of 15% per actuarial judgement



**Cook County, Illinois  
Law Enforcement Liability  
Projected Losses Paid 12/1/2025 to 11/30/2026**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/25	Percent Losses Paid	Months of Development 11/30/26	Percent Losses Paid	Estimated Outstanding Losses 11/30/25	Projected Losses Paid	Estimated Outstanding Losses 11/30/26	Discount Factor	Discounted Outstanding Losses 11/30/26
Prior	300	99.4%	312	99.5%	\$ 73,648,884	\$ 11,047,333	* \$ 62,601,552	0.867	\$ 54,280,744
1-Dec-01	288	99.2%	300	99.4%	\$ -	\$ -	* \$ -	0.867	\$ -
1-Dec-02	276	98.9%	288	99.2%	\$ 1,866,171	\$ 279,926	* \$ 1,586,245	0.867	\$ 1,374,659
1-Dec-03	264	98.4%	276	98.9%	\$ -	\$ -	* \$ -	0.866	\$ -
1-Dec-04	252	97.6%	264	98.4%	\$ 11,336	\$ 1,700	* \$ 9,636	0.876	\$ 8,441
1-Dec-05	240	97.2%	252	97.6%	\$ 467,009	\$ 58,043	* \$ 408,966	0.885	\$ 361,916
1-Dec-06	228	96.8%	240	97.2%	\$ -	\$ -	* \$ -	0.863	\$ -
1-Dec-07	216	96.4%	228	96.8%	\$ 140,429	\$ 16,532	* \$ 123,897	0.847	\$ 104,897
1-Dec-08	204	95.9%	216	96.4%	\$ -	\$ -	* \$ -	0.830	\$ -
1-Dec-09	192	95.5%	204	95.9%	\$ 6,996	\$ 662	* \$ 6,334	0.814	\$ 5,154
1-Dec-10	180	95.1%	192	95.5%	\$ 196,620	\$ 16,933	* \$ 179,687	0.798	\$ 143,338
1-Dec-11	168	94.7%	180	95.1%	\$ 2,654,644	\$ 219,439	* \$ 2,435,205	0.782	\$ 1,904,255
1-Dec-12	156	94.1%	168	94.5%	\$ 1,122,072	\$ 84,501	* \$ 1,037,570	0.767	\$ 795,806
1-Dec-13	144	93.7%	156	94.1%	\$ 15,777,840	\$ 1,100,249	* \$ 14,677,591	0.752	\$ 11,041,339
1-Dec-14	132	92.8%	144	93.7%	\$ 2,079,130	\$ 248,163	* \$ 1,830,967	0.738	\$ 1,350,886
1-Dec-15	120	91.3%	132	92.8%	\$ 6,367,409	\$ 955,111	* \$ 5,412,297	0.738	\$ 3,996,920
1-Dec-16	108	88.8%	120	91.3%	\$ 3,227,710	\$ 484,157	* \$ 2,743,554	0.754	\$ 2,068,009
1-Dec-17	96	84.0%	108	88.7%	\$ 4,942,664	\$ 741,400	* \$ 4,201,264	0.778	\$ 3,267,191
1-Dec-18	84	78.9%	96	84.0%	\$ 5,767,789	\$ 865,168	* \$ 4,902,621	0.813	\$ 3,984,596
1-Dec-19	72	63.5%	84	78.6%	\$ 13,633,644	\$ 2,045,047	* \$ 11,588,598	0.827	\$ 9,579,214
1-Dec-20	60	50.9%	72	63.5%	\$ 20,592,581	\$ 3,088,887	* \$ 17,503,694	0.868	\$ 15,198,301
1-Dec-21	48	32.1%	60	50.9%	\$ 57,452,427	\$ 8,617,864	* \$ 48,834,563	0.869	\$ 42,434,303
1-Dec-22	36	14.5%	48	32.1%	\$ 41,149,348	\$ 6,172,402	* \$ 34,976,946	0.872	\$ 30,513,459
1-Dec-23	24	3.1%	36	14.5%	\$ 28,482,386	\$ 3,339,937	* \$ 25,142,449	0.864	\$ 21,733,928
1-Dec-24	12	0.3%	24	3.1%	\$ 30,508,766	\$ 863,833	* \$ 29,644,932	0.845	\$ 25,051,978
1-Dec-25	0	0.0%	12	0.3%	\$ 31,600,000	\$ 94,216	* \$ 31,505,784	0.814	\$ 25,634,090
<b>Total</b>					<b>\$ 341,695,854</b>	<b>\$ 40,341,503</b>	<b>\$ 301,354,351</b>		<b>\$ 254,833,424</b>

Column (3): 1 / Rollforward Exhibit 2 Column (54)

Column (5): 1 / Rollforward Exhibit 3 Column (54)

Column (6): Rollforward Exhibit 2 Column (21) & Projection

Column (7): Rollforward Exhibit 3 Column (31) - Rollforward Exhibit 2 Column (31)

Column (8): Column (6) - Column (7)

Column (9): Based on Column (3) and 4.48% Interest Rate

Column (10): Column (8) x Column (9)

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



**Cook County, Illinois  
Law Enforcement Liability  
Large Claims**

All Claims greater than or equal to \$1,000,000

(1)	(2)	(3)	(4)	(5)
<u>Policy Period</u>	<u>Loss Date</u>	<u>Incurred Loss</u>	<u>Paid Loss</u>	<u>Case Reserves</u>
Prior	2/14/1982	22,000,000	-	22,000,000
Prior	5/28/1988	7,250,000	7,250,000	-
Prior	8/22/1990	8,000,000	-	8,000,000
Prior	6/9/1993	4,850,000	4,850,000	-
Prior	6/28/1993	4,850,000	4,850,000	-
Prior	4/1/1994	16,000,000	-	16,000,000
Prior	4/1/1996	10,750,000	10,750,000	-
Prior	7/18/1997	10,000,000	-	10,000,000
Prior	1/1/1998	8,000,000	-	8,000,000
Prior	1/1/1998	8,000,000	-	8,000,000
Prior	1/1/1998	8,000,000	-	8,000,000
Prior	2/9/1998	10,000,000	-	10,000,000
Prior	2/9/1998	10,000,000	-	10,000,000
Prior	4/5/1998	1,500,000	1,500,000	-
Prior	3/19/2001	4,000,000	-	4,000,000
12/1/2002	3/18/2003	4,000,000	-	4,000,000
12/1/2003	1/13/2004	48,207,272	48,207,272	-
12/1/2003	2/5/2004	4,590,875	4,590,875	-
12/1/2005	2/21/2006	1,000,000	1,000,000	-
12/1/2007	1/20/2008	5,563,000	5,563,000	-
12/1/2007	8/29/2008	4,100,000	4,100,000	-
12/1/2007	9/3/2008	1,400,000	1,400,000	-
12/1/2009	4/27/2010	3,214,250	3,214,250	-
12/1/2010	11/16/2011	7,990,000	7,990,000	-
12/1/2010	11/16/2011	5,625,000	5,625,000	-
12/1/2010	11/16/2011	7,990,000	7,990,000	-
12/1/2010	11/16/2011	7,990,000	7,990,000	-
12/1/2012	9/1/2013	3,750,000	3,750,000	-



**Cook County, Illinois**  
**Law Enforcement Liability**  
**Large Claims**

All Claims greater than or equal to \$1,000,000

(1)	(2)	(3)	(4)	(5)
Policy Period	Loss Date	Incurred Loss	Paid Loss	Case Reserves
12/1/2012	9/19/2013	1,500,000	1,500,000	-
12/1/2013	12/23/2013	15,000,000	-	15,000,000
12/1/2013	1/7/2014	3,500,000	-	3,500,000
12/1/2013	1/7/2014	3,000,000	3,000,000	-
12/1/2013	10/12/2014	4,750,000	4,750,000	-
12/1/2014	6/22/2015	1,000,000	-	1,000,000
12/1/2015	3/22/2016	1,700,000	1,700,000	-
12/1/2015	5/11/2016	1,300,000	1,300,000	-
12/1/2015	8/6/2016	5,000,000	-	5,000,000
12/1/2015	8/16/2016	4,000,000	-	4,000,000
12/1/2016	1/1/2017	3,153,188	3,153,188	-
12/1/2016	5/2/2017	3,250,000	3,250,000	-
12/1/2016	11/29/2017	2,500,000	-	2,500,000
12/1/2017	11/6/2018	5,000,000	-	5,000,000
12/1/2018	1/1/2019	2,340,000	-	2,340,000
12/1/2018	3/2/2019	1,000,000	1,000,000	-
12/1/2018	10/6/2019	1,000,000	-	1,000,000
12/1/2019	12/11/2019	1,000,000	-	1,000,000
12/1/2019	1/1/2020	2,000,000	-	2,000,000
12/1/2019	2/1/2020	1,000,000	1,000,000	-
12/1/2019	6/4/2020	1,500,000	-	1,500,000
12/1/2019	8/13/2020	2,000,000	-	2,000,000
12/1/2019	9/29/2020	2,000,000	-	2,000,000
12/1/2019	10/23/2020	4,000,000	-	4,000,000
12/1/2020	12/1/2020	1,959,361	1,959,361	-
12/1/2020	3/2/2021	1,000,000	-	1,000,000
12/1/2020	9/5/2021	5,000,000	-	5,000,000
12/1/2020	9/16/2021	3,000,000	-	3,000,000





**Cook County, Illinois  
Law Enforcement Liability  
Large Claims**

**All Claims greater than or equal to \$1,000,000**

(1)	(2)	(3)	(4)	(5)
<u>Policy Period</u>	<u>Loss Date</u>	<u>Incurred Loss</u>	<u>Paid Loss</u>	<u>Case Reserves</u>
12/1/2020	9/21/2021	5,000,000	-	5,000,000
12/1/2020	10/21/2021	2,000,000	-	2,000,000
12/1/2020	10/31/2021	2,000,000	-	2,000,000
12/1/2020	11/30/2021	1,000,000	-	1,000,000
12/1/2021	12/30/2021	1,000,000	-	1,000,000
12/1/2021	1/1/2022	5,000,000	-	5,000,000
12/1/2021	6/1/2022	5,000,000	-	5,000,000
12/1/2021	6/1/2022	5,000,000	-	5,000,000
12/1/2021	6/14/2022	1,000,000	-	1,000,000
12/1/2021	7/11/2022	5,000,000	-	5,000,000
12/1/2021	7/20/2022	5,000,000	-	5,000,000
12/1/2021	7/21/2022	5,000,000	-	5,000,000
12/1/2021	7/21/2022	5,000,000	-	5,000,000
12/1/2021	8/1/2022	5,000,000	-	5,000,000
12/1/2021	8/13/2022	1,000,000	-	1,000,000
12/1/2021	11/21/2022	5,000,000	-	5,000,000
12/1/2022	1/17/2023	5,000,000	-	5,000,000
12/1/2022	3/16/2023	5,000,000	-	5,000,000
12/1/2022	4/13/2023	5,000,000	-	5,000,000
12/1/2022	7/1/2023	5,000,000	-	5,000,000

Cook County, Illinois  
Law Enforcement Liability  
Occurrence  
Indemnity and Expense  
Incurred Development Triangle  
Data Unlimited (000s)  
As of 11/30/2023

		Age in Months																							
Policy Year		12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	
	Prior																				16,697	38,697	39,622	56,822	136,722
12/1/2001																0	0	0	0	0	0	0	0	0	0
12/1/2002															1,024	1,024	1,024	1,024	1,024	5,024	5,024	5,024	5,024		
12/1/2003														51,374	51,377	51,374	51,374	51,374	54,222	54,222	54,222	54,222			
12/1/2004														2,371	1,871	1,373	1,371	1,421	1,421	1,421	1,405				
12/1/2005														2,699	2,699	3,599	4,099	4,159	5,159	5,159	4,159				
12/1/2006														11,734	12,234	12,297	13,297	13,297	13,297	13,297	13,697				
12/1/2007														4,397	4,387	4,387	4,393	4,393	4,393	4,393					
12/1/2008														5,446	5,606	5,726	6,603	6,603	6,603	6,603	6,603				
12/1/2009														14,926	27,523	31,243	31,243	31,268	31,268	31,268					
12/1/2010														3,377	3,339	3,332	4,176	8,332	8,332	4,257					
12/1/2011														10,078	10,232	10,097	10,509	11,559	11,696	11,696	10,230				
12/1/2012														11,995	10,353	15,377	22,768	27,234	27,485	29,979	32,479				
12/1/2013														3,946	10,334	17,927	18,658	12,154	12,695	11,654					
12/1/2014														842	3,011	3,614	8,837	9,740	6,044	6,194	6,104	5,354			
12/1/2015														2,642	10,408	13,413	12,196	13,808	14,983	14,920					
12/1/2016														3,946	10,334	17,927	18,658	12,154	12,695	11,654					
12/1/2017														1,222	8,240	8,321	8,294	8,451	8,389						
12/1/2018														2,214	6,074	19,637	6,618	9,000							
12/1/2019														3,052	18,595	20,526	18,028								
12/1/2020														2,169	10,269	23,431									
12/1/2021														1,604	49,865										
12/1/2022														20,771											

		Age-to-Age																								
Policy Year		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	240-252	252-264	264-276	276-Ult		
	Prior																				2,318	1,024	1,434	2,406		
12/1/2001																										
12/1/2002																										
12/1/2003																										
12/1/2004																										
12/1/2005																										
12/1/2006																										
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12/1/2018																										
12/1/2019																										
12/1/2020																										
12/1/2021																										
12/1/2022																										

		Averages																						
		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	240-252	252-264	264-276	276-Ult
All Year Average		8.166	2.072	1.042	1.124	1.048	0.945	1.137	0.955	1.182	0.984	0.949	1.018	0.982	1.002	1.051	1.000	1.942	0.996	1.439	1.012	1.434	2.406	
3 Yr Average		13.972	2.206	0.737	1.010	1.056	1.009	0.997	0.993	1.360	0.958	0.837	1.000	1.000	1.000	1.090	1.000	0.954	0.996	NA	NA	NA	NA	
5 Yr Average		10.281	1.873	0.908	1.073	1.054	1.053	1.018	1.074	1.246	0.975	0.918	1.000	1.028	1.003	1.061	1.000	NA	NA	NA	NA	NA	NA	
3 Yr Wtd Average		11.536	1.820	0.679	0.882	1.064	1.009	1.002	1.042	1.145	0.972	0.912	1.000	1.000	1.000	1.070	1.000	1.032	1.000	1.000	1.021	NA	NA	
5 Yr Wtd Average		9.068	1.679	0.846	0.958	1.100	1.079	1.018	1.085	1.091	0.977	0.951	1.000	1.017	1.002	1.020	1.000	1.099	1.275	NA	NA	NA	NA	
Avg X HI-Lo (5yr X 2)		6.093	2.282	0.878	1.019	1.045	1.025	0.996	1.012	1.083	1.000	1.000	1.000	1.000	1.000	1.030	1.000	1.000	1.000	NA	NA	NA	NA	
Avg X HI-Lo (3yr X 2)		5.857	1.707	0.972	1.096	1.056	1.050	1.001	1.079	1.079	1.000	1.000	1.000	1.000	1.000	1.022	1.000	NA	NA	NA	NA	NA	NA	
Prior		3.250	2.056	1.165	1.129	1.107	1.050	1.040	1.040	1.020	1.010	1.010	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.004	1.004	1.003	1.005
Initial Selected		3.400	2.056	1.150	1.129	1.100	1.050	1.040	1.040	1.020	1.010	1.008	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.004	1.004	1.003	1.010

		Tail Factor Calculation																							
		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	240-252	252-264	264-276	276-Ult	
Inverse Power Curve Fit																									1.021
Exponential Curve Fit																									1.007
Weibull Curve Fit																									1.010
Manual Entry																									
Selected Tail Method:	Weibull																								
Final Link Ratio		3.400	2.056	1.150	1.129	1.100	1.050	1.040	1.040	1.020	1.010	1.008	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.004	1.004	1.003	1.010	
Final CDF		12.507	3.678	1.789	1.586	1.378	1.253	1.193	1.147	1.103	1.081	1.070	1.062	1.057	1.051	1.046	1.041	1.036	1.031	1.026	1.020	1.016	1.012	1.010	

Industry Factor Source: AM Best's GL Occ

Cook County, Illinois  
Law Enforcement Liability  
Occurrence  
Indemnity and Expense  
Paid Development Triangle  
Data Unlimited (000s)  
As of 11/30/2023

Age in Months																							
Policy Year	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276
Prior																			1,697	1,697	2,522	13,722	31,722
12/1/2001															0	0	0	0					
12/1/2002														1,024	1,024	1,024	1,024	1,024	1,024	1,024	1,024	1,024	0
12/1/2003													51,374	51,374	51,374	51,374	51,374	51,374	54,222	54,222	54,222		
12/1/2004												1,371	1,371	1,371	1,371	1,371	1,371	1,371	1,405	1,405			
12/1/2005											2,599	2,599	2,599	2,599	2,599	2,599	2,599	2,659	2,659	2,659	3,659		
12/1/2006										2,335	2,338	2,403	2,403	2,403	2,403	2,403	2,403	2,403					
12/1/2007									6,734	6,734	12,297	12,297	12,297	12,297	12,297	12,297	13,697						
12/1/2008									4,187	4,387	4,387	4,393	4,393	4,393	4,393								
12/1/2009								5,401	5,475	5,625	6,602	6,602	6,602	6,602	6,602								
12/1/2010						1,516	7,171	7,173	31,143	31,143	31,143	31,168	31,168	31,168									
12/1/2011					1,926	3,159	3,259	9,329	9,329	9,329	9,329												
12/1/2012				1,957	3,259	7,292	9,539	9,558	9,565	9,565	9,580												
12/1/2013			1,507	7,864	8,761	9,263	9,972	9,975	10,229	13,229													
12/1/2014		340	1,145	1,623	2,848	2,894	3,544	3,844	3,879														
12/1/2015	1	373	1,227	3,589	4,299	4,339	5,856	5,767															
12/1/2016	3,272	3,662	4,602	4,800	8,061	8,385	8,464																
12/1/2017	12	819	1,078	1,419	2,614	2,667																	
12/1/2018	11	68	254	2,485	2,743																		
12/1/2019	4	44	1,131	1,592																			
12/1/2020	0	2,062	2,124																				
12/1/2021	0	86																					
12/1/2022	26																						

Age-to-Age																							
Policy Year	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	240-252	252-264	264-276	276-Ult
Prior																			1,000	1,486	5,441	2,312	
12/1/2001																							
12/1/2002														1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
12/1/2003													1,000	1,000	1,000	1,000	1,055	1,000	1,000				
12/1/2004												1,000	1,000	1,000	1,000	1,000	1,000	1,025					
12/1/2005											1,001	1,000	1,000	1,023	1,000	1,000	1,376						
12/1/2006											1,000	1,000	1,000	1,000	1,000	1,000							
12/1/2007									1,000	1,826	1,000	1,000	1,000	1,000	1,114								
12/1/2008								1,048	1,000	1,001	1,000	1,000	1,000	1,000									
12/1/2009							1,014	1,027	1,174	1,000	1,000	1,000	1,000										
12/1/2010						4,729	1,000	4,342	1,000	1,001	1,000	1,000											
12/1/2011					1,640	1,031	1,022	1,000	1,000	1,000	1,000												
12/1/2012				1,666	2,238	1,308	1,002	1,001	1,000	1,002													
12/1/2013			5,217	1,114	1,057	1,077	1,000	1,025	1,293														
12/1/2014		3,371	1,418	1,755	1,016	1,225	1,085	1,009															
12/1/2015	746,246	3,290	2,924	1,198	1,009	1,303	1,020																
12/1/2016	1,119	1,257	1,043	1,684	1,038	1,009																	
12/1/2017	66,837	1,317	1,316	1,842	1,020																		
12/1/2018	6,395	3,750	9,773	1,104																			
12/1/2019	12,700	25,440	1,408																				
12/1/2020		1,030																					
12/1/2021																							
12/1/2022																							

Averages																								
	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	240-252	252-264	264-276	276-Ult	
All Year Average	166,659	5,636	3,300	1,480	1,288	1,669	1,020	1,493	1,067	1,119	1,004	1,000	1,000	1,003	1,019	1,000	1,108	1,008	1,000	1,243	5,441	2,312		
3 Yr Average	28,644	10,073	4,166	1,543	1,022	1,179	1,035	1,012	1,098	1,001	1,000	1,000	1,000	1,000	1,038	1,000	1,144	1,008	NA	NA	NA	NA		
5 Yr Average	166,659	6,559	3,293	1,517	1,028	1,184	1,028	1,675	1,093	1,001	1,000	1,000	1,000	1,005	1,023	1,000	NA	NA	NA	NA	NA	NA		
3 Yr Wtd Average	626,345	1,614	2,231	1,544	1,026	1,131	1,022	1,013	1,130	1,001	1,000	1,000	1,000	1,000	1,081	1,000	1,069	1,001	1,000	1,303	NA	NA		
5 Yr Wtd Average	116,840	1,381	1,674	1,479	1,035	1,155	1,016	1,716	1,066	1,001	1,000	1,000	1,000	1,003	1,020	1,000	1,068	1,031	NA	NA	NA	NA		
Avg X Hi-Lo (3yr X 2)	12,700	3,750	1,408	1,684	1,020	1,225	1,020	1,009	1,000	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,055	1,000	NA	NA	NA	NA		
Avg X Hi-Lo (5yr X 2)	28,644	2,108	1,883	1,545	1,025	1,202	1,014	1,012	1,058	1,001	1,000	1,000	1,000	1,000	1,000	1,000	NA	NA	NA	NA	NA	NA		
Prior	10,500	4,725	2,250	1,614	1,272	1,250	1,080	1,065	1,030	1,020	1,010	1,005	1,005	1,005	1,005	1,005	1,005	1,005	1,004	1,004	1,009	1,006	1,010	
Initial Selected	10,500	4,693	2,250	1,614	1,260	1,250	1,070	1,060	1,030	1,018	1,010	1,005	1,005	1,005	1,005	1,005	1,005	1,005	1,004	1,004	1,009	1,006	1,013	

Tail Factor Calculation																								
	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	240-252	252-264	264-276	276-Ult	
Inverse Power Curve Fit																							1.016	
Exponential Curve Fit																							1.005	
Weibull Curve Fit																							1.002	
Manual Entry																								
<b>Selected Tail Method:</b>	<b>Manual Entry</b>																							
Final Link Ratio	10,500	4,693	2,250	1,614	1,260	1,250	1,070	1,060	1,030	1,018	1,010	1,005	1,005	1,005	1,005	1,005	1,005	1,005	1,004	1,004	1,009	1,006	1,013	
Final CDF	363,700	34,638	7,380	3,280	2,032	1,613	1,290	1,206	1,138	1,105	1,085	1,074	1,069	1,064	1,058	1,053	1,048	1,043	1,037	1,032	1,028	1,019	1,013	

Industry Factor Source: AM Bests GL Occ





**Cook County, Illinois  
Other Liability Experience @ 11/30/23  
Losses Limited to Retentions**

Policy Period	Revenue (in 000s)	Retention	Reported Claims	Open Claims	Incurred	Paid	Case	Est IBNR	Total O/S	Ultimate	Ultimate Loss Rate
	(1)	(2)	(3)	(3a)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
							[(4)-(5)]		[(6)+(7)]	[(4)+(7)]	[(9)/(1)]

**Historical Experience**

Prior	-	Various	1,594	1	96,113,655	96,113,455	200	345	545	96,114,000	
1-Dec-01	1,057,079	9,500,000	162	-	12,153,693	12,153,693	-	-	-	12,153,693	11.50
1-Dec-02	1,086,728	9,500,000	87	-	5,220,383	5,220,383	-	-	-	5,220,383	4.80
1-Dec-03	1,199,434	Various	74	-	16,951,620	16,951,620	-	-	-	16,951,620	14.13
1-Dec-04	1,189,789	10,000,000	61	1	11,024,316	10,924,316	100,000	35,684	135,684	11,060,000	9.30
1-Dec-05	1,357,723	10,000,000	94	-	4,023,510	4,023,510	-	-	-	4,023,510	2.96
1-Dec-06	1,243,144	10,000,000	140	3	10,593,160	6,971,160	3,622,000	86,840	3,708,840	10,680,000	8.59
1-Dec-07	1,207,801	10,000,000	78	-	1,287,951	1,287,951	-	-	-	1,287,951	1.07
1-Dec-08	1,303,812	10,000,000	87	-	5,056,400	5,056,400	-	-	-	5,056,400	3.88
1-Dec-09	1,287,986	10,000,000	98	1	1,811,869	1,711,869	100,000	88,131	188,131	1,900,000	1.48
1-Dec-10	1,293,078	10,000,000	85	5	8,063,304	7,558,703	504,601	136,696	641,297	8,200,000	6.34
1-Dec-11	1,331,769	10,000,000	55	4	2,786,791	2,735,791	51,000	213,209	264,209	3,000,000	2.25
1-Dec-12	1,285,791	Various	69	7	5,939,378	1,264,378	4,675,000	260,622	4,935,622	6,200,000	4.82
1-Dec-13	1,362,902	15,000,000	55	7	6,178,531	951,531	5,227,000	321,469	5,548,469	6,500,000	4.77
1-Dec-14	1,509,150	15,000,000	67	12	17,329,499	16,319,499	1,010,000	670,501	1,680,501	18,000,000	11.93
1-Dec-15	1,699,156	15,000,000	69	28	10,131,879	2,091,879	8,040,000	1,168,121	9,208,121	11,300,000	6.65
1-Dec-16	1,753,287	15,000,000	71	35	6,958,781	544,781	6,414,000	1,641,219	8,055,219	8,600,000	4.91
1-Dec-17	1,675,248	Various	53	30	12,110,230	6,419,230	5,691,000	1,989,771	7,680,771	14,100,000	8.42
1-Dec-18	1,719,805	20,000,000	50	24	3,306,386	1,537,286	1,769,100	3,293,614	5,062,714	6,600,000	3.84
1-Dec-19	1,547,010	Various	46	30	6,565,866	339,766	6,226,100	3,934,134	10,160,234	10,500,000	6.79
1-Dec-20	1,881,172	30,000,000	31	17	1,257,877	503,877	754,000	7,042,123	7,796,123	8,300,000	4.41
1-Dec-21	1,979,429	30,000,000	25	18	11,294,600	850,000	10,444,600	12,705,400	23,150,000	24,000,000	12.12
1-Dec-22	1,944,279	30,000,000	42	38	1,287,538	138,776	1,148,762	14,612,462	15,761,224	15,900,000	8.18
<b>Total</b>	<b>31,915,572</b>		<b>3,193</b>	<b>261</b>	<b>257,447,214</b>	<b>201,669,851</b>	<b>55,777,363</b>	<b>48,200,343</b>	<b>103,977,705</b>	<b>305,647,556</b>	<b>6.57</b>

**Full Policy Period Projections**

1-Dec-23	1,953,331	30,000,000								16,400,000	8.41
1-Dec-24	1,974,501	30,000,000								16,800,000	8.49



**Cook County, Illinois  
Other Liability**

**Other Liability Experience @ 11/30/23  
Summary of Various Reserving Methods  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Chain Ladder			Bornhuetter-Ferguson		Generalized Cape Cod		Freq/Sev	Selected Ultimate
	Incurred	Paid	Outstanding	Incurred	Paid	Incurred	Paid		
Prior	\$ 96,320,190	\$ 96,458,883	\$ 96,113,954	N/A	N/A	N/A	N/A	\$ 96,320,190	\$ 96,114,000
1-Dec-01	\$ 12,189,484	\$ 12,209,790	\$ 12,153,693	\$ 12,167,790	\$ 12,175,752	\$ 12,177,092	\$ 12,189,240	\$ 12,189,484	\$ 12,153,693
1-Dec-02	\$ 5,239,315	\$ 5,250,648	\$ 5,220,383	\$ 5,238,818	\$ 5,249,790	\$ 5,249,133	\$ 5,264,628	\$ 5,239,315	\$ 5,220,383
1-Dec-03	\$ 17,030,108	\$ 17,083,996	\$ 16,951,620	\$ 16,978,642	\$ 16,997,051	\$ 16,993,237	\$ 17,018,611	\$ 17,030,108	\$ 16,951,620
1-Dec-04	\$ 11,097,511	\$ 11,031,644	\$ 11,234,805	\$ 11,063,878	\$ 10,982,674	\$ 11,079,060	\$ 11,000,231	\$ 11,097,511	\$ 11,060,000
1-Dec-05	\$ 4,058,324	\$ 4,075,228	\$ 4,023,510	\$ 4,083,841	\$ 4,112,765	\$ 4,096,164	\$ 4,121,569	\$ 4,058,324	\$ 4,023,510
1-Dec-06	\$ 10,706,189	\$ 7,081,951	\$ 18,110,498	\$ 10,663,039	\$ 7,074,707	\$ 10,670,447	\$ 7,071,432	\$ 10,706,189	\$ 10,680,000
1-Dec-07	\$ 1,304,297	\$ 1,312,345	\$ 1,287,951	\$ 1,370,965	\$ 1,411,080	\$ 1,368,203	\$ 1,390,823	\$ 1,304,297	\$ 1,287,951
1-Dec-08	\$ 5,130,814	\$ 5,167,627	\$ 5,056,400	\$ 5,161,170	\$ 5,211,885	\$ 5,150,644	\$ 5,175,029	\$ 5,130,814	\$ 5,056,400
1-Dec-09	\$ 1,844,049	\$ 1,756,115	\$ 2,037,206	\$ 1,938,932	\$ 1,895,320	\$ 1,920,060	\$ 1,839,610	\$ 1,844,049	\$ 1,900,000
1-Dec-10	\$ 8,231,135	\$ 7,792,840	\$ 9,128,903	\$ 8,216,414	\$ 7,784,317	\$ 8,194,495	\$ 7,710,096	\$ 8,231,135	\$ 8,200,000
1-Dec-11	\$ 2,864,709	\$ 2,834,637	\$ 2,967,615	\$ 3,001,898	\$ 3,011,567	\$ 2,967,764	\$ 2,904,709	\$ 2,864,709	\$ 3,000,000
1-Dec-12	\$ 6,148,180	\$ 1,323,161	\$ 21,111,213	\$ 6,222,544	\$ 1,634,797	\$ 6,185,228	\$ 1,477,823	\$ 6,148,180	\$ 6,200,000
1-Dec-13	\$ 6,440,511	\$ 1,014,268	\$ 16,218,147	\$ 6,544,818	\$ 1,508,520	\$ 6,510,531	\$ 1,272,347	\$ 6,440,511	\$ 6,500,000
1-Dec-14	\$ 18,547,592	\$ 17,917,359	\$ 20,151,416	\$ 17,994,117	\$ 17,221,992	\$ 17,968,907	\$ 16,878,824	\$ 18,547,592	\$ 18,000,000
1-Dec-15	\$ 11,397,020	\$ 2,403,821	\$ 57,698,717	\$ 11,414,470	\$ 3,591,260	\$ 11,331,253	\$ 2,908,834	\$ 11,397,020	\$ 11,300,000
1-Dec-16	\$ 8,232,701	\$ 669,840	\$ 38,011,935	\$ 8,848,011	\$ 2,824,230	\$ 8,660,858	\$ 1,686,304	\$ 8,200,996	\$ 8,600,000
1-Dec-17	\$ 14,685,388	\$ 9,720,386	\$ 18,185,763	\$ 14,249,810	\$ 10,562,972	\$ 14,010,323	\$ 8,515,460	\$ 14,650,998	\$ 14,100,000
1-Dec-18	\$ 4,309,395	\$ 3,211,253	\$ 4,733,460	\$ 6,248,246	\$ 8,126,080	\$ 5,770,629	\$ 4,681,953	\$ 4,366,007	\$ 6,600,000
1-Dec-19	\$ 9,804,504	\$ 1,135,587	\$ 12,117,086	\$ 10,461,832	\$ 8,605,344	\$ 9,818,246	\$ 4,142,188	\$ 9,725,953	\$ 10,500,000
1-Dec-20	\$ 2,160,078	\$ 3,704,988	\$ 1,963,462	\$ 7,402,680	\$ 13,215,116	\$ 6,366,886	\$ 6,371,180	\$ 2,540,761	\$ 8,300,000
1-Dec-21	\$ 42,371,065	\$ 27,511,949	\$ 43,799,800	\$ 22,970,845	\$ 16,278,067	\$ 22,082,568	\$ 8,197,716	\$ 31,799,679	\$ 24,000,000
1-Dec-22	\$ 12,606,630	\$ 47,163,532	\$ 11,686,200	\$ 15,667,321	\$ 16,107,123	\$ 14,524,878	\$ 7,793,376	\$ 26,961,314	\$ 15,900,000
Total	\$ 312,719,189	\$ 287,831,847	\$ 429,963,737	\$ 207,910,082	\$ 175,582,409	\$ 203,096,607	\$ 139,611,982	\$ 316,795,135	\$ 305,647,556

Column (2) : from Exhibit 3, Column (5)  
 Column (3) : from Exhibit 3, Column (8)  
 Column (4) : from Exhibit 3, Column (11)

Column (5) : from Exhibit 7, Column (11)  
 Column (6) : from Exhibit 8, Column (11)  
 Column (7) : from Exhibit 4, Column (11)  
 Column (8) : from Exhibit 5, Column (11)

Column (9) : from Exhibit 6, Column (11)  
 Column (10) : Ultimate



**Cook County, Illinois  
Other Liability**

**Other Liability Experience @ 11/30/23  
Unpaid Liabilities at Various Discount Rates  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.48%
Prior	276	Various	\$ 96,114,000	\$ 96,113,655	\$ 96,113,455	\$ 200	\$ 345	\$ 545	\$ 472
1-Dec-01	264	\$ 9,500,000	\$ 12,153,693	\$ 12,153,693	\$ 12,153,693	\$ -	\$ -	\$ -	\$ -
1-Dec-02	252	\$ 9,500,000	\$ 5,220,383	\$ 5,220,383	\$ 5,220,383	\$ -	\$ -	\$ -	\$ -
1-Dec-03	240	Various	\$ 16,951,620	\$ 16,951,620	\$ 16,951,620	\$ -	\$ -	\$ -	\$ -
1-Dec-04	228	\$ 10,000,000	\$ 11,060,000	\$ 11,024,316	\$ 10,924,316	\$ 100,000	\$ 35,684	\$ 135,684	\$ 116,014
1-Dec-05	216	\$ 10,000,000	\$ 4,023,510	\$ 4,023,510	\$ 4,023,510	\$ -	\$ -	\$ -	\$ -
1-Dec-06	204	\$ 10,000,000	\$ 10,680,000	\$ 10,593,160	\$ 6,971,160	\$ 3,622,000	\$ 86,840	\$ 3,708,840	\$ 3,149,132
1-Dec-07	192	\$ 10,000,000	\$ 1,287,951	\$ 1,287,951	\$ 1,287,951	\$ -	\$ -	\$ -	\$ -
1-Dec-08	180	\$ 10,000,000	\$ 5,056,400	\$ 5,056,400	\$ 5,056,400	\$ -	\$ -	\$ -	\$ -
1-Dec-09	168	\$ 10,000,000	\$ 1,900,000	\$ 1,811,869	\$ 1,711,869	\$ 100,000	\$ 88,131	\$ 188,131	\$ 154,014
1-Dec-10	156	\$ 10,000,000	\$ 8,200,000	\$ 8,063,304	\$ 7,558,703	\$ 504,601	\$ 136,696	\$ 641,297	\$ 522,651
1-Dec-11	144	\$ 10,000,000	\$ 3,000,000	\$ 2,786,791	\$ 2,735,791	\$ 51,000	\$ 213,209	\$ 264,209	\$ 213,345
1-Dec-12	132	Various	\$ 6,200,000	\$ 5,939,378	\$ 1,264,378	\$ 4,675,000	\$ 260,622	\$ 4,935,622	\$ 4,032,679
1-Dec-13	120	\$ 15,000,000	\$ 6,500,000	\$ 6,178,531	\$ 951,531	\$ 5,227,000	\$ 321,469	\$ 5,548,469	\$ 4,645,921
1-Dec-14	108	\$ 15,000,000	\$ 18,000,000	\$ 17,329,499	\$ 16,319,499	\$ 1,010,000	\$ 670,501	\$ 1,680,501	\$ 1,437,890
1-Dec-15	96	\$ 15,000,000	\$ 11,300,000	\$ 10,131,879	\$ 2,091,879	\$ 8,040,000	\$ 1,168,121	\$ 9,208,121	\$ 7,999,979
1-Dec-16	84	\$ 15,000,000	\$ 8,600,000	\$ 6,958,781	\$ 544,781	\$ 6,414,000	\$ 1,641,219	\$ 8,055,219	\$ 7,058,805
1-Dec-17	72	Various	\$ 14,100,000	\$ 12,110,230	\$ 6,419,230	\$ 5,691,000	\$ 1,989,771	\$ 7,680,771	\$ 6,924,846
1-Dec-18	60	\$ 20,000,000	\$ 6,600,000	\$ 3,306,386	\$ 1,537,286	\$ 1,769,100	\$ 3,293,614	\$ 5,062,714	\$ 4,572,349
1-Dec-19	48	Various	\$ 10,500,000	\$ 6,565,866	\$ 339,766	\$ 6,226,100	\$ 3,934,134	\$ 10,160,234	\$ 9,079,139
1-Dec-20	36	\$ 30,000,000	\$ 8,300,000	\$ 1,257,877	\$ 503,877	\$ 754,000	\$ 7,042,123	\$ 7,796,123	\$ 6,849,059
1-Dec-21	24	\$ 30,000,000	\$ 24,000,000	\$ 11,294,600	\$ 850,000	\$ 10,444,600	\$ 12,705,400	\$ 23,150,000	\$ 19,810,860
1-Dec-22	12	\$ 30,000,000	\$ 15,900,000	\$ 1,287,538	\$ 138,776	\$ 1,148,762	\$ 14,612,462	\$ 15,761,224	\$ 12,979,864
<b>Total</b>			<b>\$ 305,647,556</b>	<b>\$ 257,447,214</b>	<b>\$ 201,669,851</b>	<b>\$ 55,777,363</b>	<b>\$ 48,200,343</b>	<b>\$ 103,977,705</b>	<b>\$ 89,547,019</b>

Column (4) : from Exhibit 1, Column (10)  
Columns (5), (6), (7) : Exhibit 10

Column (8) : Column (4) - Column (5)  
Column (9) : Column (4) - Column (6)  
Column (9) : Column (10) discounted



**Cook County, Illinois  
Other Liability**

**Other Liability Experience @ 11/30/23  
Incurred, Paid, & Outstanding "Chain Ladder" Methods  
Losses Limited to Retentions**

(1)	(2)	(3)			(4)			(5)			(6)			(7)			(8)			(9)			(10)			(11)		
Policy Period Inception	Evaluation in Months	Incurred Chain-Ladder			Paid Chain-Ladder			Outstanding Chain-Ladder			Case Reserves	Outstanding LDF	Ultimate Loss	Paid Loss	Paid LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss			
		Incurred Loss	Incurred LDF	Ultimate Loss	Paid Loss	Paid LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss																		
Prior	276	\$ 96,113,655	1.002	\$ 96,320,190	\$ 96,113,455	1.004	\$ 96,458,883	\$ 200	2.492	\$ 96,113,954																		
1-Dec-01	264	\$ 12,153,693	1.003	\$ 12,189,484	\$ 12,153,693	1.005	\$ 12,209,790	\$ -	2.771	\$ 12,153,693																		
1-Dec-02	252	\$ 5,220,383	1.004	\$ 5,239,315	\$ 5,220,383	1.006	\$ 5,250,648	\$ -	2.680	\$ 5,220,383																		
1-Dec-03	240	\$ 16,951,620	1.005	\$ 17,030,108	\$ 16,951,620	1.008	\$ 17,083,996	\$ -	2.468	\$ 16,951,620																		
1-Dec-04	228	\$ 11,024,316	1.007	\$ 11,097,511	\$ 10,924,316	1.010	\$ 11,031,644	\$ 100,000	3.105	\$ 11,234,805																		
1-Dec-05	216	\$ 4,023,510	1.009	\$ 4,058,324	\$ 4,023,510	1.013	\$ 4,075,228	\$ -	3.086	\$ 4,023,510																		
1-Dec-06	204	\$ 10,593,160	1.011	\$ 10,706,189	\$ 6,971,160	1.016	\$ 7,081,951	\$ 3,622,000	3.075	\$ 18,110,498																		
1-Dec-07	192	\$ 1,287,951	1.013	\$ 1,304,297	\$ 1,287,951	1.019	\$ 1,312,345	\$ -	3.069	\$ 1,287,951																		
1-Dec-08	180	\$ 5,056,400	1.015	\$ 5,130,814	\$ 5,056,400	1.022	\$ 5,167,627	\$ -	3.066	\$ 5,056,400																		
1-Dec-09	168	\$ 1,811,869	1.018	\$ 1,844,049	\$ 1,711,869	1.026	\$ 1,756,115	\$ 100,000	3.253	\$ 2,037,206																		
1-Dec-10	156	\$ 8,063,304	1.021	\$ 8,231,135	\$ 7,558,703	1.031	\$ 7,792,840	\$ 504,601	3.112	\$ 9,128,903																		
1-Dec-11	144	\$ 2,786,791	1.028	\$ 2,864,709	\$ 2,735,791	1.036	\$ 2,834,637	\$ 51,000	4.546	\$ 2,967,615																		
1-Dec-12	132	\$ 5,939,378	1.035	\$ 6,148,180	\$ 1,264,378	1.046	\$ 1,323,161	\$ 4,675,000	4.245	\$ 21,111,213																		
1-Dec-13	120	\$ 6,178,531	1.042	\$ 6,440,511	\$ 951,531	1.066	\$ 1,014,268	\$ 5,227,000	2.921	\$ 16,218,147																		
1-Dec-14	108	\$ 17,329,499	1.070	\$ 18,547,592	\$ 16,319,499	1.098	\$ 17,917,359	\$ 1,010,000	3.794	\$ 20,151,416																		
1-Dec-15	96	\$ 10,131,879	1.125	\$ 11,397,020	\$ 2,091,879	1.149	\$ 2,403,821	\$ 8,040,000	6.916	\$ 57,698,717																		
1-Dec-16	84	\$ 6,958,781	1.183	\$ 8,232,701	\$ 544,781	1.230	\$ 669,840	\$ 6,414,000	5.841	\$ 38,011,935																		
1-Dec-17	72	\$ 12,110,230	1.213	\$ 14,685,388	\$ 6,419,230	1.514	\$ 9,720,386	\$ 5,691,000	2.068	\$ 18,185,763																		
1-Dec-18	60	\$ 3,306,386	1.303	\$ 4,309,395	\$ 1,537,286	2.089	\$ 3,211,253	\$ 1,769,100	1.807	\$ 4,733,460																		
1-Dec-19	48	\$ 6,565,866	1.493	\$ 9,804,504	\$ 339,766	3.342	\$ 1,135,587	\$ 6,226,100	1.892	\$ 12,117,086																		
1-Dec-20	36	\$ 1,257,877	1.717	\$ 2,160,078	\$ 503,877	7.353	\$ 3,704,988	\$ 754,000	1.936	\$ 1,963,462																		
1-Dec-21	24	\$ 11,294,600	3.751	\$ 42,371,065	\$ 850,000	32.367	\$ 27,511,949	\$ 10,444,600	4.112	\$ 43,799,800																		
1-Dec-22	12	\$ 1,287,538	9.791	\$ 12,606,630	\$ 138,776	339.853	\$ 47,163,532	\$ 1,148,762	10.052	\$ 11,686,200																		
Total		\$ 257,447,214		\$ 312,719,189	\$ 201,669,851		\$ 287,831,847	\$ 55,777,363		\$ 429,963,737																		

Columns (3), (6), (9) : Exhibit 10

Column (4) & (7) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (8) : Column (6) X Column (7)

Column (10) : Outstanding LDF = (Incurred LDF - 1) X Paid LDF / (Paid LDF - Incurred LDF) + 1

Column (11) : Column (9) X Column (10) + Column (6)





**Cook County, Illinois  
Other Liability**

**Other Liability Experience @ 11/30/23  
Generalized Cape Cod Incurred Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Incurred Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Incurred Loss	Trended Revenue (in 000s)	Incurred LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 12,153,693	1.966	1.137	\$ 27,164,284	1,302,735	1.003	13.67	\$ 7,969,127	\$ 12,177,092
1-Dec-02	252	\$ 5,220,383	1.883	1.137	\$ 11,176,562	1,326,015	1.004	12.85	\$ 7,956,429	\$ 5,249,133
1-Dec-03	240	\$ 16,951,620	1.816	1.122	\$ 34,537,876	1,450,249	1.005	12.69	\$ 9,029,993	\$ 16,993,237
1-Dec-04	228	\$ 11,024,316	1.742	1.122	\$ 21,545,485	1,423,163	1.007	11.40	\$ 8,300,167	\$ 11,079,060
1-Dec-05	216	\$ 4,023,510	1.679	1.122	\$ 7,577,445	1,607,957	1.009	9.92	\$ 8,469,443	\$ 4,096,164
1-Dec-06	204	\$ 10,593,160	1.617	1.122	\$ 19,216,874	1,457,684	1.011	9.11	\$ 7,320,688	\$ 10,670,447
1-Dec-07	192	\$ 1,287,951	1.556	1.122	\$ 2,247,686	1,403,382	1.013	7.96	\$ 6,403,592	\$ 1,368,203
1-Dec-08	180	\$ 5,056,400	1.523	1.122	\$ 8,641,066	1,498,699	1.015	7.41	\$ 6,498,119	\$ 5,150,644
1-Dec-09	168	\$ 1,811,869	1.478	1.122	\$ 3,004,676	1,465,848	1.018	7.01	\$ 6,199,747	\$ 1,920,060
1-Dec-10	156	\$ 8,063,304	1.425	1.122	\$ 12,887,933	1,457,073	1.021	7.06	\$ 6,434,179	\$ 8,194,495
1-Dec-11	144	\$ 2,786,791	1.381	1.122	\$ 4,316,324	1,487,045	1.028	6.93	\$ 6,653,572	\$ 2,967,764
1-Dec-12	132	\$ 5,939,378	1.333	1.053	\$ 8,334,019	1,420,314	1.035	7.15	\$ 7,239,053	\$ 6,185,228
1-Dec-13	120	\$ 6,178,531	1.295	1.053	\$ 8,424,609	1,490,586	1.042	7.47	\$ 8,161,875	\$ 6,510,531
1-Dec-14	108	\$ 17,329,499	1.264	1.053	\$ 23,051,078	1,634,193	1.070	7.92	\$ 9,736,105	\$ 17,968,907
1-Dec-15	96	\$ 10,131,879	1.235	1.053	\$ 13,169,635	1,823,237	1.125	7.70	\$ 10,804,560	\$ 11,331,253
1-Dec-16	84	\$ 6,958,781	1.193	1.053	\$ 8,737,969	1,861,149	1.183	7.42	\$ 10,999,662	\$ 8,660,858
1-Dec-17	72	\$ 12,110,230	1.156	1.028	\$ 14,394,921	1,760,702	1.213	7.32	\$ 10,835,689	\$ 14,010,323
1-Dec-18	60	\$ 3,306,386	1.135	1.028	\$ 3,856,258	1,789,636	1.303	6.90	\$ 10,587,536	\$ 5,770,629
1-Dec-19	48	\$ 6,565,866	1.114	1.000	\$ 7,314,964	1,595,208	1.493	6.88	\$ 9,846,105	\$ 9,818,246
1-Dec-20	36	\$ 1,257,877	1.074	1.000	\$ 1,351,501	1,918,983	1.717	6.85	\$ 12,232,143	\$ 6,366,886
1-Dec-21	24	\$ 11,294,600	1.034	1.000	\$ 11,683,486	1,999,224	3.751	7.61	\$ 14,708,805	\$ 22,082,568
1-Dec-22	12	\$ 1,287,538	1.000	1.000	\$ 1,287,538	1,944,279	9.791	7.58	\$ 14,743,077	\$ 14,524,878
Total		\$ 161,333,559			\$ 253,922,189	35,117,362			\$ 201,129,667	\$ 203,096,607

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (Other Liability)

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Other Liability**

**Other Liability Experience @ 11/30/23  
Generalized Cape Cod Paid Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Paid Loss	Loss Trend Factor	Retention Adjustment Factor	Trended Paid Loss	Trended Revenue (in 000s)	Paid LDF	Expected Loss Rate	Adjusted Expected Loss	Ultimate Loss
1-Dec-01	264	\$ 12,153,693	1.966	1.137	\$ 27,164,284	1,302,735	1.005	13.27	\$ 7,736,917	\$ 12,189,240
1-Dec-02	252	\$ 5,220,383	1.883	1.137	\$ 11,176,562	1,326,015	1.006	12.39	\$ 7,675,909	\$ 5,264,628
1-Dec-03	240	\$ 16,951,620	1.816	1.122	\$ 34,537,876	1,450,249	1.008	12.15	\$ 8,645,623	\$ 17,018,611
1-Dec-04	228	\$ 10,924,316	1.742	1.122	\$ 21,350,049	1,423,163	1.010	10.72	\$ 7,802,973	\$ 11,000,231
1-Dec-05	216	\$ 4,023,510	1.679	1.122	\$ 7,577,445	1,607,957	1.013	9.05	\$ 7,726,685	\$ 4,121,569
1-Dec-06	204	\$ 6,971,160	1.617	1.122	\$ 12,646,264	1,457,684	1.016	7.98	\$ 6,409,538	\$ 7,071,432
1-Dec-07	192	\$ 1,287,951	1.556	1.122	\$ 2,247,686	1,403,382	1.019	6.88	\$ 5,534,237	\$ 1,390,823
1-Dec-08	180	\$ 5,056,400	1.523	1.122	\$ 8,641,066	1,498,699	1.022	6.28	\$ 5,511,551	\$ 5,175,029
1-Dec-09	168	\$ 1,711,869	1.478	1.122	\$ 2,838,843	1,465,848	1.026	5.74	\$ 5,070,036	\$ 1,839,610
1-Dec-10	156	\$ 7,558,703	1.425	1.122	\$ 12,081,407	1,457,073	1.031	5.53	\$ 5,038,859	\$ 7,710,096
1-Dec-11	144	\$ 2,735,791	1.381	1.122	\$ 4,237,333	1,487,045	1.036	5.05	\$ 4,844,130	\$ 2,904,709
1-Dec-12	132	\$ 1,264,378	1.333	1.053	\$ 1,774,151	1,420,314	1.046	4.75	\$ 4,804,449	\$ 1,477,823
1-Dec-13	120	\$ 951,531	1.295	1.053	\$ 1,297,440	1,490,586	1.066	4.74	\$ 5,186,593	\$ 1,272,347
1-Dec-14	108	\$ 16,319,499	1.264	1.053	\$ 21,707,612	1,634,193	1.098	5.11	\$ 6,271,905	\$ 16,878,824
1-Dec-15	96	\$ 2,091,879	1.235	1.053	\$ 2,719,069	1,823,237	1.149	4.49	\$ 6,295,447	\$ 2,908,834
1-Dec-16	84	\$ 544,781	1.193	1.053	\$ 684,068	1,861,149	1.230	4.13	\$ 6,114,202	\$ 1,686,304
1-Dec-17	72	\$ 6,419,230	1.156	1.028	\$ 7,630,268	1,760,702	1.514	4.17	\$ 6,172,434	\$ 8,515,460
1-Dec-18	60	\$ 1,537,286	1.135	1.028	\$ 1,792,945	1,789,636	2.089	3.93	\$ 6,032,568	\$ 4,681,953
1-Dec-19	48	\$ 339,766	1.114	1.000	\$ 378,530	1,595,208	3.342	3.79	\$ 5,425,821	\$ 4,142,188
1-Dec-20	36	\$ 503,877	1.074	1.000	\$ 541,381	1,918,983	7.353	3.80	\$ 6,790,856	\$ 6,371,180
1-Dec-21	24	\$ 850,000	1.034	1.000	\$ 879,267	1,999,224	32.367	3.92	\$ 7,581,966	\$ 8,197,716
1-Dec-22	12	\$ 138,776	1.000	1.000	\$ 138,776	1,944,279	339.853	3.95	\$ 7,677,190	\$ 7,793,376
Total		\$ 105,556,396			\$ 184,042,322	35,117,362			\$ 140,349,892	\$ 139,611,982

Column (3) : supplied by Cook County, Illinois

Column (4) : Aon Indices appropriate for coverage (Other Liability)

Column (5) : Exhibit 12 Column (4) scaled to the experience period's latest policy period

Column (6) : Column (3) X Column (4) X Column (5)

Column (7) : supplied by Cook County, Illinois, trended.

Column (8) : from Exhibit 9

Columns (9) and (10) : Quantities used in Cape Cod

Column (11) : Cape Cod estimated ultimate loss



**Cook County, Illinois  
Other Liability**

**Other Liability Experience @ 11/30/23  
Frequency & Severity Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Evaluation in Months	Reported Claims	Claim CDF	Ultimate Claims	Severity LDF	Reported Severity	Ultimate Reported Severity	Unreported Claims	Ultimate Unreported Severity	Ultimate Loss
Prior	276	1,594	1.000	1,594	1.002	\$ 60,297	\$ 60,427	0	\$ 63,743	\$ 96,320,190
1-Dec-01	264	162	1.000	162	1.003	\$ 75,023	\$ 75,244	0	\$ 67,343	\$ 12,189,484
1-Dec-02	252	87	1.000	87	1.004	\$ 60,004	\$ 60,222	0	\$ 72,625	\$ 5,239,315
1-Dec-03	240	74	1.000	74	1.005	\$ 229,076	\$ 230,137	0	\$ 80,282	\$ 17,030,108
1-Dec-04	228	61	1.000	61	1.007	\$ 180,726	\$ 181,926	0	\$ 82,559	\$ 11,097,511
1-Dec-05	216	94	1.000	94	1.009	\$ 42,803	\$ 43,174	0	\$ 80,218	\$ 4,058,324
1-Dec-06	204	140	1.000	140	1.011	\$ 75,665	\$ 76,473	0	\$ 78,989	\$ 10,706,189
1-Dec-07	192	78	1.000	78	1.013	\$ 16,512	\$ 16,722	0	\$ 77,039	\$ 1,304,297
1-Dec-08	180	87	1.000	87	1.015	\$ 58,120	\$ 58,975	0	\$ 76,379	\$ 5,130,814
1-Dec-09	168	98	1.000	98	1.018	\$ 18,488	\$ 18,817	0	\$ 77,307	\$ 1,844,049
1-Dec-10	156	85	1.000	85	1.021	\$ 94,862	\$ 96,837	0	\$ 84,236	\$ 8,231,135
1-Dec-11	144	55	1.000	55	1.028	\$ 50,669	\$ 52,086	0	\$ 90,769	\$ 2,864,709
1-Dec-12	132	69	1.000	69	1.035	\$ 86,078	\$ 89,104	0	\$ 107,951	\$ 6,148,180
1-Dec-13	120	55	1.000	55	1.042	\$ 112,337	\$ 117,100	0	\$ 122,141	\$ 6,440,511
1-Dec-14	108	67	1.000	67	1.070	\$ 258,649	\$ 276,830	0	\$ 138,810	\$ 18,547,592
1-Dec-15	96	69	1.000	69	1.125	\$ 146,839	\$ 165,174	0	\$ 145,106	\$ 11,397,020
1-Dec-16	84	71	1.004	71	1.179	\$ 98,011	\$ 115,507	0	\$ 151,896	\$ 8,200,996
1-Dec-17	72	53	1.014	54	1.196	\$ 228,495	\$ 273,283	1	\$ 167,005	\$ 14,650,998
1-Dec-18	60	50	1.027	51	1.269	\$ 66,128	\$ 83,948	1	\$ 168,611	\$ 4,366,007
1-Dec-19	48	46	1.048	48	1.426	\$ 142,736	\$ 203,472	2	\$ 183,117	\$ 9,725,953
1-Dec-20	36	31	1.109	34	1.548	\$ 40,577	\$ 62,831	3	\$ 197,665	\$ 2,540,761
1-Dec-21	24	25	1.447	36	2.593	\$ 451,784	\$ 1,171,392	11	\$ 228,626	\$ 31,799,679
1-Dec-22	12	42	3.439	144	2.847	\$ 30,656	\$ 87,285	102	\$ 228,386	\$ 26,961,314
Total		3,193		3,313				120		\$ 316,795,135

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : Column (3) X Column (4)

Column (6) : from {Exhibit 3, Column (4)} / Column (4)

Column (7) : from {Exhibit 3, Column (3)} / Column (3)

Column (8) : Column (6) X Column (7)

Column (9) : Column (5) - Column (3)

Column (10) : Weighted Average of Column (8) adjusted for Trend and Retention

Column (11) : Column (3) X Column (8) + Column (9) X Column (10)



**Cook County, Illinois  
Other Liability**

**Other Liability Experience @ 11/30/23  
Incurred Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Incurred Losses	Incurred LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	IBNR Factor	IBNR	Expected Ultimate Loss
1-Dec-01	\$ 9,500,000	\$ 12,153,693	1.003	5.16	1.137	4.54	\$ 4,801,173	0.003	\$ 14,097	\$ 12,167,790
1-Dec-02	\$ 9,500,000	\$ 5,220,383	1.004	5.34	1.137	4.69	\$ 5,101,804	0.004	\$ 18,435	\$ 5,238,818
1-Dec-03	Various	\$ 16,951,620	1.005	5.48	1.122	4.89	\$ 5,863,261	0.005	\$ 27,023	\$ 16,978,642
1-Dec-04	\$ 10,000,000	\$ 11,024,316	1.007	5.66	1.122	5.04	\$ 5,998,343	0.007	\$ 39,563	\$ 11,063,878
1-Dec-05	\$ 10,000,000	\$ 4,023,510	1.009	5.81	1.122	5.18	\$ 7,032,954	0.009	\$ 60,332	\$ 4,083,841
1-Dec-06	\$ 10,000,000	\$ 10,593,160	1.011	5.97	1.122	5.32	\$ 6,618,923	0.011	\$ 69,878	\$ 10,663,039
1-Dec-07	\$ 10,000,000	\$ 1,287,951	1.013	6.15	1.122	5.48	\$ 6,624,008	0.013	\$ 83,014	\$ 1,370,965
1-Dec-08	\$ 10,000,000	\$ 5,056,400	1.015	6.22	1.122	5.54	\$ 7,223,864	0.015	\$ 104,770	\$ 5,161,170
1-Dec-09	\$ 10,000,000	\$ 1,811,869	1.018	6.34	1.122	5.65	\$ 7,281,139	0.017	\$ 127,063	\$ 1,938,932
1-Dec-10	\$ 10,000,000	\$ 8,063,304	1.021	6.52	1.122	5.81	\$ 7,509,176	0.020	\$ 153,110	\$ 8,216,414
1-Dec-11	\$ 10,000,000	\$ 2,786,791	1.028	6.66	1.122	5.94	\$ 7,908,524	0.027	\$ 215,107	\$ 3,001,898
1-Dec-12	Various	\$ 5,939,378	1.035	6.83	1.053	6.48	\$ 8,337,808	0.034	\$ 283,166	\$ 6,222,544
1-Dec-13	\$ 15,000,000	\$ 6,178,531	1.042	6.95	1.053	6.61	\$ 9,004,791	0.041	\$ 366,287	\$ 6,544,818
1-Dec-14	\$ 15,000,000	\$ 17,329,499	1.070	7.06	1.053	6.71	\$ 10,119,972	0.066	\$ 664,618	\$ 17,994,117
1-Dec-15	\$ 15,000,000	\$ 10,131,879	1.125	7.16	1.053	6.80	\$ 11,554,215	0.111	\$ 1,282,591	\$ 11,414,470
1-Dec-16	\$ 15,000,000	\$ 6,958,781	1.183	7.33	1.053	6.96	\$ 12,209,139	0.155	\$ 1,889,230	\$ 8,848,011
1-Dec-17	Various	\$ 12,110,230	1.213	7.49	1.028	7.28	\$ 12,201,414	0.175	\$ 2,139,581	\$ 14,249,810
1-Dec-18	\$ 20,000,000	\$ 3,306,386	1.303	7.55	1.028	7.35	\$ 12,639,602	0.233	\$ 2,941,861	\$ 6,248,246
1-Dec-19	Various	\$ 6,565,866	1.493	7.62	1.000	7.62	\$ 11,794,470	0.330	\$ 3,895,966	\$ 10,461,832
1-Dec-20	\$ 30,000,000	\$ 1,257,877	1.717	7.82	1.000	7.82	\$ 14,712,074	0.418	\$ 6,144,804	\$ 7,402,680
1-Dec-21	\$ 30,000,000	\$ 11,294,600	3.751	8.04	1.000	8.04	\$ 15,919,923	0.733	\$ 11,676,245	\$ 22,970,845
1-Dec-22	\$ 30,000,000	\$ 1,287,538	9.791	8.24	1.000	8.24	\$ 16,015,472	0.898	\$ 14,379,783	\$ 15,667,321
Total		\$ 161,333,559					\$ 206,472,049		\$ 46,576,523	\$ 207,910,082

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Revenue) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)



**Cook County, Illinois  
Other Liability**

**Other Liability Experience @ 11/30/23  
Paid Bornhuetter/Ferguson Method  
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period Inception	Retention	Paid Losses	Paid LDF	Expected Loss Rate	Retention Adjustment	Adjusted Expected Loss Rate	Expected Loss	Unpaid Factor	Unpaid	Expected Ultimate Loss
1-Dec-01	\$ 9,500,000	\$ 12,153,693	1.005	5.16	1.137	4.54	\$ 4,801,173	0.005	\$ 22,059	\$ 12,175,752
1-Dec-02	\$ 9,500,000	\$ 5,220,383	1.006	5.34	1.137	4.69	\$ 5,101,804	0.006	\$ 29,407	\$ 5,249,790
1-Dec-03	Various	\$ 16,951,620	1.008	5.48	1.122	4.89	\$ 5,863,261	0.008	\$ 45,432	\$ 16,997,051
1-Dec-04	\$ 10,000,000	\$ 10,924,316	1.010	5.66	1.122	5.04	\$ 5,998,343	0.010	\$ 58,358	\$ 10,982,674
1-Dec-05	\$ 10,000,000	\$ 4,023,510	1.013	5.81	1.122	5.18	\$ 7,032,954	0.013	\$ 89,255	\$ 4,112,765
1-Dec-06	\$ 10,000,000	\$ 6,971,160	1.016	5.97	1.122	5.32	\$ 6,618,923	0.016	\$ 103,547	\$ 7,074,707
1-Dec-07	\$ 10,000,000	\$ 1,287,951	1.019	6.15	1.122	5.48	\$ 6,624,008	0.019	\$ 123,129	\$ 1,411,080
1-Dec-08	\$ 10,000,000	\$ 5,056,400	1.022	6.22	1.122	5.54	\$ 7,223,864	0.022	\$ 155,485	\$ 5,211,885
1-Dec-09	\$ 10,000,000	\$ 1,711,869	1.026	6.34	1.122	5.65	\$ 7,281,139	0.025	\$ 183,451	\$ 1,895,320
1-Dec-10	\$ 10,000,000	\$ 7,558,703	1.031	6.52	1.122	5.81	\$ 7,509,176	0.030	\$ 225,614	\$ 7,784,317
1-Dec-11	\$ 10,000,000	\$ 2,735,791	1.036	6.66	1.122	5.94	\$ 7,908,524	0.035	\$ 275,776	\$ 3,011,567
1-Dec-12	Various	\$ 1,264,378	1.046	6.83	1.053	6.48	\$ 8,337,808	0.044	\$ 370,419	\$ 1,634,797
1-Dec-13	\$ 15,000,000	\$ 951,531	1.066	6.95	1.053	6.61	\$ 9,004,791	0.062	\$ 556,990	\$ 1,508,520
1-Dec-14	\$ 15,000,000	\$ 16,319,499	1.098	7.06	1.053	6.71	\$ 10,119,972	0.089	\$ 902,493	\$ 17,221,992
1-Dec-15	\$ 15,000,000	\$ 2,091,879	1.149	7.16	1.053	6.80	\$ 11,554,215	0.130	\$ 1,499,382	\$ 3,591,260
1-Dec-16	\$ 15,000,000	\$ 544,781	1.230	7.33	1.053	6.96	\$ 12,209,139	0.187	\$ 2,279,449	\$ 2,824,230
1-Dec-17	Various	\$ 6,419,230	1.514	7.49	1.028	7.28	\$ 12,201,414	0.340	\$ 4,143,742	\$ 10,562,972
1-Dec-18	\$ 20,000,000	\$ 1,537,286	2.089	7.55	1.028	7.35	\$ 12,639,602	0.521	\$ 6,588,794	\$ 8,126,080
1-Dec-19	Various	\$ 339,766	3.342	7.62	1.000	7.62	\$ 11,794,470	0.701	\$ 8,265,577	\$ 8,605,344
1-Dec-20	\$ 30,000,000	\$ 503,877	7.353	7.82	1.000	7.82	\$ 14,712,074	0.864	\$ 12,711,239	\$ 13,215,116
1-Dec-21	\$ 30,000,000	\$ 850,000	32.367	8.04	1.000	8.04	\$ 15,919,923	0.969	\$ 15,428,067	\$ 16,278,067
1-Dec-22	\$ 30,000,000	\$ 138,776	339.853	8.24	1.000	8.24	\$ 16,015,472	0.997	\$ 15,968,347	\$ 16,107,123
Total		\$ 105,556,396					\$ 206,472,049		\$ 70,026,013	\$ 175,582,409

Column (3) : supplied by Cook County, Illinois

Column (4) : from Exhibit 9

Column (5) : from Exhibit 12 detrended for exposure and loss

Column (6) : from Exhibit 12

Column (7) : Column (5) / Column (6)

Column (8) : Column (7) X Exposure (Revenue) supplied by Cook County, Illinois

Column (9) : 1 - 1 / Column (4)

Column (10) : Column (8) X Column (9)

Column (11) : Column (3) + Column (10)





**Cook County, Illinois  
Other Liability**

**Other Liability Experience @ 11/30/23  
Limited Loss Calculations**

(1) Policy Period Inception	(2) Unlimited			(5) Retention	(6) Claims valued over the Retention				(10) Limited		
	Incurred	Paid	Case O/S		No.	Incurred	No.	Paid	Incurred	Paid	Case O/S
Prior	\$ 96,113,655	\$ 96,113,455	\$ 200	Various	-	\$ -	-	\$ -	\$ 96,113,655	\$ 96,113,455	\$ 200
1-Dec-01	\$ 12,153,693	\$ 12,153,693	\$ -	\$ 9,500,000	-	\$ -	-	\$ -	\$ 12,153,693	\$ 12,153,693	\$ -
1-Dec-02	\$ 5,220,383	\$ 5,220,383	\$ -	\$ 9,500,000	-	\$ -	-	\$ -	\$ 5,220,383	\$ 5,220,383	\$ -
1-Dec-03	\$ 16,951,620	\$ 16,951,620	\$ -	Various	-	\$ -	-	\$ -	\$ 16,951,620	\$ 16,951,620	\$ -
1-Dec-04	\$ 11,024,316	\$ 10,924,316	\$ 100,000	\$ 10,000,000	-	\$ -	-	\$ -	\$ 11,024,316	\$ 10,924,316	\$ 100,000
1-Dec-05	\$ 4,023,510	\$ 4,023,510	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	\$ 4,023,510	\$ 4,023,510	\$ -
1-Dec-06	\$ 10,593,160	\$ 6,971,160	\$ 3,622,000	\$ 10,000,000	-	\$ -	-	\$ -	\$ 10,593,160	\$ 6,971,160	\$ 3,622,000
1-Dec-07	\$ 1,287,951	\$ 1,287,951	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	\$ 1,287,951	\$ 1,287,951	\$ -
1-Dec-08	\$ 5,056,400	\$ 5,056,400	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	\$ 5,056,400	\$ 5,056,400	\$ -
1-Dec-09	\$ 1,811,869	\$ 1,711,869	\$ 100,000	\$ 10,000,000	-	\$ -	-	\$ -	\$ 1,811,869	\$ 1,711,869	\$ 100,000
1-Dec-10	\$ 8,063,304	\$ 7,558,703	\$ 504,601	\$ 10,000,000	-	\$ -	-	\$ -	\$ 8,063,304	\$ 7,558,703	\$ 504,601
1-Dec-11	\$ 2,786,791	\$ 2,735,791	\$ 51,000	\$ 10,000,000	-	\$ -	-	\$ -	\$ 2,786,791	\$ 2,735,791	\$ 51,000
1-Dec-12	\$ 5,939,378	\$ 1,264,378	\$ 4,675,000	Various	-	\$ -	-	\$ -	\$ 5,939,378	\$ 1,264,378	\$ 4,675,000
1-Dec-13	\$ 6,178,531	\$ 951,531	\$ 5,227,000	\$ 15,000,000	-	\$ -	-	\$ -	\$ 6,178,531	\$ 951,531	\$ 5,227,000
1-Dec-14	\$ 19,357,332	\$ 18,347,332	\$ 1,010,000	\$ 15,000,000	1	\$ 17,027,833	1	\$ 17,027,833	\$ 17,329,499	\$ 16,319,499	\$ 1,010,000
1-Dec-15	\$ 10,131,879	\$ 2,091,879	\$ 8,040,000	\$ 15,000,000	-	\$ -	-	\$ -	\$ 10,131,879	\$ 2,091,879	\$ 8,040,000
1-Dec-16	\$ 6,958,781	\$ 544,781	\$ 6,414,000	\$ 15,000,000	-	\$ -	-	\$ -	\$ 6,958,781	\$ 544,781	\$ 6,414,000
1-Dec-17	\$ 12,110,230	\$ 6,419,230	\$ 5,691,000	Various	-	\$ -	-	\$ -	\$ 12,110,230	\$ 6,419,230	\$ 5,691,000
1-Dec-18	\$ 3,306,386	\$ 1,537,286	\$ 1,769,100	\$ 20,000,000	-	\$ -	-	\$ -	\$ 3,306,386	\$ 1,537,286	\$ 1,769,100
1-Dec-19	\$ 6,565,866	\$ 339,766	\$ 6,226,100	Various	-	\$ -	-	\$ -	\$ 6,565,866	\$ 339,766	\$ 6,226,100
1-Dec-20	\$ 1,257,877	\$ 503,877	\$ 754,000	\$ 30,000,000	-	\$ -	-	\$ -	\$ 1,257,877	\$ 503,877	\$ 754,000
1-Dec-21	\$ 11,294,600	\$ 850,000	\$ 10,444,600	\$ 30,000,000	-	\$ -	-	\$ -	\$ 11,294,600	\$ 850,000	\$ 10,444,600
1-Dec-22	\$ 1,287,538	\$ 138,776	\$ 1,148,762	\$ 30,000,000	-	\$ -	-	\$ -	\$ 1,287,538	\$ 138,776	\$ 1,148,762
	\$ 259,475,047	\$ 203,697,684	\$ 55,777,363		1	\$ 17,027,833	1	\$ 17,027,833	\$ 257,447,214	\$ 201,669,851	\$ 55,777,363

Column (2) and Column (3) : Supplied by Cook County, Illinois  
 Column (4) : Column (2) - Column (3)  
 Column (5) : Individual loss limitation

Column (6) through Column (9) : supplied by Cook County, Illinois  
 Column (10) : Column (2) - Column (7) + [Column (5) x Column (6)]  
 Column (11) : Column (3) - Column (9) + [Column (5) x Column (8)]

**Cook County, Illinois  
Other Liability**

**Other Liability Experience @ 11/30/23  
Selected Ultimate Claim Counts**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Policy Period Inception	Trended Revenue (in 000s)	Reported Claims	Claim CDF	Chain-Ladder Developed Claims	Frequency Trend	Trended Developed Claims	Trended Frequency Rate	Bornhuetter-Ferguson Developed	Selected Trended Claims	Selected Untrended Claims	Trended Frequency Rate
1-Dec-01	1,302,735	162	1.000	162	1.000	162	0.01244%		162	162	0.01244%
1-Dec-02	1,326,015	87	1.000	87	1.000	87	0.00656%		87	87	0.00656%
1-Dec-03	1,450,249	74	1.000	74	1.000	74	0.00510%		74	74	0.00510%
1-Dec-04	1,423,163	61	1.000	61	1.000	61	0.00429%		61	61	0.00429%
1-Dec-05	1,607,957	94	1.000	94	1.000	94	0.00585%		94	94	0.00585%
1-Dec-06	1,457,684	140	1.000	140	1.000	140	0.00960%		140	140	0.00960%
1-Dec-07	1,403,382	78	1.000	78	1.000	78	0.00556%		78	78	0.00556%
1-Dec-08	1,498,699	87	1.000	87	1.000	87	0.00581%		87	87	0.00581%
1-Dec-09	1,465,848	98	1.000	98	1.000	98	0.00669%		98	98	0.00669%
1-Dec-10	1,457,073	85	1.000	85	1.000	85	0.00583%		85	85	0.00583%
1-Dec-11	1,487,045	55	1.000	55	1.000	55	0.00370%		55	55	0.00370%
1-Dec-12	1,420,314	69	1.000	69	1.000	69	0.00486%		69	69	0.00486%
1-Dec-13	1,490,586	55	1.000	55	1.000	55	0.00369%		55	55	0.00369%
1-Dec-14	1,634,193	67	1.000	67	1.000	67	0.00410%		67	67	0.00410%
1-Dec-15	1,823,237	69	1.000	69	1.000	69	0.00378%		69	69	0.00378%
1-Dec-16	1,861,149	71	1.004	71	1.000	71	0.00383%		71	71	0.00383%
1-Dec-17	1,760,702	53	1.014	54	1.000	54	0.00305%		54	54	0.00305%
1-Dec-18	1,789,636	50	1.027	51	1.000	51	0.00287%		51	51	0.00287%
1-Dec-19	1,595,208	46	1.048	48	1.000	48	0.00302%		48	48	0.00302%
1-Dec-20	1,918,983	31	1.109	34	1.000	34	0.00179%		34	34	0.00179%
1-Dec-21	1,999,224	25	1.447	36	1.000	36	0.00181%		36	36	0.00181%
1-Dec-22	1,944,279	42	3.439	144	1.000	144	0.00743%		144	144	0.00743%
Total	35,117,362	1,599		1,721		1,721	0.00490%		1,721	1,719	0.00490%

Column (2) : from Exhibit 4  
 Column (3) : supplied by Cook County, Illinois  
 Column (4) : from Exhibit 9

Column (5) : Column (3) x Column (4)  
 Column (6) : Assumption  
 Column (7) : Column (5) x Column (6)  
 Column (8) : Column (7) / Column (2)

Column (9) : Bornhuetter Method = (3) + (1.0 - 1.0/(4)) x 186  
 Column (10) : Selected Trended Ultimate Claims  
 Column (11) : Column (10) / Column (6)  
 Column (12) : Column (10) / Column (2)

Selected Frequency Rate for Renewal Policy Period 1-Dec-23					
<u>Weighted Averages through and including Policy Period 1-Dec-22</u>					
Last 5 Policies	9,247,331			315	0.00340%
Last 3 Policies	5,862,486			215	0.00367%
Last 2 Policies	3,943,503			181	0.00458%
Last 22 Policies	35,117,362			1,721	0.00490%
Selected Bornhuetter-Ferguson Frequency Rate					<b>0.00310%</b>
Factor to adjust the Claims / Exposure Trend Rate from Policy Period 1-Dec-22 to Renewal Period 1-Dec-23					0.991
Selected Frequency Rate adjusted to the Renewal Policy Period Level					0.00307%
Revenue for 1-Dec-23					1,953,331
Projected Count for 1-Dec-23					60



**Cook County, Illinois  
Other Liability  
Other Liability Experience @ 11/30/23  
Losses Limited to Retentions**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
<b>Policy Period Inception</b>	<b>Incurred Loss</b>	<b>Selected Ultimate Loss</b>	<b>Loss Trend Factor</b>	<b>Retention Adjustment Factor</b>	<b>Trended Ultimate Loss</b>	<b>Revenue (in 000s)</b>	<b>Exposure Trend Factor</b>	<b>Trended Revenue (in 000s)</b>	<b>Trended Loss Rate</b>
1-Dec-01	12,153,693	12,153,693	2.026	1.137	27,993,199	1,057,079	1.244	1,314,672	21.29
1-Dec-02	5,220,383	5,220,383	1.941	1.137	11,517,613	1,086,728	1.231	1,338,165	8.61
1-Dec-03	16,951,620	16,951,620	1.871	1.122	35,591,795	1,199,434	1.220	1,463,537	24.32
1-Dec-04	11,024,316	11,060,000	1.795	1.122	22,274,811	1,189,789	1.207	1,436,204	15.51
1-Dec-05	4,023,510	4,023,510	1.730	1.122	7,808,670	1,357,723	1.195	1,622,690	4.81
1-Dec-06	10,593,160	10,680,000	1.666	1.122	19,965,616	1,243,144	1.183	1,471,041	13.57
1-Dec-07	1,287,951	1,287,951	1.603	1.122	2,316,274	1,207,801	1.173	1,416,241	1.64
1-Dec-08	5,056,400	5,056,400	1.570	1.122	8,904,747	1,303,812	1.160	1,512,431	5.89
1-Dec-09	1,811,869	1,900,000	1.523	1.122	3,246,974	1,287,986	1.149	1,479,280	2.19
1-Dec-10	8,063,304	8,200,000	1.468	1.122	13,506,361	1,293,078	1.137	1,470,424	9.19
1-Dec-11	2,786,791	3,000,000	1.423	1.122	4,788,343	1,331,769	1.127	1,500,670	3.19
1-Dec-12	5,939,378	6,200,000	1.374	1.053	8,965,190	1,285,791	1.115	1,433,328	6.25
1-Dec-13	6,178,531	6,500,000	1.335	1.053	9,133,393	1,362,902	1.104	1,504,244	6.07
1-Dec-14	17,329,499	18,000,000	1.302	1.053	24,673,571	1,509,150	1.093	1,649,167	14.96
1-Dec-15	10,131,879	11,300,000	1.273	1.053	15,136,186	1,699,156	1.083	1,839,943	8.23
1-Dec-16	6,958,781	8,600,000	1.229	1.053	11,128,331	1,753,287	1.071	1,878,203	5.92
1-Dec-17	12,110,230	14,100,000	1.192	1.028	17,271,510	1,675,248	1.061	1,776,835	9.72
1-Dec-18	3,306,386	6,600,000	1.169	1.028	7,932,512	1,719,805	1.050	1,806,034	4.39
1-Dec-19	6,565,866	10,500,000	1.148	1.000	12,054,904	1,547,010	1.041	1,609,825	7.49
1-Dec-20	1,257,877	8,300,000	1.107	1.000	9,189,902	1,881,172	1.029	1,936,567	4.75
1-Dec-21	11,294,600	24,000,000	1.066	1.000	25,583,922	1,979,429	1.019	2,017,542	12.68
1-Dec-22	1,287,538	15,900,000	1.031	1.000	16,385,187	1,944,279	1.009	1,962,094	8.35
<b>All Year Weighted Average</b>					315,369,011			35,439,137	8.90
<b>Latest 5-Year Weighted Average</b>					71,146,427			9,332,062	7.62
<b>Latest 3-Year Weighted Average</b>					51,159,011			5,916,203	8.65
<b>SELECTED - Based on Shaded PY</b>									<b>8.41</b>

Column (1) : from Exhibit 10    Column (10)  
 Column (2) : from Exhibit 2, Column (10)  
 Column (3) : Trend Indices appropriate for Other Liability  
 Column (4) : from Retention Analysis  
 Column (5) : Column (2) x Column (3) x Column (4)  
 Column (6) : supplied by Cook County, Illinois  
 Column (7) : Annual Exposure Trend  
 Column (8) : Column (6) x Column (7)  
 Column (9) : Column (5) / Column (8)

Renewal Projections (Losses and Claims developed to Ultimate)						
	(10)	(11)	(12)	(13)	(14)	(15)
<b>Policy Period Inception</b>	<b>Retention</b>	<b>Revenue (in 000s)</b>	<b>Claim Count</b>	<b>Loss Rate</b>	<b>Loss Amount</b>	
1-Dec-23	30,000,000	1,953,331	60	8.41	16,400,000	
1-Dec-24	30,000,000	1,974,501	60	8.49	16,800,000	
1-Dec-25	30,000,000	1,994,246	60	8.57	17,100,000	

Columns (11) - (15) : Projections. These are preliminary and should be monitored with actuarial updates.



**Cook County, Illinois  
Other Liability  
Projected Losses Paid 12/1/2023 to 11/30/2024**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/23	Percent Losses Paid	Months of Development 11/30/24	Percent Losses Paid	Estimated Outstanding Losses 11/30/23	Projected Losses Paid	Estimated Outstanding Losses 11/30/24	Discount Factor	Discounted Outstanding Losses 11/30/24
Prior	276	99.6%	288	99.7%	\$ 545	\$ 54	\$ 490	0.867	\$ 425
1-Dec-01	264	99.5%	276	99.6%	\$ -	\$ -	\$ -	0.867	\$ -
1-Dec-02	252	99.4%	264	99.5%	\$ -	\$ -	\$ -	0.862	\$ -
1-Dec-03	240	99.2%	252	99.4%	\$ -	\$ -	\$ -	0.857	\$ -
1-Dec-04	228	99.0%	240	99.2%	\$ 135,684	\$ 13,568	\$ 122,116	0.860	\$ 105,069
1-Dec-05	216	98.7%	228	99.0%	\$ -	\$ -	\$ -	0.855	\$ -
1-Dec-06	204	98.4%	216	98.7%	\$ 3,708,840	\$ 370,884	\$ 3,337,956	0.856	\$ 2,856,303
1-Dec-07	192	98.1%	204	98.4%	\$ -	\$ -	\$ -	0.849	\$ -
1-Dec-08	180	97.8%	192	98.1%	\$ -	\$ -	\$ -	0.839	\$ -
1-Dec-09	168	97.5%	180	97.8%	\$ 188,131	\$ 18,813	\$ 169,318	0.827	\$ 140,003
1-Dec-10	156	97.0%	168	97.5%	\$ 641,297	\$ 64,130	\$ 577,167	0.819	\$ 472,499
1-Dec-11	144	96.5%	156	97.0%	\$ 264,209	\$ 26,421	\$ 237,788	0.815	\$ 193,795
1-Dec-12	132	95.6%	144	96.5%	\$ 4,935,622	\$ 493,562	\$ 4,442,060	0.807	\$ 3,586,896
1-Dec-13	120	93.8%	132	95.6%	\$ 5,548,469	\$ 554,847	\$ 4,993,622	0.817	\$ 4,080,068
1-Dec-14	108	91.1%	120	93.8%	\$ 1,680,501	\$ 168,050	\$ 1,512,451	0.837	\$ 1,266,426
1-Dec-15	96	87.0%	108	91.1%	\$ 9,208,121	\$ 920,812	\$ 8,287,309	0.856	\$ 7,090,884
1-Dec-16	84	81.3%	96	87.0%	\$ 8,055,219	\$ 805,522	\$ 7,249,697	0.869	\$ 6,298,508
1-Dec-17	72	66.0%	84	81.3%	\$ 7,680,771	\$ 768,077	\$ 6,912,693	0.876	\$ 6,057,608
1-Dec-18	60	47.9%	72	66.0%	\$ 5,062,714	\$ 506,271	\$ 4,556,443	0.902	\$ 4,108,008
1-Dec-19	48	29.9%	60	47.9%	\$ 10,160,234	\$ 1,016,023	\$ 9,144,210	0.903	\$ 8,258,519
1-Dec-20	36	13.6%	48	29.9%	\$ 7,796,123	\$ 779,612	\$ 7,016,511	0.894	\$ 6,269,923
1-Dec-21	24	3.1%	36	13.6%	\$ 23,150,000	\$ 2,315,000	\$ 20,835,000	0.879	\$ 18,303,986
1-Dec-22	12	0.3%	24	3.1%	\$ 15,761,224	\$ 441,877	\$ 15,319,347	0.856	\$ 13,109,695
1-Dec-23	0	0.0%	12	0.3%	\$ 16,400,000	\$ 48,256	\$ 16,351,744	0.824	\$ 13,466,176
<b>Total</b>					<b>\$ 120,377,705</b>	<b>\$ 9,311,781</b>	<b>\$ 111,065,924</b>		<b>\$ 95,664,791</b>

Column (3): 1 / Exhibit 9 Column (3)  
 Column (5): 1 / Rollforward Exhibit Column (54)  
 Column (6): From Executive Summary  
 Column (7): Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)  
 \* - Limited to a maximum of 10% per actuarial judgement



**Cook County, Illinois  
Other Liability  
Projected Losses Paid 12/1/2024 to 11/30/2025**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/24	Percent Losses Paid	Months of Development 11/30/25	Percent Losses Paid	Estimated Outstanding Losses 11/30/24	Projected Losses Paid	Estimated Outstanding Losses 11/30/25	Discount Factor	Discounted Outstanding Losses 11/30/25
Prior	288	99.7%	300	99.8%	\$ 409	\$ 41	\$ 368	0.867	\$ 319
1-Dec-01	276	99.6%	288	99.7%	\$ -	\$ -	\$ -	0.867	\$ -
1-Dec-02	264	99.5%	276	99.6%	\$ -	\$ -	\$ -	0.867	\$ -
1-Dec-03	252	99.4%	264	99.5%	\$ -	\$ -	\$ -	0.862	\$ -
1-Dec-04	240	99.2%	252	99.4%	\$ 108,063	\$ 10,806	\$ 97,257	0.857	\$ 83,303
1-Dec-05	228	99.0%	240	99.2%	\$ -	\$ -	\$ -	0.860	\$ -
1-Dec-06	216	98.7%	228	99.0%	\$ 3,008,738	\$ 300,874	\$ 2,707,864	0.855	\$ 2,315,307
1-Dec-07	204	98.4%	216	98.7%	\$ -	\$ -	\$ -	0.856	\$ -
1-Dec-08	192	98.1%	204	98.4%	\$ -	\$ -	\$ -	0.849	\$ -
1-Dec-09	180	97.8%	192	98.1%	\$ 160,716	\$ 16,072	\$ 144,644	0.839	\$ 121,345
1-Dec-10	168	97.5%	180	97.8%	\$ 537,781	\$ 53,778	\$ 484,003	0.827	\$ 400,206
1-Dec-11	156	97.0%	168	97.5%	\$ 227,646	\$ 22,765	\$ 204,882	0.819	\$ 167,727
1-Dec-12	144	96.5%	156	97.0%	\$ 3,874,014	\$ 387,401	\$ 3,486,612	0.815	\$ 2,841,555
1-Dec-13	132	95.6%	144	96.5%	\$ 3,985,120	\$ 398,512	\$ 3,586,608	0.807	\$ 2,896,132
1-Dec-14	120	93.8%	132	95.6%	\$ 1,165,595	\$ 116,559	\$ 1,049,035	0.817	\$ 857,121
1-Dec-15	108	91.1%	120	93.8%	\$ 6,327,964	\$ 632,796	\$ 5,695,168	0.837	\$ 4,768,756
1-Dec-16	96	87.0%	108	91.1%	\$ 5,598,920	\$ 559,892	\$ 5,039,028	0.856	\$ 4,311,552
1-Dec-17	84	81.3%	96	87.0%	\$ 4,222,474	\$ 422,247	\$ 3,800,227	0.869	\$ 3,301,622
1-Dec-18	72	66.0%	84	81.3%	\$ 3,298,325	\$ 329,833	\$ 2,968,493	0.876	\$ 2,601,296
1-Dec-19	60	47.9%	72	66.0%	\$ 7,557,557	\$ 755,756	\$ 6,801,802	0.902	\$ 6,132,383
1-Dec-20	48	29.9%	60	47.9%	\$ 6,323,529	\$ 632,353	\$ 5,691,176	0.903	\$ 5,139,939
1-Dec-21	36	13.6%	48	29.9%	\$ 20,639,276	\$ 2,063,928	\$ 18,575,348	0.894	\$ 16,598,847
1-Dec-22	24	3.1%	36	13.6%	\$ 15,319,347	\$ 1,531,935	\$ 13,787,412	0.879	\$ 12,112,532
1-Dec-23	12	0.3%	24	3.1%	\$ 16,351,744	\$ 458,433	\$ 15,893,311	0.856	\$ 13,600,871
1-Dec-24	0	0.0%	12	0.3%	\$ 16,800,000	\$ 49,433	\$ 16,750,567	0.824	\$ 13,794,619
<b>Total</b>					<b>\$ 115,507,219</b>	<b>\$ 8,743,413</b>	<b>\$ 106,763,806</b>		<b>\$ 92,045,431</b>

Column (3): 1 / Rollforward Exhibit Column (54)  
 Column (5): 1 / Rollforward Exhibit 2 Column (54)  
 Column (6): Rollforward Exhibit Column (21) & Projection  
 Column (7): Rollforward Exhibit 2 Column (31) - Rollforward Exhibit Column (31)

Column (8): Column (6) - Column (7)  
 Column (9): Based on Column (3) and 4.48% Interest Rate  
 Column (10): Column (8) x Column (9)  
 \* - Limited to a maximum of 10% per actuarial judgement



**Cook County, Illinois  
Other Liability  
Projected Losses Paid 12/1/2025 to 11/30/2026**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/25	Percent Losses Paid	Months of Development 11/30/26	Percent Losses Paid	Estimated Outstanding Losses 11/30/25	Projected Losses Paid	Estimated Outstanding Losses 11/30/26	Discount Factor	Discounted Outstanding Losses 11/30/26
Prior	300	99.8%	312	99.8%	\$ 307	\$ 31	\$ 276	0.867	\$ 240
1-Dec-01	288	99.7%	300	99.8%	\$ -	\$ -	\$ -	0.867	\$ -
1-Dec-02	276	99.6%	288	99.7%	\$ -	\$ -	\$ -	0.867	\$ -
1-Dec-03	264	99.5%	276	99.6%	\$ -	\$ -	\$ -	0.867	\$ -
1-Dec-04	252	99.4%	264	99.5%	\$ 80,387	\$ 8,039	\$ 72,348	0.862	\$ 62,399
1-Dec-05	240	99.2%	252	99.4%	\$ -	\$ -	\$ -	0.857	\$ -
1-Dec-06	228	99.0%	240	99.2%	\$ 2,306,536	\$ 230,654	\$ 2,075,883	0.860	\$ 1,786,096
1-Dec-07	216	98.7%	228	99.0%	\$ -	\$ -	\$ -	0.855	\$ -
1-Dec-08	204	98.4%	216	98.7%	\$ -	\$ -	\$ -	0.856	\$ -
1-Dec-09	192	98.1%	204	98.4%	\$ 138,797	\$ 13,880	\$ 124,918	0.849	\$ 106,066
1-Dec-10	180	97.8%	192	98.1%	\$ 459,414	\$ 45,941	\$ 413,472	0.839	\$ 346,870
1-Dec-11	168	97.5%	180	97.8%	\$ 190,900	\$ 19,090	\$ 171,810	0.827	\$ 142,064
1-Dec-12	156	97.0%	168	97.5%	\$ 3,337,902	\$ 333,790	\$ 3,004,111	0.819	\$ 2,459,320
1-Dec-13	144	96.5%	156	97.0%	\$ 3,127,957	\$ 312,796	\$ 2,815,161	0.815	\$ 2,294,328
1-Dec-14	132	95.6%	144	96.5%	\$ 837,174	\$ 83,717	\$ 753,457	0.807	\$ 608,405
1-Dec-15	120	93.8%	132	95.6%	\$ 4,389,073	\$ 438,907	\$ 3,950,166	0.817	\$ 3,227,506
1-Dec-16	108	91.1%	120	93.8%	\$ 3,847,665	\$ 384,766	\$ 3,462,898	0.837	\$ 2,899,602
1-Dec-17	96	87.0%	108	91.1%	\$ 2,934,904	\$ 293,490	\$ 2,641,414	0.856	\$ 2,260,077
1-Dec-18	84	81.3%	96	87.0%	\$ 2,189,696	\$ 218,970	\$ 1,970,727	0.869	\$ 1,712,159
1-Dec-19	72	66.0%	84	81.3%	\$ 4,923,699	\$ 492,370	\$ 4,431,329	0.876	\$ 3,883,183
1-Dec-20	60	47.9%	72	66.0%	\$ 4,703,674	\$ 470,367	\$ 4,233,307	0.902	\$ 3,816,674
1-Dec-21	48	29.9%	60	47.9%	\$ 16,740,763	\$ 1,674,076	\$ 15,066,687	0.903	\$ 13,607,354
1-Dec-22	36	13.6%	48	29.9%	\$ 13,657,893	\$ 1,365,789	\$ 12,292,104	0.894	\$ 10,984,168
1-Dec-23	24	3.1%	36	13.6%	\$ 15,893,311	\$ 1,589,331	\$ 14,303,980	0.879	\$ 12,566,347
1-Dec-24	12	0.3%	24	3.1%	\$ 16,750,567	\$ 469,614	\$ 16,280,953	0.856	\$ 13,932,600
1-Dec-25	0	0.0%	12	0.3%	\$ 17,100,000	\$ 50,316	\$ 17,049,684	0.824	\$ 14,040,952
<b>Total</b>					<b>\$ 113,610,620</b>	<b>\$ 8,495,935</b>	<b>\$ 105,114,685</b>		<b>\$ 90,736,411</b>

Column (3): 1 / Rollforward Exhibit 2 Column (54)

Column (5): 1 / Rollforward Exhibit 3 Column (54)

Column (6): Rollforward Exhibit 2 Column (21) & Projection

Column (7): Rollforward Exhibit 3 Column (31) - Rollforward Exhibit 2 Column (31)

Column (8): Column (6) - Column (7)

Column (9): Based on Column (3) and 4.48% Interest Rate

Column (10): Column (8) x Column (9)

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



**Cook County, Illinois**  
**Other Liability**  
**Large Claims**

All Claims greater than or equal to \$1,000,000

(1)	(2)	(3)	(4)	(5)
<u>Policy Period</u>	<u>Loss Date</u>	<u>Incurred Loss</u>	<u>Paid Loss</u>	<u>Case Reserves</u>
Prior	5/12/1978	37,869,997	37,869,997	-
Prior	5/13/1978	4,000,000	4,000,000	-
Prior	1/1/1989	1,898,909	1,898,909	-
Prior	2/1/1992	1,250,000	1,250,000	-
Prior	1/1/1994	6,760,000	6,760,000	-
Prior	4/17/1995	6,882,500	6,882,500	-
Prior	9/19/1995	2,000,000	2,000,000	-
Prior	1/1/2001	4,006,000	4,006,000	-
Prior	3/11/2001	1,003,000	1,003,000	-
12/1/2001	2/12/2002	3,368,046	3,368,046	-
12/1/2001	7/9/2002	1,500,000	1,500,000	-
12/1/2001	7/10/2002	4,500,000	4,500,000	-
12/1/2002	1/1/2003	4,750,411	4,750,411	-
12/1/2003	1/1/2004	4,377,358	4,377,358	-
12/1/2003	4/29/2004	5,291,386	5,291,386	-
12/1/2003	8/28/2004	6,425,872	6,425,872	-
12/1/2004	7/12/2005	1,286,194	1,286,194	-
12/1/2004	8/3/2005	7,500,000	7,500,000	-
12/1/2005	1/1/2006	2,400,000	2,400,000	-
12/1/2006	1/1/2007	2,600,000	2,600,000	-
12/1/2006	2/1/2007	3,620,000	-	3,620,000
12/1/2006	9/1/2007	1,600,000	1,600,000	-
12/1/2008	7/25/2009	3,073,363	3,073,363	-
12/1/2010	3/8/2011	5,600,000	5,600,000	-
12/1/2012	1/1/2013	4,000,000	-	4,000,000
12/1/2013	1/1/2014	1,000,000	-	1,000,000
12/1/2013	1/18/2014	4,000,000	-	4,000,000
12/1/2014	11/14/2015	17,027,833	17,027,833	-



**Cook County, Illinois**  
**Other Liability**  
**Large Claims**

All Claims greater than or equal to \$1,000,000

(1)	(2)	(3)	(4)	(5)
<u>Policy</u> <u>Period</u>	<u>Loss</u> <u>Date</u>	<u>Incurred</u> <u>Loss</u>	<u>Paid</u> <u>Loss</u>	<u>Case</u> <u>Reserves</u>
12/1/2015	1/1/2016	5,000,000	-	5,000,000
12/1/2015	9/19/2016	1,400,000	-	1,400,000
12/1/2015	11/30/2016	1,500,000	1,500,000	-
12/1/2016	11/20/2017	4,463,000	-	4,463,000
12/1/2017	12/1/2017	4,275,600	4,275,600	-
12/1/2017	12/4/2017	2,540,000	-	2,540,000
12/1/2017	5/1/2018	1,268,247	1,268,247	-
12/1/2017	5/9/2018	1,000,000	-	1,000,000
12/1/2019	3/16/2020	5,000,000	-	5,000,000
12/1/2021	1/1/2022	10,000,000	-	10,000,000

Cook County, Illinois  
 Other Liability & Law Enforcement Liability  
 Occurrence  
 Indemnity and Expense  
 Incurred Development Triangle  
 Data Limited to Retentions (000s)  
 As of 11/30/2023

Policy Year	Age in Months																										
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276				
Prior																				112,810	134,810	135,735	152,935	232,835			
12/1/2001	1,519	2,478	3,930	6,086	9,957	19,611	19,327	14,124	13,434	11,889	12,491	12,741	15,726	12,626	12,626	12,164	12,154	12,154	12,154	12,154	12,154	12,154	12,154	12,154			
12/1/2002	1,043	2,841	4,744	5,223	11,305	8,930	7,654	6,284	6,184	6,184	6,184	6,184	6,184	6,245	6,245	6,245	6,245	6,245	6,245	6,245	6,245	6,245	6,245	6,245			
12/1/2003	2,287	5,765	18,120	40,102	43,979	64,408	62,263	68,738	65,578	66,003	65,614	66,113	65,618	68,333	68,326	68,326	68,326	68,326	68,326	68,326	68,326	68,326	68,326	68,326			
12/1/2004	2,102	4,813	11,214	8,406	8,236	7,377	8,101	12,858	19,843	20,433	15,733	15,733	17,270	14,866	12,490	12,465	12,465	12,465	12,465	12,465	12,465	12,465	12,465	12,465			
12/1/2005	3,747	7,296	5,992	4,427	3,683	3,521	7,393	5,843	6,329	6,228	6,338	6,812	7,673	8,122	8,162	9,162	9,162	9,162	9,162	9,162	9,162	9,162	9,162	9,162			
12/1/2006	1,767	4,668	4,439	6,087	7,935	9,400	8,815	11,745	9,407	9,447	10,024	9,827	12,997	12,997	12,997	12,997	12,997	12,997	12,997	12,997	12,997	12,997	12,997	12,997			
12/1/2007	1,928	3,878	8,916	10,754	14,495	13,775	12,474	10,619	12,995	13,627	13,615	14,585	14,585	14,585	14,585	14,585	14,585	14,585	14,585	14,585	14,585	14,585	14,585	14,585			
12/1/2008	1,931	2,115	3,581	4,335	4,391	5,435	5,397	6,006	7,303	6,753	11,994	11,994	11,994	9,449	9,449	9,449	9,449	9,449	9,449	9,449	9,449	9,449	9,449	9,449			
12/1/2009	972	3,567	6,505	4,332	8,101	19,458	7,589	7,903	7,538	8,440	8,415	8,415	8,415	8,415	8,415	8,415	8,415	8,415	8,415	8,415	8,415	8,415	8,415	8,415			
12/1/2010	471	2,406	4,757	5,093	19,422	14,285	20,727	30,106	33,851	36,656	36,681	39,281	39,331														
12/1/2011	4,276	6,052	15,539	7,564	6,747	8,478	9,065	8,088	8,932	13,098	11,098	7,044															
12/1/2012	1,364	3,956	17,420	11,910	13,338	12,892	13,068	17,758	17,896	21,626	16,170																
12/1/2013	4,235	13,094	13,326	12,117	20,649	36,286	33,432	33,664	40,158	38,658																	
12/1/2014	753	3,635	24,266	23,922	27,016	23,415	23,533	23,433	22,683																		
12/1/2015	1,148	4,038	19,075	25,224	25,525	27,095	25,115	25,052																			
12/1/2016	9,908	16,275	26,500	25,601	18,978	19,552	18,613																				
12/1/2017	7,359	17,154	17,656	17,633	20,133	20,499																					
12/1/2018	4,253	9,103	22,643	9,764	12,307																						
12/1/2019	3,412	19,435	26,592	24,593																							
12/1/2020	2,914	11,546	24,689																								
12/1/2021	2,697	61,160																									
12/1/2022	22,059																										

Policy Year	Age-to-Age																										
	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	240-252	252-264	264-276	276-Ult				
Prior																				1.195	1.007	1.127	1.522				
12/1/2001	1.631	1.586	1.549	1.636	1.970	0.985	0.731	0.951	0.885	1.051	1.020	1.234	0.803	1.000	0.963	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2002	2.725	1.670	1.101	2.165	0.790	0.857	0.817	1.005	0.984	1.000	1.000	1.000	1.000	1.010	1.000	1.000	1.641	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2003	2.520	3.143	2.213	1.097	1.465	0.967	1.104	0.954	1.006	0.994	1.008	0.993	1.041	1.000	1.000	1.000	1.042	1.000	1.000	1.000	1.000	1.000	1.000				
12/1/2004	2.289	2.330	0.750	0.980	0.896	1.098	1.587	1.543	1.030	0.770	1.000	1.098	0.861	0.840	0.998	1.000	1.000	0.997	1.000	1.000	1.000	1.000	1.000				
12/1/2005	1.947	0.821	0.739	0.832	0.956	2.100	0.790	1.083	0.984	1.018	1.075	1.126	1.059	1.007	1.122	1.000	0.891										
12/1/2006	2.642	0.951	1.371	1.304	1.185	0.938	1.332	0.801	1.004	1.061	0.980	1.322	1.000	1.000	1.000	1.000											
12/1/2007	2.012	2.299	1.206	1.348	0.950	0.906	0.851	1.224	1.049	0.999	1.071	1.000	1.000	1.000	1.027												
12/1/2008	1.096	1.693	1.211	1.013	1.238	0.993	1.113	1.216	0.925	1.776	0.967	0.815	1.000	1.000													
12/1/2009	3.671	1.624	0.666	1.870	2.402	0.390	1.041	0.954	1.120	0.967	1.000	1.000	1.000	1.000													
12/1/2010	5.103	1.977	1.071	3.813	0.736	1.451	1.453	1.124	1.083	1.001	1.071	1.001															
12/1/2011	1.415	2.868	0.487	0.892	1.257	1.069	0.892	1.104	1.466	0.847	0.635																
12/1/2012	2.901	4.404	0.684	1.120	0.967	1.014	1.359	1.008	1.208	0.748																	
12/1/2013	3.092	1.018	0.909	1.704	1.757	0.921	1.007	1.193	0.963																		
12/1/2014	4.830	6.676	0.986	1.129	0.867	1.005	0.996	0.968																			
12/1/2015	3.517	4.724	1.322	1.012	1.061	0.927	0.997																				
12/1/2016	1.643	1.628	0.966	0.741	1.030	0.952																					
12/1/2017	2.331	1.029	0.999	1.142	1.018																						
12/1/2018	2.140	2.487	0.431	1.280																							
12/1/2019	5.696	1.368	0.925																								
12/1/2020	3.962	2.138																									
12/1/2021	22.681																										
12/1/2022																											

	Averages																										
	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	240-252	252-264	264-276	276-Ult				
All Year Average	3.802	2.317	1.031	1.392	1.208	1.036	1.071	1.081	1.054	1.022	0.984	1.059	0.974	0.982	1.016	1.000	1.115	0.999	1.049	1.002	1.063	1.522					
3 Yr Average	10.780	1.998	0.785	1.048	1.037	0.961	1.023	1.063	1.213	0.865	0.902	0.939	1.000	1.000	1.050	1.000	0.978	0.999	1.000	1.002	NA	NA	NA				
5 Yr Average	7.362	1.730	0.929	1.057	1.147	0.964	1.064	1.083	1.168	1.074	0.949	1.028	1.012	0.970	1.030	1.000	1.115	NA	NA	NA	NA	NA	NA				
3 Yr Wtd Average	10.212	1.844	0.777	0.970	1.039	0.960	1.020	1.063	1.095	0.896	0.974	0.965	1.000	1.000	1.039	1.000	1.021	1.000	1.000	1.006	NA	NA	NA				
5 Yr Wtd Average	5.738	1.606	0.914	1.018	1.130	0.954	1.052	1.095	1.093	0.974	0.989	1.013	1.008	0.961	1.012	1.000	1.054	2.054	NA	NA	NA	NA	NA				
Avg X HI-Lo (5yr X 2)	3.696	2.138	0.925	1.142	1.030	0.952	1.007	1.008	1.208	0.847	1.000	1.000	1.000	1.000	1.027	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
Avg X HI-Lo (3yr X 2)	3.996	1.712	0.963	1.094	1.037	0.961	1.023	1.079	1.137	0.948	1.013	1.000	1.000	1.000	1.009	1.000	1.014	NA	NA	NA	NA	NA	NA				
Prior	2.585	2.200	1.160	1.146	1.075	1.029	1.052	1.051	1.027	1.007	1.007	1.007	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.001	1.001	1.001				
Initial Selected	2.610	2.185	1.150	1.146	1.075	1.025	1.052	1.051	1.027	1.007	1.007	1.007	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.001	1.001	1.001				

	Tail Factor Calculation																										
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132																	





Cook County, Illinois  
 Other Liability & Law Enforcement Liability  
 Occurrence  
 Indemnity and Expense  
 Reported Claim Count Triangle  
 Data Limited to Retentions (000s)  
 As of 11/30/2023

Age in Months																							
Policy Year	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276
Prior																			1,696	1,698	1,699	1,701	1,703
12/1/2001															163	163	163	163	163	163	163	163	163
12/1/2002														178	184	184	184	184	185	185	185	185	185
12/1/2003															179	179	179	179	179	179	179	179	179
12/1/2004													159	161	163	164	165	165	165	165	165	165	165
12/1/2005											229	229	230	231	232	234	234	234	234	234	234	234	234
12/1/2006											323	323	323	323	323	323	323	323	323	323	323	323	323
12/1/2007										268	269	269	270	270	270	270	270	270	270	270	270	270	270
12/1/2008									323	326	327	329	329	329	329	330	330	330	330	330	330	330	330
12/1/2009									323	325	325	325	326	326	326	326	326	326	326	326	326	326	326
12/1/2010						285			289	292	294	294	294	294	294	294	294	294	294	294	294	294	294
12/1/2011						413			420	421	422	423	424	424	425								
12/1/2012					484	500	507	511	514	514	514	514	514	514									
12/1/2013				623	659	672	679	679	679	679	680												
12/1/2014			304	415	436	448	454	457	460	460													
12/1/2015		107	280	384	405	412	412	416	419														
12/1/2016		114	266	345	367	371	375	378															
12/1/2017		94	237	283	301	305	311																
12/1/2018		89	171	206	216	223																	
12/1/2019		82	154	197	206																		
12/1/2020		28	88	128																			
12/1/2021		30	104																				
12/1/2022		63																					

Age-to-Age																							
Policy Year	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	240-252	252-264	264-276	276-Ult
Prior																				1,001	1,001	1,001	1,001
12/1/2001															1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2002														1,006	1,000	1,000	1,000	1,005	1,000	1,000	1,000	1,000	
12/1/2003															1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2004												1,013	1,012	1,006	1,006	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2005											1,004	1,004	1,004	1,009	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2006										1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2007									1,004	1,000	1,004	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2008									1,009	1,003	1,006	1,000	1,000	1,003	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2009									1,006	1,000	1,000	1,003	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2010									1,010	1,010	1,007	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2011						1,017			1,014	1,002	1,002	1,002	1,002	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2012					1,033	1,014	1,008	1,006	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
12/1/2013				1,058	1,020	1,010	1,000	1,000	1,000	1,000	1,001												
12/1/2014			1,365	1,051	1,028	1,013	1,007	1,007	1,000														
12/1/2015		2,617	1,371	1,055	1,017	1,000	1,010	1,007	1,000														
12/1/2016		2,333	1,297	1,064	1,011	1,011	1,008																
12/1/2017		2,521	1,194	1,064	1,013	1,020																	
12/1/2018		1,921	1,205	1,049	1,032																		
12/1/2019		1,878	1,279	1,046																			
12/1/2020		3,143	1,455																				
12/1/2021		3,467																					
12/1/2022																							

Averages																							
	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	240-252	252-264	264-276	276-Ult
All Year Average	2,554	1,309	1,055	1,022	1,012	1,007	1,006	1,003	1,002	1,001	1,001	1,003	1,004	1,002	1,001	1,000	1,001	1,000	1,001	1,000	1,001	1,001	1,001
3 Yr Average	2,829	1,313	1,053	1,019	1,010	1,008	1,005	1,000	1,001	1,000	1,001	1,001	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
5 Yr Average	2,586	1,286	1,055	1,020	1,011	1,006	1,004	1,002	1,001	1,002	1,001	1,001	1,001	1,003	1,001	1,000	1,001	1,000	1,001	1,000	1,000	1,000	
3 Yr Wtd Average	2,471	1,286	1,054	1,017	1,009	1,008	1,004	1,000	1,001	1,000	1,001	1,001	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
5 Yr Wtd Average	2,334	1,265	1,057	1,020	1,010	1,006	1,004	1,001	1,001	1,002	1,001	1,001	1,001	1,002	1,001	1,000	1,001	1,000	1,001	1,000	1,000	1,000	
Avg X Hi-Lo (3yr X 2)	3,143	1,279	1,049	1,013	1,011	1,008	1,007	1,000	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Avg X Hi-Lo (5yr X 2)	2,528	1,260	1,056	1,019	1,012	1,007	1,005	1,001	1,000	1,001	1,001	1,000	1,001	1,002	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Prior	2,365	1,305	1,059	1,020	1,013	1,010	1,002	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Initial Selected	2,377	1,305	1,059	1,020	1,013	1,010	1,004	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	

Tail Factor Calculation																							
	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	240-252	252-264	264-276	276-Ult
Inverse Power Curve Fit																							1,000
Exponential Curve Fit																							1,000
Weibull Curve Fit																							1,000
Manual Entry																							1,000
<b>Selected Tail Method:</b>	Manual Entry																						
Final Link Ratio	2,377	1,305	1,059	1,020	1,013	1,010	1,004	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Final CDF	3,439	1,447	1,109	1,048	1,027	1,014	1,004	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000

Industry Factor Source: AM Best's GL Occ