

Cook County, Illinois

Actuarial Analysis – Workers Compensation and
Liability

Evaluated as of November 30, 2022

Issue Date – May 24, 2023





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Introduction

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, 2022.

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, 2022.
 - 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 12/1/22-23, 12/1/23-24, and 12/1/24-25 for all coverages.
- Provide a point estimate for losses paid (including ALAE for workers compensation) during the 12/1/22-23, 12/1/23-24, and 12/1/24-25 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.

Stephen Williams, Elissa Sirovatka, and Thomas Duffy 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,

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Conditions and Limitations

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. We express no opinion and have not independently evaluated the appropriateness of the interest rate.

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 11/30/22 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. It is based on a 4.13% interest rate, as provided by the County.

Coverage (1)	Full Value			Present Value		
	Expected (2)	70% Level (3)	90% Level (4)	Expected (5)	70% Level (6)	90% Level (7)
I. Healthcare Facilities						
(Ai) Indemnity	\$23,140,754	\$25,253,764	\$29,749,670	\$ 19,974,060	\$21,797,916	\$25,678,579
(Aii) Medical	<u>9,495,712</u>	<u>10,544,397</u>	<u>13,024,307</u>	<u>8,139,524</u>	<u>9,038,435</u>	<u>11,164,161</u>
(A) Workers Compensation	\$32,636,466	\$35,798,161	\$42,773,976	\$28,113,584	\$30,836,351	\$36,842,741
(Bi) Cermak	3,030,000	3,261,756	5,757,912	2,611,713	2,811,475	4,963,041
(Bii) John H. Stroger	115,983,001	133,155,614	191,549,554	102,120,606	117,240,732	168,655,375
(Biii) Oak Forest	27,000	28,572	51,098	24,356	25,774	46,094
(Biv) Provident	3,390,000	3,646,169	6,604,866	2,906,319	3,125,938	5,662,492
(Bv) Unspecified	<u>131,285</u>	<u>140,873</u>	<u>257,157</u>	<u>116,617</u>	<u>125,134</u>	<u>228,426</u>
(B) Medical Malpractice	\$122,561,286	\$140,232,984	\$204,220,587	\$107,779,611	\$123,329,054	\$179,555,428
(C) Claim Expense	2,757,639	3,143,708	3,998,576	2,425,050	2,764,557	3,516,322
(D) Subtotal	\$157,955,390	\$179,174,853	\$250,993,139	\$138,318,245	\$156,929,961	\$219,914,491
II. General Government						
(Ei) Indemnity	\$184,284,822	\$205,136,004	\$253,181,077	\$ 155,579,420	\$173,182,686	\$213,743,946
(Eii) Medical	<u>60,630,414</u>	<u>67,656,126</u>	<u>84,149,720</u>	<u>52,156,562</u>	<u>58,200,344</u>	<u>72,388,754</u>
(E) Workers Compensation	\$244,915,237	\$272,792,131	\$337,330,798	\$207,735,982	\$231,383,030	\$286,132,700
(F) General liability	6,794,184	7,473,434	12,228,201	6,390,440	7,029,326	11,501,541
(G) Automobile liability	4,206,144	4,575,015	7,710,151	3,962,358	4,309,849	7,263,275
(H) Law enforcement liability	219,072,975	250,911,254	334,928,570	186,418,653	213,511,220	285,005,181
(I) Other liability	90,120,150	102,476,345	132,995,373	79,064,368	89,904,727	116,679,733
(J) Claim Expense	97,613,311	111,279,174	141,539,301	84,090,562	95,863,241	121,931,315
(K) Subtotal	\$662,722,001	\$749,507,354	\$966,732,394	\$567,662,363	\$642,001,393	\$828,513,745
(L) Total	\$820,677,391	\$928,682,208	\$1,217,725,534	\$705,980,608	\$798,931,354	\$1,048,428,236

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 \$655.8 million as of November 30, 2021, to \$720.3 million as of November 30, 2022. 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).

Claim Period (1)	As of 11/30/21			As of 11/30/22			Change		
	Case Reserves (2)	IBNR (3)	Total (4)	Case Reserves (5)	IBNR (6)	Total (7)	Case Reserves (8)	IBNR (9)	Total (10)
Prior	\$43,883	\$5,883	\$49,767	\$54,063	\$11,964	\$66,027	\$10,179	\$6,081	\$16,260
12/1/2001	3	1	4	27	7	34	24	6	30
12/1/2002	4,433	126	4,558	4,391	127	4,518	(41)	1	(40)
12/1/2003	1,021	135	1,155	2,042	237	2,279	1,022	102	1,124
12/1/2004	1,421	346	1,767	1,067	283	1,350	(354)	(63)	(416)
12/1/2005	2,976	256	3,232	2,934	254	3,188	(42)	(2)	(45)
12/1/2006	3,851	178	4,029	5,666	637	6,303	1,815	459	2,274
12/1/2007	2,011	537	2,548	1,982	602	2,584	(29)	65	36
12/1/2008	1,797	473	2,270	1,507	532	2,039	(290)	59	(231)
12/1/2009	1,852	538	2,390	2,321	559	2,881	469	21	491
12/1/2010	5,520	876	6,396	3,564	1,151	4,715	(1,956)	275	(1,681)
12/1/2011	14,864	3,622	18,486	9,477	3,501	12,977	(5,387)	(121)	(5,508)
12/1/2012	9,677	2,805	12,481	10,169	2,165	12,334	492	(639)	(147)
12/1/2013	28,289	4,548	32,838	29,814	4,612	34,426	1,524	64	1,588
12/1/2014	22,665	7,994	30,659	21,730	6,714	28,444	(935)	(1,280)	(2,215)
12/1/2015	33,092	10,023	43,116	28,533	9,096	37,629	(4,559)	(928)	(5,487)
12/1/2016	23,993	15,559	39,552	24,355	11,995	36,350	362	(3,564)	(3,202)
12/1/2017	70,130	21,028	91,158	25,595	15,841	41,436	(44,535)	(5,187)	(49,721)
12/1/2018	43,555	36,778	80,332	26,553	27,530	54,083	(17,002)	(9,248)	(26,249)
12/1/2019	57,722	60,323	118,046	71,796	43,581	115,377	14,074	(16,742)	(2,668)
12/1/2020	32,277	78,758	111,035	46,052	63,210	109,262	13,775	(15,548)	(1,773)
12/1/2021				47,532	94,536	142,068	47,532	94,536	142,068
Total	\$405,032	\$250,787	\$655,819	\$421,172	\$299,135	\$720,306	\$16,140	\$48,347	\$64,487

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



12/1/22-23 Projection

The below table displays the projected ultimate limited losses for 12/1/22-23. The projected ultimate limited losses are the accrual value of losses with accident dates during 12/1/22-23 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. It is based on a 4.13% interest rate, as provided by the County.

Coverage (1)	Full Value			Present Value		
	Expected (2)	70% Level (3)	90% Level (4)	Expected (5)	70% Level (6)	90% Level (7)
I. Healthcare Facilities						
(Ai) Indemnity	\$3,800,000	\$4,300,000	\$5,457,000	\$3,239,000	\$3,665,000	\$4,652,000
(Aii) Medical	<u>1,828,000</u>	<u>2,097,000</u>	<u>2,786,000</u>	<u>1,652,000</u>	<u>1,895,000</u>	<u>2,518,000</u>
(A) Workers Compensation	\$5,628,000	\$6,397,000	\$8,243,000	\$4,891,000	\$5,560,000	\$7,170,000
(Bi) Cermak	1,290,000	1,387,000	2,657,000	1,010,000	1,086,000	2,080,000
(Bii) John H. Stroger	25,400,000	29,401,000	47,192,000	19,810,000	22,930,000	36,806,000
(Biii) Oak Forest	0	0	0	0	0	0
(Biv) Provident	1,270,000	1,369,000	2,607,000	990,000	1,067,000	2,032,000
(Bv) Unspecified	<u>24,000</u>	<u>26,000</u>	<u>50,000</u>	<u>19,000</u>	<u>20,000</u>	<u>39,000</u>
(B) Medical Malpractice	\$27,984,000	\$32,183,000	\$52,506,000	\$21,829,000	\$25,103,000	\$40,957,000
(C) Subtotal	\$33,612,000	\$38,580,000	\$60,749,000	\$26,720,000	\$30,663,000	\$48,127,000
II. General Government						
(Di) Indemnity	\$53,200,000	\$61,089,000	\$81,555,000	\$44,800,000	\$51,443,000	\$68,678,000
(Dii) Medical	<u>19,500,000</u>	<u>22,421,000</u>	<u>30,126,000</u>	<u>17,500,000</u>	<u>20,122,000</u>	<u>27,036,000</u>
(D) Workers Compensation	\$72,700,000	\$83,510,000	\$111,681,000	\$62,300,000	\$71,565,000	\$95,714,000
(E) General liability	855,000	946,000	1,609,000	754,000	834,000	1,419,000
(F) Automobile liability	2,030,000	2,215,000	3,921,000	1,841,000	2,009,000	3,556,000
(G) Law enforcement liability	20,300,000	23,677,000	33,837,000	16,000,000	18,662,000	26,670,000
(H) Other liability	16,400,000	19,018,000	26,230,000	13,100,000	15,191,000	20,952,000
(I) Subtotal	\$112,285,000	\$129,366,000	\$177,278,000	\$93,995,000	\$108,261,000	\$148,311,000
(J) Total	\$145,897,000	\$167,946,000	\$238,027,000	\$120,715,000	\$138,924,000	\$196,438,000

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 12/1/22-23 through 12/1/24-25 to be as shown below. The projected losses paid are the claim disbursements during 12/1/22-23, 12/1/23-24, and 12/1/24-25, regardless of accident or report date.

Coverage (1)	FY2023 (2)	FY2024 (3)	FY2025 (4)
I. Healthcare Facilities			
(Ai) Indemnity	\$5,130,993	\$4,698,982	\$4,423,971
(Aii) Medical	<u>3,416,327</u>	<u>2,830,583</u>	<u>2,497,466</u>
(A) Workers Compensation	\$8,547,320	\$7,529,564	\$6,921,437
(Bi) Cermak	249,711	374,754	482,550
(Bii) John H. Stroger	21,442,387	19,449,603	19,945,946
(Biii) Oak Forest	4,524	5,851	4,437
(Biv) Provident	272,983	457,546	533,878
(Bv) Unspecified	<u>27,289</u>	<u>21,484</u>	<u>20,538</u>
(B) Medical Malpractice	\$21,996,894	\$20,309,238	\$20,987,350
(C) Subtotal	\$30,544,214	\$27,838,802	\$27,908,787
II. General Government			
(Di) Indemnity	\$47,087,226	\$47,869,948	\$50,222,086
(Dii) Medical	<u>18,394,040</u>	<u>17,195,429</u>	<u>16,719,657</u>
(D) Workers Compensation	\$65,481,266	\$65,065,377	\$66,941,743
(E) General liability	2,562,930	2,538,205	1,712,931
(F) Automobile liability	2,099,983	2,104,912	2,101,519
(G) Law enforcement liability	28,893,521	25,366,089	22,113,814
(H) Other liability	7,974,822	7,504,530	7,388,092
(I) Subtotal	\$107,012,521	\$102,579,115	\$100,258,098
(J) Total	\$137,556,735	\$130,417,917	\$128,166,885

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

Observations/Findings

Estimated outstanding losses as of November 30, 2022, and November 30, 2023 are shown in Summary Exhibit 1.

A comparison of estimated outstanding losses as of November 30, 2021 and November 30, 2022 is shown in Summary Exhibit 2. Detail by year and coverage is provided in Summary Exhibits 10 through 24.

Estimated outstanding losses increased \$70.6 million from our prior analysis. This is driven by increases in WC General Government (\$65.6 million), LEL (\$16.4 million), and OL (\$1.1 million).

Case reserves are up \$16.1 million from our prior analysis. Total WC case reserves increased by \$45.0 million compared to the prior study. This increase was driven by new claims occurring from 12/1/21 to 11/30/22. At the expected level, WC IBNR is up \$26.3 million.



Claim expenses are estimated 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 2022 payments, ii) case reserves, and iii) cumulative reported incurred amounts as of November 30, 2022.

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 other liability and law enforcement liability segments have been newly reported or significantly revalued over the last few years. These claims are in an early stage of valuation at this point. As a result, there is additional uncertainty around this set of claims' ultimate values.

We believe we have made prudent selections based on the reviewed data as of 11/30/22. 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

Cumulative loss data valued as of November 30, 2022 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.

Per email correspondence from Jacqueline Hrabak on 4/12/23, we were informed that the correct case reserves for LEL claim #199604694 was \$3 million, not \$100 thousand as recorded in the original loss run.

Per email correspondence from Jacqueline Hrabak on 4/17/23, we were informed that the correct case reserves for OL claims #201404102 and #201404988 were \$4 million each, not \$8 million each as recorded in the original loss run.

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 12/1/22-23 and medical malpractice exposures for years through 12/1/21-22. 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.

There were 854 claims in the liability loss data (total incurred of -\$2.1 million out of \$1.4 billion total incurred for the medical malpractice and liability programs) with coverage of "Recovery Claims". These claims were first included in the loss run provided for a prior study (valued as of November 30, 2019). These claims could not be assigned to any of the analyzed coverages; therefore, they were excluded from the current analysis. This did not have a material impact on the results of this study.

In conducting this analysis, we relied upon the provided data without audit or independent verification; however, we reviewed it for reasonableness and consistency. Any inaccuracies in quantitative data or qualitative representations could have a significant effect on the results of our review and analysis. Any material discrepancies discovered in the loss or exposure data by the County or any other parties should be reported to us immediately, and if warranted, we will make appropriate amendments to the report.

Actuarial Analysis

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

Summary Exhibit 1

This exhibit displays the summary of estimated total outstanding losses, both discounted and undiscounted, at the 70% and 90% confidence levels as of 11/30/22, 11/30/23, and 11/30/24.

Summary Exhibit 2

This exhibit displays the comparison of estimated total outstanding losses as of 11/30/22 to the prior estimate as of 11/30/21.

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 12/1/22-23, 12/1/23-24, and 12/1/24-25 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 2023, 2024, and 2025 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 2023, 2024, and 2025 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 11/30/22 to the prior estimates as of 11/30/21 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 11/30/22 to the prior estimates as of 11/30/21 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 11/30/22 to the prior estimates as of 11/30/21 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 2023 fiscal year.

FY2024 Payments

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

FY2025 Payments

This exhibit displays the summary of projected loss payments for the 2025 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



COOK COUNTY, ILLINOIS
SUMMARY EXHIBITS

Summary Exhibit 1 (page 1)

Estimated Outstanding Losses

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

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$23,140,754	\$25,253,764	\$29,749,670	\$19,974,060	\$21,797,916	\$25,678,579
(Aii) WC - Medical	<u>9,495,712</u>	<u>10,544,397</u>	<u>13,024,307</u>	<u>8,139,524</u>	<u>9,038,435</u>	<u>11,164,161</u>
(A) Workers compensation	\$32,636,466	\$35,798,161	\$42,773,976	\$28,113,584	\$30,836,351	\$36,842,741
(Bi) Cermak	3,030,000	3,261,756	5,757,912	2,611,713	2,811,475	4,963,041
(Bii) John H. Stroger	115,983,001	133,155,614	191,549,554	102,120,606	117,240,732	168,655,375
(Biii) Oak Forest	27,000	28,572	51,098	24,356	25,774	46,094
(Biv) Provident	3,390,000	3,646,169	6,604,866	2,906,319	3,125,938	5,662,492
(Bv) Unspecified	<u>131,285</u>	<u>140,873</u>	<u>257,157</u>	<u>116,617</u>	<u>125,134</u>	<u>228,426</u>
(B) Medical malpractice	\$122,561,286	\$140,232,984	\$204,220,587	\$107,779,611	\$123,329,054	\$179,555,428
(C) Claim Expense Reserves	2,757,639	3,143,708	3,998,576	2,425,050	2,764,557	3,516,322
(D) Subtotal	\$157,955,390	\$179,174,853	\$250,993,139	\$138,318,245	\$156,929,961	\$219,914,491
II. General Government						
(Ei) WC - Indemnity	184,284,822	205,136,004	253,181,077	155,579,420	173,182,686	213,743,946
(Eii) WC - Medical	<u>60,630,414</u>	<u>67,656,126</u>	<u>84,149,720</u>	<u>52,156,562</u>	<u>58,200,344</u>	<u>72,388,754</u>
(E) Workers compensation	\$244,915,237	\$272,792,131	\$337,330,798	\$207,735,982	\$231,383,030	\$286,132,700
(F) General liability	6,794,184	7,473,434	12,228,201	6,390,440	7,029,326	11,501,541
(G) Automobile liability	4,206,144	4,575,015	7,710,151	3,962,358	4,309,849	7,263,275
(H) Law enforcement liability	219,072,975	250,911,254	334,928,570	186,418,653	213,511,220	285,005,181
(I) Other liability	90,120,150	102,476,345	132,995,373	79,064,368	89,904,727	116,679,733
(J) Claim Expense Reserves	97,613,311	111,279,174	141,539,301	84,090,562	95,863,241	121,931,315
(K) Subtotal	\$662,722,001	\$749,507,354	\$966,732,394	\$567,662,363	\$642,001,393	\$828,513,745
Total	\$820,677,391	\$928,682,208	\$1,217,725,534	\$705,980,608	\$798,931,354	\$1,048,428,236

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

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$21,809,761	\$23,801,237	\$28,038,550	\$18,820,654	\$20,539,191	\$24,195,765
(Aii) WC - Medical	<u>7,907,384</u>	<u>8,780,658</u>	<u>10,845,759</u>	<u>6,709,630</u>	<u>7,450,627</u>	<u>9,202,921</u>
(A) Workers compensation	\$29,717,145	\$32,581,895	\$38,884,308	\$25,530,285	\$27,989,818	\$33,398,686
(Bi) Cermak	4,070,289	4,381,614	7,734,775	3,501,273	3,769,075	6,653,472
(Bii) John H. Stroger	119,940,614	137,699,197	198,085,675	105,067,803	120,624,295	173,522,762
(Biii) Oak Forest	22,476	23,785	42,537	20,563	21,760	38,915
(Biv) Provident	4,387,017	4,718,526	8,547,392	3,776,268	4,061,626	7,357,447
(Bv) Unspecified	<u>127,996</u>	<u>137,344</u>	<u>250,715</u>	<u>112,873</u>	<u>121,116</u>	<u>221,092</u>
(B) Medical malpractice	\$128,548,392	\$146,960,466	\$214,661,094	\$112,478,779	\$128,597,872	\$187,793,689
(C) Claim Expense Reserves	2,892,349	3,297,278	4,193,906	2,543,513	2,899,605	3,688,094
(D) Subtotal	\$161,157,887	\$182,839,639	\$257,739,308	\$140,552,577	\$159,487,295	\$224,880,469
II. General Government						
(Ei) WC - Indemnity	190,397,596	211,940,417	261,579,158	160,595,592	178,766,420	220,635,451
(Eii) WC - Medical	<u>61,736,374</u>	<u>68,890,243</u>	<u>85,684,697</u>	<u>52,714,599</u>	<u>58,823,045</u>	<u>73,163,260</u>
(E) Workers compensation	\$252,133,971	\$280,830,660	\$347,263,854	\$213,310,191	\$237,589,465	\$293,798,711
(F) General liability	5,086,254	5,594,754	9,154,262	4,824,028	5,306,312	8,682,307
(G) Automobile liability	4,136,162	4,498,895	7,581,869	3,895,956	4,237,624	7,141,555
(H) Law enforcement liability	210,479,454	241,068,822	321,790,411	178,872,330	204,868,176	273,468,025
(I) Other liability	98,545,328	112,056,688	145,428,881	86,280,307	98,110,028	127,328,700
(J) Claim Expense Reserves	97,019,981	110,602,772	140,678,972	83,579,428	95,280,548	121,190,171
(K) Subtotal	\$667,401,149	\$754,652,591	\$971,898,249	\$570,762,240	\$645,392,154	\$831,609,469
Total	\$828,559,036	\$937,492,229	\$1,229,637,557	\$711,314,817	\$804,879,449	\$1,056,489,938

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

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$20,125,006	\$21,962,645	\$25,872,635	\$17,358,566	\$18,943,598	\$22,316,110
(Aii) WC - Medical	<u>7,015,802</u>	<u>7,790,611</u>	<u>9,622,865</u>	<u>5,922,849</u>	<u>6,576,955</u>	<u>8,123,772</u>
(A) Workers compensation	\$27,140,808	\$29,753,256	\$35,495,501	\$23,281,415	\$25,520,553	\$30,439,882
(Bi) Cermak	5,045,535	5,431,453	9,588,035	4,352,261	4,685,153	8,270,607
(Bii) John H. Stroger	126,891,011	145,678,680	209,564,474	110,981,846	127,413,981	183,289,990
(Biii) Oak Forest	16,625	17,593	31,463	15,357	16,252	29,064
(Biv) Provident	5,249,471	5,646,153	10,227,745	4,534,905	4,877,590	8,835,529
(Bv) Unspecified	<u>131,512</u>	<u>141,117</u>	<u>257,602</u>	<u>115,716</u>	<u>124,167</u>	<u>226,661</u>
(B) Medical malpractice	\$137,334,155	\$156,914,996	\$229,669,319	\$120,000,086	\$137,117,143	\$200,651,851
(C) Claim Expense Reserves	3,090,029	3,522,633	4,480,542	2,717,352	3,097,781	3,940,160
(D) Subtotal	\$167,564,992	\$190,190,886	\$269,645,362	\$145,998,853	\$165,735,477	\$235,031,894
II. General Government						
(Ei) WC - Indemnity	198,127,648	220,545,097	272,199,147	167,124,282	186,033,808	229,604,940
(Eii) WC - Medical	<u>58,497,960</u>	<u>65,276,569</u>	<u>81,190,061</u>	<u>49,780,948</u>	<u>55,549,449</u>	<u>69,091,609</u>
(E) Workers compensation	\$256,625,608	\$285,821,666	\$353,389,207	\$216,905,229	\$241,583,257	\$298,696,549
(F) General liability	3,431,049	3,774,069	6,175,216	3,243,861	3,568,167	5,838,314
(G) Automobile liability	4,121,249	4,482,675	7,554,533	3,878,320	4,218,441	7,109,226
(H) Law enforcement liability	191,206,064	218,994,394	292,324,389	162,016,581	185,562,750	247,698,201
(I) Other liability	95,621,584	108,732,070	141,114,148	83,575,600	95,034,485	123,337,212
(J) Claim Expense Reserves	89,743,875	102,308,017	130,128,619	77,311,310	88,134,893	112,101,399
(K) Subtotal	\$640,749,429	\$724,112,891	\$930,686,112	\$546,930,901	\$618,101,992	\$794,780,902
Total	\$808,314,421	\$914,303,777	\$1,200,331,475	\$692,929,754	\$783,837,469	\$1,029,812,796

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 Executive Summary.

Section I, Biv is from MM Provident Executive Summary.

Section I, Bv is from MM Unspecified 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, 2021			As of November 30, 2022			Change		
	Case Reserves	IBNR	Total	Case Reserves	IBNR	Total	Case Reserves	IBNR	Total
I. Health Care Facilities									
(Ai) WC - Indemnity	\$14,053,895	\$5,731,819	\$19,785,714	\$15,645,020	\$7,495,734	\$23,140,754	\$1,591,125	\$1,763,915	\$3,355,040
(Aii) WC - Medical	<u>6,007,790</u>	<u>1,166,511</u>	<u>7,174,301</u>	<u>8,022,962</u>	<u>1,472,750</u>	<u>9,495,712</u>	<u>2,015,172</u>	<u>306,239</u>	<u>2,321,411</u>
(A) Workers compensation	\$20,061,686	\$6,898,329	\$26,960,015	\$23,667,982	\$8,968,483	\$32,636,466	\$3,606,297	\$2,070,154	\$5,676,451
(Bi) Cermak	1,050,000	3,939,000	4,989,000	50,000	2,980,000	3,030,000	(1,000,000)	(959,000)	(1,959,000)
(Bii) John H. Stroger	77,435,000	50,267,001	127,702,001	61,030,000	54,953,001	115,983,001	(16,405,000)	4,686,000	(11,719,000)
(Biii) Oak Forest	0	46,000	46,000	0	27,000	27,000	0	(19,000)	(19,000)
(Biv) Provident	4,050,000	3,310,000	7,360,000	150,000	3,240,000	3,390,000	(3,900,000)	(70,000)	(3,970,000)
(Bv) Unspecified	<u>50,000</u>	<u>85,285</u>	<u>135,285</u>	<u>50,000</u>	<u>81,285</u>	<u>131,285</u>	<u>0</u>	<u>(4,000)</u>	<u>(4,000)</u>
(B) Medical malpractice	\$82,585,000	\$57,647,286	\$140,232,286	\$61,280,000	\$61,281,286	\$122,561,286	(\$21,305,000)	\$3,634,000	(\$17,671,000)
(C) Claim Expense Reserves		2,968,194	2,968,194		2,757,639	2,757,639		0	(210,555)
(D) Subtotal	\$102,646,686	\$67,513,809	\$170,160,495	\$84,947,982	\$73,007,408	\$157,955,390	(\$17,698,703)	\$5,493,599	(\$12,205,105)
II. General Government									
(Ei) WC - Indemnity	74,028,914	59,849,732	133,878,646	99,257,698	85,027,125	184,284,822	25,228,784	25,177,392	50,406,176
(Eii) WC - Medical	<u>34,439,318</u>	<u>11,026,321</u>	<u>45,465,639</u>	<u>50,594,507</u>	<u>10,035,907</u>	<u>60,630,414</u>	<u>16,155,189</u>	<u>(990,414)</u>	<u>15,164,775</u>
(E) Workers compensation	\$108,468,232	\$70,876,053	\$179,344,285	\$149,852,205	\$95,063,032	\$244,915,237	\$41,383,973	\$24,186,978	\$65,570,951
(F) General liability	1,900,262	792,913	2,693,176	4,955,483	1,838,702	6,794,184	3,055,220	1,045,788	4,101,008
(G) Automobile liability	12,229,112	2,580,975	14,810,087	1,639,412	2,566,732	4,206,144	(10,589,700)	(14,243)	(10,603,943)
(H) Law enforcement liability	132,563,200	70,157,347	202,720,547	135,609,312	83,463,663	219,072,975	3,046,112	13,306,316	16,352,428
(I) Other liability	47,224,216	41,834,373	89,058,588	44,167,301	45,952,849	90,120,150	(3,056,915)	4,118,477	1,061,562
(J) Claim Expense Reserves		91,299,321	91,299,321		97,613,311	97,613,311	0	6,313,990	6,313,990
(K) Subtotal	\$302,385,022	\$277,540,983	\$579,926,005	\$336,223,712	\$326,498,289	\$662,722,001	\$33,838,690	\$48,957,306	\$82,795,996
Total	\$405,031,708	\$345,054,792	\$750,086,500	\$421,171,695	\$399,505,696	\$820,677,391	\$16,139,987	\$54,450,904	\$70,590,891



COOK COUNTY, ILLINOIS
SUMMARY EXHIBITS

Summary Exhibit 3 (page 1)

Projected Ultimate Losses

A. 12/1/2022-23 Projected Ultimate Losses

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$3,800,000	\$4,300,000	\$5,457,000	\$3,239,000	\$3,665,000	\$4,652,000
(Aii) WC - Medical	<u>1,828,000</u>	<u>2,097,000</u>	<u>2,786,000</u>	<u>1,652,000</u>	<u>1,895,000</u>	<u>2,518,000</u>
(A) Workers compensation	<u>\$5,628,000</u>	<u>\$6,397,000</u>	<u>\$8,243,000</u>	<u>\$4,891,000</u>	<u>\$5,560,000</u>	<u>\$7,170,000</u>
(Bi) Cermak	1,290,000	1,387,000	2,657,000	1,010,000	1,086,000	2,080,000
(Bii) John H. Stroger	25,400,000	29,401,000	47,192,000	19,810,000	22,930,000	36,806,000
(Biii) Oak Forest	0	0	0	0	0	0
(Biv) Provident	1,270,000	1,369,000	2,607,000	990,000	1,067,000	2,032,000
(Bv) Unspecified	<u>24,000</u>	<u>26,000</u>	<u>50,000</u>	<u>19,000</u>	<u>20,000</u>	<u>39,000</u>
(B) Medical malpractice	<u>\$27,984,000</u>	<u>\$32,183,000</u>	<u>\$52,506,000</u>	<u>\$21,829,000</u>	<u>\$25,103,000</u>	<u>\$40,957,000</u>
(C) Subtotal	<u>33,612,000</u>	<u>38,580,000</u>	<u>60,749,000</u>	<u>26,720,000</u>	<u>30,663,000</u>	<u>48,127,000</u>
II. General Government						
(Di) WC - Indemnity	53,200,000	61,089,000	81,555,000	44,800,000	51,443,000	68,678,000
(Dii) WC - Medical	<u>19,500,000</u>	<u>22,421,000</u>	<u>30,126,000</u>	<u>17,500,000</u>	<u>20,122,000</u>	<u>27,036,000</u>
(D) Workers compensation	<u>\$72,700,000</u>	<u>\$83,510,000</u>	<u>\$111,681,000</u>	<u>\$62,300,000</u>	<u>\$71,565,000</u>	<u>\$95,714,000</u>
(E) General liability	855,000	946,000	1,609,000	754,000	834,000	1,419,000
(F) Automobile liability	2,030,000	2,215,000	3,921,000	1,841,000	2,009,000	3,556,000
(G) Law enforcement liability	20,300,000	23,677,000	33,837,000	16,000,000	18,662,000	26,670,000
(H) Other liability	16,400,000	19,018,000	26,230,000	13,100,000	15,191,000	20,952,000
(I) Subtotal	<u>112,285,000</u>	<u>129,366,000</u>	<u>177,278,000</u>	<u>93,995,000</u>	<u>108,261,000</u>	<u>148,311,000</u>
Total	\$145,897,000	\$167,946,000	\$238,027,000	\$120,715,000	\$138,924,000	\$196,438,000

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

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$3,900,000	\$4,413,000	\$4,994,000	\$3,380,000	\$3,825,000	\$4,329,000
(Aii) WC - Medical	<u>1,939,000</u>	<u>2,224,000</u>	<u>2,551,000</u>	<u>1,752,000</u>	<u>2,010,000</u>	<u>2,306,000</u>
(A) Workers compensation	<u>\$5,839,000</u>	<u>\$6,637,000</u>	<u>\$7,545,000</u>	<u>\$5,132,000</u>	<u>\$5,835,000</u>	<u>\$6,635,000</u>
(Bi) Cermak	1,350,000	1,451,000	1,560,000	1,050,000	1,129,000	1,213,000
(Bii) John H. Stroger	26,400,000	30,558,000	35,371,000	20,600,000	23,845,000	27,601,000
(Biii) Oak Forest	0	0	0	0	0	0
(Biv) Provident	1,320,000	1,423,000	1,534,000	1,030,000	1,110,000	1,197,000
(Bv) Unspecified	<u>25,000</u>	<u>27,000</u>	<u>29,000</u>	<u>20,000</u>	<u>21,000</u>	<u>23,000</u>
(B) Medical malpractice	<u>\$29,095,000</u>	<u>\$33,459,000</u>	<u>\$38,494,000</u>	<u>\$22,700,000</u>	<u>\$26,105,000</u>	<u>\$30,034,000</u>
(C) Subtotal	<u>34,934,000</u>	<u>40,096,000</u>	<u>46,039,000</u>	<u>27,832,000</u>	<u>31,940,000</u>	<u>36,669,000</u>
II. General Government						
(Di) WC - Indemnity	55,600,000	63,845,000	73,313,000	46,800,000	53,740,000	61,709,000
(Dii) WC - Medical	<u>20,900,000</u>	<u>24,031,000</u>	<u>27,631,000</u>	<u>18,800,000</u>	<u>21,616,000</u>	<u>24,854,000</u>
(D) Workers compensation	<u>\$76,500,000</u>	<u>\$87,876,000</u>	<u>\$100,944,000</u>	<u>\$65,600,000</u>	<u>\$75,356,000</u>	<u>\$86,563,000</u>
(E) General liability	883,000	977,000	1,081,000	778,000	861,000	953,000
(F) Automobile liability	2,090,000	2,281,000	2,489,000	1,894,000	2,067,000	2,256,000
(G) Law enforcement liability	20,800,000	24,260,000	28,296,000	16,400,000	19,128,000	22,310,000
(H) Other liability	16,700,000	19,366,000	22,458,000	13,400,000	15,539,000	18,020,000
(I) Subtotal	<u>116,973,000</u>	<u>134,760,000</u>	<u>155,268,000</u>	<u>98,072,000</u>	<u>112,951,000</u>	<u>130,102,000</u>
Total	\$151,907,000	\$174,856,000	\$201,307,000	\$125,904,000	\$144,891,000	\$166,771,000

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

	Full Value			Present Value		
	Expected	70%	90%	Expected	70%	90%
I. Health Care Facilities						
(Ai) WC - Indemnity	\$4,100,000	\$4,640,000	\$5,251,000	\$3,544,000	\$4,011,000	\$4,539,000
(Aii) WC - Medical	<u>2,065,000</u>	<u>2,369,000</u>	<u>2,718,000</u>	<u>1,866,000</u>	<u>2,141,000</u>	<u>2,456,000</u>
(A) Workers compensation	<u>\$6,165,000</u>	<u>\$7,009,000</u>	<u>\$7,969,000</u>	<u>\$5,410,000</u>	<u>\$6,152,000</u>	<u>\$6,995,000</u>
(Bi) Cermak	1,400,000	1,505,000	1,618,000	1,090,000	1,172,000	1,260,000
(Bii) John H. Stroger	27,500,000	31,831,000	36,845,000	21,430,000	24,805,000	28,712,000
(Biii) Oak Forest	0	0	0	0	0	0
(Biv) Provident	1,370,000	1,477,000	1,592,000	1,070,000	1,154,000	1,244,000
(Bv) Unspecified	<u>26,000</u>	<u>28,000</u>	<u>30,000</u>	<u>21,000</u>	<u>23,000</u>	<u>25,000</u>
(B) Medical malpractice	<u>\$30,296,000</u>	<u>\$34,841,000</u>	<u>\$40,085,000</u>	<u>\$23,611,000</u>	<u>\$27,154,000</u>	<u>\$31,241,000</u>
(C) Subtotal	<u>36,461,000</u>	<u>41,850,000</u>	<u>48,054,000</u>	<u>29,021,000</u>	<u>33,306,000</u>	<u>38,236,000</u>
II. General Government						
(Di) WC - Indemnity	58,200,000	66,830,000	76,740,000	49,000,000	56,266,000	64,610,000
(Dii) WC - Medical	<u>22,300,000</u>	<u>25,641,000</u>	<u>29,482,000</u>	<u>20,000,000</u>	<u>22,996,000</u>	<u>26,441,000</u>
(D) Workers compensation	<u>\$80,500,000</u>	<u>\$92,471,000</u>	<u>\$106,222,000</u>	<u>\$69,000,000</u>	<u>\$79,262,000</u>	<u>\$91,051,000</u>
(E) General liability	912,000	1,009,000	1,117,000	804,000	890,000	985,000
(F) Automobile liability	2,160,000	2,357,000	2,572,000	1,956,000	2,135,000	2,330,000
(G) Law enforcement liability	21,500,000	25,077,000	29,249,000	16,900,000	19,712,000	22,991,000
(H) Other liability	17,000,000	19,714,000	22,861,000	13,700,000	15,887,000	18,423,000
(I) Subtotal	<u>122,072,000</u>	<u>140,628,000</u>	<u>162,021,000</u>	<u>102,360,000</u>	<u>117,886,000</u>	<u>135,780,000</u>
Total	\$158,533,000	\$182,478,000	\$210,075,000	\$131,381,000	\$151,192,000	\$174,016,000

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 I, Bv is from MM Unspecified 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)
1. FY2022 Payments				
General liability		\$115,992	\$26,740	\$89,252
Automobile liability		9,716,134	23,036	9,693,098
Law enforcement liability		19,947,572	2,932,411	17,015,161
Other liability		9,588,438	394,127	9,194,311
Average		\$9,842,034	\$844,078	\$8,997,956
2. 11/30/22 Case Reserves				
General liability		4,955,483	3,745,000	1,210,483
Automobile liability		1,639,412	0	1,639,412
Law enforcement liability		135,609,312	11,429,951	124,179,361
Other liability		44,167,301	1,291,000	42,876,301
Average		\$46,592,877	\$4,116,488	\$42,476,389
3. 11/30/22 Reported Incurred				
General liability		16,328,315	5,660,569	10,667,746
Automobile liability		46,050,771	2,662,762	43,388,009
Law enforcement liability		314,769,761	41,108,131	273,661,630
Other liability		244,724,162	54,492,537	190,231,626
Average		\$155,468,252	\$25,981,000	\$129,487,252
4. Ratio to Total				
		Payments	8.6%	91.4%
		Case Reserves	8.8%	91.2%
		Reported Incurred	16.7%	83.3%
		Prior Selected	15.5%	84.5%
5. Estimated Outstanding Losses				
Estimated Outstanding Losses as of 11/30/22				
a. General Liability		\$6,794,184	\$1,053,099	\$5,741,086
b. Automobile Liability		4,206,144	651,952	3,554,192
c. Law Enforcement Liability		219,072,975	33,956,311	185,116,664
d. Other Liability		90,120,150	13,968,623	76,151,527
Estimated Outstanding Losses as of 11/30/23				
a. General Liability		\$5,086,254	\$788,369	\$4,297,885
b. Automobile Liability		4,136,162	641,105	3,495,057
c. Law Enforcement Liability		210,479,454	32,624,315	177,855,139
d. Other Liability		98,545,328	15,274,526	83,270,802
Estimated Outstanding Losses as of 11/30/24				
a. General Liability		\$3,431,049	\$531,813	\$2,899,236
b. Automobile Liability		4,121,249	638,794	3,482,456
c. Law Enforcement Liability		191,206,064	29,636,940	161,569,124
d. Other Liability		95,621,584	14,821,346	80,800,238
6. Projected Ultimate Losses				
12/1/2022-23				
a. General Liability		\$855,000	\$132,525	\$722,475
b. Automobile Liability		2,030,000	314,650	1,715,350
c. Law Enforcement Liability		20,300,000	3,146,500	17,153,500
d. Other Liability		16,400,000	2,542,000	13,858,000
12/1/2023-24				
a. General Liability		\$883,000	\$136,865	\$746,135
b. Automobile Liability		2,090,000	323,950	1,766,050
c. Law Enforcement Liability		20,800,000	3,224,000	17,576,000
d. Other Liability		16,700,000	2,588,500	14,111,500
12/1/2024-25				
a. General Liability		\$912,000	\$141,360	\$770,640
b. Automobile Liability		2,160,000	334,800	1,825,200
c. Law Enforcement Liability		21,500,000	3,332,500	18,167,500
d. Other Liability		17,000,000	2,635,000	14,365,000



COOK COUNTY, ILLINOIS
SUMMARY EXHIBITS

Summary Exhibit 5

Actual and Projected Paid Losses (\$000s)

	Actual Limited Paid Losses FY2019	Actual Limited Paid Losses FY2020	Actual Limited Paid Losses FY2021	Actual Limited Paid Losses FY2022	Average Paid Losses FY2019 to FY2022	Projected Paid Losses FY 2023	Projected Paid Losses FY 2024	Projected Paid Losses FY 2025
I. Health Care Facilities								
(Ai) WC - Indemnity	\$2,417	\$2,890	\$3,340	\$2,177	\$2,706	\$5,131	\$4,699	\$4,424
(Aii) WC - Medical	495	951	648	504	650	3,416	2,831	2,497
(A) Workers compensation	\$2,911	\$3,841	\$3,988	\$2,681	\$3,355	\$8,547	\$7,530	\$6,921
(Bi) Cermak	913	0	6,000	975	1,972	250	375	483
(Bii) John H. Stroger	19,585	48,050	17,609	34,049	29,823	21,442	19,450	19,946
(Biii) Oak Forest	0	0	0	0	0	5	6	4
(Biv) Provident	290	155	0	0	111	273	458	534
(Bv) Unspecified	1	0	0	0	0	27	21	21
(B) Medical malpractice	\$20,789	\$48,205	\$23,609	\$35,024	\$31,907	\$21,997	\$20,309	\$20,987
(C) Subtotal	\$23,700	\$52,046	\$27,597	\$37,705	\$35,262	\$30,544	\$27,839	\$27,909
II. General Government								
(Di) WC - Indemnity	25,952	29,654	31,438	31,364	29,602	47,087	47,870	50,222
(Dii) WC - Medical	7,652	10,074	9,481	10,048	9,314	18,394	17,195	16,720
(D) Workers compensation	\$33,604	\$39,728	\$40,919	\$41,412	\$38,916	\$65,481	\$65,065	\$66,942
(E) General liability	578	367	464	116	381	2,563	2,538	1,713
(F) Automobile liability	861	245	214	9,716	2,759	2,100	2,105	2,102
(G) Law enforcement liability	33,115	2,062	8,249	19,948	15,843	28,894	25,366	22,114
(H) Other liability	1,041	24,342	4,245	9,588	9,804	7,975	7,505	7,388
(I) Subtotal	\$69,200	\$66,745	\$54,090	\$80,780	\$67,704	\$107,013	\$102,579	\$100,258
Total	\$92,900	\$118,791	\$81,687	\$118,486	\$102,966	\$137,557	\$130,418	\$128,167

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 FY2019	Projected Ultimate Limited Losses FY2020	Projected Ultimate Limited Losses FY2021	Projected Ultimate Limited Losses FY2022	Average Ultimate Limited Losses 12/1/2018 to 12/1/2021	Projected Ultimate Limited Losses FY2023	Projected Ultimate Limited Losses FY2024	Projected Ultimate Limited Losses FY2025
I. Health Care Facilities								
(Ai) WC - Indemnity	\$4,600	\$3,500	\$4,700	\$4,300	\$4,275	\$3,800	\$3,900	\$4,100
(Aii) WC - Medical	2,226	1,294	1,800	2,524	1,961	1,828	1,939	2,065
(A) Workers compensation	\$6,826	\$4,794	\$6,500	\$6,824	\$6,236	\$5,628	\$5,839	\$6,165
(Bi) Cermak	410	470	700	900	620	1,290	1,350	1,400
(Bii) John H. Stroger	16,800	28,600	17,600	22,000	21,250	25,400	26,400	27,500
(Biii) Oak Forest	9	8	0	0	9	0	0	0
(Biv) Provident	600	700	700	1,100	775	1,270	1,320	1,370
(Bv) Unspecified	15	12	18	20	16	24	25	26
(B) Medical malpractice	\$17,834	\$29,790	\$19,018	\$24,020	\$22,670	\$27,984	\$29,095	\$30,296
(C) Subtotal	\$24,660	\$34,584	\$25,518	\$30,844	\$28,906	\$33,612	\$34,934	\$36,461
II. General Government								
(Di) WC - Indemnity	34,000	55,000	46,900	60,000	48,975	53,200	55,600	58,200
(Dii) WC - Medical	11,400	19,500	17,400	24,000	18,075	19,500	20,900	22,300
(D) Workers compensation	\$45,400	\$74,500	\$64,300	\$84,000	\$67,050	\$72,700	\$76,500	\$80,500
(E) General liability	384	1,018	4,500	639	1,635	855	883	912
(F) Automobile liability	1,220	440	1,130	1,550	1,085	2,030	2,090	2,160
(G) Law enforcement liability	14,000	33,000	25,000	21,000	23,250	20,300	20,800	21,500
(H) Other liability	8,000	11,000	13,000	15,800	11,950	16,400	16,700	17,000
(I) Subtotal	\$69,004	\$119,958	\$107,930	\$122,989	\$104,970	\$112,285	\$116,973	\$122,072
Total	\$93,664	\$154,542	\$133,448	\$153,833	\$133,876	\$145,897	\$151,907	\$158,533

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
	Average	\$8,295,457	\$806,083	\$7,489,374
2. Average FY 2001-2022 Loss Payments		\$41,379,511	\$24,249,950	\$17,129,560
3. Ratio of Expense Payments to Loss Payments (Section 1 / Section 2)	Actual		3.32%	43.72%
	Prior		3.00%	43.00%
	Selected		3.00%	43.00%
4. Case Reserves as of 11/30/22		\$247,651,507	\$61,280,000	\$186,371,507
5. IBNR Reserves as of 11/30/22		195,103,232	61,281,286	133,821,946
6. Estimated Undiscounted Expense Reserves as of 11/30/22		100,370,949	2,757,639	97,613,311
7. Discount Factor		0.862	0.879	0.861
8. Estimated Discounted Expense Reserves as of 11/30/22		86,515,612	2,425,050	84,090,562
9. Estimated Outstanding Losses as of 11/30/23		446,795,590	128,548,392	318,247,198
9a. Estimated Case Reserves as of 11/30/23		249,512,193	64,273,522	185,238,672
9b. Estimated IBNR Reserves as of 11/30/23		197,283,397	64,274,871	133,008,526
10. Estimated Undiscounted Expense Reserves as of 11/30/23		99,912,330	2,892,349	97,019,981
11. Estimated Discounted Expense Reserves as of 11/30/23		86,122,942	2,543,513	83,579,428
12. Estimated Outstanding Losses as of 11/30/24		431,714,101	137,334,155	294,379,946
12a. Estimated Case Reserves as of 11/30/24		240,012,878	68,666,357	171,346,521
12b. Estimated IBNR Reserves as of 11/30/24		191,701,223	68,667,798	123,033,425
13. Estimated Undiscounted Expense Reserves as of 11/30/24		92,833,904	3,090,029	89,743,875
14. Estimated Discounted Expense Reserves as of 11/30/24		80,028,662	2,717,352	77,311,310

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, 2022

Claim Period (1)	Limited Paid Losses 11/30/22 (2)	Limited Case Reserves 11/30/22 (3)	Limited Reported Incurred Losses 11/30/22 (4)	Projected Ultimate Limited Losses (5)	Estimated IBNR 11/30/22 (5)-(4) (6)	Estimated Outstanding Losses 11/30/22 (3) + (6) (7)	Present Value Factor (8)	Present Value of Estimated Outstanding Losses 11/30/22 (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	0.98	0
12/1/2008	8,380,000	1,000,000	9,380,000	9,495,000	115,000	1,115,000	0.97	1,078,181
12/1/2009	11,202,500	0	11,202,500	11,202,500	0	0	0.95	0
12/1/2010	10,718,000	100,000	10,818,000	11,003,000	185,000	285,000	0.95	270,156
12/1/2011	37,843,999	3,850,000	41,693,999	42,525,000	831,001	4,681,001	0.94	4,398,885
12/1/2012	61,315,000	200,000	61,515,000	61,675,000	160,000	360,000	0.93	336,213
12/1/2013	2,050,000	650,000	2,700,000	2,925,000	225,000	875,000	0.92	808,650
12/1/2014	16,931,715	15,050,000	31,981,715	33,796,000	1,814,285	16,864,285	0.92	15,558,706
12/1/2015	11,112,500	5,780,000	16,892,500	18,676,000	1,783,500	7,563,500	0.93	7,026,292
12/1/2016	5,330,000	3,700,000	9,030,000	11,025,000	1,995,000	5,695,000	0.92	5,234,773
12/1/2017	30,835,000	2,600,000	33,435,000	36,466,000	3,031,000	5,631,000	0.92	5,183,273
12/1/2018	4,895,000	6,450,000	11,345,000	17,834,000	6,489,000	12,939,000	0.90	11,676,416
12/1/2019	6,086,500	14,350,000	20,436,500	29,790,000	9,353,500	23,703,500	0.88	20,784,473
12/1/2020	299,000	4,950,000	5,249,000	19,018,000	13,769,000	18,719,000	0.85	15,819,242
12/1/2021	0	2,500,000	2,500,000	24,020,000	21,520,000	24,020,000	0.81	19,494,352
Total	\$687,074,923	\$61,280,000	\$748,354,923	\$809,636,209	\$61,281,286	\$122,561,286		\$107,779,611



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)
I. Actual Payments					
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
II. Estimated Future Payments					
FY2023	74,028,586	41,531,256	21,996,894		137,556,735
FY2024	72,594,942	37,513,737	20,309,238		130,417,917
FY2025	73,863,180	33,316,355	20,987,350		128,166,885

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

Summary Exhibit 10

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

Losses Limited to Actual Retention

Coverage (1)	Limited Reported Incurred Losses 11/30/21 (2)	Limited Reported Incurred Losses 11/30/22 (3)	Estimated Outstanding Losses 11/30/21 (6) - (9) (4)	Estimated Outstanding Losses 11/30/22 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/21 (6)	Projected Ultimate Limited Losses 11/30/22 (7)	Change in Ultimate (7) - (6) (8)	Percentage Change in Ultimate (7) / (6) - 1 (9)	Limited Paid Losses 11/30/21 (10)	Limited Paid Losses 11/30/22 (11)	Limited Case Reserves 11/30/21 (2) - (10) (12)	Limited Case Reserves 11/30/22 (3) - (11) (13)	Estimated IBNR 11/30/21 (4)-(12) (14)	Estimated IBNR 11/30/22 (5)-(13) (15)
A. Health Care Facilities														
(Ai) WC - Indemnity	\$104,392	\$108,160	\$19,786	\$23,141	\$114,023	\$115,655	\$1,632	1.4%	\$90,338	\$92,515	\$14,054	\$15,645	\$5,732	\$7,496
(Aii) WC - Medical	33,507	36,026	7,174	9,496	36,504	37,499	995	2.7%	27,499	28,003	6,008	8,023	1,167	1,473
(Bi) Cermak	29,262	29,237	4,989	3,030	34,811	32,217	(2,594)	-7.5%	28,212	29,187	1,050	50	3,939	2,980
(Bii) John H. Stroger	596,415	614,059	127,702	115,983	670,212	669,012	(1,200)	-0.2%	518,980	553,029	77,435	61,030	50,267	54,953
(Biii) Oak Forest	28,200	28,200	46	27	28,246	28,227	(19)	-0.1%	28,200	28,200	-	-	46	27
(Biv) Provident	34,775	30,875	7,360	3,390	39,625	34,115	(5,510)	-13.9%	30,725	30,725	4,050	150	3,310	3,240
(Bv) Unspecified	45,984	45,984	135	131	46,096	46,065	(31)	-0.1%	45,934	45,934	50	50	85	81
B. General Government														
(Ei) WC - Indemnity	427,127	483,720	133,879	184,285	525,677	568,747	43,070	8.2%	353,098	384,462	74,029	99,258	59,850	85,027
(Eii) WC - Medical	181,690	207,894	45,466	60,630	206,417	217,930	11,513	5.6%	147,251	157,299	34,439	50,595	11,026	10,036
(F) General liability	13,157	16,328	2,693	6,794	14,570	18,167	3,597	24.7%	11,257	11,373	1,900	4,955	793	1,839
(G) Automobile liability	46,924	46,051	14,810	4,206	51,523	48,618	(2,906)	-5.6%	34,695	44,411	12,229	1,639	2,581	2,567
(H) Law enforcement liability	291,776	314,770	202,721	219,073	382,933	398,233	15,300	4.0%	159,213	179,160	132,563	135,609	70,157	83,464
(I) Other liability	238,193	244,724	89,059	90,120	296,627	290,677	(5,950)	-2.0%	190,968	200,557	47,224	44,167	41,834	45,953
Total	\$2,071,402	\$2,206,027	\$655,819	\$720,306	\$2,447,265	\$2,505,162	\$57,897	2.4%	\$1,666,370	\$1,784,856	\$405,032	\$421,172	\$250,787	\$299,135



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 11/30/21 (2)	Limited Reported Incurred Losses 11/30/22 (3)	Estimated Outstanding Losses 11/30/21 (6) - (9)	Estimated Outstanding Losses 11/30/22 (7) - (10)	Projected Ultimate Limited Losses 11/30/21 (6)	Projected Ultimate Limited Losses 11/30/22 (7)	Change in Ultimate (7) - (6) (8)	Percentage Change in Ultimate (7) / (6) - 1 (9)	Limited Paid Losses 11/30/21 (10)	Limited Paid Losses 11/30/22 (11)	Limited Case Reserves 11/30/21 (2) - (10) (12)	Limited Case Reserves 11/30/22 (3) - (11) (13)	Estimated IBNR 11/30/21 (4)-(12) (14)	Estimated IBNR 11/30/22 (5)-(13) (15)
Prior	\$678,296	\$700,118	\$49,767	\$66,027	\$684,179	\$712,082	\$27,903	4.1%	\$634,412	\$646,055	\$43,883	\$54,063	\$5,883	\$11,964
12/1/2001	55,124	55,148	4	34	55,125	55,155	30	0.1%	55,121	55,121	3	27	1	7
12/1/2002	34,839	34,839	4,558	4,518	34,965	34,966	1	0.0%	30,406	30,448	4,433	4,391	126	127
12/1/2003	127,691	128,786	1,155	2,279	127,826	129,023	1,197	0.9%	126,671	126,744	1,021	2,042	135	237
12/1/2004	77,158	76,859	1,767	1,350	77,503	77,142	(361)	-0.5%	75,737	75,792	1,421	1,067	346	283
12/1/2005	51,232	51,234	3,232	3,188	51,488	51,488	-	0.0%	48,256	48,301	2,976	2,934	256	254
12/1/2006	38,493	40,758	4,029	6,303	38,671	41,395	2,724	7.0%	34,642	35,092	3,851	5,666	178	637
12/1/2007	51,024	51,293	2,548	2,584	51,561	51,895	334	0.6%	49,013	49,311	2,011	1,982	537	602
12/1/2008	43,442	43,399	2,270	2,039	43,915	43,931	16	0.0%	41,645	41,892	1,797	1,507	473	532
12/1/2009	51,084	51,862	2,390	2,881	51,622	52,421	799	1.5%	49,232	49,541	1,852	2,321	538	559
12/1/2010	68,689	72,594	6,396	4,715	69,565	73,745	4,180	6.0%	63,169	69,030	5,520	3,564	876	1,151
12/1/2011	79,356	74,676	18,486	12,977	82,978	78,177	(4,801)	-5.8%	64,492	65,200	14,864	9,477	3,622	3,501
12/1/2012	101,653	102,602	12,481	12,334	104,457	104,767	310	0.3%	91,976	92,433	9,677	10,169	2,805	2,165
12/1/2013	65,822	68,279	32,838	34,426	70,370	72,891	2,521	3.6%	37,532	38,466	28,289	29,814	4,548	4,612
12/1/2014	82,371	82,826	30,659	28,444	90,364	89,540	(824)	-0.9%	59,705	61,096	22,665	21,730	7,994	6,714
12/1/2015	84,152	82,950	43,116	37,629	94,175	92,046	(2,129)	-2.3%	51,059	54,417	33,092	28,533	10,023	9,096
12/1/2016	70,303	73,533	39,552	36,350	85,862	85,527	(335)	-0.4%	46,310	49,177	23,993	24,355	15,559	11,995
12/1/2017	107,018	107,640	91,158	41,436	128,046	123,481	(4,565)	-3.6%	36,888	82,045	70,130	25,595	21,028	15,841
12/1/2018	75,775	66,134	80,332	54,083	112,553	93,664	(18,889)	-16.8%	32,221	39,581	43,555	26,553	36,778	27,530
12/1/2019	85,842	110,961	118,046	115,377	146,165	154,542	8,377	5.7%	28,119	39,165	57,722	71,796	60,323	43,581
12/1/2020	42,038	70,238	111,035	109,262	120,796	133,448	12,652	10.5%	9,761	24,186	32,277	46,052	78,758	63,210
12/1/2021		59,297		142,068	125,076	153,833	28,757	23.0%		11,765		47,532		94,536
Total	\$2,071,402	\$2,206,027	\$655,819	\$720,306	\$2,447,265	\$2,505,162	\$57,897	2.4%	\$1,666,370	\$1,784,856	\$405,032	\$421,172	\$250,787	\$299,135
Total (ex FY2022)	\$2,071,402	\$2,146,730	\$655,819	\$578,239	\$2,322,189	\$2,351,329	\$29,140	1.3%	\$1,666,370	\$1,773,090	\$405,032	\$373,639	\$250,787	\$204,599



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 11/30/21 (2)	Limited Reported Incurred Losses 11/30/22 (3)	Estimated Outstanding Losses 11/30/21 (6) - (9)	Estimated Outstanding Losses 11/30/22 (7) - (10)	Projected Ultimate Losses 11/30/21 (6)	Projected Ultimate Losses 11/30/22 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/21 (9)	Limited Paid Losses 11/30/22 (10)	Limited Case Reserves 11/30/21 (2) - (9) (11)	Limited Case Reserves 11/30/22 (3) - (10) (12)	Estimated IBNR 11/30/21 (4)-(11) (13)	Estimated IBNR 11/30/22 (5)-(12) (14)
Prior	\$56,177	\$56,101	\$4,779	\$4,475	\$56,590	\$56,520	(\$70)	\$51,811	\$52,045	\$4,366	\$4,056	\$413	\$419
12/1/2001	1,190	1,211	4	28	1,191	1,215	24	1,187	1,187	3	23	1	4
12/1/2002	3,277	3,277	281	266	3,290	3,290	0	3,009	3,024	268	253	13	13
12/1/2003	1,975	1,952	120	90	1,990	1,961	(29)	1,870	1,871	105	81	15	9
12/1/2004	3,183	2,816	739	307	3,275	2,870	(405)	2,536	2,563	647	253	92	54
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	2,092	2,087	11	8	2,098	2,095	(3)	2,087	2,087	5	0	6	8
12/1/2007	1,974	1,974	98	65	2,010	1,995	(15)	1,912	1,930	62	44	36	21
12/1/2008	2,115	2,135	64	84	2,140	2,160	20	2,076	2,076	39	59	25	25
12/1/2009	2,482	2,620	349	452	2,560	2,700	140	2,211	2,248	271	373	78	80
12/1/2010	1,996	2,008	93	111	2,030	2,050	20	1,937	1,939	60	69	34	42
12/1/2011	2,356	2,377	210	230	2,410	2,440	30	2,200	2,210	156	167	54	63
12/1/2012	3,223	3,753	121	655	3,300	3,890	590	3,179	3,235	44	517	77	137
12/1/2013	2,653	3,236	314	821	2,750	3,330	580	2,436	2,509	217	727	97	94
12/1/2014	1,716	1,706	343	295	1,850	1,810	(40)	1,507	1,515	210	192	134	104
12/1/2015	2,457	2,441	471	380	2,670	2,620	(50)	2,199	2,240	257	201	213	179
12/1/2016	2,539	2,818	835	875	2,930	3,090	160	2,095	2,215	443	603	391	272
12/1/2017	2,022	2,352	1,117	1,178	2,600	2,780	180	1,483	1,602	539	750	578	428
12/1/2018	3,334	3,916	2,469	2,864	4,000	4,600	600	1,531	1,736	1,803	2,181	666	684
12/1/2019	2,403	2,553	2,907	2,443	3,700	3,500	(200)	793	1,057	1,610	1,496	1,297	947
12/1/2020	3,489	3,160	4,460	3,678	5,000	4,700	(300)	540	1,022	2,949	2,138	1,511	1,540
12/1/2021		1,926		3,836	3,900	4,300	400		464		1,462		2,374
Total	\$104,392	\$108,160	\$19,786	\$23,141	\$114,023	\$115,655	\$1,632	\$90,338	\$92,515	\$14,054	\$15,645	\$5,732	\$7,496
Total (ex FY2022)	\$104,392	\$106,233	\$19,786	\$19,305	\$110,123	\$111,355	\$1,232	\$90,338	\$92,050	\$14,054	\$14,183	\$5,732	\$5,122



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 11/30/21 (2)	Limited Reported Incurred Losses 11/30/22 (3)	Estimated Outstanding Losses 11/30/21 (6) - (9)	Estimated Outstanding Losses 11/30/22 (7) - (10)	Projected Ultimate Limited Losses 11/30/21 (6)	Projected Ultimate Limited Losses 11/30/22 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/21 (9)	Limited Paid Losses 11/30/22 (10)	Limited Case Reserves 11/30/21 (2) - (9) (11)	Limited Case Reserves 11/30/22 (3) - (10) (12)	Estimated IBNR 11/30/21 (4)-(11) (13)	Estimated IBNR 11/30/22 (5)-(12) (14)
Prior	\$13,407	\$13,747	\$333	\$658	\$13,410	\$13,750	\$340	\$13,077	\$13,092	\$330	\$655	\$3	\$3
12/1/2001	620	624	1	7	621	627	6	620	620	0	4	1	3
12/1/2002	919	919	20	21	919	920	1	899	899	20	20	0	1
12/1/2003	1,328	1,325	110	110	1,328	1,328	(0)	1,218	1,218	110	107	0	3
12/1/2004	1,317	1,385	56	128	1,317	1,389	72	1,261	1,261	56	124	0	4
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	1,074	1,164	341	439	1,075	1,174	99	734	735	340	429	1	10
12/1/2010	682	682	16	16	684	684	0	668	668	14	14	2	2
12/1/2011	986	998	14	21	991	1,010	19	977	989	9	9	5	12
12/1/2012	1,289	1,642	155	491	1,300	1,670	370	1,145	1,179	144	463	11	28
12/1/2013	692	991	43	376	700	1,041	341	657	665	35	326	8	50
12/1/2014	543	541	67	67	552	552	0	485	485	58	56	9	11
12/1/2015	794	779	113	101	810	798	(12)	697	697	98	82	16	19
12/1/2016	731	776	272	299	756	806	50	484	507	247	269	25	30
12/1/2017	664	701	340	381	720	775	55	380	394	283	307	56	74
12/1/2018	1,916	2,149	1,504	1,684	1,993	2,226	233	489	542	1,427	1,607	77	77
12/1/2019	1,385	1,201	1,370	1,008	1,629	1,294	(335)	259	286	1,126	915	244	93
12/1/2020	2,028	1,498	2,415	1,281	2,737	1,800	(937)	322	519	1,706	979	709	302
12/1/2021		1,773		2,402	1,831	2,524	693		122		1,651		751
Total	\$33,507	\$36,026	\$7,174	\$9,496	\$36,504	\$37,499	\$995	\$27,499	\$28,003	\$6,008	\$8,023	\$1,167	\$1,473
Total (ex FY2022)	\$33,507	\$34,253	\$7,174	\$7,094	\$34,673	\$34,975	\$302	\$27,499	\$27,881	\$6,008	\$6,372	\$1,167	\$722



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 11/30/21 (2)	Limited Reported Incurred Losses 11/30/22 (3)	Estimated Outstanding Losses 11/30/21 (6) - (9)	Estimated Outstanding Losses 11/30/22 (7) - (10)	Projected Ultimate Limited Losses 11/30/21 (6)	Projected Ultimate Limited Losses 11/30/22 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/21 (9)	Limited Paid Losses 11/30/22 (10)	Limited Case Reserves 11/30/21 (2) - (9)	Limited Case Reserves 11/30/22 (3) - (10)	Estimated IBNR 11/30/21 (4)-(11)	Estimated IBNR 11/30/22 (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	84	0	6,125	6,041	(84)	6,041	6,041	0	0	84	0
12/1/2015	2,955	2,930	1,205	170	3,160	3,100	(60)	1,955	2,930	1,000	0	205	170
12/1/2016	900	900	100	80	1,000	980	(20)	900	900	0	0	100	80
12/1/2017	0	0	620	300	620	300	(320)	0	0	0	0	620	300
12/1/2018	50	50	790	410	790	410	(380)	0	0	50	50	740	360
12/1/2019	0	0	900	470	900	470	(430)	0	0	0	0	900	470
12/1/2020	0	0	1,290	700	1,290	700	(590)	0	0	0	0	1,290	700
12/1/2021	0	0	0	900	1,610	900	(710)	0	0	0	0	0	900
Total	\$29,262	\$29,237	\$4,989	\$3,030	\$34,811	\$32,217	(\$2,594)	\$28,212	\$29,187	\$1,050	\$50	\$3,939	\$2,980
Total (ex FY2022)	\$29,262	\$29,237	\$4,989	\$2,130	\$33,201	\$31,317	(\$1,884)	\$28,212	\$29,187	\$1,050	\$50	\$3,939	\$2,080



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 11/30/21 (2)	Limited Reported Incurred Losses 11/30/22 (3)	Estimated Outstanding Losses 11/30/21 (6) - (9)	Estimated Outstanding Losses 11/30/22 (7) - (10)	Projected Ultimate Limited Losses 11/30/21 (6)	Projected Ultimate Limited Losses 11/30/22 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/21 (9)	Limited Paid Losses 11/30/22 (10)	Limited Case Reserves 11/30/21 (2) - (9) (11)	Limited Case Reserves 11/30/22 (3) - (10) (12)	Estimated IBNR 11/30/21 (4)-(11) (13)	Estimated IBNR 11/30/22 (5)-(12) (14)
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	8,905	1,115	1,115	9,020	9,020	0	7,905	7,905	1,000	1,000	115	115
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	41,819	39,869	7,531	4,681	43,000	40,700	(2,300)	35,469	36,019	6,350	3,850	1,181	831
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	2,275	875	875	2,500	2,500	0	1,625	1,625	650	650	225	225
12/1/2014	25,890	25,890	17,110	16,810	28,000	27,700	(300)	10,890	10,890	15,000	15,000	2,110	1,810
12/1/2015	10,893	11,018	7,963	7,393	13,200	12,630	(570)	5,238	5,238	5,655	5,780	2,308	1,613
12/1/2016	8,000	8,080	6,050	5,470	10,300	9,900	(400)	4,250	4,430	3,750	3,650	2,300	1,820
12/1/2017	31,730	33,435	35,400	5,165	35,400	36,000	600	0	30,835	31,730	2,600	3,670	2,565
12/1/2018	10,545	11,295	14,205	11,905	19,100	16,800	(2,300)	4,895	4,895	5,650	6,400	8,555	5,505
12/1/2019	11,152	20,337	19,499	22,514	23,400	28,600	5,200	3,902	6,087	7,250	14,250	12,249	8,264
12/1/2020	0	5,249	17,200	17,301	17,200	17,600	400	0	299	0	4,950	17,200	12,351
12/1/2021		2,500		22,000	23,530	22,000	(1,530)		0		2,500		19,500
Total	\$596,415	\$614,059	\$127,702	\$115,983	\$670,212	\$669,012	(\$1,200)	\$518,980	\$553,029	\$77,435	\$61,030	\$50,267	\$54,953
Total (ex FY2022)	\$596,415	\$611,559	\$127,702	\$93,983	\$646,682	\$647,012	\$330	\$518,980	\$553,029	\$77,435	\$58,530	\$50,267	\$35,453



COOK COUNTY, ILLINOIS
 MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

Summary Exhibit 16

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/21 (2)	Limited Reported Incurred Losses 11/30/22 (3)	Estimated Outstanding Losses 11/30/21 (6) - (9)	Estimated Outstanding Losses 11/30/22 (7) - (10)	Projected Ultimate Limited Losses 11/30/21 (6)	Projected Ultimate Limited Losses 11/30/22 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/21 (9)	Limited Paid Losses 11/30/22 (10)	Limited Case Reserves 11/30/21 (2) - (9)	Limited Case Reserves 11/30/22 (3) - (10)	Estimated IBNR 11/30/21 (4)-(11)	Estimated IBNR 11/30/22 (5)-(12)
Prior	\$3,980	\$3,980	\$0	\$0	\$3,980	\$3,980	\$0	\$3,980	\$3,980	\$0	\$0	\$0	\$0
12/1/2001	100	100	0	0	100	100	0	100	100	0	0	0	0
12/1/2002	1,050	1,050	0	0	1,050	1,050	0	1,050	1,050	0	0	0	0
12/1/2003	20,375	20,375	0	0	20,375	20,375	0	20,375	20,375	0	0	0	0
12/1/2004	1,900	1,900	0	0	1,900	1,900	0	1,900	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	0	0	3	3	3	3	0	0	0	0	0	3	3
12/1/2015	0	0	1	1	1	1	0	0	0	0	0	1	1
12/1/2016	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2017	0	0	10	6	10	6	(4)	0	0	0	0	10	6
12/1/2018	0	0	15	9	15	9	(6)	0	0	0	0	15	9
12/1/2019	0	0	14	8	14	8	(6)	0	0	0	0	14	8
12/1/2020	0	0	3	0	3	0	(3)	0	0	0	0	3	0
Total	\$28,200	\$28,200	\$46	\$27	\$28,246	\$28,227	(\$19)	\$28,200	\$28,200	\$0	\$0	\$46	\$27



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 11/30/21 (2)	Limited Reported Incurred Losses 11/30/22 (3)	Estimated Outstanding Losses 11/30/21 (6) - (9)	Estimated Outstanding Losses 11/30/22 (7) - (10)	Projected Ultimate Losses 11/30/21 (6)	Projected Ultimate Losses 11/30/22 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/21 (9)	Limited Paid Losses 11/30/22 (10)	Limited Case Reserves 11/30/21 (2) - (9)	Limited Case Reserves 11/30/22 (3) - (10)	Estimated IBNR 11/30/21 (4)-(11)	Estimated IBNR 11/30/22 (5)-(12)
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	50	160	140	160	140	(20)	0	0	50	50	110	90
12/1/2017	4,000	0	4,400	150	4,400	150	(4,250)	0	0	4,000	0	400	150
12/1/2018	0	0	900	600	900	600	(300)	0	0	0	0	900	600
12/1/2019	0	100	900	700	900	700	(200)	0	0	0	100	900	600
12/1/2020	0	0	1,000	700	1,000	700	(300)	0	0	0	0	1,000	700
12/1/2021	0	0	0	1,100	1,540	1,100	(440)	0	0	0	0	0	1,100
Total	\$34,775	\$30,875	\$7,360	\$3,390	\$39,625	\$34,115	(\$5,510)	\$30,725	\$30,725	\$4,050	\$150	\$3,310	\$3,240
Total (ex FY2022)	\$34,775	\$30,875	\$7,360	\$2,290	\$38,085	\$33,015	(\$5,070)	\$30,725	\$30,725	\$4,050	\$150	\$3,310	\$2,140



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

Summary Exhibit 18

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/21 (2)	Limited Reported Incurred Losses 11/30/22 (3)	Estimated Outstanding Losses 11/30/21 (6) - (9)	Estimated Outstanding Losses 11/30/22 (7) - (10)	Projected Ultimate Limited Losses 11/30/21 (6)	Projected Ultimate Limited Losses 11/30/22 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/21 (9)	Limited Paid Losses 11/30/22 (10)	Limited Case Reserves 11/30/21 (2) - (9) (11)	Limited Case Reserves 11/30/22 (3) - (10) (12)	Estimated IBNR 11/30/21 (4)-(11) (13)	Estimated IBNR 11/30/22 (5)-(12) (14)
Prior	\$44,383	\$44,383	\$0	\$0	\$44,383	\$44,383	\$0	\$44,383	\$44,383	\$0	\$0	\$0	\$0
12/1/2001	750	750	0	0	750	750	0	750	750	0	0	0	0
12/1/2002	800	800	0	0	800	800	0	800	800	0	0	0	0
12/1/2003	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2004	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2005	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	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	51	51	52	52	0	1	1	50	50	1	1
12/1/2015	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2016	0	0	8	5	8	5	(3)	0	0	0	0	8	5
12/1/2017	0	0	13	10	13	10	(3)	0	0	0	0	13	10
12/1/2018	0	0	17	15	17	15	(2)	0	0	0	0	17	15
12/1/2019	0	0	20	12	20	12	(8)	0	0	0	0	20	12
12/1/2020	0	0	26	18	26	18	(8)	0	0	0	0	26	18
12/1/2021	0	0	0	20	27	20	(7)	0	0	0	0	0	20
Total	\$45,984	\$45,984	\$135	\$131	\$46,096	\$46,065	(\$31)	\$45,934	\$45,934	\$50	\$50	\$85	\$81
Total (ex FY2022)	\$45,984	\$45,984	\$135	\$111	\$46,069	\$46,045	(\$24)	\$45,934	\$45,934	\$50	\$50	\$85	\$61



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

Summary Exhibit 19

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/21 (2)	Limited Reported Incurred Losses 11/30/22 (3)	Estimated Outstanding Losses 11/30/21 (6) - (9)	Estimated Outstanding Losses 11/30/22 (7) - (10)	Projected Ultimate Losses 11/30/21 (6)	Projected Ultimate Losses 11/30/22 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/21 (9)	Limited Paid Losses 11/30/22 (10)	Limited Case Reserves 11/30/21 (2) - (9) (11)	Limited Case Reserves 11/30/22 (3) - (10) (12)	Estimated IBNR 11/30/21 (4)-(11) (13)	Estimated IBNR 11/30/22 (5)-(12) (14)
Prior	\$87,643	\$88,727	\$1,830	\$3,982	\$87,666	\$90,000	\$2,334	\$85,836	\$86,018	\$1,807	\$2,709	\$23	\$1,273
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	8,393	139	112	8,417	8,417	0	8,278	8,305	115	88	24	24
12/1/2003	9,333	9,786	872	1,367	9,434	9,994	560	8,562	8,627	771	1,159	101	208
12/1/2004	9,477	9,477	537	509	9,570	9,570	0	9,033	9,061	445	417	93	93
12/1/2005	9,620	9,622	565	521	9,709	9,709	0	9,144	9,188	476	434	89	87
12/1/2006	11,954	14,223	73	2,367	11,973	14,710	2,737	11,900	12,343	54	1,880	19	487
12/1/2007	18,098	18,373	636	716	18,271	18,630	359	17,635	17,914	464	459	173	257
12/1/2008	14,785	14,775	861	617	15,045	15,045	0	14,184	14,428	601	347	260	270
12/1/2009	14,074	14,444	1,266	1,387	14,360	14,740	380	13,094	13,353	980	1,091	286	296
12/1/2010	12,209	13,262	1,581	2,794	12,480	13,800	1,320	10,899	11,006	1,309	2,256	271	538
12/1/2011	14,101	13,394	1,561	904	14,520	14,000	(520)	12,959	13,096	1,142	298	419	606
12/1/2012	12,566	12,938	2,638	2,428	13,300	13,400	100	10,662	10,972	1,903	1,966	734	462
12/1/2013	16,207	16,459	3,535	2,946	17,000	17,000	0	13,465	14,054	2,742	2,404	793	541
12/1/2014	17,973	18,262	3,983	3,574	19,800	19,700	(100)	15,817	16,126	2,156	2,136	1,827	1,438
12/1/2015	25,660	26,401	7,188	6,418	28,800	28,800	0	21,612	22,382	4,048	4,019	3,140	2,399
12/1/2016	27,128	28,715	10,664	10,422	31,800	32,700	900	21,136	22,278	5,992	6,437	4,672	3,985
12/1/2017	29,026	30,742	11,901	10,414	33,000	34,000	1,000	21,099	23,586	7,927	7,156	3,974	3,258
12/1/2018	25,339	27,076	16,822	13,427	33,300	34,000	700	16,478	20,573	8,861	6,503	7,961	6,924
12/1/2019	33,898	41,016	33,870	33,538	50,000	55,000	5,000	16,130	21,462	17,768	19,554	16,102	13,984
12/1/2020	21,010	29,783	33,358	32,952	39,900	46,900	7,000	6,542	13,948	14,468	15,835	18,890	17,117
12/1/2021		29,221		52,890	38,700	60,000	21,300		7,110		22,110		30,779
Total	\$427,127	\$483,720	\$133,879	\$184,285	\$525,677	\$568,747	\$43,070	\$353,098	\$384,462	\$74,029	\$99,258	\$59,850	\$85,027
Total (ex FY2022)	\$427,127	\$454,499	\$133,879	\$131,395	\$486,977	\$508,747	\$21,770	\$353,098	\$377,352	\$74,029	\$77,147	\$59,850	\$54,248



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

Summary Exhibit 20

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/21 (2)	Limited Reported Incurred Losses 11/30/22 (3)	Estimated Outstanding Losses 11/30/21 (6) - (9)	Estimated Outstanding Losses 11/30/22 (7) - (10)	Projected Ultimate Limited Losses 11/30/21 (6)	Projected Ultimate Limited Losses 11/30/22 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/21 (9)	Limited Paid Losses 11/30/22 (10)	Limited Case Reserves 11/30/21 (2) - (9) (11)	Limited Case Reserves 11/30/22 (3) - (10) (12)	Estimated IBNR 11/30/21 (4)-(11) (13)	Estimated IBNR 11/30/22 (5)-(12) (14)
Prior	\$32,072	\$32,447	\$347	\$734	\$32,139	\$32,538	\$399	\$31,792	\$31,804	\$280	\$643	\$67	\$91
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	4,177	43	43	4,190	4,190	0	4,147	4,147	30	30	13	13
12/1/2003	3,839	4,507	53	713	3,858	4,524	666	3,805	3,811	34	696	19	17
12/1/2004	12,024	12,024	99	81	12,100	12,082	(18)	12,001	12,001	24	23	76	58
12/1/2005	4,204	4,204	16	16	4,220	4,220	0	4,204	4,204	0	0	16	16
12/1/2006	4,907	4,909	107	99	4,944	4,944	0	4,837	4,845	70	64	37	35
12/1/2007	6,629	6,624	545	535	6,690	6,680	(10)	6,145	6,145	485	479	61	56
12/1/2008	6,631	6,578	225	218	6,704	6,700	(4)	6,479	6,482	152	96	73	122
12/1/2009	6,663	6,842	237	405	6,740	6,920	180	6,503	6,515	160	327	77	78
12/1/2010	5,315	5,554	547	636	5,380	5,620	240	4,833	4,984	482	571	65	66
12/1/2011	4,579	4,523	229	200	4,640	4,610	(30)	4,411	4,410	169	113	61	87
12/1/2012	4,492	4,457	393	314	4,610	4,560	(50)	4,217	4,246	275	211	118	103
12/1/2013	6,711	5,540	2,097	888	6,900	5,700	(1,200)	4,803	4,812	1,908	729	189	160
12/1/2014	5,941	6,220	942	1,207	6,100	6,400	300	5,158	5,193	782	1,027	159	180
12/1/2015	9,575	9,543	1,461	1,240	9,900	9,800	(100)	8,439	8,560	1,136	984	325	257
12/1/2016	9,973	10,638	2,296	2,914	10,460	11,100	640	8,164	8,186	1,809	2,452	487	462
12/1/2017	10,588	10,422	3,976	3,547	11,200	11,000	(200)	7,224	7,453	3,364	2,970	612	578
12/1/2018	10,774	10,430	4,904	3,886	11,900	11,400	(500)	6,996	7,514	3,778	2,916	1,126	970
12/1/2019	16,485	18,092	11,852	10,848	18,600	19,500	900	6,748	8,652	9,737	9,440	2,115	1,408
12/1/2020	12,067	15,133	15,098	11,264	17,400	17,400	0	2,302	6,136	9,765	8,996	5,333	2,267
12/1/2021		20,987		20,840	13,700	24,000	10,300		3,160		17,828		3,013
Total	\$181,690	\$207,894	\$45,466	\$60,630	\$206,417	\$217,930	\$11,513	\$147,251	\$157,299	\$34,439	\$50,595	\$11,026	\$10,036
Total (ex FY2022)	\$181,690	\$186,907	\$45,466	\$39,790	\$192,717	\$193,930	\$1,213	\$147,251	\$154,140	\$34,439	\$32,767	\$11,026	\$7,023



COOK COUNTY, ILLINOIS
GENERAL LIABILITY

Summary Exhibit 21

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/21 (2)	Limited Reported Incurred Losses 11/30/22 (3)	Estimated Outstanding Losses 11/30/21 (6) - (9)	Estimated Outstanding Losses 11/30/22 (7) - (10)	Projected Ultimate Losses 11/30/21 (6)	Projected Ultimate Losses 11/30/22 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/21 (9)	Limited Paid Losses 11/30/22 (10)	Limited Case Reserves 11/30/21 (2) - (9) (11)	Limited Case Reserves 11/30/22 (3) - (10) (12)	Estimated IBNR 11/30/21 (4)-(11) (13)	Estimated IBNR 11/30/22 (5)-(12) (14)
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	29	18	488	477	(11)	459	459	15	15	14	3
12/1/2017	866	866	436	403	933	900	(33)	497	497	369	369	67	34
12/1/2018	423	331	437	234	518	384	(134)	81	150	341	181	95	53
12/1/2019	895	895	1,077	973	1,122	1,018	(104)	45	45	850	850	227	123
12/1/2020	254	3,456	611	4,449	640	4,500	3,860	29	51	225	3,405	386	1,044
12/1/2021		61		613	620	639	19		26		35		578
Total	\$13,157	\$16,328	\$2,693	\$6,794	\$14,570	\$18,167	\$3,597	\$11,257	\$11,373	\$1,900	\$4,955	\$793	\$1,839
Total (ex FY2022)	\$13,157	\$16,268	\$2,693	\$6,181	\$13,950	\$17,528	\$3,578	\$11,257	\$11,347	\$1,900	\$4,920	\$793	\$1,260



COOK COUNTY, ILLINOIS
AUTOMOBILE LIABILITY

Summary Exhibit 22

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/21 (2)	Limited Reported Incurred Losses 11/30/22 (3)	Estimated Outstanding Losses 11/30/21 (6) - (9) (4)	Estimated Outstanding Losses 11/30/22 (7) - (10) (5)	Projected Ultimate Losses 11/30/21 (6)	Projected Ultimate Losses 11/30/22 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/21 (9)	Limited Paid Losses 11/30/22 (10)	Limited Case Reserves 11/30/21 (2) - (9) (11)	Limited Case Reserves 11/30/22 (3) - (10) (12)	Estimated IBNR 11/30/21 (4)-(11) (13)	Estimated IBNR 11/30/22 (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	17	0	1,527	1,520	(7)	1,510	1,520	10	0	7	0
12/1/2016	1,529	1,529	1,081	0	1,560	1,529	(31)	479	1,529	1,050	0	31	0
12/1/2017	10,490	8,990	10,511	321	10,750	9,060	(1,690)	239	8,739	10,251	251	260	70
12/1/2018	752	1,122	831	1,011	1,020	1,220	200	189	209	563	913	268	98
12/1/2019	190	176	795	324	880	440	(440)	85	116	105	60	690	264
12/1/2020	275	413	1,575	1,032	1,600	1,130	(470)	25	98	250	316	1,325	717
12/1/2021		133		1,517	2,018	1,550	(468)		33		100		1,417
Total	\$46,924	\$46,051	\$14,810	\$4,206	\$51,523	\$48,618	(\$2,906)	\$34,695	\$44,411	\$12,229	\$1,639	\$2,581	\$2,567
Total (ex FY2022)	\$46,924	\$45,918	\$14,810	\$2,689	\$49,505	\$47,068	(\$2,438)	\$34,695	\$44,379	\$12,229	\$1,539	\$2,581	\$1,150



COOK COUNTY, ILLINOIS
LAW ENFORCEMENT 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 11/30/21 (2)	Limited Reported Incurred Losses 11/30/22 (3)	Estimated Outstanding Losses 11/30/21 (6) - (9)	Estimated Outstanding Losses 11/30/22 (7) - (10)	Projected Ultimate Losses 11/30/21 (6)	Projected Ultimate Losses 11/30/22 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/21 (9)	Limited Paid Losses 11/30/22 (10)	Limited Case Reserves 11/30/21 (2) - (9) (11)	Limited Case Reserves 11/30/22 (3) - (10) (12)	Estimated IBNR 11/30/21 (4)-(11) (13)	Estimated IBNR 11/30/22 (5)-(12) (14)
Prior	\$39,622	\$59,722	\$42,478	\$56,178	\$45,000	\$69,900	\$24,900	\$2,522	\$13,722	\$37,100	\$46,000	\$5,378	\$10,178
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	1,421	59	59	1,430	1,430	0	1,371	1,371	50	50	9	9
12/1/2005	5,159	5,159	2,651	2,651	5,310	5,310	0	2,659	2,659	2,500	2,500	151	151
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	13,297	1,268	1,268	13,565	13,565	0	12,297	12,297	1,000	1,000	268	268
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	8,332	6,671	6,671	10,000	10,000	0	3,329	3,329	5,003	5,003	1,668	1,668
12/1/2012	11,696	11,696	3,435	3,135	13,000	12,700	(300)	9,565	9,565	2,131	2,131	1,304	1,004
12/1/2013	27,485	29,979	20,025	22,771	30,000	33,000	3,000	9,975	10,229	17,510	19,750	2,515	3,021
12/1/2014	6,194	6,104	4,456	3,756	8,000	7,600	(400)	3,544	3,844	2,650	2,260	1,806	1,496
12/1/2015	13,808	14,983	12,161	11,944	16,500	17,600	1,100	4,339	5,656	9,469	9,328	2,692	2,617
12/1/2016	12,154	12,695	8,919	7,615	17,000	16,000	(1,000)	8,081	8,385	4,072	4,310	4,846	3,305
12/1/2017	8,294	8,451	13,581	11,386	15,000	14,000	(1,000)	1,419	2,614	6,876	5,837	6,706	5,549
12/1/2018	19,637	6,618	28,746	11,515	29,000	14,000	(15,000)	254	2,485	19,383	4,133	9,363	7,382
12/1/2019	18,595	20,526	33,956	31,869	34,000	33,000	(1,000)	44	1,131	18,551	19,395	15,405	12,474
12/1/2020	2,169	10,269	20,000	22,938	20,000	25,000	5,000	0	2,062	2,169	8,208	17,831	14,731
12/1/2021		1,604		21,000	21,000	21,000	0		0		1,604		19,396
Total	\$291,776	\$314,770	\$202,721	\$219,073	\$382,933	\$398,233	\$15,300	\$159,213	\$179,160	\$132,563	\$135,609	\$70,157	\$83,464
Total (ex FY2022)	\$291,776	\$313,166	\$202,721	\$198,073	\$361,933	\$377,233	\$15,300	\$159,213	\$179,160	\$132,563	\$134,005	\$70,157	\$64,068



COOK COUNTY, ILLINOIS
OTHER LIABILITY

Summary Exhibit 24

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

Losses Limited to Actual Retention

Claim Period (1)	Limited Reported Incurred Losses 11/30/21 (2)	Limited Reported Incurred Losses 11/30/22 (3)	Estimated Outstanding Losses 11/30/21 (6) - (9) (4)	Estimated Outstanding Losses 11/30/22 (7) - (10) (5)	Projected Ultimate Limited Losses 11/30/21 (6)	Projected Ultimate Limited Losses 11/30/22 (7)	Change in Ultimate (7) - (6) (8)	Limited Paid Losses 11/30/21 (9)	Limited Paid Losses 11/30/22 (10)	Limited Case Reserves 11/30/21 (2) - (9) (11)	Limited Case Reserves 11/30/22 (3) - (10) (12)	Estimated IBNR 11/30/21 (4)-(11) (13)	Estimated IBNR 11/30/22 (5)-(12) (14)
Prior	\$96,113	\$96,113	\$0	\$0	\$96,113	\$96,113	\$0	\$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	11,044	276	266	11,120	11,110	(10)	10,844	10,844	200	200	76	66
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	3,729	3,719	10,700	10,690	(10)	6,971	6,971	3,622	3,622	107	97
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	5,413	8,013	3,641	641	5,600	8,200	2,600	1,959	7,559	3,455	455	187	187
12/1/2011	4,766	2,766	2,270	270	5,000	3,000	(2,000)	2,730	2,730	2,036	36	234	234
12/1/2012	6,199	5,929	5,381	4,951	6,600	6,200	(400)	1,219	1,249	4,980	4,680	401	271
12/1/2013	6,179	6,179	5,948	5,748	6,900	6,700	(200)	952	952	5,227	5,227	721	521
12/1/2014	17,339	17,329	3,620	2,681	19,200	19,000	(200)	15,580	16,319	1,759	1,010	1,861	1,671
12/1/2015	13,287	10,132	12,433	9,878	14,400	11,970	(2,430)	1,967	2,092	11,320	8,040	1,113	1,838
12/1/2016	6,824	6,857	9,140	8,512	9,400	8,800	(600)	260	288	6,564	6,569	2,576	1,943
12/1/2017	9,339	11,682	8,852	8,174	13,400	14,500	1,100	4,548	6,326	4,791	5,356	4,061	2,818
12/1/2018	3,006	3,146	8,693	6,523	10,000	8,000	(2,000)	1,307	1,477	1,699	1,669	6,994	4,854
12/1/2019	840	6,066	10,886	10,670	11,000	11,000	0	114	330	726	5,736	10,160	4,934
12/1/2020	745	1,277	14,000	12,948	14,000	13,000	(1,000)	0	52	745	1,225	13,255	11,723
12/1/2021		1,093		14,950	16,600	15,800	(800)		850		243		14,708
Total	\$238,193	\$244,724	\$89,059	\$90,120	\$296,627	\$290,677	(\$5,950)	\$190,968	\$200,557	\$47,224	\$44,167	\$41,834	\$45,953
Total (ex FY2022)	\$238,193	\$243,632	\$89,059	\$75,170	\$280,027	\$274,877	(\$5,150)	\$190,968	\$199,707	\$47,224	\$43,925	\$41,834	\$31,245



**Cook County, Illinois
Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/22
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	56,101,024	52,045,417	4,055,607	418,976	4,474,583	56,520,000	
1-Dec-01	4,348,459	9,500,000	490	1	1,210,535	1,187,430	23,105	4,465	27,570	1,215,000	0.28
1-Dec-02	4,411,415	9,500,000	514	2	3,276,774	3,023,819	252,955	13,226	266,181	3,290,000	0.75
1-Dec-03	4,536,443	Various	593	1	1,952,034	1,871,417	80,617	8,966	89,583	1,961,000	0.43
1-Dec-04	4,587,757	Unlimited	518	1	2,815,860	2,562,536	253,324	54,140	307,464	2,870,000	0.63
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	-	8,012	8,012	2,095,000	0.47
1-Dec-07	4,456,640	Unlimited	274	1	1,974,447	1,930,265	44,182	20,554	64,735	1,995,000	0.45
1-Dec-08	5,016,244	Unlimited	280	4	2,135,443	2,076,043	59,400	24,557	83,957	2,160,000	0.43
1-Dec-09	5,265,352	Unlimited	214	7	2,620,474	2,247,604	372,871	79,526	452,396	2,700,000	0.51
1-Dec-10	4,890,532	Unlimited	202	5	2,008,480	1,939,420	69,060	41,520	110,580	2,050,000	0.42
1-Dec-11	5,150,838	Unlimited	169	6	2,376,899	2,209,588	167,310	63,101	230,412	2,440,000	0.47
1-Dec-12	4,827,828	Unlimited	143	4	3,752,544	3,235,348	517,196	137,456	654,652	3,890,000	0.81
1-Dec-13	4,827,828	Unlimited	158	5	3,236,336	2,509,186	727,151	93,664	820,815	3,330,000	0.69
1-Dec-14	4,684,830	Unlimited	158	9	1,706,340	1,514,566	191,774	103,660	295,434	1,810,000	0.39
1-Dec-15	4,970,309	Unlimited	176	6	2,440,996	2,239,629	201,366	179,004	380,371	2,620,000	0.53
1-Dec-16	5,291,126	Unlimited	167	13	2,818,034	2,214,745	603,288	271,966	875,255	3,090,000	0.58
1-Dec-17	5,390,504	Unlimited	180	12	2,351,503	1,601,669	749,834	428,497	1,178,331	2,780,000	0.52
1-Dec-18	5,802,830	Unlimited	159	20	3,916,493	1,735,765	2,180,728	683,507	2,864,235	4,600,000	0.79
1-Dec-19	5,241,633	Unlimited	222	41	2,552,597	1,057,054	1,495,543	947,403	2,442,946	3,500,000	0.67
1-Dec-20	5,918,294	Unlimited	171	34	3,160,177	1,022,271	2,137,906	1,539,823	3,677,729	4,700,000	0.79
1-Dec-21	6,312,408	Unlimited	171	89	1,926,287	464,484	1,461,803	2,373,713	3,835,516	4,300,000	0.68
Total	105,057,974		13,201	276	108,159,613	92,514,593	15,645,020	7,495,734	23,140,754	115,655,346	0.56

Full Policy Period Projections

1-Dec-22	5,897,102	Unlimited								3,800,000	0.64
1-Dec-23	6,059,237	Unlimited								3,900,000	0.65



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

**Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/22
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	\$ 56,213,053	\$ 52,560,619	\$ 57,136,036	N/A	N/A	N/A	N/A	\$ 56,213,053	\$ 56,520,000
1-Dec-01	\$ 1,213,163	\$ 1,200,266	\$ 1,216,403	\$ 1,215,135	\$ 1,210,144	\$ 1,214,881	\$ 1,207,898	\$ 1,213,163	\$ 1,215,000
1-Dec-02	\$ 3,287,138	\$ 3,059,532	\$ 3,370,377	\$ 3,283,666	\$ 3,049,336	\$ 3,283,621	\$ 3,047,934	\$ 3,287,138	\$ 3,290,000
1-Dec-03	\$ 1,960,229	\$ 1,895,638	\$ 1,991,237	\$ 1,961,596	\$ 1,900,642	\$ 1,961,324	\$ 1,898,477	\$ 1,960,229	\$ 1,961,000
1-Dec-04	\$ 2,830,509	\$ 2,600,894	\$ 2,952,819	\$ 2,827,976	\$ 2,597,062	\$ 2,827,559	\$ 2,594,308	\$ 2,830,509	\$ 2,870,000
1-Dec-05	\$ 1,750,143	\$ 1,770,678	\$ 1,739,346	\$ 1,754,186	\$ 1,781,910	\$ 1,753,226	\$ 1,777,460	\$ 1,750,143	\$ 1,739,346
1-Dec-06	\$ 2,102,043	\$ 2,130,955	\$ 2,086,988	\$ 2,103,843	\$ 2,135,546	\$ 2,102,615	\$ 2,130,095	\$ 2,102,043	\$ 2,095,000
1-Dec-07	\$ 1,990,678	\$ 1,978,814	\$ 1,996,439	\$ 1,993,859	\$ 1,988,676	\$ 1,992,351	\$ 1,981,586	\$ 1,990,678	\$ 1,995,000
1-Dec-08	\$ 2,157,304	\$ 2,136,772	\$ 2,168,359	\$ 2,162,881	\$ 2,152,997	\$ 2,160,826	\$ 2,143,284	\$ 2,157,304	\$ 2,160,000
1-Dec-09	\$ 2,652,595	\$ 2,322,604	\$ 2,844,194	\$ 2,654,856	\$ 2,339,290	\$ 2,652,797	\$ 2,328,022	\$ 2,652,595	\$ 2,700,000
1-Dec-10	\$ 2,040,206	\$ 2,012,153	\$ 2,060,620	\$ 2,047,628	\$ 2,030,419	\$ 2,045,907	\$ 2,020,091	\$ 2,040,206	\$ 2,050,000
1-Dec-11	\$ 2,424,294	\$ 2,326,840	\$ 2,482,959	\$ 2,429,756	\$ 2,345,828	\$ 2,429,013	\$ 2,332,839	\$ 2,424,294	\$ 2,440,000
1-Dec-12	\$ 3,850,335	\$ 3,470,207	\$ 4,063,223	\$ 3,818,075	\$ 3,409,969	\$ 3,819,798	\$ 3,397,519	\$ 3,850,335	\$ 3,890,000
1-Dec-13	\$ 3,340,598	\$ 2,745,157	\$ 3,650,864	\$ 3,318,637	\$ 2,735,857	\$ 3,320,914	\$ 2,716,918	\$ 3,340,598	\$ 3,330,000
1-Dec-14	\$ 1,787,731	\$ 1,719,966	\$ 1,824,496	\$ 1,825,048	\$ 1,825,944	\$ 1,825,914	\$ 1,791,963	\$ 1,787,731	\$ 1,810,000
1-Dec-15	\$ 2,608,578	\$ 2,670,527	\$ 2,574,208	\$ 2,622,565	\$ 2,695,662	\$ 2,625,027	\$ 2,642,282	\$ 2,608,578	\$ 2,620,000
1-Dec-16	\$ 3,086,787	\$ 2,826,627	\$ 3,223,936	\$ 3,084,809	\$ 2,878,027	\$ 3,092,606	\$ 2,790,209	\$ 3,083,704	\$ 3,090,000
1-Dec-17	\$ 2,731,446	\$ 2,238,367	\$ 3,069,103	\$ 2,795,179	\$ 2,508,950	\$ 2,817,121	\$ 2,366,787	\$ 2,725,992	\$ 2,780,000
1-Dec-18	\$ 4,896,019	\$ 2,762,144	\$ 6,460,128	\$ 4,616,988	\$ 3,036,814	\$ 4,683,032	\$ 2,812,977	\$ 4,881,361	\$ 4,600,000
1-Dec-19	\$ 3,573,928	\$ 2,064,211	\$ 4,666,891	\$ 3,472,197	\$ 2,627,133	\$ 3,577,642	\$ 2,331,788	\$ 3,573,517	\$ 3,500,000
1-Dec-20	\$ 5,185,207	\$ 2,769,435	\$ 6,634,249	\$ 4,596,311	\$ 3,342,185	\$ 4,801,079	\$ 2,892,589	\$ 5,178,917	\$ 4,700,000
1-Dec-21	\$ 4,974,894	\$ 2,831,251	\$ 5,940,664	\$ 4,364,798	\$ 3,790,958	\$ 4,729,103	\$ 3,134,942	\$ 4,930,551	\$ 4,300,000
Total	\$ 116,656,878	\$ 102,093,658	\$ 124,153,539	\$ 58,949,990	\$ 52,383,349	\$ 59,716,355	\$ 50,339,967	\$ 116,582,637	\$ 115,655,346

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 @ 11/30/22
Unpaid Liabilities at Various Discount Rates
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.13%
Prior	264	Various	\$ 56,520,000	\$ 56,101,024	\$ 52,045,417	\$ 4,055,607	\$ 418,976	\$ 4,474,583	\$ 3,917,007
1-Dec-01	252	\$ 9,500,000	\$ 1,215,000	\$ 1,210,535	\$ 1,187,430	\$ 23,105	\$ 4,465	\$ 27,570	\$ 23,498
1-Dec-02	240	\$ 9,500,000	\$ 3,290,000	\$ 3,276,774	\$ 3,023,819	\$ 252,955	\$ 13,226	\$ 266,181	\$ 221,470
1-Dec-03	228	Various	\$ 1,961,000	\$ 1,952,034	\$ 1,871,417	\$ 80,617	\$ 8,966	\$ 89,583	\$ 72,832
1-Dec-04	216	Unlimited	\$ 2,870,000	\$ 2,815,860	\$ 2,562,536	\$ 253,324	\$ 54,140	\$ 307,464	\$ 248,242
1-Dec-05	204	Unlimited	\$ 1,739,346	\$ 1,739,346	\$ 1,739,346	\$ -	\$ -	\$ -	\$ -
1-Dec-06	192	Unlimited	\$ 2,095,000	\$ 2,086,988	\$ 2,086,988	\$ -	\$ 8,012	\$ 8,012	\$ 6,459
1-Dec-07	180	Unlimited	\$ 1,995,000	\$ 1,974,447	\$ 1,930,265	\$ 44,182	\$ 20,554	\$ 64,735	\$ 52,238
1-Dec-08	168	Unlimited	\$ 2,160,000	\$ 2,135,443	\$ 2,076,043	\$ 59,400	\$ 24,557	\$ 83,957	\$ 67,416
1-Dec-09	156	Unlimited	\$ 2,700,000	\$ 2,620,474	\$ 2,247,604	\$ 372,871	\$ 79,526	\$ 452,396	\$ 360,184
1-Dec-10	144	Unlimited	\$ 2,050,000	\$ 2,008,480	\$ 1,939,420	\$ 69,060	\$ 41,520	\$ 110,580	\$ 87,089
1-Dec-11	132	Unlimited	\$ 2,440,000	\$ 2,376,899	\$ 2,209,588	\$ 167,310	\$ 63,101	\$ 230,412	\$ 188,834
1-Dec-12	120	Unlimited	\$ 3,890,000	\$ 3,752,544	\$ 3,235,348	\$ 517,196	\$ 137,456	\$ 654,652	\$ 547,502
1-Dec-13	108	Unlimited	\$ 3,330,000	\$ 3,236,336	\$ 2,509,186	\$ 727,151	\$ 93,664	\$ 820,815	\$ 690,108
1-Dec-14	96	Unlimited	\$ 1,810,000	\$ 1,706,340	\$ 1,514,566	\$ 191,774	\$ 103,660	\$ 295,434	\$ 252,822
1-Dec-15	84	Unlimited	\$ 2,620,000	\$ 2,440,996	\$ 2,239,629	\$ 201,366	\$ 179,004	\$ 380,371	\$ 328,230
1-Dec-16	72	Unlimited	\$ 3,090,000	\$ 2,818,034	\$ 2,214,745	\$ 603,288	\$ 271,966	\$ 875,255	\$ 759,033
1-Dec-17	60	Unlimited	\$ 2,780,000	\$ 2,351,503	\$ 1,601,669	\$ 749,834	\$ 428,497	\$ 1,178,331	\$ 1,022,774
1-Dec-18	48	Unlimited	\$ 4,600,000	\$ 3,916,493	\$ 1,735,765	\$ 2,180,728	\$ 683,507	\$ 2,864,235	\$ 2,485,850
1-Dec-19	36	Unlimited	\$ 3,500,000	\$ 2,552,597	\$ 1,057,054	\$ 1,495,543	\$ 947,403	\$ 2,442,946	\$ 2,121,450
1-Dec-20	24	Unlimited	\$ 4,700,000	\$ 3,160,177	\$ 1,022,271	\$ 2,137,906	\$ 1,539,823	\$ 3,677,729	\$ 3,188,752
1-Dec-21	12	Unlimited	\$ 4,300,000	\$ 1,926,287	\$ 464,484	\$ 1,461,803	\$ 2,373,713	\$ 3,835,516	\$ 3,332,271
Total			\$ 115,655,346	\$ 108,159,613	\$ 92,514,593	\$ 15,645,020	\$ 7,495,734	\$ 23,140,754	\$ 19,974,600

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 (10) : Column (9) discounted



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

**Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/22
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	264	\$ 56,101,024	1.002	\$ 56,213,053	\$ 52,045,417	1.010	\$ 52,560,619	\$ 4,055,607	1.255	\$ 57,136,036
1-Dec-01	252	\$ 1,210,535	1.002	\$ 1,213,163	\$ 1,187,430	1.011	\$ 1,200,266	\$ 23,105	1.254	\$ 1,216,403
1-Dec-02	240	\$ 3,276,774	1.003	\$ 3,287,138	\$ 3,023,819	1.012	\$ 3,059,532	\$ 252,955	1.370	\$ 3,370,377
1-Dec-03	228	\$ 1,952,034	1.004	\$ 1,960,229	\$ 1,871,417	1.013	\$ 1,895,638	\$ 80,617	1.486	\$ 1,991,237
1-Dec-04	216	\$ 2,815,860	1.005	\$ 2,830,509	\$ 2,562,536	1.015	\$ 2,600,894	\$ 253,324	1.541	\$ 2,952,819
1-Dec-05	204	\$ 1,739,346	1.006	\$ 1,750,143	\$ 1,739,346	1.018	\$ 1,770,678	\$ -	1.535	\$ 1,739,346
1-Dec-06	192	\$ 2,086,988	1.007	\$ 2,102,043	\$ 2,086,988	1.021	\$ 2,130,955	\$ -	1.532	\$ 2,086,988
1-Dec-07	180	\$ 1,974,447	1.008	\$ 1,990,678	\$ 1,930,265	1.025	\$ 1,978,814	\$ 44,182	1.498	\$ 1,996,439
1-Dec-08	168	\$ 2,135,443	1.010	\$ 2,157,304	\$ 2,076,043	1.029	\$ 2,136,772	\$ 59,400	1.554	\$ 2,168,359
1-Dec-09	156	\$ 2,620,474	1.012	\$ 2,652,595	\$ 2,247,604	1.033	\$ 2,322,604	\$ 372,871	1.600	\$ 2,844,194
1-Dec-10	144	\$ 2,008,480	1.016	\$ 2,040,206	\$ 1,939,420	1.038	\$ 2,012,153	\$ 69,060	1.755	\$ 2,060,620
1-Dec-11	132	\$ 2,376,899	1.020	\$ 2,424,294	\$ 2,209,588	1.053	\$ 2,326,840	\$ 167,310	1.634	\$ 2,482,959
1-Dec-12	120	\$ 3,752,544	1.026	\$ 3,850,335	\$ 3,235,348	1.073	\$ 3,470,207	\$ 517,196	1.601	\$ 4,063,223
1-Dec-13	108	\$ 3,236,336	1.032	\$ 3,340,598	\$ 2,509,186	1.094	\$ 2,745,157	\$ 727,151	1.570	\$ 3,650,864
1-Dec-14	96	\$ 1,706,340	1.048	\$ 1,787,731	\$ 1,514,566	1.136	\$ 1,719,966	\$ 191,774	1.616	\$ 1,824,496
1-Dec-15	84	\$ 2,440,996	1.069	\$ 2,608,578	\$ 2,239,629	1.192	\$ 2,670,527	\$ 201,366	1.662	\$ 2,574,208
1-Dec-16	72	\$ 2,818,034	1.095	\$ 3,086,787	\$ 2,214,745	1.276	\$ 2,826,627	\$ 603,288	1.673	\$ 3,223,936
1-Dec-17	60	\$ 2,351,503	1.162	\$ 2,731,446	\$ 1,601,669	1.398	\$ 2,238,367	\$ 749,834	1.957	\$ 3,069,103
1-Dec-18	48	\$ 3,916,493	1.250	\$ 4,896,019	\$ 1,735,765	1.591	\$ 2,762,144	\$ 2,180,728	2.166	\$ 6,460,128
1-Dec-19	36	\$ 2,552,597	1.400	\$ 3,573,928	\$ 1,057,054	1.953	\$ 2,064,211	\$ 1,495,543	2.414	\$ 4,666,891
1-Dec-20	24	\$ 3,160,177	1.641	\$ 5,185,207	\$ 1,022,271	2.709	\$ 2,769,435	\$ 2,137,906	2.625	\$ 6,634,249
1-Dec-21	12	\$ 1,926,287	2.583	\$ 4,974,894	\$ 464,484	6.095	\$ 2,831,251	\$ 1,461,803	3.746	\$ 5,940,664
Total		\$ 108,159,613		\$ 116,656,878	\$ 92,514,593		\$ 102,093,658	\$ 15,645,020		\$ 124,153,539

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 @ 11/30/22
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	252	\$ 1,210,535	2.330	1.000	\$ 2,821,819	7,853,801	1.002	0.60	\$ 2,006,711	\$ 1,214,881
1-Dec-02	240	\$ 3,276,774	2.230	1.000	\$ 7,309,405	7,735,444	1.003	0.63	\$ 2,171,565	\$ 3,283,621
1-Dec-03	228	\$ 1,952,034	2.134	1.000	\$ 4,165,153	7,741,828	1.004	0.61	\$ 2,222,310	\$ 1,961,324
1-Dec-04	216	\$ 2,815,860	2.042	1.000	\$ 5,749,610	7,582,864	1.005	0.61	\$ 2,260,532	\$ 2,827,559
1-Dec-05	204	\$ 1,739,346	1.954	1.000	\$ 3,398,577	7,455,768	1.006	0.59	\$ 2,249,817	\$ 1,753,226
1-Dec-06	192	\$ 2,086,988	1.870	1.000	\$ 3,902,246	6,980,493	1.007	0.58	\$ 2,181,963	\$ 2,102,615
1-Dec-07	180	\$ 1,974,447	1.789	1.000	\$ 3,532,838	6,757,510	1.008	0.58	\$ 2,195,814	\$ 1,992,351
1-Dec-08	168	\$ 2,135,443	1.715	1.000	\$ 3,662,426	7,366,524	1.010	0.58	\$ 2,504,802	\$ 2,160,826
1-Dec-09	156	\$ 2,620,474	1.667	1.000	\$ 4,367,692	7,507,132	1.012	0.59	\$ 2,669,215	\$ 2,652,797
1-Dec-10	144	\$ 2,008,480	1.695	1.000	\$ 3,404,713	6,769,640	1.016	0.60	\$ 2,406,795	\$ 2,045,907
1-Dec-11	132	\$ 2,376,899	1.618	1.000	\$ 3,845,759	6,939,179	1.020	0.62	\$ 2,665,642	\$ 2,429,013
1-Dec-12	120	\$ 3,752,544	1.539	1.000	\$ 5,775,375	6,299,220	1.026	0.65	\$ 2,647,991	\$ 3,819,798
1-Dec-13	108	\$ 3,236,336	1.462	1.000	\$ 4,731,619	6,115,748	1.032	0.65	\$ 2,709,914	\$ 3,320,914
1-Dec-14	96	\$ 1,706,340	1.393	1.000	\$ 2,376,976	5,761,750	1.048	0.63	\$ 2,626,423	\$ 1,825,914
1-Dec-15	84	\$ 2,440,996	1.327	1.000	\$ 3,239,102	5,949,284	1.069	0.64	\$ 2,864,631	\$ 2,625,027
1-Dec-16	72	\$ 2,818,034	1.262	1.000	\$ 3,556,261	6,133,866	1.095	0.65	\$ 3,153,614	\$ 3,092,606
1-Dec-17	60	\$ 2,351,503	1.199	1.000	\$ 2,819,656	6,067,060	1.162	0.66	\$ 3,347,369	\$ 2,817,121
1-Dec-18	48	\$ 3,916,493	1.142	1.000	\$ 4,471,248	6,340,909	1.250	0.69	\$ 3,831,434	\$ 4,683,032
1-Dec-19	36	\$ 2,552,597	1.092	1.000	\$ 2,787,500	5,574,411	1.400	0.70	\$ 3,586,926	\$ 3,577,642
1-Dec-20	24	\$ 3,160,177	1.045	1.000	\$ 3,302,385	6,095,843	1.641	0.72	\$ 4,201,623	\$ 4,801,079
1-Dec-21	12	\$ 1,926,287	1.000	1.000	\$ 1,926,287	6,312,408	2.583	0.72	\$ 4,573,799	\$ 4,729,103
Total		\$ 52,058,589			\$ 81,146,647	141,340,682			\$ 59,078,891	\$ 59,716,355

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	252	\$ 1,187,430	2.330	1.000	\$ 2,767,960	7,853,801	1.011	0.57	\$ 1,913,977	\$ 1,207,898
1-Dec-02	240	\$ 3,023,819	2.230	1.000	\$ 6,745,145	7,735,444	1.012	0.60	\$ 2,065,958	\$ 3,047,934
1-Dec-03	228	\$ 1,871,417	2.134	1.000	\$ 3,993,137	7,741,828	1.013	0.58	\$ 2,117,764	\$ 1,898,477
1-Dec-04	216	\$ 2,562,536	2.042	1.000	\$ 5,232,356	7,582,864	1.015	0.58	\$ 2,154,348	\$ 2,594,308
1-Dec-05	204	\$ 1,739,346	1.954	1.000	\$ 3,398,577	7,455,768	1.018	0.56	\$ 2,153,935	\$ 1,777,460
1-Dec-06	192	\$ 2,086,988	1.870	1.000	\$ 3,902,246	6,980,493	1.021	0.56	\$ 2,089,267	\$ 2,130,095
1-Dec-07	180	\$ 1,930,265	1.789	1.000	\$ 3,453,785	6,757,510	1.025	0.55	\$ 2,091,802	\$ 1,981,586
1-Dec-08	168	\$ 2,076,043	1.715	1.000	\$ 3,560,551	7,366,524	1.029	0.55	\$ 2,365,887	\$ 2,143,284
1-Dec-09	156	\$ 2,247,604	1.667	1.000	\$ 3,746,207	7,507,132	1.033	0.55	\$ 2,490,363	\$ 2,328,022
1-Dec-10	144	\$ 1,939,420	1.695	1.000	\$ 3,287,644	6,769,640	1.038	0.56	\$ 2,231,751	\$ 2,020,091
1-Dec-11	132	\$ 2,209,588	1.618	1.000	\$ 3,575,055	6,939,179	1.053	0.57	\$ 2,445,878	\$ 2,332,839
1-Dec-12	120	\$ 3,235,348	1.539	1.000	\$ 4,979,382	6,299,220	1.073	0.59	\$ 2,396,195	\$ 3,397,519
1-Dec-13	108	\$ 2,509,186	1.462	1.000	\$ 3,668,503	6,115,748	1.094	0.58	\$ 2,416,647	\$ 2,716,918
1-Dec-14	96	\$ 1,514,566	1.393	1.000	\$ 2,109,831	5,761,750	1.136	0.56	\$ 2,322,849	\$ 1,791,963
1-Dec-15	84	\$ 2,239,629	1.327	1.000	\$ 2,971,897	5,949,284	1.192	0.56	\$ 2,495,473	\$ 2,642,282
1-Dec-16	72	\$ 2,214,745	1.262	1.000	\$ 2,794,932	6,133,866	1.276	0.55	\$ 2,658,389	\$ 2,790,209
1-Dec-17	60	\$ 1,601,669	1.199	1.000	\$ 1,920,540	6,067,060	1.398	0.53	\$ 2,689,836	\$ 2,366,787
1-Dec-18	48	\$ 1,735,765	1.142	1.000	\$ 1,981,629	6,340,909	1.591	0.52	\$ 2,898,944	\$ 2,812,977
1-Dec-19	36	\$ 1,057,054	1.092	1.000	\$ 1,154,330	5,574,411	1.953	0.51	\$ 2,612,623	\$ 2,331,788
1-Dec-20	24	\$ 1,022,271	1.045	1.000	\$ 1,068,273	6,095,843	2.709	0.51	\$ 2,964,647	\$ 2,892,589
1-Dec-21	12	\$ 464,484	1.000	1.000	\$ 464,484	6,312,408	6.095	0.51	\$ 3,194,542	\$ 3,134,942
Total		\$ 40,469,176			\$ 66,776,464	141,340,682			\$ 50,771,075	\$ 50,339,967

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	264	7,414	1.000	7,414	1.002	\$ 7,567	\$ 7,582	0	\$ 7,030	\$ 56,213,053
1-Dec-01	252	490	1.000	490	1.002	\$ 2,470	\$ 2,476	0	\$ 7,007	\$ 1,213,163
1-Dec-02	240	514	1.000	514	1.003	\$ 6,375	\$ 6,395	0	\$ 7,045	\$ 3,287,138
1-Dec-03	228	593	1.000	593	1.004	\$ 3,292	\$ 3,306	0	\$ 7,010	\$ 1,960,229
1-Dec-04	216	518	1.000	518	1.005	\$ 5,436	\$ 5,464	0	\$ 7,113	\$ 2,830,509
1-Dec-05	204	510	1.000	510	1.006	\$ 3,410	\$ 3,432	0	\$ 7,264	\$ 1,750,143
1-Dec-06	192	318	1.000	318	1.007	\$ 6,563	\$ 6,610	0	\$ 7,692	\$ 2,102,043
1-Dec-07	180	274	1.000	274	1.008	\$ 7,206	\$ 7,265	0	\$ 8,251	\$ 1,990,678
1-Dec-08	168	280	1.000	280	1.010	\$ 7,627	\$ 7,705	0	\$ 8,969	\$ 2,157,304
1-Dec-09	156	214	1.000	214	1.012	\$ 12,245	\$ 12,395	0	\$ 9,819	\$ 2,652,595
1-Dec-10	144	202	1.000	202	1.016	\$ 9,943	\$ 10,100	0	\$ 10,261	\$ 2,040,206
1-Dec-11	132	169	1.000	169	1.020	\$ 14,064	\$ 14,345	0	\$ 11,589	\$ 2,424,294
1-Dec-12	120	143	1.000	143	1.026	\$ 26,242	\$ 26,925	0	\$ 13,126	\$ 3,850,335
1-Dec-13	108	158	1.000	158	1.032	\$ 20,483	\$ 21,143	0	\$ 14,198	\$ 3,340,598
1-Dec-14	96	158	1.000	158	1.048	\$ 10,800	\$ 11,315	0	\$ 14,871	\$ 1,787,731
1-Dec-15	84	176	1.000	176	1.069	\$ 13,869	\$ 14,821	0	\$ 15,852	\$ 2,608,578
1-Dec-16	72	167	1.001	167	1.094	\$ 16,874	\$ 18,465	0	\$ 17,061	\$ 3,083,704
1-Dec-17	60	180	1.002	180	1.159	\$ 13,064	\$ 15,144	0	\$ 18,316	\$ 2,725,992
1-Dec-18	48	159	1.003	159	1.246	\$ 24,632	\$ 30,700	0	\$ 20,037	\$ 4,881,361
1-Dec-19	36	222	1.006	223	1.392	\$ 11,498	\$ 16,003	1	\$ 20,947	\$ 3,573,517
1-Dec-20	24	171	1.010	173	1.624	\$ 18,481	\$ 30,022	2	\$ 22,616	\$ 5,178,917
1-Dec-21	12	171	1.050	179	2.460	\$ 11,265	\$ 27,717	8	\$ 23,870	\$ 4,930,551
Total		13,201		13,212				11		\$ 116,582,637

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 @ 11/30/22
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	\$ 1,210,535	1.002	0.49	1.000	0.49	\$ 2,123,929	0.002	\$ 4,600	\$ 1,215,135
1-Dec-02	\$ 9,500,000	\$ 3,276,774	1.003	0.50	1.000	0.50	\$ 2,186,058	0.003	\$ 6,892	\$ 3,283,666
1-Dec-03	Various	\$ 1,952,034	1.004	0.50	1.000	0.50	\$ 2,287,241	0.004	\$ 9,562	\$ 1,961,596
1-Dec-04	Unlimited	\$ 2,815,860	1.005	0.51	1.000	0.51	\$ 2,341,089	0.005	\$ 12,116	\$ 2,827,976
1-Dec-05	Unlimited	\$ 1,739,346	1.006	0.52	1.000	0.52	\$ 2,405,434	0.006	\$ 14,839	\$ 1,754,186
1-Dec-06	Unlimited	\$ 2,086,988	1.007	0.53	1.000	0.53	\$ 2,353,441	0.007	\$ 16,855	\$ 2,103,843
1-Dec-07	Unlimited	\$ 1,974,447	1.008	0.53	1.000	0.53	\$ 2,380,785	0.008	\$ 19,412	\$ 1,993,859
1-Dec-08	Unlimited	\$ 2,135,443	1.010	0.54	1.000	0.54	\$ 2,707,658	0.010	\$ 27,438	\$ 2,162,881
1-Dec-09	Unlimited	\$ 2,620,474	1.012	0.54	1.000	0.54	\$ 2,839,318	0.012	\$ 34,382	\$ 2,654,856
1-Dec-10	Unlimited	\$ 2,008,480	1.016	0.51	1.000	0.51	\$ 2,517,472	0.016	\$ 39,147	\$ 2,047,628
1-Dec-11	Unlimited	\$ 2,376,899	1.020	0.52	1.000	0.52	\$ 2,703,639	0.020	\$ 52,857	\$ 2,429,756
1-Dec-12	Unlimited	\$ 3,752,544	1.026	0.53	1.000	0.53	\$ 2,580,147	0.025	\$ 65,530	\$ 3,818,075
1-Dec-13	Unlimited	\$ 3,236,336	1.032	0.55	1.000	0.55	\$ 2,636,971	0.031	\$ 82,301	\$ 3,318,637
1-Dec-14	Unlimited	\$ 1,706,340	1.048	0.56	1.000	0.56	\$ 2,607,396	0.046	\$ 118,708	\$ 1,825,048
1-Dec-15	Unlimited	\$ 2,440,996	1.069	0.57	1.000	0.57	\$ 2,826,306	0.064	\$ 181,569	\$ 2,622,565
1-Dec-16	Unlimited	\$ 2,818,034	1.095	0.58	1.000	0.58	\$ 3,064,071	0.087	\$ 266,776	\$ 3,084,809
1-Dec-17	Unlimited	\$ 2,351,503	1.162	0.59	1.000	0.59	\$ 3,189,625	0.139	\$ 443,676	\$ 2,795,179
1-Dec-18	Unlimited	\$ 3,916,493	1.250	0.60	1.000	0.60	\$ 3,501,322	0.200	\$ 700,495	\$ 4,616,988
1-Dec-19	Unlimited	\$ 2,552,597	1.400	0.61	1.000	0.61	\$ 3,217,943	0.286	\$ 919,600	\$ 3,472,197
1-Dec-20	Unlimited	\$ 3,160,177	1.641	0.62	1.000	0.62	\$ 3,677,303	0.391	\$ 1,436,133	\$ 4,596,311
1-Dec-21	Unlimited	\$ 1,926,287	2.583	0.63	1.000	0.63	\$ 3,979,304	0.613	\$ 2,438,510	\$ 4,364,798
Total		\$ 52,058,589					\$ 58,126,454		\$ 6,891,402	\$ 58,949,990

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 @ 11/30/22
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	1.011	0.49	1.000	0.49	\$ 2,123,929	0.011	\$ 22,714	\$ 1,210,144
1-Dec-02	\$ 9,500,000	\$ 3,023,819	1.012	0.50	1.000	0.50	\$ 2,186,058	0.012	\$ 25,517	\$ 3,049,336
1-Dec-03	Various	\$ 1,871,417	1.013	0.50	1.000	0.50	\$ 2,287,241	0.013	\$ 29,225	\$ 1,900,642
1-Dec-04	Unlimited	\$ 2,562,536	1.015	0.51	1.000	0.51	\$ 2,341,089	0.015	\$ 34,526	\$ 2,597,062
1-Dec-05	Unlimited	\$ 1,739,346	1.018	0.52	1.000	0.52	\$ 2,405,434	0.018	\$ 42,563	\$ 1,781,910
1-Dec-06	Unlimited	\$ 2,086,988	1.021	0.53	1.000	0.53	\$ 2,353,441	0.021	\$ 48,558	\$ 2,135,546
1-Dec-07	Unlimited	\$ 1,930,265	1.025	0.53	1.000	0.53	\$ 2,380,785	0.025	\$ 58,411	\$ 1,988,676
1-Dec-08	Unlimited	\$ 2,076,043	1.029	0.54	1.000	0.54	\$ 2,707,658	0.028	\$ 76,954	\$ 2,152,997
1-Dec-09	Unlimited	\$ 2,247,604	1.033	0.54	1.000	0.54	\$ 2,839,318	0.032	\$ 91,686	\$ 2,339,290
1-Dec-10	Unlimited	\$ 1,939,420	1.038	0.51	1.000	0.51	\$ 2,517,472	0.036	\$ 90,999	\$ 2,030,419
1-Dec-11	Unlimited	\$ 2,209,588	1.053	0.52	1.000	0.52	\$ 2,703,639	0.050	\$ 136,239	\$ 2,345,828
1-Dec-12	Unlimited	\$ 3,235,348	1.073	0.53	1.000	0.53	\$ 2,580,147	0.068	\$ 174,620	\$ 3,409,969
1-Dec-13	Unlimited	\$ 2,509,186	1.094	0.55	1.000	0.55	\$ 2,636,971	0.086	\$ 226,672	\$ 2,735,857
1-Dec-14	Unlimited	\$ 1,514,566	1.136	0.56	1.000	0.56	\$ 2,607,396	0.119	\$ 311,378	\$ 1,825,944
1-Dec-15	Unlimited	\$ 2,239,629	1.192	0.57	1.000	0.57	\$ 2,826,306	0.161	\$ 456,033	\$ 2,695,662
1-Dec-16	Unlimited	\$ 2,214,745	1.276	0.58	1.000	0.58	\$ 3,064,071	0.216	\$ 663,282	\$ 2,878,027
1-Dec-17	Unlimited	\$ 1,601,669	1.398	0.59	1.000	0.59	\$ 3,189,625	0.284	\$ 907,282	\$ 2,508,950
1-Dec-18	Unlimited	\$ 1,735,765	1.591	0.60	1.000	0.60	\$ 3,501,322	0.372	\$ 1,301,048	\$ 3,036,814
1-Dec-19	Unlimited	\$ 1,057,054	1.953	0.61	1.000	0.61	\$ 3,217,943	0.488	\$ 1,570,078	\$ 2,627,133
1-Dec-20	Unlimited	\$ 1,022,271	2.709	0.62	1.000	0.62	\$ 3,677,303	0.631	\$ 2,319,915	\$ 3,342,185
1-Dec-21	Unlimited	\$ 464,484	6.095	0.63	1.000	0.63	\$ 3,979,304	0.836	\$ 3,326,474	\$ 3,790,958
Total		\$ 40,469,176					\$ 58,126,454		\$ 11,914,173	\$ 52,383,349

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 - Health Care Facilities (Indemnity)**

**Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/22
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) Payroll (in 00s)
	Unlimited	Limited	Unlimited	Limited		Loss	Exposure	
Prior	1.002	1.002	1.010	1.010	1.000	2.435	1.837	-
1-Dec-01	1.002	1.002	1.011	1.011	1.000	2.330	1.806	4,348,459
1-Dec-02	1.003	1.003	1.012	1.012	1.000	2.230	1.754	4,411,415
1-Dec-03	1.004	1.004	1.013	1.013	1.000	2.134	1.707	4,536,443
1-Dec-04	1.005	1.005	1.015	1.015	1.000	2.042	1.653	4,587,757
1-Dec-05	1.006	1.006	1.018	1.018	1.000	1.954	1.605	4,646,188
1-Dec-06	1.007	1.007	1.021	1.021	1.000	1.870	1.558	4,480,513
1-Dec-07	1.008	1.008	1.025	1.025	1.000	1.789	1.516	4,456,640
1-Dec-08	1.010	1.010	1.029	1.029	1.000	1.715	1.469	5,016,244
1-Dec-09	1.012	1.012	1.033	1.033	1.000	1.667	1.426	5,265,352
1-Dec-10	1.016	1.016	1.038	1.038	1.000	1.695	1.384	4,890,532
1-Dec-11	1.020	1.020	1.053	1.053	1.000	1.618	1.347	5,150,838
1-Dec-12	1.026	1.026	1.073	1.073	1.000	1.539	1.305	4,827,828
1-Dec-13	1.032	1.032	1.094	1.094	1.000	1.462	1.267	4,827,828
1-Dec-14	1.048	1.048	1.136	1.136	1.000	1.393	1.230	4,684,830
1-Dec-15	1.069	1.069	1.192	1.192	1.000	1.327	1.197	4,970,309
1-Dec-16	1.095	1.095	1.276	1.276	1.001	1.262	1.159	5,291,126
1-Dec-17	1.162	1.162	1.398	1.398	1.002	1.199	1.126	5,390,504
1-Dec-18	1.250	1.250	1.591	1.591	1.003	1.142	1.093	5,802,830
1-Dec-19	1.400	1.400	1.953	1.953	1.006	1.092	1.063	5,241,633
1-Dec-20	1.641	1.641	2.709	2.709	1.010	1.045	1.030	5,918,294
1-Dec-21	2.583	2.583	6.095	6.095	1.050	1.000	1.000	6,312,408

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** **0.75** **0.75**
 ELR for B/F Method : **0.64**
 Generalized Cape Cod Decay Factor: **0.75**
 Loss Limitation : **Exhibit 10, Column (5)**
 Discount Rates : **4.13%**
 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 (8) : Flat 3.00%**
Column (6) : Company Exclusively **Column (9) : supplied by Cook County, Illinois**
Column (7) : Medical CPI Indices and Benefit Level Adjustment Factors



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

**Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/22
Limited Loss Calculations**

(1) Policy Period Inception	(2)		(3)	(4)	(5)	(6)				(7)	(8)	(9)	(10)		(11)	(12)
	Unlimited			Case O/S	Retention	Claims valued over the Retention				No.	Incurred	No.	Paid	Limited		Case O/S
Incurred	Paid		No.			Incurred	No.	Paid	Incurred					Paid		
Prior	\$ 56,101,024	\$ 52,045,417	\$ 4,055,607	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 56,101,024	\$ 52,045,417	\$ 4,055,607		
1-Dec-01	\$ 1,210,535	\$ 1,187,430	\$ 23,105	\$ 9,500,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,210,535	\$ 1,187,430	\$ 23,105		
1-Dec-02	\$ 3,276,774	\$ 3,023,819	\$ 252,955	\$ 9,500,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 3,276,774	\$ 3,023,819	\$ 252,955		
1-Dec-03	\$ 1,952,034	\$ 1,871,417	\$ 80,617	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,952,034	\$ 1,871,417	\$ 80,617		
1-Dec-04	\$ 2,815,860	\$ 2,562,536	\$ 253,324	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 2,815,860	\$ 2,562,536	\$ 253,324		
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	\$ 1,974,447	\$ 1,930,265	\$ 44,182	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,974,447	\$ 1,930,265	\$ 44,182		
1-Dec-08	\$ 2,135,443	\$ 2,076,043	\$ 59,400	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 2,135,443	\$ 2,076,043	\$ 59,400		
1-Dec-09	\$ 2,620,474	\$ 2,247,604	\$ 372,871	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 2,620,474	\$ 2,247,604	\$ 372,871		
1-Dec-10	\$ 2,008,480	\$ 1,939,420	\$ 69,060	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 2,008,480	\$ 1,939,420	\$ 69,060		
1-Dec-11	\$ 2,376,899	\$ 2,209,588	\$ 167,310	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 2,376,899	\$ 2,209,588	\$ 167,310		
1-Dec-12	\$ 3,752,544	\$ 3,235,348	\$ 517,196	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 3,752,544	\$ 3,235,348	\$ 517,196		
1-Dec-13	\$ 3,236,336	\$ 2,509,186	\$ 727,151	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 3,236,336	\$ 2,509,186	\$ 727,151		
1-Dec-14	\$ 1,706,340	\$ 1,514,566	\$ 191,774	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,706,340	\$ 1,514,566	\$ 191,774		
1-Dec-15	\$ 2,440,996	\$ 2,239,629	\$ 201,366	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 2,440,996	\$ 2,239,629	\$ 201,366		
1-Dec-16	\$ 2,818,034	\$ 2,214,745	\$ 603,288	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 2,818,034	\$ 2,214,745	\$ 603,288		
1-Dec-17	\$ 2,351,503	\$ 1,601,669	\$ 749,834	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 2,351,503	\$ 1,601,669	\$ 749,834		
1-Dec-18	\$ 3,916,493	\$ 1,735,765	\$ 2,180,728	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 3,916,493	\$ 1,735,765	\$ 2,180,728		
1-Dec-19	\$ 2,552,597	\$ 1,057,054	\$ 1,495,543	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 2,552,597	\$ 1,057,054	\$ 1,495,543		
1-Dec-20	\$ 3,160,177	\$ 1,022,271	\$ 2,137,906	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 3,160,177	\$ 1,022,271	\$ 2,137,906		
1-Dec-21	\$ 1,926,287	\$ 464,484	\$ 1,461,803	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,926,287	\$ 464,484	\$ 1,461,803		
	\$ 108,159,613	\$ 92,514,593	\$ 15,645,020		-	\$ -	-	\$ -	-	\$ -	-	\$ 108,159,613	\$ 92,514,593	\$ 15,645,020		

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 @ 11/30/22
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	7,853,801	490	1.000	490	1.000	490	0.00624%		490	490	0.00624%
1-Dec-02	7,735,444	514	1.000	514	1.000	514	0.00664%		514	514	0.00664%
1-Dec-03	7,741,828	593	1.000	593	1.000	593	0.00766%		593	593	0.00766%
1-Dec-04	7,582,864	518	1.000	518	1.000	518	0.00683%		518	518	0.00683%
1-Dec-05	7,455,768	510	1.000	510	1.000	510	0.00684%		510	510	0.00684%
1-Dec-06	6,980,493	318	1.000	318	1.000	318	0.00456%		318	318	0.00456%
1-Dec-07	6,757,510	274	1.000	274	1.000	274	0.00405%		274	274	0.00405%
1-Dec-08	7,366,524	280	1.000	280	1.000	280	0.00380%		280	280	0.00380%
1-Dec-09	7,507,132	214	1.000	214	1.000	214	0.00285%		214	214	0.00285%
1-Dec-10	6,769,640	202	1.000	202	1.000	202	0.00298%		202	202	0.00298%
1-Dec-11	6,939,179	169	1.000	169	1.000	169	0.00244%		169	169	0.00244%
1-Dec-12	6,299,220	143	1.000	143	1.000	143	0.00227%		143	143	0.00227%
1-Dec-13	6,115,748	158	1.000	158	1.000	158	0.00258%		158	158	0.00258%
1-Dec-14	5,761,750	158	1.000	158	1.000	158	0.00274%		158	158	0.00274%
1-Dec-15	5,949,284	176	1.000	176	1.000	176	0.00296%		176	176	0.00296%
1-Dec-16	6,133,866	167	1.001	167	1.000	167	0.00273%		167	167	0.00273%
1-Dec-17	6,067,060	180	1.002	180	1.000	180	0.00297%		180	180	0.00297%
1-Dec-18	6,340,909	159	1.003	159	1.000	159	0.00252%		159	159	0.00252%
1-Dec-19	5,574,411	222	1.006	223	1.000	223	0.00401%		223	223	0.00401%
1-Dec-20	6,095,843	171	1.010	173	1.000	173	0.00283%		173	173	0.00283%
1-Dec-21	6,312,408	171	1.050	179	1.000	179	0.00284%		179	179	0.00284%
Total	141,340,682	5,787		5,800		5,800	0.00410%		5,800	5,798	0.00410%

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 202
 Column (10) : Selected Trended Ultimate Claims
 Column (11) : Column (10) / Column (6)
 Column (12) : Column (10) / Column (2)

Selected Bornhuetter-Ferguson Claim Count for Policy Period 1-Dec-21					
<u>Weighted Averages excluding Policy Period 1-Dec-21</u>					
Last 5 Policies	30,390,632			915	0.00301%
Last 3 Policies	17,982,663			576	0.00320%
Last 2 Policies	12,408,251			352	0.00284%
Last 20 Policies	135,028,274			5,620	0.00416%
Selected Bornhuetter-Ferguson Frequency Rate					0.00320%
Payroll for 1-Dec-21					6,312,408
Apriori Expected Count for 1-Dec-21					202



Cook County, Illinois
Workers Compensation - Health Care Facilities (Indemnity)
Workers Compensation - Health Care Facilities (Indemnity) Experience @ 11/30/22
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	1,210,535	1,215,000	2.435	1.000	2,959,677	4,348,459	1.860	8,089,415	0.37
1-Dec-02	3,276,774	3,290,000	2.330	1.000	7,669,158	4,411,415	1.806	7,967,507	0.96
1-Dec-03	1,952,034	1,961,000	2.230	1.000	4,372,577	4,536,443	1.758	7,974,083	0.55
1-Dec-04	2,815,860	2,870,000	2.134	1.000	6,123,863	4,587,757	1.702	7,810,350	0.78
1-Dec-05	1,739,346	1,739,346	2.042	1.000	3,551,513	4,646,188	1.653	7,679,441	0.46
1-Dec-06	2,086,988	2,095,000	1.954	1.000	4,093,502	4,480,513	1.605	7,189,908	0.57
1-Dec-07	1,974,447	1,995,000	1.870	1.000	3,730,247	4,456,640	1.562	6,960,235	0.54
1-Dec-08	2,135,443	2,160,000	1.792	1.000	3,871,246	5,016,244	1.513	7,587,520	0.51
1-Dec-09	2,620,474	2,700,000	1.742	1.000	4,702,752	5,265,352	1.469	7,732,346	0.61
1-Dec-10	2,008,480	2,050,000	1.771	1.000	3,631,475	4,890,532	1.426	6,972,729	0.52
1-Dec-11	2,376,899	2,440,000	1.691	1.000	4,125,508	5,150,838	1.388	7,147,354	0.58
1-Dec-12	3,752,544	3,890,000	1.608	1.000	6,256,339	4,827,828	1.344	6,488,197	0.96
1-Dec-13	3,236,336	3,330,000	1.528	1.000	5,087,643	4,827,828	1.305	6,299,220	0.81
1-Dec-14	1,706,340	1,810,000	1.456	1.000	2,634,840	4,684,830	1.267	5,934,603	0.44
1-Dec-15	2,440,996	2,620,000	1.387	1.000	3,633,082	4,970,309	1.233	6,127,763	0.59
1-Dec-16	2,818,034	3,090,000	1.319	1.000	4,074,949	5,291,126	1.194	6,317,882	0.64
1-Dec-17	2,351,503	2,780,000	1.253	1.000	3,483,467	5,390,504	1.159	6,249,072	0.56
1-Dec-18	3,916,493	4,600,000	1.193	1.000	5,487,892	5,802,830	1.126	6,531,137	0.84
1-Dec-19	2,552,597	3,500,000	1.141	1.000	3,994,081	5,241,633	1.095	5,741,644	0.70
1-Dec-20	3,160,177	4,700,000	1.092	1.000	5,132,518	5,918,294	1.061	6,278,718	0.82
1-Dec-21	1,926,287	4,300,000	1.045	1.000	4,493,500	6,312,408	1.030	6,501,781	0.69
SELECTED - Based on Shaded PY									
All Year Weighted Average					93,109,829			145,580,905	0.64
Latest 5-Year Weighted Average					22,591,458			31,302,352	0.72
Latest 3-Year Weighted Average					13,620,099			18,522,143	0.74
SELECTED - Based on Shaded PY					93,109,829			145,580,905	0.64

Column (1) : from Exhibit 10
Column (2) : from Exhibit 2, Column (10)
Column (3) : Trend Indices appropriate for Workers Compensation - Health Care Facilities (Indemnity)
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-22	Unlimited	5,897,102	172	0.64	3,800,000
1-Dec-23	Unlimited	6,059,237	172	0.65	3,900,000
1-Dec-24	Unlimited	6,256,236	172	0.66	4,100,000

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



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

Average : \$8,827 sigma = 2.192
CV : 11.00 mu = 6.684

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
264	1.002	1.000	9,500,000	4.281	2.089	1.000	0.982	8,754	9,519,164	4.282	2.090	1.000	0.982	8,754	1.002
252	1.002	1.000	9,500,000	4.281	2.089	1.000	0.982	8,754	9,520,831	4.282	2.090	1.000	0.982	8,754	1.002
240	1.003	1.000	9,500,000	4.281	2.089	1.000	0.982	8,754	9,530,351	4.282	2.091	1.000	0.982	8,754	1.003
228	1.004	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,004,198,072	6.407	4.216	1.000	1.000	8,827	1.004
216	1.005	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,005,202,270	6.408	4.216	1.000	1.000	8,827	1.005
204	1.006	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,006,207,473	6.408	4.217	1.000	1.000	8,827	1.006
192	1.007	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,007,213,680	6.409	4.217	1.000	1.000	8,827	1.007
180	1.008	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,008,220,894	6.409	4.217	1.000	1.000	8,827	1.008
168	1.010	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,010,237,335	6.410	4.218	1.000	1.000	8,827	1.010
156	1.012	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,012,257,810	6.411	4.219	1.000	1.000	8,827	1.012
144	1.016	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,015,796,058	6.413	4.221	1.000	1.000	8,827	1.016
132	1.020	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,019,940,348	6.415	4.223	1.000	1.000	8,827	1.020
120	1.026	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,026,059,990	6.417	4.225	1.000	1.000	8,827	1.026
108	1.032	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,032,216,350	6.420	4.228	1.000	1.000	8,827	1.032
96	1.048	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,047,699,595	6.427	4.235	1.000	1.000	8,827	1.048
84	1.069	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,068,653,587	6.436	4.244	1.000	1.000	8,827	1.069
72	1.095	1.001	999,999,999	6.406	4.214	1.000	1.000	8,827	1,094,275,651	6.447	4.255	1.000	1.000	8,827	1.095
60	1.162	1.002	999,999,999	6.406	4.214	1.000	1.000	8,827	1,159,256,467	6.473	4.281	1.000	1.000	8,827	1.162
48	1.250	1.003	999,999,999	6.406	4.214	1.000	1.000	8,827	1,246,361,893	6.506	4.314	1.000	1.000	8,827	1.250
36	1.400	1.006	999,999,999	6.406	4.214	1.000	1.000	8,827	1,391,750,070	6.556	4.365	1.000	1.000	8,827	1.400
24	1.641	1.010	999,999,999	6.406	4.214	1.000	1.000	8,827	1,624,497,077	6.627	4.435	1.000	1.000	8,827	1.641
12	2.583	1.050	999,999,999	6.406	4.214	1.000	1.000	8,827	2,460,490,354	6.816	4.624	1.000	1.000	8,827	2.583

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 : \$8,827 sigma = 2.192
CV : 11.00 mu = 6.684

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
264	1.010	1.000	9,500,000	4.281	2.089	1.000	0.982	8,754	9,595,000	4.286	2.094	1.000	0.982	8,755	1.010
252	1.011	1.000	9,500,000	4.281	2.089	1.000	0.982	8,754	9,603,739	4.286	2.094	1.000	0.982	8,755	1.011
240	1.012	1.000	9,500,000	4.281	2.089	1.000	0.982	8,754	9,613,343	4.286	2.095	1.000	0.982	8,755	1.012
228	1.013	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,012,942,734	6.411	4.220	1.000	1.000	8,827	1.013
216	1.015	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,014,968,619	6.412	4.220	1.000	1.000	8,827	1.015
204	1.018	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,018,013,525	6.414	4.222	1.000	1.000	8,827	1.018
192	1.021	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,021,067,566	6.415	4.223	1.000	1.000	8,827	1.021
180	1.025	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,025,151,836	6.417	4.225	1.000	1.000	8,827	1.025
168	1.029	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,029,252,443	6.419	4.227	1.000	1.000	8,827	1.029
156	1.033	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,033,369,453	6.420	4.229	1.000	1.000	8,827	1.033
144	1.038	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,037,502,931	6.422	4.231	1.000	1.000	8,827	1.038
132	1.053	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,053,065,475	6.429	4.237	1.000	1.000	8,827	1.053
120	1.073	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,072,591,938	6.437	4.246	1.000	1.000	8,827	1.073
108	1.094	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,094,043,777	6.447	4.255	1.000	1.000	8,827	1.094
96	1.136	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,135,617,441	6.464	4.272	1.000	1.000	8,827	1.136
84	1.192	1.000	999,999,999	6.406	4.214	1.000	1.000	8,827	1,192,398,313	6.486	4.294	1.000	1.000	8,827	1.192
72	1.276	1.001	999,999,999	6.406	4.214	1.000	1.000	8,827	1,275,003,494	6.516	4.325	1.000	1.000	8,827	1.276
60	1.398	1.002	999,999,999	6.406	4.214	1.000	1.000	8,827	1,394,734,092	6.557	4.366	1.000	1.000	8,827	1.398
48	1.591	1.003	999,999,999	6.406	4.214	1.000	1.000	8,827	1,586,551,593	6.616	4.424	1.000	1.000	8,827	1.591
36	1.953	1.006	999,999,999	6.406	4.214	1.000	1.000	8,827	1,941,131,135	6.708	4.516	1.000	1.000	8,827	1.953
24	2.709	1.010	999,999,999	6.406	4.214	1.000	1.000	8,827	2,682,192,083	6.856	4.664	1.000	1.000	8,827	2.709
12	6.095	1.050	999,999,999	6.406	4.214	1.000	1.000	8,827	5,807,198,896	7.208	5.016	1.000	1.000	8,827	6.095

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 12/1/2022 to 11/30/2023**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/22	Percent Losses Paid	Months of Development 11/30/23	Percent Losses Paid	Estimated Outstanding Losses 11/30/22	Projected Losses Paid	Estimated Outstanding Losses 11/30/23	Discount Factor	Discounted Outstanding Losses 11/30/23
Prior	264	99.0%	276	99.3%	\$ 4,474,583	\$ 894,917 *	\$ 3,579,667	0.876	\$ 3,134,317
1-Dec-01	252	98.9%	264	99.0%	\$ 27,570	\$ 2,300 *	\$ 25,270	0.875	\$ 22,121
1-Dec-02	240	98.8%	252	98.9%	\$ 266,181	\$ 22,313 *	\$ 243,868	0.852	\$ 207,847
1-Dec-03	228	98.7%	240	98.8%	\$ 89,583	\$ 6,921 *	\$ 82,661	0.832	\$ 68,776
1-Dec-04	216	98.5%	228	98.7%	\$ 307,464	\$ 41,081 *	\$ 266,382	0.813	\$ 216,572
1-Dec-05	204	98.2%	216	98.5%	\$ -	\$ - *	\$ -	0.807	\$ -
1-Dec-06	192	97.9%	204	98.2%	\$ 8,012	\$ 1,111 *	\$ 6,901	0.809	\$ 5,586
1-Dec-07	180	97.5%	192	97.9%	\$ 64,735	\$ 10,295 *	\$ 54,440	0.806	\$ 43,890
1-Dec-08	168	97.2%	180	97.5%	\$ 83,957	\$ 11,480 *	\$ 72,476	0.807	\$ 58,485
1-Dec-09	156	96.8%	168	97.2%	\$ 452,396	\$ 54,229 *	\$ 398,167	0.803	\$ 319,721
1-Dec-10	144	96.4%	156	96.8%	\$ 110,580	\$ 11,794 *	\$ 98,786	0.796	\$ 78,650
1-Dec-11	132	95.0%	144	96.4%	\$ 230,412	\$ 46,082 *	\$ 184,329	0.788	\$ 145,171
1-Dec-12	120	93.2%	132	95.0%	\$ 654,652	\$ 130,930 *	\$ 523,721	0.820	\$ 429,215
1-Dec-13	108	91.4%	120	93.2%	\$ 820,815	\$ 164,163 *	\$ 656,652	0.836	\$ 549,175
1-Dec-14	96	88.1%	108	91.4%	\$ 295,434	\$ 59,087 *	\$ 236,347	0.841	\$ 198,711
1-Dec-15	84	83.9%	96	88.1%	\$ 380,371	\$ 76,074 *	\$ 304,296	0.856	\$ 260,406
1-Dec-16	72	78.4%	84	83.9%	\$ 875,255	\$ 175,051 *	\$ 700,204	0.863	\$ 604,222
1-Dec-17	60	71.6%	72	78.4%	\$ 1,178,331	\$ 235,666 *	\$ 942,665	0.867	\$ 817,493
1-Dec-18	48	62.8%	60	71.6%	\$ 2,864,235	\$ 572,847 *	\$ 2,291,388	0.868	\$ 1,988,890
1-Dec-19	36	51.2%	48	62.8%	\$ 2,442,946	\$ 488,589 *	\$ 1,954,356	0.868	\$ 1,696,173
1-Dec-20	24	36.9%	36	51.2%	\$ 3,677,729	\$ 735,546 *	\$ 2,942,183	0.868	\$ 2,554,987
1-Dec-21	12	16.4%	24	36.9%	\$ 3,835,516	\$ 767,103 *	\$ 3,068,413	0.867	\$ 2,660,448
1-Dec-22	0	0.0%	12	16.4%	\$ 3,800,000	\$ 623,413 *	\$ 3,176,587	0.869	\$ 2,759,797
Total					\$ 26,940,754	\$ 5,130,993	\$ 21,809,761		\$ 18,820,654

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 4.13% 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 12/1/2023 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	99.3%	288	99.4%	\$ 3,364,178	\$ 672,836	* \$ 2,691,343	0.876	\$ 2,356,998
1-Dec-01	264	99.0%	276	99.3%	\$ 25,270	\$ 5,054	* \$ 20,216	0.876	\$ 17,701
1-Dec-02	252	98.9%	264	99.0%	\$ 243,868	\$ 20,342	* \$ 223,526	0.875	\$ 195,673
1-Dec-03	240	98.8%	252	98.9%	\$ 82,661	\$ 6,928	* \$ 75,733	0.852	\$ 64,547
1-Dec-04	228	98.7%	240	98.8%	\$ 266,382	\$ 20,582	* \$ 245,801	0.832	\$ 204,513
1-Dec-05	216	98.5%	228	98.7%	\$ -	\$ -	* \$ -	0.813	\$ -
1-Dec-06	204	98.2%	216	98.5%	\$ 6,901	\$ 1,112	* \$ 5,790	0.807	\$ 4,674
1-Dec-07	192	97.9%	204	98.2%	\$ 54,440	\$ 7,752	* \$ 46,688	0.809	\$ 37,791
1-Dec-08	180	97.5%	192	97.9%	\$ 72,476	\$ 11,526	* \$ 60,950	0.806	\$ 49,138
1-Dec-09	168	97.2%	180	97.5%	\$ 398,167	\$ 54,446	* \$ 343,722	0.807	\$ 277,366
1-Dec-10	156	96.8%	168	97.2%	\$ 98,786	\$ 11,841	* \$ 86,944	0.803	\$ 69,815
1-Dec-11	144	96.4%	156	96.8%	\$ 165,281	\$ 17,629	* \$ 147,653	0.796	\$ 117,557
1-Dec-12	132	95.0%	144	96.4%	\$ 487,431	\$ 97,486	* \$ 389,945	0.788	\$ 307,107
1-Dec-13	120	93.2%	132	95.0%	\$ 646,254	\$ 129,251	* \$ 517,003	0.820	\$ 423,710
1-Dec-14	108	91.4%	120	93.2%	\$ 212,653	\$ 42,531	* \$ 170,123	0.836	\$ 142,278
1-Dec-15	96	88.1%	108	91.4%	\$ 281,521	\$ 56,304	* \$ 225,217	0.841	\$ 189,353
1-Dec-16	84	83.9%	96	88.1%	\$ 652,398	\$ 130,480	* \$ 521,918	0.856	\$ 446,639
1-Dec-17	72	78.4%	84	83.9%	\$ 896,735	\$ 179,347	* \$ 717,388	0.863	\$ 619,050
1-Dec-18	60	71.6%	72	78.4%	\$ 2,192,552	\$ 438,510	* \$ 1,754,041	0.867	\$ 1,521,130
1-Dec-19	48	62.8%	60	71.6%	\$ 1,860,511	\$ 372,102	* \$ 1,488,409	0.868	\$ 1,291,917
1-Dec-20	36	51.2%	48	62.8%	\$ 2,844,331	\$ 568,866	* \$ 2,275,465	0.868	\$ 1,974,861
1-Dec-21	24	36.9%	36	51.2%	\$ 2,894,604	\$ 578,921	* \$ 2,315,683	0.868	\$ 2,010,936
1-Dec-22	12	16.4%	24	36.9%	\$ 3,176,587	\$ 635,317	* \$ 2,541,269	0.867	\$ 2,203,391
1-Dec-23	0	0.0%	12	16.4%	\$ 3,900,000	\$ 639,819	* \$ 3,260,181	0.869	\$ 2,832,424
Total					\$ 24,823,988	\$ 4,698,982	\$ 20,125,006		\$ 17,358,566

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 4.13% 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	99.4%	300	99.6%	\$ 2,527,789	\$ 505,558	* \$ 2,022,231	0.876	\$ 1,771,368
1-Dec-01	276	99.3%	288	99.4%	\$ 18,999	\$ 3,800	* \$ 15,199	0.876	\$ 13,311
1-Dec-02	264	99.0%	276	99.3%	\$ 223,526	\$ 44,705	* \$ 178,821	0.876	\$ 156,574
1-Dec-03	252	98.9%	264	99.0%	\$ 75,733	\$ 6,317	* \$ 69,416	0.875	\$ 60,766
1-Dec-04	240	98.8%	252	98.9%	\$ 245,801	\$ 20,602	* \$ 225,199	0.852	\$ 191,935
1-Dec-05	228	98.7%	240	98.8%	\$ -	\$ -	* \$ -	0.832	\$ -
1-Dec-06	216	98.5%	228	98.7%	\$ 5,790	\$ 828	* \$ 4,962	0.813	\$ 4,034
1-Dec-07	204	98.2%	216	98.5%	\$ 46,688	\$ 7,775	* \$ 38,912	0.807	\$ 31,417
1-Dec-08	192	97.9%	204	98.2%	\$ 60,950	\$ 8,679	* \$ 52,271	0.809	\$ 42,310
1-Dec-09	180	97.5%	192	97.9%	\$ 343,722	\$ 54,663	* \$ 289,058	0.806	\$ 233,039
1-Dec-10	168	97.2%	180	97.5%	\$ 86,944	\$ 11,889	* \$ 75,055	0.807	\$ 60,566
1-Dec-11	156	96.8%	168	97.2%	\$ 147,653	\$ 17,699	* \$ 129,953	0.803	\$ 104,350
1-Dec-12	144	96.4%	156	96.8%	\$ 349,649	\$ 37,293	* \$ 312,356	0.796	\$ 248,688
1-Dec-13	132	95.0%	144	96.4%	\$ 481,178	\$ 96,236	* \$ 384,943	0.788	\$ 303,168
1-Dec-14	120	93.2%	132	95.0%	\$ 167,429	\$ 33,486	* \$ 133,943	0.820	\$ 109,773
1-Dec-15	108	91.4%	120	93.2%	\$ 202,639	\$ 40,528	* \$ 162,111	0.836	\$ 135,578
1-Dec-16	96	88.1%	108	91.4%	\$ 482,854	\$ 96,571	* \$ 386,283	0.841	\$ 324,771
1-Dec-17	84	83.9%	96	88.1%	\$ 668,408	\$ 133,682	* \$ 534,727	0.856	\$ 457,600
1-Dec-18	72	78.4%	84	83.9%	\$ 1,668,577	\$ 333,715	* \$ 1,334,862	0.863	\$ 1,151,882
1-Dec-19	60	71.6%	72	78.4%	\$ 1,424,208	\$ 284,842	* \$ 1,139,367	0.867	\$ 988,075
1-Dec-20	48	62.8%	60	71.6%	\$ 2,166,200	\$ 433,240	* \$ 1,732,960	0.868	\$ 1,504,183
1-Dec-21	36	51.2%	48	62.8%	\$ 2,238,667	\$ 447,733	* \$ 1,790,934	0.868	\$ 1,554,340
1-Dec-22	24	36.9%	36	51.2%	\$ 2,397,321	\$ 479,464	* \$ 1,917,857	0.868	\$ 1,665,464
1-Dec-23	12	16.4%	24	36.9%	\$ 3,260,181	\$ 652,036	* \$ 2,608,145	0.867	\$ 2,261,375
1-Dec-24	0	0.0%	12	16.4%	\$ 4,100,000	\$ 672,630	* \$ 3,427,370	0.869	\$ 2,977,676
Total					\$ 23,390,906	\$ 4,423,971	\$ 18,966,934		\$ 16,352,244

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 4.13% 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	790,385	348,709
Prior	6/14/1995	1,811,316	201,108	1,610,208
Prior	11/12/1995	1,436,290	897,398	538,892
Prior	7/28/1997	1,194,480	1,059,886	134,595
12/1/2002	12/23/2002	1,009,118	767,759	241,359
12/1/2004	5/8/2005	1,014,140	760,816	253,324
12/1/2012	8/22/2013	1,207,427	769,369	438,058
12/1/2018	5/8/2019	1,065,817	165,441	900,376

Cook County, Illinois
 Workers' Compensation - Health Care Facilities
 Occurrence
 Indemnity
 Incurred Development Triangle
 Data Unlimited (000s)
 As of 11/30/2022

		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		
	Prior												50,979	51,287	49,457	47,435	47,660	47,873	48,112	48,410	56,276	56,277	56,202		
12/1/2001						1,223	1,324	1,388	1,057	1,081	1,069	1,093	1,095	1,110	1,110	1,191	1,193	1,199	1,199	1,199	1,199	1,199	1,219		
12/1/2002					2,091	2,182	2,359	2,528	2,715	2,637	2,743	2,763	2,858	3,020	3,017	3,018	3,018	3,018	3,018	3,018	3,282	3,282			
12/1/2003				1,843	1,854	1,999	1,610	1,674	1,648	1,653	1,802	1,801	1,890	1,951	1,967	1,967	1,967	1,967	1,967	1,975	1,952				
12/1/2004			1,571	1,810	2,022	1,774	1,874	1,828	1,934	1,937	2,819	2,868	3,134	3,134	3,187	3,181	3,183	3,183	3,183	2,816					
12/1/2005	1,153	1,368	1,835	1,295	1,427	1,344	1,437	1,442	1,632	1,629	1,743	1,743	1,743	1,743	1,739	1,739	1,739	1,739							
12/1/2006	1,075	1,615	1,509	1,634	1,653	1,723	2,041	2,054	2,087	2,107	2,107	2,107	2,102	2,102	2,102	2,092	2,087								
12/1/2007	1,084	1,292	1,716	1,506	1,582	1,580	1,947	1,826	1,924	1,937	1,961	1,973	1,980	1,974	1,974										
12/1/2008	879	1,171	848	1,031	1,181	1,789	1,802	2,045	2,075	2,102	2,127	2,128	2,115	2,135											
12/1/2009	789	918	1,055	1,200	1,982	2,172	2,201	2,401	2,401	2,407	2,410	2,482	2,621												
12/1/2010	783	837	1,111	1,730	1,788	1,957	1,847	1,848	1,940	1,940	1,996														
12/1/2011	783	1,014	1,772	1,844	2,116	2,335	2,331	2,329	2,341	2,383	2,404														
12/1/2012	552	1,720	1,979	2,336	2,675	2,929	2,960	2,995	3,253	3,783															
12/1/2013	1,181	1,764	2,308	2,511	2,495	2,548	2,528	2,653	3,237																
12/1/2014	760	1,419	1,555	1,632	1,755	1,707	1,730	1,720																	
12/1/2015	1,623	2,123	2,184	2,213	2,354	2,461	2,445																		
12/1/2016	1,882	2,180	2,118	2,399	2,542	2,822																			
12/1/2017	1,496	1,797	1,822	2,025	2,386																				
12/1/2018	1,980	3,859	3,335	3,918																					
12/1/2019	2,362	2,403	2,553																						
12/1/2020	3,489	3,161																							
12/1/2021	1,926																								

		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-Ult		
	Prior					1,083	1,048	0,761	1,023	0,989	1,022	1,001	1,006	0,964	0,959	1,005	1,004	1,005	1,006	1,006	1,162	1,000	0,999		
12/1/2001						1,081	1,072	1,074	0,971	1,040	1,000	1,007	1,034	1,056	0,999	1,000	1,000	1,000	1,008	1,000					
12/1/2002				1,006	1,078	0,805	1,057	0,984	0,984	1,003	1,090	1,000	1,049	1,032	1,008	1,000	1,000	1,004	0,988						
12/1/2003			1,153	1,117	0,878	1,057	0,975	1,058	1,001	1,456	1,017	1,093	1,000	1,017	0,998	1,001	1,000	0,885							
12/1/2004		1,187	1,342	0,706	1,102	0,942	1,069	1,003	1,132	0,998	1,076	1,000	1,000	1,000	0,998	1,000	1,000								
12/1/2005	1,563	0,934	1,093	1,012	1,042	1,185	1,006	1,016	1,025	1,000	0,998	1,000	1,000	0,995	0,998										
12/1/2006	1,192	1,329	0,878	1,051	0,998	1,233	0,938	1,054	1,007	1,013	1,006	1,003	0,997	1,000											
12/1/2007	1,332	0,724	1,216	1,145	1,515	1,007	1,134	1,015	1,013	1,012	1,000	0,994	1,009												
12/1/2008	1,163	1,150	1,137	1,652	1,096	1,013	1,091	1,000	1,002	1,001	1,000	1,030	1,056												
12/1/2009	1,070	1,327	1,557	1,034	1,094	0,944	1,000	1,049	1,000	1,029	1,006														
12/1/2010	1,295	1,747	1,041	1,148	1,103	0,998	0,999	1,005	1,018	1,009															
12/1/2011	3,119	1,151	1,181	1,145	1,095	1,011	1,012	1,086	1,163																
12/1/2012	1,494	1,309	1,088	0,994	1,021	0,992	1,050	1,220																	
12/1/2013	1,867	1,096	1,050	1,075	0,973	1,014	0,994																		
12/1/2014	1,308	1,029	1,013	1,064	1,045	0,994																			
12/1/2015	1,158	0,972	1,133	1,060	1,110																				
12/1/2016	1,201	1,014	1,112	1,178																					
12/1/2017	1,949	0,864	1,175																						
12/1/2018	1,017	1,063																							
12/1/2019	0,906																								
12/1/2020																									
12/1/2021																									

		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-Ult		
All Year Average		1,422	1,138	1,093	1,104	1,066	1,041	1,007	1,043	1,058	1,024	1,014	1,016	1,009	1,004	1,001	1,002	0,979	1,021	1,054	1,008	0,999			
3 Yr Average		1,291	0,980	1,140	1,101	1,043	1,000	1,018	1,104	1,060	1,013	1,012	1,018	1,002	0,998	0,999	1,000	0,963	1,025	1,054	NA	NA			
5 Yr Average		1,246	0,988	1,096	1,074	1,049	1,002	1,011	1,072	1,039	1,013	1,008	1,011	1,005	1,000	1,000	1,001	0,979	NA	NA	NA	NA			
3 Yr Wid Average		1,203	0,957	1,147	1,097	1,051	0,998	1,021	1,107	1,076	1,012	1,013	1,020	1,002	0,998	1,000	1,000	0,956	1,039	1,149	NA	NA			
5 Yr Wid Average		1,195	0,972	1,107	1,070	1,055	1,001	1,013	1,077	1,050	1,012	1,009	1,013	1,006	1,000	1,000	1,001	0,998	NA	NA	NA	NA			
Avg X Hi-Lo (3yr X 2)		1,017	1,014	1,133	1,064	1,045	0,994	1,012	1,086	1,018	1,009	1,006	1,003	1,000	0,998	1,000	1,000	1,000	NA	1,000	NA	NA			
Avg X Hi-Lo (5yr X 2)		1,126	1,005	1,098	1,066	1,054	1,001	1,004	1,047	1,011	1,011	1,004	1,001	1,003	0,999	1,000	1,000	1,001	NA	NA	NA	NA			
Prior		1,600	1,178	1,120	1,076	1,060	1,025	1,020	1,013	1,004	1,004	1,003	1,002	1,002	1,002	1,001	1,001	1,001	1,001	1,001	1,001	1,000			
Industry		1,548	1,172	1,070	1,032	1,012	1,007	1,004	1,003	1,002	1,001	1,000	1,001	1,000	1,001	1,001	1,001	1,000	1,001	1,000	1,001	1,001			
Initial Selected		1,574	1,172	1,120	1,076	1,060	1,025	1,020	1,015	1,006	1,006	1,004	1,003	1,002	1,002	1,001	1,001	1,001	1,001	1,001	1,001	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-Ult		
Inverse Power Curve Fit																							1.00335		
Exponential Curve Fit																							1.00075		
Weibull Curve Fit																							1.00112		
Manual Entry																									
Selected Tail Method:	Manual Entry																								
Final Link Ratio		1,574	1,172	1,120	1,076	1,060	1,025	1,020	1,015	1,006	1,006	1,004	1,003	1,002	1,002	1,001	1,001	1,001	1,001	1,001	1,001	1,000			
Final CDF		2,583	1,641	1,400	1,250	1,162	1,095	1,069	1,048	1,032	1,026	1,020	1,016	1,012	1,010	1,008	1,007	1,006	1,005	1,004	1,003	1,002			

Cook County, Illinois
 Workers' Compensation - Health Care Facilities
 Occurrence
 Indemnity
 Paid Development Triangle
 Data Unlimited (000s)
 As of 11/30/2022

		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	
Prior																								
12/1/2001						902	975	1,041	1,045	1,069	1,069	1,093	1,095	1,095	1,095	1,095	1,176	1,176	1,181	1,181	1,196	1,196	1,196	52,146
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			
12/1/2003				1,101			1,381	1,547	1,648	1,648	1,653	1,653	1,659	1,773	1,815	1,847	1,859	1,860	1,870	1,872				
12/1/2004		784	1,002	1,136	1,437	1,734	1,781	1,833	1,880	1,957	2,060	2,334	2,381	2,462	2,524	2,536	2,536	2,563						
12/1/2005	303	518	920	1,137	1,264	1,344	1,437	1,442	1,601	1,619	1,733	1,733	1,733	1,739	1,739	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						
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									
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											
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											
12/1/2010	503	758	947	1,115	1,281	1,594	1,631	1,667	1,722	1,731	1,937													
12/1/2011	558	903	1,169	1,368	1,755	1,913	2,108	2,128	2,161	2,227	2,237													
12/1/2012	334	930	1,179	1,711	2,255	2,422	2,582	2,903	3,209	3,265														
12/1/2013	480	1,031	1,686	2,042	2,117	2,218	2,282	2,436	2,509															
12/1/2014	283	881	1,063	1,298	1,374	1,437	1,520	1,528																
12/1/2015	722	1,329	1,494	1,693	1,901	2,203	2,243																	
12/1/2016	358	1,021	1,392	1,854	2,099	2,218																		
12/1/2017	505	1,017	1,222	1,486	1,637																			
12/1/2018	353	1,097	1,532	1,737																				
12/1/2019	420	793	1,058																					
12/1/2020	540	1,023																						
12/1/2021	464																							

		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-Ult
Prior																							
12/1/2001						1,081	1,068	1,004	1,023	1,000	1,022	1,001	1,033	1,008	1,011	1,011	1,012	1,007	1,008	1,091	1,005	1,005	
12/1/2002					1,059	1,125	1,484	1,007	1,006	1,006	1,006	1,005	1,067	1,006	1,006	1,005	1,006	1,006	1,005	1,006	1,005	1,005	
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				
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					
12/1/2005	1,708	1,777	1,236	1,112	1,063	1,069	1,003	1,110	1,011	1,076	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	1,027	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									
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										
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											
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												
12/1/2011	1,620	1,295	1,170	1,292	1,090	1,102	1,010	1,015	1,031	1,004													
12/1/2012	2,782	1,268	1,452	1,318	1,074	1,066	1,124	1,105	1,018														
12/1/2013	2,147	1,636	1,211	1,036	1,048	1,029	1,068	1,030															
12/1/2014	3,108	1,207	1,221	1,059	1,046	1,058	1,005																
12/1/2015	1,840	1,124	1,133	1,123	1,159	1,018																	
12/1/2016	2,849	1,364	1,332	1,132	1,057																		
12/1/2017	2,014	1,202	1,216	1,101																			
12/1/2018	3,107	1,397	1,134																				
12/1/2019	1,889	1,333																					
12/1/2020	1,894																						
12/1/2021																							

		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-Ult
All Year Average		2.186	1.349	1.207	1.139	1.114	1.086	1.046	1.046	1.029	1.030	1.026	1.015	1.017	1.018	1.018	1.004	1.004	1.008	1.004	1.032	1.002	1.005
3 Yr Average		2.296	1.311	1.227	1.119	1.087	1.035	1.065	1.050	1.018	1.053	1.019	1.006	1.005	1.003	1.002	1.000	1.007	1.002	1.032	NA	NA	NA
5 Yr Average		2.350	1.284	1.207	1.090	1.077	1.055	1.046	1.051	1.028	1.036	1.024	1.004	1.010	1.010	1.004	1.002	1.008	NA	NA	NA	NA	NA
3 Yr Wid Average		2.218	1.311	1.224	1.120	1.090	1.032	1.076	1.055	1.019	1.049	1.019	1.006	1.004	1.002	1.000	1.007	1.003	1.084	NA	NA	NA	NA
5 Yr Wid Average		2.275	1.274	1.204	1.090	1.077	1.053	1.053	1.054	1.027	1.034	1.023	1.004	1.011	1.011	1.004	1.002	1.007	NA	NA	NA	NA	NA
Avg X Hi-Lo (3yr X 2)		1.894	1.333	1.216	1.123	1.057	1.029	1.068	1.030	1.018	1.037	1.013	1.001	1.000	1.000	1.000	1.006	1.001	1.005	NA	NA	NA	NA
Avg X Hi-Lo (5yr X 2)		2.252	1.300	1.190	1.094	1.059	1.051	1.033	1.044	1.027	1.019	1.019	1.001	1.006	1.009	1.004	1.002	1.008	NA	NA	NA	NA	NA
Prior		2.250	1.400	1.290	1.144	1.095	1.090	1.050	1.038	1.020	1.019	1.015	1.004	1.004	1.004	1.004	1.003	1.002	1.002	1.001	1.001	1.001	1.008
Industry		2.915	1.605	1.290	1.159	1.087	1.049	1.030	1.020	1.015	1.009	1.007	1.006	1.004	1.003	1.002	1.002	1.003	1.002	1.004	1.003	1.002	1.007
Initial Selected		2.250	1.387	1.227	1.139	1.095	1.070	1.050	1.038	1.020	1.019	1.015	1.004	1.004	1.004	1.004	1.003	1.003	1.002	1.001	1.001	1.001	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-Ult
Inverse Power Curve Fit																							1.00797
Exponential Curve Fit																							1.00170
Weibull Curve Fit																							1.00250
Manual Entry																							
Selected Tail Method:	Manual Entry																						
Final Link Ratio		2.250	1.387	1.227	1.139	1.095	1.070	1.050	1.038	1.020	1.019	1.015	1.004	1.004	1.004	1.004	1.003	1.003	1.002	1.001	1.001	1.001	1.010
Final CDF		6.095	2.709	1.953</																			



**Cook County, Illinois
Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/22
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	13,746,594	13,091,567	655,026	3,407	658,433	13,750,000	
1-Dec-01	4,348,459	9,500,000	490	1	624,425	620,425	4,000	2,575	6,575	627,000	0.14
1-Dec-02	4,411,415	9,500,000	514	2	918,650	898,593	20,056	1,350	21,407	920,000	0.21
1-Dec-03	4,536,443	Various	593	1	1,325,112	1,217,922	107,190	2,888	110,078	1,328,000	0.29
1-Dec-04	4,587,757	Unlimited	518	1	1,385,371	1,261,451	123,921	3,629	127,549	1,389,000	0.30
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	1	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	1,163,927	734,658	429,268	10,073	439,342	1,174,000	0.22
1-Dec-10	4,890,532	Unlimited	202	5	682,000	667,867	14,133	2,000	16,133	684,000	0.14
1-Dec-11	5,150,838	Unlimited	169	6	997,997	988,598	9,399	12,003	21,402	1,010,000	0.20
1-Dec-12	4,827,828	Unlimited	143	4	1,642,399	1,178,900	463,500	27,601	491,100	1,670,000	0.35
1-Dec-13	4,827,828	Unlimited	158	5	991,102	664,895	326,207	49,898	376,105	1,041,000	0.22
1-Dec-14	4,684,830	Unlimited	158	9	541,310	485,490	55,820	10,690	66,510	552,000	0.12
1-Dec-15	4,970,309	Unlimited	176	6	778,700	696,696	82,005	19,300	101,304	798,000	0.16
1-Dec-16	5,291,126	Unlimited	167	13	776,244	507,274	268,970	29,756	298,726	806,000	0.15
1-Dec-17	5,390,504	Unlimited	180	12	700,678	393,841	306,836	74,322	381,159	775,000	0.14
1-Dec-18	5,802,830	Unlimited	159	20	2,149,297	542,145	1,607,153	76,703	1,683,855	2,226,000	0.38
1-Dec-19	5,241,633	Unlimited	222	41	1,200,760	286,104	914,656	93,240	1,007,896	1,294,000	0.25
1-Dec-20	5,918,294	Unlimited	171	34	1,497,863	518,570	979,293	302,137	1,281,430	1,800,000	0.30
1-Dec-21	6,312,408	Unlimited	171	89	1,773,339	122,497	1,650,842	750,661	2,401,503	2,524,000	0.40
Total	105,057,974		13,201	276	36,026,293	28,003,331	8,022,962	1,472,750	9,495,712	37,499,043	0.23

Full Policy Period Projections

1-Dec-22	5,897,102	Unlimited								1,828,000	0.31
1-Dec-23	6,059,237	Unlimited								1,939,000	0.32



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

**Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/22
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	\$ 13,746,594	\$ 13,238,170	\$ 13,746,594	N/A	N/A	N/A	N/A	\$ 13,746,594	\$ 13,750,000
1-Dec-01	\$ 625,048	\$ 628,145	\$ 624,778	\$ 625,045	\$ 628,076	\$ 625,234	\$ 630,000	\$ 625,048	\$ 627,000
1-Dec-02	\$ 920,483	\$ 910,682	\$ 922,190	\$ 919,956	\$ 907,303	\$ 920,406	\$ 909,767	\$ 920,483	\$ 920,000
1-Dec-03	\$ 1,329,091	\$ 1,235,584	\$ 1,353,511	\$ 1,327,216	\$ 1,227,967	\$ 1,327,987	\$ 1,230,929	\$ 1,329,091	\$ 1,328,000
1-Dec-04	\$ 1,390,921	\$ 1,281,024	\$ 1,429,169	\$ 1,388,310	\$ 1,272,703	\$ 1,389,278	\$ 1,275,570	\$ 1,390,921	\$ 1,389,000
1-Dec-05	\$ 767,401	\$ 776,199	\$ 763,576	\$ 767,438	\$ 776,176	\$ 768,361	\$ 778,306	\$ 767,401	\$ 763,576
1-Dec-06	\$ 930,885	\$ 942,497	\$ 925,319	\$ 929,960	\$ 939,466	\$ 930,786	\$ 940,945	\$ 930,885	\$ 925,319
1-Dec-07	\$ 752,394	\$ 762,541	\$ 747,148	\$ 752,754	\$ 763,377	\$ 753,412	\$ 763,898	\$ 752,394	\$ 747,148
1-Dec-08	\$ 700,058	\$ 706,118	\$ 696,946	\$ 701,938	\$ 711,437	\$ 702,488	\$ 710,747	\$ 700,058	\$ 695,000
1-Dec-09	\$ 1,174,444	\$ 755,051	\$ 1,376,857	\$ 1,172,929	\$ 761,808	\$ 1,173,479	\$ 759,761	\$ 1,174,444	\$ 1,174,000
1-Dec-10	\$ 688,851	\$ 689,838	\$ 688,417	\$ 691,076	\$ 696,934	\$ 691,419	\$ 693,943	\$ 688,851	\$ 684,000
1-Dec-11	\$ 1,010,038	\$ 1,027,247	\$ 1,002,357	\$ 1,009,961	\$ 1,026,356	\$ 1,010,428	\$ 1,021,872	\$ 1,010,038	\$ 1,010,000
1-Dec-12	\$ 1,665,539	\$ 1,232,338	\$ 1,860,915	\$ 1,656,024	\$ 1,221,423	\$ 1,656,615	\$ 1,215,079	\$ 1,665,539	\$ 1,670,000
1-Dec-13	\$ 1,007,076	\$ 699,899	\$ 1,142,610	\$ 1,007,379	\$ 716,218	\$ 1,007,223	\$ 705,013	\$ 1,007,076	\$ 1,041,000
1-Dec-14	\$ 551,685	\$ 515,138	\$ 568,402	\$ 560,849	\$ 545,285	\$ 559,571	\$ 528,279	\$ 551,685	\$ 552,000
1-Dec-15	\$ 797,593	\$ 748,851	\$ 820,963	\$ 806,014	\$ 777,009	\$ 803,542	\$ 749,920	\$ 797,593	\$ 798,000
1-Dec-16	\$ 799,053	\$ 554,662	\$ 911,198	\$ 812,782	\$ 616,635	\$ 809,215	\$ 573,479	\$ 798,255	\$ 806,000
1-Dec-17	\$ 728,478	\$ 447,858	\$ 842,704	\$ 752,746	\$ 558,399	\$ 748,696	\$ 485,664	\$ 727,024	\$ 775,000
1-Dec-18	\$ 2,263,624	\$ 644,514	\$ 2,898,618	\$ 2,226,750	\$ 785,720	\$ 2,225,626	\$ 670,474	\$ 2,256,847	\$ 2,226,000
1-Dec-19	\$ 1,283,601	\$ 363,936	\$ 1,596,076	\$ 1,293,897	\$ 594,737	\$ 1,294,096	\$ 440,687	\$ 1,284,343	\$ 1,294,000
1-Dec-20	\$ 1,817,363	\$ 840,036	\$ 2,330,067	\$ 1,794,726	\$ 1,164,766	\$ 1,805,701	\$ 838,925	\$ 1,818,121	\$ 1,800,000
1-Dec-21	\$ 2,961,084	\$ 537,757	\$ 3,557,771	\$ 2,523,828	\$ 1,567,291	\$ 2,584,354	\$ 827,097	\$ 2,905,342	\$ 2,524,000
Total	\$ 37,911,303	\$ 29,538,085	\$ 40,806,183	\$ 23,721,579	\$ 18,259,085	\$ 23,787,916	\$ 16,750,356	\$ 37,848,032	\$ 37,499,043

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 @ 11/30/22
Unpaid Liabilities at Various Discount Rates
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.13%
Prior	264	Various	\$ 13,750,000	\$ 13,746,594	\$ 13,091,567	\$ 655,026	\$ 3,407	\$ 658,433	\$ 576,340
1-Dec-01	252	\$ 9,500,000	\$ 627,000	\$ 624,425	\$ 620,425	\$ 4,000	\$ 2,575	\$ 6,575	\$ 5,618
1-Dec-02	240	\$ 9,500,000	\$ 920,000	\$ 918,650	\$ 898,593	\$ 20,056	\$ 1,350	\$ 21,407	\$ 17,817
1-Dec-03	228	Various	\$ 1,328,000	\$ 1,325,112	\$ 1,217,922	\$ 107,190	\$ 2,888	\$ 110,078	\$ 89,359
1-Dec-04	216	Unlimited	\$ 1,389,000	\$ 1,385,371	\$ 1,261,451	\$ 123,921	\$ 3,629	\$ 127,549	\$ 101,083
1-Dec-05	204	Unlimited	\$ 763,576	\$ 763,576	\$ 763,576	\$ -	\$ -	\$ -	\$ -
1-Dec-06	192	Unlimited	\$ 925,319	\$ 925,319	\$ 925,319	\$ -	\$ -	\$ -	\$ -
1-Dec-07	180	Unlimited	\$ 747,148	\$ 747,148	\$ 747,148	\$ -	\$ -	\$ -	\$ -
1-Dec-08	168	Unlimited	\$ 695,000	\$ 694,482	\$ 689,795	\$ 4,687	\$ 518	\$ 5,205	\$ 3,973
1-Dec-09	156	Unlimited	\$ 1,174,000	\$ 1,163,927	\$ 734,658	\$ 429,268	\$ 10,073	\$ 439,342	\$ 337,667
1-Dec-10	144	Unlimited	\$ 684,000	\$ 682,000	\$ 667,867	\$ 14,133	\$ 2,000	\$ 16,133	\$ 12,500
1-Dec-11	132	Unlimited	\$ 1,010,000	\$ 997,997	\$ 988,598	\$ 9,399	\$ 12,003	\$ 21,402	\$ 16,700
1-Dec-12	120	Unlimited	\$ 1,670,000	\$ 1,642,399	\$ 1,178,900	\$ 463,500	\$ 27,601	\$ 491,100	\$ 383,009
1-Dec-13	108	Unlimited	\$ 1,041,000	\$ 991,102	\$ 664,895	\$ 326,207	\$ 49,898	\$ 376,105	\$ 293,243
1-Dec-14	96	Unlimited	\$ 552,000	\$ 541,310	\$ 485,490	\$ 55,820	\$ 10,690	\$ 66,510	\$ 51,815
1-Dec-15	84	Unlimited	\$ 798,000	\$ 778,700	\$ 696,696	\$ 82,005	\$ 19,300	\$ 101,304	\$ 79,869
1-Dec-16	72	Unlimited	\$ 806,000	\$ 776,244	\$ 507,274	\$ 268,970	\$ 29,756	\$ 298,726	\$ 238,478
1-Dec-17	60	Unlimited	\$ 775,000	\$ 700,678	\$ 393,841	\$ 306,836	\$ 74,322	\$ 381,159	\$ 315,930
1-Dec-18	48	Unlimited	\$ 2,226,000	\$ 2,149,297	\$ 542,145	\$ 1,607,153	\$ 76,703	\$ 1,683,855	\$ 1,414,888
1-Dec-19	36	Unlimited	\$ 1,294,000	\$ 1,200,760	\$ 286,104	\$ 914,656	\$ 93,240	\$ 1,007,896	\$ 858,187
1-Dec-20	24	Unlimited	\$ 1,800,000	\$ 1,497,863	\$ 518,570	\$ 979,293	\$ 302,137	\$ 1,281,430	\$ 1,139,552
1-Dec-21	12	Unlimited	\$ 2,524,000	\$ 1,773,339	\$ 122,497	\$ 1,650,842	\$ 750,661	\$ 2,401,503	\$ 2,203,494
Total			\$ 37,499,043	\$ 36,026,293	\$ 28,003,331	\$ 8,022,962	\$ 1,472,750	\$ 9,495,712	\$ 8,139,524

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 (10) : Column (9) discounted



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

**Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/22
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	264	\$ 13,746,594	1.000	\$ 13,746,594	\$ 13,091,567	1.011	\$ 13,238,170	\$ 655,026	1.000	\$ 13,746,594																		
1-Dec-01	252	\$ 624,425	1.001	\$ 625,048	\$ 620,425	1.012	\$ 628,145	\$ 4,000	1.088	\$ 624,778																		
1-Dec-02	240	\$ 918,650	1.002	\$ 920,483	\$ 898,593	1.013	\$ 910,682	\$ 20,056	1.177	\$ 922,190																		
1-Dec-03	228	\$ 1,325,112	1.003	\$ 1,329,091	\$ 1,217,922	1.015	\$ 1,235,584	\$ 107,190	1.265	\$ 1,353,511																		
1-Dec-04	216	\$ 1,385,371	1.004	\$ 1,390,921	\$ 1,261,451	1.016	\$ 1,281,024	\$ 123,921	1.353	\$ 1,429,169																		
1-Dec-05	204	\$ 763,576	1.005	\$ 767,401	\$ 763,576	1.017	\$ 776,199	\$ -	1.442	\$ 763,576																		
1-Dec-06	192	\$ 925,319	1.006	\$ 930,885	\$ 925,319	1.019	\$ 942,497	\$ -	1.488	\$ 925,319																		
1-Dec-07	180	\$ 747,148	1.007	\$ 752,394	\$ 747,148	1.021	\$ 762,541	\$ -	1.528	\$ 747,148																		
1-Dec-08	168	\$ 694,482	1.008	\$ 700,058	\$ 689,795	1.024	\$ 706,118	\$ 4,687	1.526	\$ 696,946																		
1-Dec-09	156	\$ 1,163,927	1.009	\$ 1,174,444	\$ 734,658	1.028	\$ 755,051	\$ 429,268	1.496	\$ 1,376,857																		
1-Dec-10	144	\$ 682,000	1.010	\$ 688,851	\$ 667,867	1.033	\$ 689,838	\$ 14,133	1.454	\$ 688,417																		
1-Dec-11	132	\$ 997,997	1.012	\$ 1,010,038	\$ 988,598	1.039	\$ 1,027,247	\$ 9,399	1.464	\$ 1,002,357																		
1-Dec-12	120	\$ 1,642,399	1.014	\$ 1,665,539	\$ 1,178,900	1.045	\$ 1,232,338	\$ 463,500	1.471	\$ 1,860,915																		
1-Dec-13	108	\$ 991,102	1.016	\$ 1,007,076	\$ 664,895	1.053	\$ 699,899	\$ 326,207	1.464	\$ 1,142,610																		
1-Dec-14	96	\$ 541,310	1.019	\$ 551,685	\$ 485,490	1.061	\$ 515,138	\$ 55,820	1.485	\$ 568,402																		
1-Dec-15	84	\$ 778,700	1.024	\$ 797,593	\$ 696,696	1.075	\$ 748,851	\$ 82,005	1.515	\$ 820,963																		
1-Dec-16	72	\$ 776,244	1.029	\$ 799,053	\$ 507,274	1.093	\$ 554,662	\$ 268,970	1.502	\$ 911,198																		
1-Dec-17	60	\$ 700,678	1.040	\$ 728,478	\$ 393,841	1.137	\$ 447,858	\$ 306,836	1.463	\$ 842,704																		
1-Dec-18	48	\$ 2,149,297	1.053	\$ 2,263,624	\$ 542,145	1.189	\$ 644,514	\$ 1,607,153	1.466	\$ 2,898,618																		
1-Dec-19	36	\$ 1,200,760	1.069	\$ 1,283,601	\$ 286,104	1.272	\$ 363,936	\$ 914,656	1.432	\$ 1,596,076																		
1-Dec-20	24	\$ 1,497,863	1.213	\$ 1,817,363	\$ 518,570	1.620	\$ 840,036	\$ 979,293	1.850	\$ 2,330,067																		
1-Dec-21	12	\$ 1,773,339	1.670	\$ 2,961,084	\$ 122,497	4.390	\$ 537,757	\$ 1,650,842	2.081	\$ 3,557,771																		
Total		\$ 36,026,293		\$ 37,911,303	\$ 28,003,331		\$ 29,538,085	\$ 8,022,962		\$ 40,806,183																		

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 @ 11/30/22
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	252	\$ 624,425	3.739	1.000	\$ 2,334,683	7,853,801	1.001	0.39	\$ 812,256	\$ 625,234
1-Dec-02	240	\$ 918,650	3.494	1.000	\$ 3,210,065	7,735,444	1.002	0.40	\$ 881,605	\$ 920,406
1-Dec-03	228	\$ 1,325,112	3.266	1.000	\$ 4,327,239	7,741,828	1.003	0.41	\$ 960,297	\$ 1,327,987
1-Dec-04	216	\$ 1,385,371	3.052	1.000	\$ 4,228,056	7,582,864	1.004	0.39	\$ 979,012	\$ 1,389,278
1-Dec-05	204	\$ 763,576	2.852	1.000	\$ 2,177,924	7,455,768	1.005	0.37	\$ 959,928	\$ 768,361
1-Dec-06	192	\$ 925,319	2.666	1.000	\$ 2,466,598	6,980,493	1.006	0.35	\$ 914,416	\$ 930,786
1-Dec-07	180	\$ 747,148	2.491	1.000	\$ 1,861,359	6,757,510	1.007	0.33	\$ 898,365	\$ 753,412
1-Dec-08	168	\$ 694,482	2.332	1.000	\$ 1,619,643	7,366,524	1.008	0.32	\$ 1,005,251	\$ 702,488
1-Dec-09	156	\$ 1,163,927	2.214	1.000	\$ 2,576,366	7,507,132	1.009	0.31	\$ 1,066,658	\$ 1,173,479
1-Dec-10	144	\$ 682,000	2.199	1.000	\$ 1,499,476	6,769,640	1.010	0.31	\$ 947,126	\$ 691,419
1-Dec-11	132	\$ 997,997	2.049	1.000	\$ 2,045,388	6,939,179	1.012	0.31	\$ 1,042,745	\$ 1,010,428
1-Dec-12	120	\$ 1,642,399	1.904	1.000	\$ 3,127,091	6,299,220	1.014	0.31	\$ 1,023,209	\$ 1,656,615
1-Dec-13	108	\$ 991,102	1.766	1.000	\$ 1,750,710	6,115,748	1.016	0.29	\$ 1,016,350	\$ 1,007,223
1-Dec-14	96	\$ 541,310	1.644	1.000	\$ 889,771	5,761,750	1.019	0.28	\$ 971,020	\$ 559,571
1-Dec-15	84	\$ 778,700	1.529	1.000	\$ 1,190,783	5,949,284	1.024	0.27	\$ 1,048,734	\$ 803,542
1-Dec-16	72	\$ 776,244	1.420	1.000	\$ 1,102,512	6,133,866	1.029	0.27	\$ 1,155,056	\$ 809,215
1-Dec-17	60	\$ 700,678	1.318	1.000	\$ 923,504	6,067,060	1.040	0.27	\$ 1,258,253	\$ 748,696
1-Dec-18	48	\$ 2,149,297	1.226	1.000	\$ 2,634,089	6,340,909	1.053	0.29	\$ 1,511,287	\$ 2,225,626
1-Dec-19	36	\$ 1,200,760	1.145	1.000	\$ 1,374,750	5,574,411	1.069	0.30	\$ 1,446,215	\$ 1,294,096
1-Dec-20	24	\$ 1,497,863	1.070	1.000	\$ 1,602,713	6,095,843	1.213	0.31	\$ 1,751,029	\$ 1,805,701
1-Dec-21	12	\$ 1,773,339	1.000	1.000	\$ 1,773,339	6,312,408	1.670	0.32	\$ 2,021,883	\$ 2,584,354
Total		\$ 22,279,700			\$ 44,716,059	141,340,682			\$ 23,670,696	\$ 23,787,916

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	252	\$ 620,425	3.739	1.000	\$ 2,319,727	7,853,801	1.012	0.37	\$ 779,110	\$ 630,000
1-Dec-02	240	\$ 898,593	3.494	1.000	\$ 3,139,982	7,735,444	1.013	0.38	\$ 841,775	\$ 909,767
1-Dec-03	228	\$ 1,217,922	3.266	1.000	\$ 3,977,204	7,741,828	1.015	0.38	\$ 909,916	\$ 1,230,929
1-Dec-04	216	\$ 1,261,451	3.052	1.000	\$ 3,849,859	7,582,864	1.016	0.37	\$ 924,101	\$ 1,275,570
1-Dec-05	204	\$ 763,576	2.852	1.000	\$ 2,177,924	7,455,768	1.017	0.35	\$ 905,779	\$ 778,306
1-Dec-06	192	\$ 925,319	2.666	1.000	\$ 2,466,598	6,980,493	1.019	0.33	\$ 857,339	\$ 940,945
1-Dec-07	180	\$ 747,148	2.491	1.000	\$ 1,861,359	6,757,510	1.021	0.31	\$ 829,745	\$ 763,898
1-Dec-08	168	\$ 689,795	2.332	1.000	\$ 1,608,711	7,366,524	1.024	0.29	\$ 906,346	\$ 710,747
1-Dec-09	156	\$ 734,658	2.214	1.000	\$ 1,626,175	7,507,132	1.028	0.27	\$ 929,420	\$ 759,761
1-Dec-10	144	\$ 667,867	2.199	1.000	\$ 1,468,404	6,769,640	1.033	0.27	\$ 818,726	\$ 693,943
1-Dec-11	132	\$ 988,598	2.049	1.000	\$ 2,026,124	6,939,179	1.039	0.26	\$ 884,387	\$ 1,021,872
1-Dec-12	120	\$ 1,178,900	1.904	1.000	\$ 2,244,598	6,299,220	1.045	0.25	\$ 834,335	\$ 1,215,079
1-Dec-13	108	\$ 664,895	1.766	1.000	\$ 1,174,489	6,115,748	1.053	0.23	\$ 802,146	\$ 705,013
1-Dec-14	96	\$ 485,490	1.644	1.000	\$ 798,017	5,761,750	1.061	0.21	\$ 743,470	\$ 528,279
1-Dec-15	84	\$ 696,696	1.529	1.000	\$ 1,065,383	5,949,284	1.075	0.20	\$ 764,195	\$ 749,920
1-Dec-16	72	\$ 507,274	1.420	1.000	\$ 720,490	6,133,866	1.093	0.18	\$ 774,913	\$ 573,479
1-Dec-17	60	\$ 393,841	1.318	1.000	\$ 519,089	6,067,060	1.137	0.17	\$ 761,318	\$ 485,664
1-Dec-18	48	\$ 542,145	1.226	1.000	\$ 664,430	6,340,909	1.189	0.16	\$ 807,955	\$ 670,474
1-Dec-19	36	\$ 286,104	1.145	1.000	\$ 327,561	5,574,411	1.272	0.15	\$ 722,818	\$ 440,687
1-Dec-20	24	\$ 518,570	1.070	1.000	\$ 554,870	6,095,843	1.620	0.15	\$ 837,134	\$ 838,925
1-Dec-21	12	\$ 122,497	1.000	1.000	\$ 122,497	6,312,408	4.390	0.14	\$ 912,450	\$ 827,097
Total		\$ 14,911,764			\$ 34,713,491	141,340,682			\$ 17,547,376	\$ 16,750,356

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	264	7,414	1.000	7,414	1.000	\$ 1,854	\$ 1,854	0	\$ 1,813	\$ 13,746,594
1-Dec-01	252	490	1.000	490	1.001	\$ 1,274	\$ 1,276	0	\$ 1,915	\$ 625,048
1-Dec-02	240	514	1.000	514	1.002	\$ 1,787	\$ 1,791	0	\$ 2,042	\$ 920,483
1-Dec-03	228	593	1.000	593	1.003	\$ 2,235	\$ 2,241	0	\$ 2,189	\$ 1,329,091
1-Dec-04	216	518	1.000	518	1.004	\$ 2,674	\$ 2,685	0	\$ 2,344	\$ 1,390,921
1-Dec-05	204	510	1.000	510	1.005	\$ 1,497	\$ 1,505	0	\$ 2,485	\$ 767,401
1-Dec-06	192	318	1.000	318	1.006	\$ 2,910	\$ 2,927	0	\$ 2,713	\$ 930,885
1-Dec-07	180	274	1.000	274	1.007	\$ 2,727	\$ 2,746	0	\$ 2,969	\$ 752,394
1-Dec-08	168	280	1.000	280	1.008	\$ 2,480	\$ 2,500	0	\$ 3,279	\$ 700,058
1-Dec-09	156	214	1.000	214	1.009	\$ 5,439	\$ 5,488	0	\$ 3,665	\$ 1,174,444
1-Dec-10	144	202	1.000	202	1.010	\$ 3,376	\$ 3,410	0	\$ 3,854	\$ 688,851
1-Dec-11	132	169	1.000	169	1.012	\$ 5,905	\$ 5,977	0	\$ 4,392	\$ 1,010,038
1-Dec-12	120	143	1.000	143	1.014	\$ 11,485	\$ 11,647	0	\$ 4,972	\$ 1,665,539
1-Dec-13	108	158	1.000	158	1.016	\$ 6,273	\$ 6,374	0	\$ 5,269	\$ 1,007,076
1-Dec-14	96	158	1.000	158	1.019	\$ 3,426	\$ 3,492	0	\$ 5,468	\$ 551,685
1-Dec-15	84	176	1.000	176	1.024	\$ 4,424	\$ 4,532	0	\$ 5,791	\$ 797,593
1-Dec-16	72	167	1.001	167	1.028	\$ 4,648	\$ 4,780	0	\$ 6,244	\$ 798,255
1-Dec-17	60	180	1.002	180	1.038	\$ 3,893	\$ 4,039	0	\$ 6,876	\$ 727,024
1-Dec-18	48	159	1.003	159	1.050	\$ 13,518	\$ 14,194	0	\$ 7,883	\$ 2,256,847
1-Dec-19	36	222	1.006	223	1.063	\$ 5,409	\$ 5,747	1	\$ 8,413	\$ 1,284,343
1-Dec-20	24	171	1.010	173	1.201	\$ 8,759	\$ 10,522	2	\$ 9,408	\$ 1,818,121
1-Dec-21	12	171	1.050	179	1.591	\$ 10,370	\$ 16,497	8	\$ 10,539	\$ 2,905,342
Total		13,201		13,212				11		\$ 37,848,032

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 @ 11/30/22
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	\$ 624,425	1.001	0.14	1.000	0.14	\$ 622,600	0.001	\$ 620	\$ 625,045
1-Dec-02	\$ 9,500,000	\$ 918,650	1.002	0.15	1.000	0.15	\$ 656,143	0.002	\$ 1,307	\$ 919,956
1-Dec-03	Various	\$ 1,325,112	1.003	0.15	1.000	0.15	\$ 702,687	0.003	\$ 2,104	\$ 1,327,216
1-Dec-04	Unlimited	\$ 1,385,371	1.004	0.16	1.000	0.16	\$ 736,437	0.004	\$ 2,938	\$ 1,388,310
1-Dec-05	Unlimited	\$ 763,576	1.005	0.17	1.000	0.17	\$ 774,780	0.005	\$ 3,862	\$ 767,438
1-Dec-06	Unlimited	\$ 925,319	1.006	0.17	1.000	0.17	\$ 776,169	0.006	\$ 4,641	\$ 929,960
1-Dec-07	Unlimited	\$ 747,148	1.007	0.18	1.000	0.18	\$ 803,971	0.007	\$ 5,605	\$ 752,754
1-Dec-08	Unlimited	\$ 694,482	1.008	0.19	1.000	0.19	\$ 936,228	0.008	\$ 7,456	\$ 701,938
1-Dec-09	Unlimited	\$ 1,163,927	1.009	0.19	1.000	0.19	\$ 1,005,238	0.009	\$ 9,002	\$ 1,172,929
1-Dec-10	Unlimited	\$ 682,000	1.010	0.19	1.000	0.19	\$ 912,614	0.010	\$ 9,076	\$ 691,076
1-Dec-11	Unlimited	\$ 997,997	1.012	0.19	1.000	0.19	\$ 1,003,549	0.012	\$ 11,964	\$ 1,009,961
1-Dec-12	Unlimited	\$ 1,642,399	1.014	0.20	1.000	0.20	\$ 980,623	0.014	\$ 13,624	\$ 1,656,024
1-Dec-13	Unlimited	\$ 991,102	1.016	0.21	1.000	0.21	\$ 1,026,196	0.016	\$ 16,277	\$ 1,007,379
1-Dec-14	Unlimited	\$ 541,310	1.019	0.22	1.000	0.22	\$ 1,038,962	0.019	\$ 19,538	\$ 560,849
1-Dec-15	Unlimited	\$ 778,700	1.024	0.23	1.000	0.23	\$ 1,153,132	0.024	\$ 27,314	\$ 806,014
1-Dec-16	Unlimited	\$ 776,244	1.029	0.24	1.000	0.24	\$ 1,280,048	0.029	\$ 36,538	\$ 812,782
1-Dec-17	Unlimited	\$ 700,678	1.040	0.25	1.000	0.25	\$ 1,364,378	0.038	\$ 52,068	\$ 752,746
1-Dec-18	Unlimited	\$ 2,149,297	1.053	0.26	1.000	0.26	\$ 1,533,538	0.051	\$ 77,453	\$ 2,226,750
1-Dec-19	Unlimited	\$ 1,200,760	1.069	0.28	1.000	0.28	\$ 1,443,140	0.065	\$ 93,137	\$ 1,293,897
1-Dec-20	Unlimited	\$ 1,497,863	1.213	0.29	1.000	0.29	\$ 1,688,601	0.176	\$ 296,863	\$ 1,794,726
1-Dec-21	Unlimited	\$ 1,773,339	1.670	0.30	1.000	0.30	\$ 1,870,992	0.401	\$ 750,489	\$ 2,523,828
Total		\$ 22,279,700					\$ 22,310,027		\$ 1,441,879	\$ 23,721,579

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 @ 11/30/22
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	1.012	0.14	1.000	0.14	\$ 622,600	0.012	\$ 7,651	\$ 628,076
1-Dec-02	\$ 9,500,000	\$ 898,593	1.013	0.15	1.000	0.15	\$ 656,143	0.013	\$ 8,709	\$ 907,303
1-Dec-03	Various	\$ 1,217,922	1.015	0.15	1.000	0.15	\$ 702,687	0.014	\$ 10,045	\$ 1,227,967
1-Dec-04	Unlimited	\$ 1,261,451	1.016	0.16	1.000	0.16	\$ 736,437	0.015	\$ 11,252	\$ 1,272,703
1-Dec-05	Unlimited	\$ 763,576	1.017	0.17	1.000	0.17	\$ 774,780	0.016	\$ 12,600	\$ 776,176
1-Dec-06	Unlimited	\$ 925,319	1.019	0.17	1.000	0.17	\$ 776,169	0.018	\$ 14,147	\$ 939,466
1-Dec-07	Unlimited	\$ 747,148	1.021	0.18	1.000	0.18	\$ 803,971	0.020	\$ 16,229	\$ 763,377
1-Dec-08	Unlimited	\$ 689,795	1.024	0.19	1.000	0.19	\$ 936,228	0.023	\$ 21,643	\$ 711,437
1-Dec-09	Unlimited	\$ 734,658	1.028	0.19	1.000	0.19	\$ 1,005,238	0.027	\$ 27,150	\$ 761,808
1-Dec-10	Unlimited	\$ 667,867	1.033	0.19	1.000	0.19	\$ 912,614	0.032	\$ 29,066	\$ 696,934
1-Dec-11	Unlimited	\$ 988,598	1.039	0.19	1.000	0.19	\$ 1,003,549	0.038	\$ 37,757	\$ 1,026,356
1-Dec-12	Unlimited	\$ 1,178,900	1.045	0.20	1.000	0.20	\$ 980,623	0.043	\$ 42,523	\$ 1,221,423
1-Dec-13	Unlimited	\$ 664,895	1.053	0.21	1.000	0.21	\$ 1,026,196	0.050	\$ 51,324	\$ 716,218
1-Dec-14	Unlimited	\$ 485,490	1.061	0.22	1.000	0.22	\$ 1,038,962	0.058	\$ 59,795	\$ 545,285
1-Dec-15	Unlimited	\$ 696,696	1.075	0.23	1.000	0.23	\$ 1,153,132	0.070	\$ 80,313	\$ 777,009
1-Dec-16	Unlimited	\$ 507,274	1.093	0.24	1.000	0.24	\$ 1,280,048	0.085	\$ 109,361	\$ 616,635
1-Dec-17	Unlimited	\$ 393,841	1.137	0.25	1.000	0.25	\$ 1,364,378	0.121	\$ 164,558	\$ 558,399
1-Dec-18	Unlimited	\$ 542,145	1.189	0.26	1.000	0.26	\$ 1,533,538	0.159	\$ 243,575	\$ 785,720
1-Dec-19	Unlimited	\$ 286,104	1.272	0.28	1.000	0.28	\$ 1,443,140	0.214	\$ 308,632	\$ 594,737
1-Dec-20	Unlimited	\$ 518,570	1.620	0.29	1.000	0.29	\$ 1,688,601	0.383	\$ 646,196	\$ 1,164,766
1-Dec-21	Unlimited	\$ 122,497	4.390	0.30	1.000	0.30	\$ 1,870,992	0.772	\$ 1,444,794	\$ 1,567,291
Total		\$ 14,911,764					\$ 22,310,027		\$ 3,347,322	\$ 18,259,085

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 @ 11/30/22
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2)		(3)		(4)		(5)	(6)	(7)		(8)	(9)	
	Incurred LDF's		Paid LDF's		Unlimited		Limited	Claim CDF	Trend Factors		Loss	Exposure	Payroll (in 00s)
	Unlimited	Limited	Unlimited	Limited	Unlimited	Limited							
Prior	1.000	1.000	1.011	1.011	1.000	4.000	1.837	-					
1-Dec-01	1.001	1.001	1.012	1.012	1.000	3.739	1.806	4,348,459					
1-Dec-02	1.002	1.002	1.013	1.013	1.000	3.494	1.754	4,411,415					
1-Dec-03	1.003	1.003	1.015	1.015	1.000	3.266	1.707	4,536,443					
1-Dec-04	1.004	1.004	1.016	1.016	1.000	3.052	1.653	4,587,757					
1-Dec-05	1.005	1.005	1.017	1.017	1.000	2.852	1.605	4,646,188					
1-Dec-06	1.006	1.006	1.019	1.019	1.000	2.666	1.558	4,480,513					
1-Dec-07	1.007	1.007	1.021	1.021	1.000	2.491	1.516	4,456,640					
1-Dec-08	1.008	1.008	1.024	1.024	1.000	2.332	1.469	5,016,244					
1-Dec-09	1.009	1.009	1.028	1.028	1.000	2.214	1.426	5,265,352					
1-Dec-10	1.010	1.010	1.033	1.033	1.000	2.199	1.384	4,890,532					
1-Dec-11	1.012	1.012	1.039	1.039	1.000	2.049	1.347	5,150,838					
1-Dec-12	1.014	1.014	1.045	1.045	1.000	1.904	1.305	4,827,828					
1-Dec-13	1.016	1.016	1.053	1.053	1.000	1.766	1.267	4,827,828					
1-Dec-14	1.019	1.019	1.061	1.061	1.000	1.644	1.230	4,684,830					
1-Dec-15	1.024	1.024	1.075	1.075	1.000	1.529	1.197	4,970,309					
1-Dec-16	1.029	1.029	1.093	1.093	1.001	1.420	1.159	5,291,126					
1-Dec-17	1.040	1.040	1.137	1.137	1.002	1.318	1.126	5,390,504					
1-Dec-18	1.053	1.053	1.189	1.189	1.003	1.226	1.093	5,802,830					
1-Dec-19	1.069	1.069	1.272	1.272	1.006	1.145	1.063	5,241,633					
1-Dec-20	1.213	1.213	1.620	1.620	1.010	1.070	1.030	5,918,294					
1-Dec-21	1.670	1.670	4.390	4.390	1.050	1.000	1.000	6,312,408					

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** **0.75** **0.75**
 ELR for B/F Method : **0.31**
 Generalized Cape Cod Decay Factor: **0.75**
 Loss Limitation : **Exhibit 10, Column (5)**
 Discount Rates : **4.13%**
 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 (8) : Flat 3.00%**
Column (6) : Company Exclusively **Column (9) : supplied by Cook County, Illinois**
Column (7) : Medical CPI Indices and Benefit Level Adjustment Factors



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

**Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/22
Limited Loss Calculations**

(1) Policy Period Inception	(2)		(3)	(4)	(5)	(6)				(7)	(8)	(9)	(10)		(11)	(12)
	Unlimited			Case O/S	Retention	Claims valued over the Retention				Incurred	No.	Paid	Limited		Case O/S	
Incurred	Paid		No.			Incurred	No.		Incurred				Paid	Incurred		Paid
Prior	\$ 13,746,593	\$ 13,091,567	\$ 655,026	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 13,746,594	\$ 13,091,567	\$ 655,026		
1-Dec-01	\$ 624,425	\$ 620,425	\$ 4,000	\$ 9,500,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 624,425	\$ 620,425	\$ 4,000		
1-Dec-02	\$ 918,650	\$ 898,593	\$ 20,056	\$ 9,500,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 918,650	\$ 898,593	\$ 20,056		
1-Dec-03	\$ 1,325,112	\$ 1,217,922	\$ 107,190	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,325,112	\$ 1,217,922	\$ 107,190		
1-Dec-04	\$ 1,385,371	\$ 1,261,451	\$ 123,921	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,385,371	\$ 1,261,451	\$ 123,921		
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	\$ 1,163,927	\$ 734,658	\$ 429,268	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,163,927	\$ 734,658	\$ 429,268		
1-Dec-10	\$ 682,000	\$ 667,867	\$ 14,133	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 682,000	\$ 667,867	\$ 14,133		
1-Dec-11	\$ 997,997	\$ 988,598	\$ 9,399	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 997,997	\$ 988,598	\$ 9,399		
1-Dec-12	\$ 1,642,399	\$ 1,178,900	\$ 463,500	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,642,399	\$ 1,178,900	\$ 463,500		
1-Dec-13	\$ 991,102	\$ 664,895	\$ 326,207	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 991,102	\$ 664,895	\$ 326,207		
1-Dec-14	\$ 541,310	\$ 485,490	\$ 55,820	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 541,310	\$ 485,490	\$ 55,820		
1-Dec-15	\$ 778,700	\$ 696,696	\$ 82,005	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 778,700	\$ 696,696	\$ 82,005		
1-Dec-16	\$ 776,244	\$ 507,274	\$ 268,970	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 776,244	\$ 507,274	\$ 268,970		
1-Dec-17	\$ 700,678	\$ 393,841	\$ 306,836	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 700,678	\$ 393,841	\$ 306,836		
1-Dec-18	\$ 2,149,297	\$ 542,145	\$ 1,607,153	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 2,149,297	\$ 542,145	\$ 1,607,153		
1-Dec-19	\$ 1,200,760	\$ 286,104	\$ 914,656	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,200,760	\$ 286,104	\$ 914,656		
1-Dec-20	\$ 1,497,863	\$ 518,570	\$ 979,293	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,497,863	\$ 518,570	\$ 979,293		
1-Dec-21	\$ 1,773,339	\$ 122,497	\$ 1,650,842	Unlimited	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,773,339	\$ 122,497	\$ 1,650,842		
	\$ 36,026,293	\$ 28,003,331	\$ 8,022,962		-	\$ -	-	\$ -	-	\$ -	-	\$ 36,026,293	\$ 28,003,331	\$ 8,022,962		

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 @ 11/30/22
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	7,853,801	490	1.000	490	1.000	490	0.00624%		490	490	0.00624%
1-Dec-02	7,735,444	514	1.000	514	1.000	514	0.00664%		514	514	0.00664%
1-Dec-03	7,741,828	593	1.000	593	1.000	593	0.00766%		593	593	0.00766%
1-Dec-04	7,582,864	518	1.000	518	1.000	518	0.00683%		518	518	0.00683%
1-Dec-05	7,455,768	510	1.000	510	1.000	510	0.00684%		510	510	0.00684%
1-Dec-06	6,980,493	318	1.000	318	1.000	318	0.00456%		318	318	0.00456%
1-Dec-07	6,757,510	274	1.000	274	1.000	274	0.00405%		274	274	0.00405%
1-Dec-08	7,366,524	280	1.000	280	1.000	280	0.00380%		280	280	0.00380%
1-Dec-09	7,507,132	214	1.000	214	1.000	214	0.00285%		214	214	0.00285%
1-Dec-10	6,769,640	202	1.000	202	1.000	202	0.00298%		202	202	0.00298%
1-Dec-11	6,939,179	169	1.000	169	1.000	169	0.00244%		169	169	0.00244%
1-Dec-12	6,299,220	143	1.000	143	1.000	143	0.00227%		143	143	0.00227%
1-Dec-13	6,115,748	158	1.000	158	1.000	158	0.00258%		158	158	0.00258%
1-Dec-14	5,761,750	158	1.000	158	1.000	158	0.00274%		158	158	0.00274%
1-Dec-15	5,949,284	176	1.000	176	1.000	176	0.00296%		176	176	0.00296%
1-Dec-16	6,133,866	167	1.001	167	1.000	167	0.00273%		167	167	0.00273%
1-Dec-17	6,067,060	180	1.002	180	1.000	180	0.00297%		180	180	0.00297%
1-Dec-18	6,340,909	159	1.003	159	1.000	159	0.00252%		159	159	0.00252%
1-Dec-19	5,574,411	222	1.006	223	1.000	223	0.00401%		223	223	0.00401%
1-Dec-20	6,095,843	171	1.010	173	1.000	173	0.00283%		173	173	0.00283%
1-Dec-21	6,312,408	171	1.050	179	1.000	179	0.00284%		179	179	0.00284%
Total	141,340,682	5,787		5,800		5,800	0.00410%		5,800	5,798	0.00410%

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 202
 Column (10) : Selected Trended Ultimate Claims
 Column (11) : Column (10) / Column (6)
 Column (12) : Column (10) / Column (2)

Selected Bornhuetter-Ferguson Claim Count for Policy Period 1-Dec-21											
<u>Weighted Averages excluding Policy Period 1-Dec-21</u>											
Last 5 Policies	30,390,632					915	0.00301%		915		0.00301%
Last 3 Policies	17,982,663					576	0.00320%		576		0.00320%
Last 2 Policies	12,408,251					352	0.00284%		352		0.00284%
Last 20 Policies	135,028,274					5,620	0.00416%		5,620		0.00416%
Selected Bornhuetter-Ferguson Frequency Rate							0.00320%				
Payroll for 1-Dec-21							6,312,408				
Apriori Expected Count for 1-Dec-21							202				



Cook County, Illinois
Workers Compensation - Health Care Facilities (Medical)
Workers Compensation - Health Care Facilities (Medical) Experience @ 11/30/22
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	624,425	627,000	4.000	1.000	2,508,413	4,348,459	1.860	8,089,415	0.31
1-Dec-02	918,650	920,000	3.739	1.000	3,439,818	4,411,415	1.806	7,967,507	0.43
1-Dec-03	1,325,112	1,328,000	3.494	1.000	4,640,237	4,536,443	1.758	7,974,083	0.58
1-Dec-04	1,385,371	1,389,000	3.266	1.000	4,535,870	4,587,757	1.702	7,810,350	0.58
1-Dec-05	763,576	763,576	3.052	1.000	2,330,379	4,646,188	1.653	7,679,441	0.30
1-Dec-06	925,319	925,319	2.852	1.000	2,639,260	4,480,513	1.605	7,189,908	0.37
1-Dec-07	747,148	747,148	2.666	1.000	1,991,654	4,456,640	1.562	6,960,235	0.29
1-Dec-08	694,482	695,000	2.495	1.000	1,734,310	5,016,244	1.513	7,587,520	0.23
1-Dec-09	1,163,927	1,174,000	2.368	1.000	2,780,570	5,265,352	1.469	7,732,346	0.36
1-Dec-10	682,000	684,000	2.353	1.000	1,609,145	4,890,532	1.426	6,972,729	0.23
1-Dec-11	997,997	1,010,000	2.193	1.000	2,214,886	5,150,838	1.388	7,147,354	0.31
1-Dec-12	1,642,399	1,670,000	2.037	1.000	3,402,217	4,827,828	1.344	6,488,197	0.52
1-Dec-13	991,102	1,041,000	1.890	1.000	1,967,572	4,827,828	1.305	6,299,220	0.31
1-Dec-14	541,310	552,000	1.759	1.000	970,856	4,684,830	1.267	5,934,603	0.16
1-Dec-15	778,700	798,000	1.636	1.000	1,305,717	4,970,309	1.233	6,127,763	0.21
1-Dec-16	776,244	806,000	1.520	1.000	1,224,908	5,291,126	1.194	6,317,882	0.19
1-Dec-17	700,678	775,000	1.410	1.000	1,092,965	5,390,504	1.159	6,249,072	0.17
1-Dec-18	2,149,297	2,226,000	1.311	1.000	2,919,059	5,802,830	1.126	6,531,137	0.45
1-Dec-19	1,200,760	1,294,000	1.225	1.000	1,585,206	5,241,633	1.095	5,741,644	0.28
1-Dec-20	1,497,863	1,800,000	1.145	1.000	2,060,820	5,918,294	1.061	6,278,718	0.33
1-Dec-21	1,773,339	2,524,000	1.070	1.000	2,700,680	6,312,408	1.030	6,501,781	0.42
All Year Weighted Average					49,654,542			145,580,905	0.34
Latest 5-Year Weighted Average					10,358,730			31,302,352	0.33
Latest 3-Year Weighted Average					6,346,706			18,522,143	0.34
SELECTED - Based on Shaded PY					11,583,638			37,620,234	0.31

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 (Medical)

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) Policy Period Inception	(11)	(12)	(13)	(14)	(15)	
	Retention	Payroll (in 00s)	Claim Count	Loss Rate	Loss Amount	
1-Dec-22	Unlimited	5,897,102	172	0.31	1,828,000	
1-Dec-23	Unlimited	6,059,237	172	0.32	1,939,000	
1-Dec-24	Unlimited	6,256,236	172	0.33	2,065,000	

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



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

Average : \$2,844 sigma = 2.192
CV : 11.00 mu = 5.551

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
264	1.000	1.000	9,500,000	4.798	2.606	1.000	0.995	2,838	9,500,000	4.798	2.606	1.000	0.995	2,838	1.000
252	1.001	1.000	9,500,000	4.798	2.606	1.000	0.995	2,838	9,509,500	4.798	2.606	1.000	0.995	2,838	1.001
240	1.002	1.000	9,500,000	4.798	2.606	1.000	0.995	2,838	9,519,010	4.799	2.607	1.000	0.995	2,838	1.002
228	1.003	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,003,003,000	6.924	4.732	1.000	1.000	2,844	1.003
216	1.004	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,004,006,003	6.924	4.732	1.000	1.000	2,844	1.004
204	1.005	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,005,010,009	6.925	4.733	1.000	1.000	2,844	1.005
192	1.006	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,006,015,019	6.925	4.733	1.000	1.000	2,844	1.006
180	1.007	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,007,021,034	6.926	4.734	1.000	1.000	2,844	1.007
168	1.008	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,008,028,055	6.926	4.734	1.000	1.000	2,844	1.008
156	1.009	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,009,036,083	6.926	4.735	1.000	1.000	2,844	1.009
144	1.010	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,010,045,119	6.927	4.735	1.000	1.000	2,844	1.010
132	1.012	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,012,065,209	6.928	4.736	1.000	1.000	2,844	1.012
120	1.014	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,014,089,340	6.929	4.737	1.000	1.000	2,844	1.014
108	1.016	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,016,117,519	6.930	4.738	1.000	1.000	2,844	1.016
96	1.019	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,019,165,871	6.931	4.739	1.000	1.000	2,844	1.019
84	1.024	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,024,261,700	6.933	4.741	1.000	1.000	2,844	1.024
72	1.029	1.001	999,999,999	6.922	4.731	1.000	1.000	2,844	1,028,354,654	6.935	4.743	1.000	1.000	2,844	1.029
60	1.040	1.002	999,999,999	6.922	4.731	1.000	1.000	2,844	1,037,600,600	6.939	4.747	1.000	1.000	2,844	1.040
48	1.053	1.003	999,999,999	6.922	4.731	1.000	1.000	2,844	1,050,039,369	6.945	4.753	1.000	1.000	2,844	1.053
36	1.069	1.006	999,999,999	6.922	4.731	1.000	1.000	2,844	1,062,602,153	6.950	4.758	1.000	1.000	2,844	1.069
24	1.213	1.010	999,999,999	6.922	4.731	1.000	1.000	2,844	1,201,248,450	7.006	4.814	1.000	1.000	2,844	1.213
12	1.670	1.050	999,999,999	6.922	4.731	1.000	1.000	2,844	1,590,802,911	7.134	4.942	1.000	1.000	2,844	1.670

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 : \$2,844 sigma = 2.192
CV : 11.00 mu = 5.551

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
264	1.011	1.000	9,500,000	4.798	2.606	1.000	0.995	2,838	9,606,669	4.803	2.611	1.000	0.995	2,838	1.011
252	1.012	1.000	9,500,000	4.798	2.606	1.000	0.995	2,838	9,618,521	4.804	2.612	1.000	0.995	2,838	1.012
240	1.013	1.000	9,500,000	4.798	2.606	1.000	0.995	2,838	9,628,140	4.804	2.612	1.000	0.996	2,838	1.013
228	1.015	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,014,501,890	6.929	4.737	1.000	1.000	2,844	1.015
216	1.016	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,015,516,392	6.929	4.738	1.000	1.000	2,844	1.016
204	1.017	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,016,531,908	6.930	4.738	1.000	1.000	2,844	1.017
192	1.019	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,018,564,972	6.931	4.739	1.000	1.000	2,844	1.019
180	1.021	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,020,602,102	6.932	4.740	1.000	1.000	2,844	1.021
168	1.024	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,023,663,908	6.933	4.741	1.000	1.000	2,844	1.024
156	1.028	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,027,758,564	6.935	4.743	1.000	1.000	2,844	1.028
144	1.033	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,032,897,357	6.937	4.745	1.000	1.000	2,844	1.033
132	1.039	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,039,094,741	6.940	4.748	1.000	1.000	2,844	1.039
120	1.045	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,045,329,309	6.943	4.751	1.000	1.000	2,844	1.045
108	1.053	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,052,646,614	6.946	4.754	1.000	1.000	2,844	1.053
96	1.061	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,061,067,787	6.949	4.758	1.000	1.000	2,844	1.061
84	1.075	1.000	999,999,999	6.922	4.731	1.000	1.000	2,844	1,074,861,668	6.955	4.763	1.000	1.000	2,844	1.075
72	1.093	1.001	999,999,999	6.922	4.731	1.000	1.000	2,844	1,092,323,379	6.963	4.771	1.000	1.000	2,844	1.093
60	1.137	1.002	999,999,999	6.922	4.731	1.000	1.000	2,844	1,134,881,433	6.980	4.788	1.000	1.000	2,844	1.137
48	1.189	1.003	999,999,999	6.922	4.731	1.000	1.000	2,844	1,185,264,082	7.000	4.808	1.000	1.000	2,844	1.189
36	1.272	1.006	999,999,999	6.922	4.731	1.000	1.000	2,844	1,264,439,250	7.029	4.838	1.000	1.000	2,844	1.272
24	1.620	1.010	999,999,999	6.922	4.731	1.000	1.000	2,844	1,603,813,099	7.138	4.946	1.000	1.000	2,844	1.620
12	4.390	1.050	999,999,999	6.922	4.731	1.000	1.000	2,844	4,182,320,914	7.575	5.383	1.000	1.000	2,844	4.390

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 12/1/2022 to 11/30/2023**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/22	Percent Losses Paid	Months of Development 11/30/23	Percent Losses Paid	Estimated Outstanding Losses 11/30/22	Projected Losses Paid	Estimated Outstanding Losses 11/30/23	Discount Factor	Discounted Outstanding Losses 11/30/23
Prior	264	98.9%	276	99.2%	\$ 658,433	\$ 163,238	\$ 495,195	0.876	\$ 433,562
1-Dec-01	252	98.8%	264	98.9%	\$ 6,575	\$ 650	\$ 5,925	0.875	\$ 5,186
1-Dec-02	240	98.7%	252	98.8%	\$ 21,407	\$ 1,587	\$ 19,820	0.854	\$ 16,934
1-Dec-03	228	98.6%	240	98.7%	\$ 110,078	\$ 7,591	\$ 102,487	0.832	\$ 85,303
1-Dec-04	216	98.5%	228	98.6%	\$ 127,549	\$ 8,220	\$ 119,329	0.812	\$ 96,869
1-Dec-05	204	98.4%	216	98.5%	\$ -	\$ -	\$ -	0.792	\$ -
1-Dec-06	192	98.2%	204	98.4%	\$ -	\$ -	\$ -	0.774	\$ -
1-Dec-07	180	98.0%	192	98.2%	\$ -	\$ -	\$ -	0.769	\$ -
1-Dec-08	168	97.7%	180	98.0%	\$ 5,205	\$ 660	\$ 4,545	0.762	\$ 3,464
1-Dec-09	156	97.3%	168	97.7%	\$ 439,342	\$ 63,309	\$ 376,033	0.763	\$ 287,007
1-Dec-10	144	96.8%	156	97.3%	\$ 16,133	\$ 2,452	\$ 13,681	0.769	\$ 10,515
1-Dec-11	132	96.2%	144	96.8%	\$ 21,402	\$ 3,285	\$ 18,117	0.775	\$ 14,038
1-Dec-12	120	95.7%	132	96.2%	\$ 491,100	\$ 65,004	\$ 426,096	0.780	\$ 332,493
1-Dec-13	108	95.0%	120	95.7%	\$ 376,105	\$ 50,008	\$ 326,098	0.780	\$ 254,324
1-Dec-14	96	94.2%	108	95.0%	\$ 66,510	\$ 8,713	\$ 57,797	0.780	\$ 45,063
1-Dec-15	84	93.0%	96	94.2%	\$ 101,304	\$ 17,592	\$ 83,713	0.779	\$ 65,216
1-Dec-16	72	91.5%	84	93.0%	\$ 298,726	\$ 55,200	\$ 243,526	0.788	\$ 191,998
1-Dec-17	60	87.9%	72	91.5%	\$ 381,159	\$ 111,164	\$ 269,995	0.798	\$ 215,542
1-Dec-18	48	84.1%	60	87.9%	\$ 1,683,855	\$ 405,208	\$ 1,278,647	0.829	\$ 1,059,831
1-Dec-19	36	78.6%	48	84.1%	\$ 1,007,896	\$ 259,346	\$ 748,550	0.840	\$ 628,982
1-Dec-20	24	61.7%	36	78.6%	\$ 1,281,430	\$ 565,302	\$ 716,128	0.851	\$ 609,757
1-Dec-21	12	22.8%	24	61.7%	\$ 2,401,503	\$ 1,211,394	\$ 1,190,108	0.889	\$ 1,058,341
1-Dec-22	0	0.0%	12	22.8%	\$ 1,828,000	\$ 416,405	\$ 1,411,595	0.918	\$ 1,295,206
Total					\$ 11,323,712	\$ 3,416,327	\$ 7,907,384		\$ 6,709,630

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 4.13% Interest Rate
 Column (10): Column (8) x Column (9)



**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	99.2%	288	99.4%	\$ 495,195	\$ 123,024	\$ 372,171	0.876	\$ 325,922
1-Dec-01	264	98.9%	276	99.2%	\$ 5,925	\$ 1,469	\$ 4,456	0.876	\$ 3,901
1-Dec-02	252	98.8%	264	98.9%	\$ 19,820	\$ 1,960	\$ 17,859	0.875	\$ 15,633
1-Dec-03	240	98.7%	252	98.8%	\$ 102,487	\$ 7,598	\$ 94,889	0.854	\$ 81,072
1-Dec-04	228	98.6%	240	98.7%	\$ 119,329	\$ 8,229	\$ 111,101	0.832	\$ 92,472
1-Dec-05	216	98.5%	228	98.6%	\$ -	\$ -	\$ -	0.812	\$ -
1-Dec-06	204	98.4%	216	98.5%	\$ -	\$ -	\$ -	0.792	\$ -
1-Dec-07	192	98.2%	204	98.4%	\$ -	\$ -	\$ -	0.774	\$ -
1-Dec-08	180	98.0%	192	98.2%	\$ 4,545	\$ 441	\$ 4,104	0.769	\$ 3,156
1-Dec-09	168	97.7%	180	98.0%	\$ 376,033	\$ 47,672	\$ 328,361	0.762	\$ 250,213
1-Dec-10	156	97.3%	168	97.7%	\$ 13,681	\$ 1,971	\$ 11,709	0.763	\$ 8,937
1-Dec-11	144	96.8%	156	97.3%	\$ 18,117	\$ 2,754	\$ 15,364	0.769	\$ 11,808
1-Dec-12	132	96.2%	144	96.8%	\$ 426,096	\$ 65,394	\$ 360,702	0.775	\$ 279,493
1-Dec-13	120	95.7%	132	96.2%	\$ 326,098	\$ 43,164	\$ 282,934	0.780	\$ 220,780
1-Dec-14	108	95.0%	120	95.7%	\$ 57,797	\$ 7,685	\$ 50,112	0.780	\$ 39,083
1-Dec-15	96	94.2%	108	95.0%	\$ 83,713	\$ 10,967	\$ 72,746	0.780	\$ 56,719
1-Dec-16	84	93.0%	96	94.2%	\$ 243,526	\$ 42,289	\$ 201,237	0.779	\$ 156,774
1-Dec-17	72	91.5%	84	93.0%	\$ 269,995	\$ 49,891	\$ 220,104	0.788	\$ 173,532
1-Dec-18	60	87.9%	72	91.5%	\$ 1,278,647	\$ 372,913	\$ 905,734	0.798	\$ 723,063
1-Dec-19	48	84.1%	60	87.9%	\$ 748,550	\$ 180,133	\$ 568,417	0.829	\$ 471,143
1-Dec-20	36	78.6%	48	84.1%	\$ 716,128	\$ 184,270	\$ 531,858	0.840	\$ 446,903
1-Dec-21	24	61.7%	36	78.6%	\$ 1,190,108	\$ 525,015	\$ 665,093	0.851	\$ 566,303
1-Dec-22	12	22.8%	24	61.7%	\$ 1,411,595	\$ 712,053	\$ 699,541	0.889	\$ 622,089
1-Dec-23	0	0.0%	12	22.8%	\$ 1,939,000	\$ 441,690	\$ 1,497,310	0.918	\$ 1,373,853
Total					\$ 9,846,384	\$ 2,830,583	\$ 7,015,802		\$ 5,922,849

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 4.13% 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	99.4%	300	99.5%	\$ 372,171	\$ 92,605	\$ 279,565	0.876	\$ 244,877
1-Dec-01	276	99.2%	288	99.4%	\$ 4,456	\$ 1,107	\$ 3,349	0.876	\$ 2,933
1-Dec-02	264	98.9%	276	99.2%	\$ 17,859	\$ 4,428	\$ 13,432	0.876	\$ 11,760
1-Dec-03	252	98.8%	264	98.9%	\$ 94,889	\$ 9,384	\$ 85,505	0.875	\$ 74,845
1-Dec-04	240	98.7%	252	98.8%	\$ 111,101	\$ 8,237	\$ 102,864	0.854	\$ 87,886
1-Dec-05	228	98.6%	240	98.7%	\$ -	\$ -	\$ -	0.832	\$ -
1-Dec-06	216	98.5%	228	98.6%	\$ -	\$ -	\$ -	0.812	\$ -
1-Dec-07	204	98.4%	216	98.5%	\$ -	\$ -	\$ -	0.792	\$ -
1-Dec-08	192	98.2%	204	98.4%	\$ 4,104	\$ 442	\$ 3,662	0.774	\$ 2,836
1-Dec-09	180	98.0%	192	98.2%	\$ 328,361	\$ 31,876	\$ 296,485	0.769	\$ 228,017
1-Dec-10	168	97.7%	180	98.0%	\$ 11,709	\$ 1,484	\$ 10,225	0.762	\$ 7,791
1-Dec-11	156	97.3%	168	97.7%	\$ 15,364	\$ 2,214	\$ 13,150	0.763	\$ 10,037
1-Dec-12	144	96.8%	156	97.3%	\$ 360,702	\$ 54,822	\$ 305,879	0.769	\$ 235,091
1-Dec-13	132	96.2%	144	96.8%	\$ 282,934	\$ 43,423	\$ 239,511	0.775	\$ 185,587
1-Dec-14	120	95.7%	132	96.2%	\$ 50,112	\$ 6,633	\$ 43,479	0.780	\$ 33,928
1-Dec-15	108	95.0%	120	95.7%	\$ 72,746	\$ 9,672	\$ 63,074	0.780	\$ 49,191
1-Dec-16	96	94.2%	108	95.0%	\$ 201,237	\$ 26,362	\$ 174,874	0.780	\$ 136,347
1-Dec-17	84	93.0%	96	94.2%	\$ 220,104	\$ 38,222	\$ 181,882	0.779	\$ 141,696
1-Dec-18	72	91.5%	84	93.0%	\$ 905,734	\$ 167,366	\$ 738,368	0.788	\$ 582,137
1-Dec-19	60	87.9%	72	91.5%	\$ 568,417	\$ 165,777	\$ 402,640	0.798	\$ 321,434
1-Dec-20	48	84.1%	60	87.9%	\$ 531,858	\$ 127,988	\$ 403,870	0.829	\$ 334,755
1-Dec-21	36	78.6%	48	84.1%	\$ 665,093	\$ 171,138	\$ 493,955	0.840	\$ 415,054
1-Dec-22	24	61.7%	36	78.6%	\$ 699,541	\$ 308,602	\$ 390,939	0.851	\$ 332,871
1-Dec-23	12	22.8%	24	61.7%	\$ 1,497,310	\$ 755,291	\$ 742,019	0.889	\$ 659,864
1-Dec-24	0	0.0%	12	22.8%	\$ 2,065,000	\$ 470,392	\$ 1,594,608	0.918	\$ 1,463,129
Total					\$ 9,080,802	\$ 2,497,466	\$ 6,583,336		\$ 5,562,064

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 4.13% 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	1,498,477	1,268,575	229,902

Cook County, Illinois
 Workers' Compensation - Health Care Facilities
 Occurrence
 Medical
 Incurred Development Triangle
 Data Unlimited (000s)
 As of 11/30/2022

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
Prior												15,949	15,949	15,949	15,949	15,949	15,949	15,949	15,949	15,949	13,388	13,793
12/1/2001					1,144	1,170	1,164	705	705	702	702	702	702	702	702	702	702	702	702	702	620	624
12/1/2002				1,811	1,787	1,789	1,075	1,071	1,056	1,056	1,058	1,061	1,076	1,076	919	920	919	919	919	919	919	624
12/1/2003			1,620	1,633	1,656	999	1,050	1,054	1,076	1,101	1,104	1,430	1,330	1,330	1,329	1,329	1,329	1,329	1,329	1,329	1,329	624
12/1/2004		1,817	2,002	2,066	1,427	1,395	1,385	1,437	1,437	1,443	1,443	1,272	1,272	1,318	1,317	1,317	1,317	1,317	1,317	1,317	1,385	624
12/1/2005	1,393	1,681	1,726	824	893	875	875	877	877	877	877	764	764	764	764	764	764	764	764	764	764	624
12/1/2006	1,023	1,534	1,102	1,159	1,004	977	985	1,033	1,033	925	925	925	925	925	925	925	925	925	925	925	925	624
12/1/2007	954	932	1,062	849	800	828	828	872	777	777	780	760	751	751	747	747	747	747	747	747	747	624
12/1/2008	768	893	693	720	753	794	799	711	721	700	696	698	698	694	694	694	694	694	694	694	694	624
12/1/2009	429	480	690	691	741	778	775	744	789	778	778	1,074	1,164	1,164	1,164	1,164	1,164	1,164	1,164	1,164	1,164	624
12/1/2010	442	676	762	778	787	763	706	689	691	691	682	682	682	682	682	682	682	682	682	682	682	624
12/1/2011	367	722	869	1,104	1,004	991	1,170	1,037	1,031	989	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	1,001	624
12/1/2012	385	769	977	969	979	1,235	1,230	1,333	1,302	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	1,656	624
12/1/2013	608	1,088	886	736	700	698	685	692	991	991	991	991	991	991	991	991	991	991	991	991	991	624
12/1/2014	758	615	536	499	533	573	549	547	547	547	547	547	547	547	547	547	547	547	547	547	547	624
12/1/2015	1,379	1,037	947	883	868	795	780	780	780	780	780	780	780	780	780	780	780	780	780	780	780	624
12/1/2016	1,400	1,227	932	849	733	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	624
12/1/2017	926	803	717	665	706	706	706	706	706	706	706	706	706	706	706	706	706	706	706	706	706	624
12/1/2018	1,354	2,285	1,917	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	624
12/1/2019	1,516	1,385	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	1,201	624
12/1/2020	2,028	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	624
12/1/2021	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	624

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-Ult
Prior																						
12/1/2001					1.023	0.995	0.606	1.000	0.995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.025
12/1/2002				0.987	1.001	0.997	0.986	1.000	0.997	1.000	1.002	1.003	1.014	0.854	1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.006
12/1/2003			1.008	1.014	0.603	1.050	1.004	1.021	1.023	1.003	1.295	0.930	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000	0.998	
12/1/2004		1.102	1.032	0.691	0.977	0.993	1.038	1.000	1.004	1.000	0.882	1.000	1.036	0.999	1.000	1.000	1.000	1.000	1.000	1.052		
12/1/2005	1.207	1.027	0.477	1.084	0.980	1.000	1.003	1.000	1.000	0.870	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
12/1/2006	1.500	0.718	1.051	0.866	0.973	1.008	1.050	1.000	0.895	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
12/1/2007	0.977	1.139	0.799	0.942	1.036	1.000	1.053	0.890	1.004	0.974	0.988	1.000	0.995	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
12/1/2008	1.164	0.775	1.040	1.045	1.055	1.006	0.890	1.014	0.971	0.994	1.002	0.995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
12/1/2009	1.120	1.437	1.001	1.072	1.051	0.996	0.960	1.060	0.986	1.000	1.381	1.084	1.084	1.084	1.084	1.084	1.084	1.084	1.084	1.084		
12/1/2010	1.528	1.127	1.020	1.012	0.970	0.925	0.976	1.003	1.000	0.986	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
12/1/2011	1.966	1.203	1.270	0.910	0.967	1.180	0.886	0.994	0.960	1.012	1.012	1.012	1.012	1.012	1.012	1.012	1.012	1.012	1.012	1.012		
12/1/2012	1.996	1.270	0.991	1.011	1.261	0.996	1.084	0.977	1.272	1.272	1.272	1.272	1.272	1.272	1.272	1.272	1.272	1.272	1.272	1.272		
12/1/2013	1.790	0.814	0.831	0.951	0.997	0.981	1.010	1.433	1.433	1.433	1.433	1.433	1.433	1.433	1.433	1.433	1.433	1.433	1.433	1.433		
12/1/2014	0.812	0.872	0.930	1.070	1.074	0.958	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996		
12/1/2015	0.752	0.913	0.932	0.984	0.916	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980		
12/1/2016	0.876	0.760	0.911	0.864	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061		
12/1/2017	0.867	0.893	0.928	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061		
12/1/2018	1.688	0.839	1.122	1.122	1.122	1.122	1.122	1.122	1.122	1.122	1.122	1.122	1.122	1.122	1.122	1.122	1.122	1.122	1.122	1.122		
12/1/2019	0.913	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.867		
12/1/2020	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739		
12/1/2021	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739		

	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-Ult
All Year Average	1.243	0.985	0.959	0.973	0.998	0.978	0.968	1.029	1.009	0.986	1.055	1.002	0.987	0.985	1.000	1.000	1.010	0.999	0.947	1.005	1.025	
3 Yr Average	1.113	0.866	0.867	0.970	1.017	0.973	1.030	1.135	1.077	1.000	1.128	1.026	0.998	1.000	1.000	1.000	1.017	0.999	0.947	NA	NA	
5 Yr Average	1.017	0.854	0.864	0.886	1.082	1.019	0.990	1.093	1.038	0.993	1.074	1.016	1.006	1.000	1.000	1.000	1.010	NA	NA	NA	NA	
3 Yr Wid Average	1.055	0.857	1.028	0.963	1.005	0.974	1.044	1.086	1.103	1.001	1.138	1.034	0.999	1.000	1.000	1.000	1.019	0.999	0.854	NA	NA	
5 Yr Wid Average	0.996	0.848	0.999	0.975	1.069	1.028	0.990	1.069	1.062	0.995	1.075	1.021	1.010	1.000	1.000	1.000	1.003	NA	NA	NA	NA	
Avg X Hi-Lo (3yr X 2)	0.913	0.867	0.928	0.984	1.061	0.980	1.010	0.994	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	
Avg X Hi-Lo (5yr X 2)	0.886	0.866	0.930	0.999	1.044	0.986	0.994	1.001	0.986	0.994	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Prior	1.390	1.140	1.015	1.013	1.005	1.005	1.003	1.002	1.002	1.002	1.001	1.000	1.000	1.000	1							

Cook County, Illinois
 Workers' Compensation - Health Care Facilities
 Occurrence
 Medical
 Paid Development Triangle
 Data Unlimited (000s)
 As of 11/30/2022

		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	
Prior																							
12/1/2001					650	702	702	702	702	702	702	15,458	15,458	15,458	15,458	15,458	15,458	15,458	15,458	15,458	13,066	13,138	
12/1/2002				1,021	1,029	1,042	1,051	1,051	1,051	1,051	1,053	1,056	1,057	899	899	899	899	899	899	899	899	899	
12/1/2003			827	933	959	972	1,011	1,050	1,072	1,101	1,104	1,105	1,006	1,096	1,158	1,217	1,219	1,219	1,219	1,219	1,219	1,219	
12/1/2004			964	1,139	1,293	1,330	1,357	1,376	1,399	1,409	1,428	1,436	1,250	1,251	1,253	1,255	1,261	1,262	1,262	764			
12/1/2005	393			669	720	763	834	875	875	877	877	877	764	764	764	764	764	764	764	764			
12/1/2006	338			849	840	963	975	977	985	1,033	925	925	925	925	925	925	925	925	925	925			
12/1/2007	315			656	612	827	799	828	828	852	746	746	747	747	747	747	747	747	747				
12/1/2008	217			526	636	702	738	766	778	684	685	685	688	688	690	690	690	690	690				
12/1/2009	119			381	608	674	697	743	698	709	718	726	731	734	735								
12/1/2010	278			590	711	723	734	662	662	662	666	667	668	668									
12/1/2011	167			569	772	997	894	916	979	980	980	980	980	980	980	980	980	980	980				
12/1/2012	87			557	811	774	856	946	983	1,142	1,158	1,192											
12/1/2013	223			722	591	631	640	643	648	657	665												
12/1/2014	240			311	383	400	405	489	491	491													
12/1/2015	138			444	608	617	695	698	698														
12/1/2016	98			233	360	466	485	509															
12/1/2017	176			301	365	382	399																
12/1/2018	126			408	490	543																	
12/1/2019	144			259	286																		
12/1/2020	322			519																			
12/1/2021	122																						

		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-Ult
Prior																						
12/1/2001					1,080	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,001
12/1/2002				1,008	1,013	1,009	1,000	1,000	1,000	1,000	1,002	1,003	1,001	0.850	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2003			1,128	1,028	1,014	1,040	1,038	1,021	1,027	1,003	1,001	0.910	1,089	1,057	1,050	1,001	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2004		1,182	1,135	1,029	1,020	1,014	1,017	1,007	1,013	1,006	0.870	1,001	1,001	1,001	1,002	1,005	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2005	1,700	1,077	1,060	1,092	1,050	1,000	1,003	1,000	1,000	0.870	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2006	2,515	0,989	1,146	1,013	1,002	1,008	1,050	1,000	0.895	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2007	2,081	1,238	1,019	0,965	1,037	1,000	1,029	0.875	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
12/1/2008	2,422	1,209	1,105	1,051	1,037	1,015	0.880	1,002	1,003	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
12/1/2009	3,199	1,597	1,108	1,035	1,066	0.939	1,016	1,013	1,011	1,007	1,004	1,001										
12/1/2010	2,122	1,206	1,016	1,016	0.902	1,000	1,000	1,006	1,000	1,002	1,000											
12/1/2011	3,402	1,357	1,291	0.896	1,025	1,069	1,001	1,000	1,000	1,012												
12/1/2012	6,416	1,455	0.955	1,106	1,106	1,039	1,161	1,015	1,029													
12/1/2013	3,246	0.818	1,068	1,013	1,005	1,009	1,014	1,012														
12/1/2014	1,295	1,230	1,045	1,013	1,206	1,004	1,000															
12/1/2015	3,207	1,371	1,014	1,126	1,004	1,000																
12/1/2016	2,384	1,544	1,297	1,041	1,048																	
12/1/2017	1,711	1,212	1,048	1,045																		
12/1/2018	3,250	1,198	1,109																			
12/1/2019	1,800	1,105																				
12/1/2020	1,610																					
12/1/2021																						

		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-Ult
All Year Average	2,648	1,237	1,096	1,030	1,038	1,010	1,015	0,996	0,998	0,991	0,988	0,991	0,993	0,993	1,008	1,000	1,000	1,000	1,000	0,948	1,002	1,001
3 Yr Average	2,220	1,172	1,151	1,071	1,086	1,054	1,058	1,009	1,010	1,007	1,002	1,000	1,000	1,000	1,002	1,001	1,000	1,000	1,000	0,948	NA	NA
5 Yr Average	2,151	1,285	1,102	1,048	1,074	1,024	1,035	1,009	1,009	1,004	1,001	1,000	1,000	1,012	1,011	1,000	1,000	NA	NA	NA	NA	NA
3 Yr Wid Average	2,005	1,178	1,146	1,078	1,069	1,004	1,079	1,009	1,012	1,008	1,002	1,000	1,000	1,000	1,002	1,001	1,000	1,000	1,000	0,859	NA	NA
5 Yr Wid Average	1,988	1,282	1,092	1,051	1,066	1,029	1,045	1,009	1,011	1,005	1,001	1,000	1,000	1,014	1,013	1,000	1,000	NA	NA	NA	NA	NA
Avg X Hi-Lo (3yr X 2)	1,800	1,198	1,109	1,045	1,048	1,004	1,014	1,012	1,000	1,007	1,003	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	NA	NA
Avg X Hi-Lo (5yr X 2)	1,965	1,261	1,067	1,033	1,053	1,017	1,005	1,010	1,005	1,003	1,001	1,000	1,000	1,001	1,002	1,000	1,000	NA	NA	NA	NA	NA
Prior	2,725	1,280	1,070	1,038	1,035	1,020	1,013	1,008	1,007	1,006	1,006	1,005	1,004	1,003	1,003	1,002	1,002	1,001	1,001	1,001	1,001	1,011
Industry	2,080	1,165	1,069	1,038	1,023	1,016	1,011	1,009	1,006	1,005	1,004	1,003	1,004	1,003	1,002	1,003	1,002	1,002	1,002	1,007	1,006	1,004
Initial Selected	2,710	1,273	1,070	1,045	1,040	1,017	1,013	1,008	1,007	1,006	1,006	1,005	1,004	1,003	1,002	1,002	1,001	1,001	1,001	1,001	1,001	1,011

		Tail Factor Calculation																				
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-Ult
Inverse Power Curve Fit																						1.00753
Exponential Curve Fit																						1.00221
Weibull Curve Fit																						1.00394
Manual Entry																						
Selected Tail Method:	Manual Entry																					
Final Link Ratio	2,710	1,273	1,070	1,045	1,040	1,017	1,013	1,008	1,007	1,006	1,006	1,005	1,004	1,003	1,002	1,002	1,001	1,001	1,001	1,001	1,001	1,011
Final CDF	4,390	1,620	1,272	1,189	1,137	1,093	1,075	1,061	1,053	1,045	1,039	1,033										



**Cook County, Illinois
Medical Malpractice - Cermak Health Services Experience @ 11/30/22
Losses Limited to Retentions**

Policy Period	Physician FTEs	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	-	10,000,000	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	-	170,000	170,000	3,100,000	69,554
1-Dec-16	46	25,000,000	1	-	900,000	900,000	-	80,000	80,000	980,000	21,435
1-Dec-17	52	25,000,000	-	-	-	-	-	300,000	300,000	300,000	5,781
1-Dec-18	46	25,000,000	2	1	50,000	-	50,000	360,000	410,000	410,000	8,942
1-Dec-19	50	Various	-	-	-	-	-	470,000	470,000	470,000	9,370
1-Dec-20	46	35,000,000	-	-	-	-	-	700,000	700,000	700,000	15,294
1-Dec-21	55	35,000,000	-	-	-	-	-	900,000	900,000	900,000	16,304
Total	587		151	1	29,236,750	29,186,750	50,000	2,980,000	3,030,000	32,216,750	28,747

Full Policy Period Projections

1-Dec-22	55	35,000,000								1,290,000	23,457
1-Dec-23	55	35,000,000								1,350,000	24,395



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

**Medical Malpractice - Cermak Health Services Experience @ 11/30/22
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	\$ 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	\$ 1,001,000	\$ 1,002,000	\$ 1,000,000	N/A	N/A	N/A	N/A	\$ 1,001,000	\$ 1,000,000
1-Dec-08	\$ -	\$ -	\$ -	N/A	N/A	N/A	N/A	\$ -	\$ -
1-Dec-09	\$ 1,321,820	\$ 1,325,778	\$ 1,310,000	N/A	N/A	N/A	N/A	\$ 1,321,820	\$ 1,310,000
1-Dec-10	\$ 3,057	\$ 3,073	\$ 3,000	N/A	N/A	N/A	N/A	\$ 3,057	\$ 3,000
1-Dec-11	\$ 10,293	\$ 10,426	\$ 10,000	\$ 26,789	\$ 34,108	\$ 31,885	\$ 48,403	\$ 10,293	\$ 10,000
1-Dec-12	\$ -	\$ -	\$ -	\$ 23,135	\$ 41,799	\$ 35,045	\$ 80,172	\$ -	\$ -
1-Dec-13	\$ -	\$ -	\$ -	\$ 29,788	\$ 64,110	\$ 54,729	\$ 157,320	\$ -	\$ -
1-Dec-14	\$ 6,406,440	\$ 7,235,530	\$ 6,041,000	\$ 6,084,718	\$ 6,167,529	\$ 6,140,875	\$ 6,456,642	\$ 6,406,440	\$ 6,041,000
1-Dec-15	\$ 3,138,318	\$ 4,211,244	\$ 2,930,000	\$ 2,986,426	\$ 3,188,623	\$ 3,044,926	\$ 3,769,285	\$ 3,138,318	\$ 3,100,000
1-Dec-16	\$ 983,268	\$ 1,606,250	\$ 900,000	\$ 976,060	\$ 1,294,905	\$ 1,022,671	\$ 2,058,619	\$ 983,268	\$ 980,000
1-Dec-17	\$ -	\$ -	\$ -	\$ 116,905	\$ 754,701	\$ 145,221	\$ 2,023,250	\$ -	\$ 300,000
1-Dec-18	\$ 60,485	\$ -	\$ 62,099	\$ 215,639	\$ 850,183	\$ 216,627	\$ 2,200,773	\$ 59,001	\$ 410,000
1-Dec-19	\$ -	\$ -	\$ -	\$ 302,745	\$ 1,052,992	\$ 254,911	\$ 2,702,280	\$ -	\$ 470,000
1-Dec-20	\$ -	\$ -	\$ -	\$ 452,394	\$ 1,011,755	\$ 337,283	\$ 2,596,113	\$ -	\$ 700,000
1-Dec-21	\$ -	\$ -	\$ -	\$ 848,205	\$ 1,256,969	\$ 590,610	\$ 3,225,088	\$ -	\$ 900,000
Total	\$ 29,917,432	\$ 32,387,050	\$ 29,248,849	\$ 12,062,804	\$ 15,717,673	\$ 11,874,782	\$ 25,317,943	\$ 29,915,948	\$ 32,216,750

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 @ 11/30/22
Unpaid Liabilities at Various Discount Rates
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.13%
Prior	264	\$ 10,000,000	\$ 12,012,000	\$ 12,012,000	\$ 12,012,000	\$ -	\$ -	\$ -	\$ -
1-Dec-01	252	Various	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -
1-Dec-02	240	Various	\$ 19,000	\$ 19,000	\$ 19,000	\$ -	\$ -	\$ -	\$ -
1-Dec-03	228	\$ 20,000,000	\$ 2,958,500	\$ 2,958,500	\$ 2,958,500	\$ -	\$ -	\$ -	\$ -
1-Dec-04	216	\$ 20,000,000	\$ 750	\$ 750	\$ 750	\$ -	\$ -	\$ -	\$ -
1-Dec-05	204	\$ 20,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -
1-Dec-06	192	\$ 20,000,000	\$ 2,500	\$ 2,500	\$ 2,500	\$ -	\$ -	\$ -	\$ -
1-Dec-07	180	\$ 20,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -
1-Dec-08	168	\$ 20,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-09	156	Various	\$ 1,310,000	\$ 1,310,000	\$ 1,310,000	\$ -	\$ -	\$ -	\$ -
1-Dec-10	144	\$ 40,000,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ -	\$ -	\$ -	\$ -
1-Dec-11	132	\$ 40,000,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ -	\$ -	\$ -	\$ -
1-Dec-12	120	Various	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-13	108	\$ 30,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-14	96	Various	\$ 6,041,000	\$ 6,041,000	\$ 6,041,000	\$ -	\$ -	\$ -	\$ -
1-Dec-15	84	\$ 25,000,000	\$ 3,100,000	\$ 2,930,000	\$ 2,930,000	\$ -	\$ 170,000	\$ 170,000	\$ 157,926
1-Dec-16	72	\$ 25,000,000	\$ 980,000	\$ 900,000	\$ 900,000	\$ -	\$ 80,000	\$ 80,000	\$ 73,535
1-Dec-17	60	\$ 25,000,000	\$ 300,000	\$ -	\$ -	\$ -	\$ 300,000	\$ 300,000	\$ 276,147
1-Dec-18	48	\$ 25,000,000	\$ 410,000	\$ 50,000	\$ -	\$ 50,000	\$ 360,000	\$ 410,000	\$ 369,992
1-Dec-19	36	Various	\$ 470,000	\$ -	\$ -	\$ -	\$ 470,000	\$ 470,000	\$ 412,121
1-Dec-20	24	\$ 35,000,000	\$ 700,000	\$ -	\$ -	\$ -	\$ 700,000	\$ 700,000	\$ 591,563
1-Dec-21	12	\$ 35,000,000	\$ 900,000	\$ -	\$ -	\$ -	\$ 900,000	\$ 900,000	\$ 730,429
Total			\$ 32,216,750	\$ 29,236,750	\$ 29,186,750	\$ 50,000	\$ 2,980,000	\$ 3,030,000	\$ 2,611,713

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 @ 11/30/22
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	264	\$ 12,012,000	1.000	\$ 12,012,000	\$ 12,012,000	1.000	\$ 12,012,000	\$ -	1.000	\$ 12,012,000
1-Dec-01	252	\$ 1,000,000	1.000	\$ 1,000,000	\$ 1,000,000	1.000	\$ 1,000,000	\$ -	1.000	\$ 1,000,000
1-Dec-02	240	\$ 19,000	1.000	\$ 19,000	\$ 19,000	1.000	\$ 19,000	\$ -	1.000	\$ 19,000
1-Dec-03	228	\$ 2,958,500	1.000	\$ 2,958,500	\$ 2,958,500	1.000	\$ 2,958,500	\$ -	1.000	\$ 2,958,500
1-Dec-04	216	\$ 750	1.000	\$ 750	\$ 750	1.000	\$ 750	\$ -	1.000	\$ 750
1-Dec-05	204	\$ 1,000,000	1.000	\$ 1,000,000	\$ 1,000,000	1.000	\$ 1,000,000	\$ -	1.000	\$ 1,000,000
1-Dec-06	192	\$ 2,500	1.000	\$ 2,500	\$ 2,500	1.000	\$ 2,500	\$ -	1.000	\$ 2,500
1-Dec-07	180	\$ 1,000,000	1.001	\$ 1,001,000	\$ 1,000,000	1.002	\$ 1,002,000	\$ -	2.002	\$ 1,000,000
1-Dec-08	168	\$ -	1.004	\$ -	\$ -	1.006	\$ -	\$ -	3.009	\$ -
1-Dec-09	156	\$ 1,310,000	1.009	\$ 1,321,820	\$ 1,310,000	1.012	\$ 1,325,778	\$ -	4.023	\$ 1,310,000
1-Dec-10	144	\$ 3,000	1.019	\$ 3,057	\$ 3,000	1.024	\$ 3,073	\$ -	4.857	\$ 3,000
1-Dec-11	132	\$ 10,000	1.029	\$ 10,293	\$ 10,000	1.043	\$ 10,426	\$ -	3.294	\$ 10,000
1-Dec-12	120	\$ -	1.040	\$ -	\$ -	1.074	\$ -	\$ -	2.240	\$ -
1-Dec-13	108	\$ -	1.050	\$ -	\$ -	1.114	\$ -	\$ -	1.868	\$ -
1-Dec-14	96	\$ 6,041,000	1.060	\$ 6,406,440	\$ 6,041,000	1.198	\$ 7,235,530	\$ -	1.528	\$ 6,041,000
1-Dec-15	84	\$ 2,930,000	1.071	\$ 3,138,318	\$ 2,930,000	1.437	\$ 4,211,244	\$ -	1.279	\$ 2,930,000
1-Dec-16	72	\$ 900,000	1.093	\$ 983,268	\$ 900,000	1.785	\$ 1,606,250	\$ -	1.239	\$ 900,000
1-Dec-17	60	\$ -	1.125	\$ -	\$ -	3.556	\$ -	\$ -	1.183	\$ -
1-Dec-18	48	\$ 50,000	1.210	\$ 60,485	\$ -	9.069	\$ -	\$ 50,000	1.242	\$ 62,099
1-Dec-19	36	\$ -	1.391	\$ -	\$ -	45.343	\$ -	\$ -	1.404	\$ -
1-Dec-20	24	\$ -	1.808	\$ -	\$ -	5220.309	\$ -	\$ -	1.809	\$ -
1-Dec-21	12	\$ -	3.074	\$ -	\$ -	10440.618	\$ -	\$ -	3.075	\$ -
Total		\$ 29,236,750		\$ 29,917,432	\$ 29,186,750		\$ 32,387,050	\$ 50,000		\$ 29,248,849

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 @ 11/30/22
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	132	\$ 10,000	1.344	1.000	\$ 13,439	35	1.029	29686	\$ 768,690	\$ 31,885
1-Dec-12	120	\$ -	1.305	1.000	\$ -	35	1.040	34497	\$ 920,069	\$ 35,045
1-Dec-13	108	\$ -	1.267	1.000	\$ -	35	1.050	41841	\$ 1,149,446	\$ 54,729
1-Dec-14	96	\$ 6,041,000	1.230	1.000	\$ 7,429,668	41	1.060	52026	\$ 1,750,890	\$ 6,140,875
1-Dec-15	84	\$ 2,930,000	1.194	1.000	\$ 3,498,573	45	1.071	46384	\$ 1,731,360	\$ 3,044,926
1-Dec-16	72	\$ 900,000	1.159	1.000	\$ 1,043,347	46	1.093	36729	\$ 1,448,551	\$ 1,022,671
1-Dec-17	60	\$ -	1.126	1.000	\$ -	52	1.125	28290	\$ 1,304,250	\$ 145,221
1-Dec-18	48	\$ 50,000	1.093	1.000	\$ 54,636	46	1.210	22909	\$ 961,251	\$ 216,627
1-Dec-19	36	\$ -	1.061	1.000	\$ -	50	1.391	19175	\$ 906,612	\$ 254,911
1-Dec-20	24	\$ -	1.030	1.000	\$ -	46	1.808	16979	\$ 754,459	\$ 337,283
1-Dec-21	12	\$ -	1.000	1.000	\$ -	55	3.074	15857	\$ 875,319	\$ 590,610
Total		\$ 9,931,000			\$ 12,039,663	485			\$ 12,570,896	\$ 11,874,782

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	132	\$ 10,000	1.344	1.000	\$ 13,439	35	1.043	36277	\$ 939,378	\$ 48,403
1-Dec-12	120	\$ -	1.305	1.000	\$ -	35	1.074	43680	\$ 1,164,998	\$ 80,172
1-Dec-13	108	\$ -	1.267	1.000	\$ -	35	1.114	55884	\$ 1,535,215	\$ 157,320
1-Dec-14	96	\$ 6,041,000	1.230	1.000	\$ 7,429,668	41	1.198	74810	\$ 2,517,632	\$ 6,456,642
1-Dec-15	84	\$ 2,930,000	1.194	1.000	\$ 3,498,573	45	1.437	73904	\$ 2,758,596	\$ 3,769,285
1-Dec-16	72	\$ 900,000	1.159	1.000	\$ 1,043,347	46	1.785	66815	\$ 2,635,090	\$ 2,058,619
1-Dec-17	60	\$ -	1.126	1.000	\$ -	52	3.556	61052	\$ 2,814,731	\$ 2,023,250
1-Dec-18	48	\$ -	1.093	1.000	\$ -	46	9.069	58951	\$ 2,473,534	\$ 2,200,773
1-Dec-19	36	\$ -	1.061	1.000	\$ -	50	45.343	58443	\$ 2,763,220	\$ 2,702,280
1-Dec-20	24	\$ -	1.030	1.000	\$ -	46	5220.309	58435	\$ 2,596,610	\$ 2,596,113
1-Dec-21	12	\$ -	1.000	1.000	\$ -	55	10440.618	58431	\$ 3,225,396	\$ 3,225,088
Total		\$ 9,881,000			\$ 11,985,027	485			\$ 25,424,400	\$ 25,317,943

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	264	25	1.000	25	1.000	\$ 480,480	\$ 480,480	0	\$ 221,224	\$ 12,012,000
1-Dec-01	252	16	1.000	16	1.000	\$ 62,500	\$ 62,500	0	\$ 192,677	\$ 1,000,000
1-Dec-02	240	10	1.000	10	1.000	\$ 1,900	\$ 1,900	0	\$ 161,636	\$ 19,000
1-Dec-03	228	18	1.000	18	1.000	\$ 164,361	\$ 164,361	0	\$ 143,030	\$ 2,958,500
1-Dec-04	216	16	1.000	16	1.000	\$ 47	\$ 47	0	\$ 121,133	\$ 750
1-Dec-05	204	18	1.000	18	1.000	\$ 55,556	\$ 55,556	0	\$ 112,203	\$ 1,000,000
1-Dec-06	192	13	1.000	13	1.000	\$ 192	\$ 192	0	\$ 109,749	\$ 2,500
1-Dec-07	180	8	1.000	8	1.001	\$ 125,000	\$ 125,125	0	\$ 120,476	\$ 1,001,000
1-Dec-08	168	1	1.000	1	1.004	\$ -	\$ -	0	\$ 134,561	\$ -
1-Dec-09	156	4	1.000	4	1.009	\$ 327,500	\$ 330,455	0	\$ 155,974	\$ 1,321,820
1-Dec-10	144	1	1.000	1	1.019	\$ 3,000	\$ 3,057	0	\$ 172,755	\$ 3,057
1-Dec-11	132	3	1.000	3	1.029	\$ 3,333	\$ 3,431	0	\$ 197,508	\$ 10,293
1-Dec-12	120	7	1.000	7	1.040	\$ -	\$ -	0	\$ 240,443	\$ -
1-Dec-13	108	0	1.000	0	1.050	\$ -	\$ -	0	\$ 339,127	\$ -
1-Dec-14	96	5	1.000	5	1.060	\$ 1,208,200	\$ 1,281,288	0	\$ 473,564	\$ 6,406,440
1-Dec-15	84	3	1.000	3	1.071	\$ 976,667	\$ 1,046,106	0	\$ 526,720	\$ 3,138,318
1-Dec-16	72	1	1.000	1	1.093	\$ 900,000	\$ 983,268	0	\$ 539,777	\$ 983,268
1-Dec-17	60	0	1.010	0	1.114	\$ -	\$ -	0	\$ 529,294	\$ -
1-Dec-18	48	2	1.025	2	1.180	\$ 25,000	\$ 29,500	0	\$ 502,623	\$ 59,001
1-Dec-19	36	0	1.068	0	1.303	\$ -	\$ -	0	\$ 517,702	\$ -
1-Dec-20	24	0	1.236	0	1.463	\$ -	\$ -	0	\$ 533,233	\$ -
1-Dec-21	12	0	1.652	0	1.861	\$ -	\$ -	0	\$ 549,230	\$ -
Total		151		151				0		\$ 29,915,948

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 @ 11/30/22
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	1.029	16,946	1.000	16,946	\$ 589,704	0.028	\$ 16,789	\$ 26,789
1-Dec-12	Various	\$ -	1.040	17,454	1.000	17,454	\$ 607,395	0.038	\$ 23,135	\$ 23,135
1-Dec-13	\$ 30,000,000	\$ -	1.050	17,978	1.000	17,978	\$ 625,617	0.048	\$ 29,788	\$ 29,788
1-Dec-14	Various	\$ 6,041,000	1.060	18,517	1.000	18,517	\$ 766,412	0.057	\$ 43,718	\$ 6,084,718
1-Dec-15	\$ 25,000,000	\$ 2,930,000	1.071	19,072	1.000	19,072	\$ 850,054	0.066	\$ 56,426	\$ 2,986,426
1-Dec-16	\$ 25,000,000	\$ 900,000	1.093	19,645	1.000	19,645	\$ 898,147	0.085	\$ 76,060	\$ 976,060
1-Dec-17	\$ 25,000,000	\$ -	1.125	20,234	1.000	20,234	\$ 1,049,934	0.111	\$ 116,905	\$ 116,905
1-Dec-18	\$ 25,000,000	\$ 50,000	1.210	20,841	1.000	20,841	\$ 955,553	0.173	\$ 165,639	\$ 215,639
1-Dec-19	Various	\$ -	1.391	21,466	1.000	21,466	\$ 1,076,739	0.281	\$ 302,745	\$ 302,745
1-Dec-20	\$ 35,000,000	\$ -	1.808	22,110	1.000	22,110	\$ 1,011,949	0.447	\$ 452,394	\$ 452,394
1-Dec-21	\$ 35,000,000	\$ -	3.074	22,773.37	1.000	22,773.37	\$ 1,257,090	0.675	\$ 848,205	\$ 848,205
Total		\$ 9,931,000					\$ 9,688,594		\$ 2,131,804	\$ 12,062,804

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 @ 11/30/22
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	1.043	16,946	1.000	16,946	\$ 589,704	0.041	\$ 24,108	\$ 34,108
1-Dec-12	Various	\$ -	1.074	17,454	1.000	17,454	\$ 607,395	0.069	\$ 41,799	\$ 41,799
1-Dec-13	\$ 30,000,000	\$ -	1.114	17,978	1.000	17,978	\$ 625,617	0.102	\$ 64,110	\$ 64,110
1-Dec-14	Various	\$ 6,041,000	1.198	18,517	1.000	18,517	\$ 766,412	0.165	\$ 126,529	\$ 6,167,529
1-Dec-15	\$ 25,000,000	\$ 2,930,000	1.437	19,072	1.000	19,072	\$ 850,054	0.304	\$ 258,623	\$ 3,188,623
1-Dec-16	\$ 25,000,000	\$ 900,000	1.785	19,645	1.000	19,645	\$ 898,147	0.440	\$ 394,905	\$ 1,294,905
1-Dec-17	\$ 25,000,000	\$ -	3.556	20,234	1.000	20,234	\$ 1,049,934	0.719	\$ 754,701	\$ 754,701
1-Dec-18	\$ 25,000,000	\$ -	9.069	20,841	1.000	20,841	\$ 955,553	0.890	\$ 850,183	\$ 850,183
1-Dec-19	Various	\$ -	45.343	21,466	1.000	21,466	\$ 1,076,739	0.978	\$ 1,052,992	\$ 1,052,992
1-Dec-20	\$ 35,000,000	\$ -	5220.309	22,110	1.000	22,110	\$ 1,011,949	1.000	\$ 1,011,755	\$ 1,011,755
1-Dec-21	\$ 35,000,000	\$ -	10440.618	22,773.37	1.000	22,773.37	\$ 1,257,090	1.000	\$ 1,256,969	\$ 1,256,969
Total		\$ 9,881,000					\$ 9,688,594		\$ 5,836,673	\$ 15,717,673

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 @ 11/30/22
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred CDF	(3) Paid CDF	(4) Claim CDF	(5) Trend Factors		(6) Physician FTEs
				Loss	Exposure	
Prior	1.000	1.000	1.000	1.860	1.000	-
1-Dec-01	1.000	1.000	1.000	1.806	1.000	-
1-Dec-02	1.000	1.000	1.000	1.754	1.000	-
1-Dec-03	1.000	1.000	1.000	1.702	1.000	33
1-Dec-04	1.000	1.000	1.000	1.653	1.000	33
1-Dec-05	1.000	1.000	1.000	1.605	1.000	23
1-Dec-06	1.000	1.000	1.000	1.558	1.000	14
1-Dec-07	1.001	1.002	1.000	1.513	1.000	-
1-Dec-08	1.004	1.006	1.000	1.469	1.000	-
1-Dec-09	1.009	1.012	1.000	1.426	1.000	-
1-Dec-10	1.019	1.024	1.000	1.384	1.000	-
1-Dec-11	1.029	1.043	1.000	1.344	1.000	35
1-Dec-12	1.040	1.074	1.000	1.305	1.000	35
1-Dec-13	1.050	1.114	1.000	1.267	1.000	35
1-Dec-14	1.060	1.198	1.000	1.230	1.000	41
1-Dec-15	1.071	1.437	1.000	1.194	1.000	45
1-Dec-16	1.093	1.785	1.000	1.159	1.000	46
1-Dec-17	1.125	3.556	1.010	1.126	1.000	52
1-Dec-18	1.210	9.069	1.025	1.093	1.000	46
1-Dec-19	1.391	45.343	1.068	1.061	1.000	50
1-Dec-20	1.808	5220.309	1.236	1.030	1.000	46
1-Dec-21	3.074	10440.618	1.652	1.000	1.000	55

Methods Included in Analysis : **Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity**
 Source Used for LDFs : **Company Exclusively**

LDF Annual Decay Rate (Incurred/F **0.75** **0.75**
 ELR for B/F Method : **23,457**
 Generalized Cape Cod Decay Fact **0.75**
 Loss Limitation : **Exhibit 10, Column (5)**
 Discount Rates : **4.13%**

Column (2) : Company Exclusively **Column (5) : Flat 3.00%**
Column (3) : Company Exclusively **Column (6) : Flat 0.00%**
Column (4) : Company Exclusively **Column (7) : supplied by Cook County, Illinois**



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

**Medical Malpractice - Cermak Health Services Experience @ 11/30/22
Limited Loss Calculations**

(1) Policy Period Inception	(2)			(3)	(4)	(5)	(6)			(7)	(8)	(9)	(10)			(11)	(12)
	Unlimited			Case O/S	Retention	Claims valued over the Retention			No.	Incurred	No.	Paid	Limited			Paid	Case O/S
Incurred	Paid		No.			Incurred	Paid	Incurred					Paid	Incurred	Paid		
Prior	\$ 12,012,000	\$ 12,012,000	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 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	\$ 50,000	\$ -	\$ 50,000	\$ 25,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 50,000	\$ -	\$ 50,000			
1-Dec-19	\$ -	\$ -	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -			
1-Dec-20	\$ -	\$ -	\$ -	\$ 35,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -			
1-Dec-21	\$ -	\$ -	\$ -	\$ 35,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -			
	\$ 29,236,750	\$ 29,186,750	\$ 50,000		-	\$ -	-	\$ -	-	\$ -	-	\$ 29,236,750	\$ 29,186,750	\$ 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 - Cermak Health Services**

**Medical Malpractice - Cermak Health Services Experience @ 11/30/22
Selected Ultimate Claim Counts**

(1) Policy Period Inception	(2) Trended Physician FTEs	(3) Reported Claims	(4) Claim CDF	(5) Chain-Ladder Developed Claims	(6) Frequency Trend	(7) Trended Developed Claims	(8) Trended Frequency Rate	(9) Bornhuetter -Ferguson Developed	(10) Selected Trended Claims	(11) Selected Untrended Claims	(12) 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	1.010	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-18	46	2	1.025	2	1.000	2	4.47176%		2	2	4.47176%
1-Dec-19	50	0	1.068	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-20	46	0	1.236	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-21	55	0	1.652	0	1.000	0	0.00000%		0	0	0.00000%
Total	485	21		21		21	4.34073%		21	21	4.34073%

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 3

Column (10) : Selected Trended Ultimate Claims

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

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

Selected Bornhuetter-Ferguson Claim Count for Policy Period 1-Dec-21

Weighted Averages excluding Policy Period 1-Dec-21

Last 5 Policies	249	2	0.82385%	2	0.82385%
Last 3 Policies	151	0	0.00000%	0	0.00000%
Last 2 Policies	101	0	0.00000%	0	0.00000%
Last 10 Policies	430	21	4.89828%	21	4.89828%

Selected Bornhuetter-Ferguson Frequency Rate

Physician FTEs for 1-Dec-21

Apriori Expected Count for 1-Dec-21

4.89828%

55

3



**Cook County, Illinois
 Medical Malpractice - Cermak Health Services
 Medical Malpractice - Cermak Health Services Experience @ 11/30/22
 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	Physician FTEs	Exposure Trend Factor	Trended Physician FTEs	Trended Loss Rate
1-Dec-11	10,000	10,000	1.384	1.000	13,842	35	1.000	35	395
1-Dec-12	-	-	1.344	1.000	-	35	1.000	35	0
1-Dec-13	-	-	1.305	1.000	-	35	1.000	35	0
1-Dec-14	6,041,000	6,041,000	1.267	1.000	7,652,558	41	1.000	41	186,648
1-Dec-15	2,930,000	3,100,000	1.230	1.000	3,812,609	45	1.000	45	84,725
1-Dec-16	900,000	980,000	1.194	1.000	1,170,171	46	1.000	46	25,439
1-Dec-17	-	300,000	1.159	1.000	347,782	52	1.000	52	6,688
1-Dec-18	50,000	410,000	1.126	1.000	461,459	46	1.000	46	10,032
1-Dec-19	-	470,000	1.093	1.000	513,582	50	1.000	50	10,272
1-Dec-20	-	700,000	1.061	1.000	742,630	46	1.000	46	16,144
1-Dec-21	-	900,000	1.030	1.000	927,000	55	1.000	55	16,855
All Year Weighted Average					15,641,633			486	32,184
Latest 5-Year Weighted Average					2,992,453			249	12,018
Latest 3-Year Weighted Average					2,183,212			151	14,458
SELECTED - Based on Shaded PY					7,975,233			340	23,457

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)
Policy Period Inception	Retention	Physician FTEs	Claim Count	Loss Rate	Loss Amount	
1-Dec-22	35,000,000	55	2	23,457	1,290,000	
1-Dec-23	35,000,000	55	2	24,395	1,350,000	
1-Dec-24	35,000,000	55	2	25,371	1,400,000	

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



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						55

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



**Cook County, Illinois
Medical Malpractice - Cermak Health Services
Projected Losses Paid 12/1/2022 to 11/30/2023**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/22	Percent Losses Paid	Months of Development 11/30/23	Percent Losses Paid	Estimated Outstanding Losses 11/30/22	Projected Losses Paid	Estimated Outstanding Losses 11/30/23	Discount Factor	Discounted Outstanding Losses 11/30/23
Prior	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	180	99.8%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	168	99.4%	180	99.8%	\$ -	\$ -	\$ -	0.980	\$ -
1-Dec-09	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.967	\$ -
1-Dec-10	144	97.6%	156	98.8%	\$ -	\$ -	\$ -	0.954	\$ -
1-Dec-11	132	95.9%	144	97.6%	\$ -	\$ -	\$ -	0.948	\$ -
1-Dec-12	120	93.1%	132	95.9%	\$ -	\$ -	\$ -	0.940	\$ -
1-Dec-13	108	89.8%	120	93.1%	\$ -	\$ -	\$ -	0.934	\$ -
1-Dec-14	96	83.5%	108	89.8%	\$ -	\$ -	\$ -	0.924	\$ -
1-Dec-15	84	69.6%	96	83.5%	\$ 170,000	\$ 23,911	\$ 146,089	0.923	\$ 134,780
1-Dec-16	72	56.0%	84	69.6%	\$ 80,000	\$ 17,294	\$ 62,706	0.929	\$ 58,253
1-Dec-17	60	28.1%	72	56.0%	\$ 300,000	\$ 71,830	\$ 228,170	0.919	\$ 209,731
1-Dec-18	48	11.0%	60	28.1%	\$ 410,000	\$ 78,763	\$ 331,237	0.920	\$ 304,900
1-Dec-19	36	2.2%	48	11.0%	\$ 470,000	\$ 42,397	\$ 427,603	0.902	\$ 385,877
1-Dec-20	24	0.0%	36	2.2%	\$ 700,000	\$ 15,307	\$ 684,693	0.877	\$ 600,375
1-Dec-21	12	0.0%	24	0.0%	\$ 900,000	\$ 86	\$ 899,914	0.845	\$ 760,508
1-Dec-22	0	0.0%	12	0.0%	\$ 1,290,000	\$ 124	\$ 1,289,876	0.812	\$ 1,046,849
Total					\$ 4,320,000	\$ 249,711	\$ 4,070,289		\$ 3,501,273

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 4.13% Interest Rate
 Column (10): Column (8) x Column (9)



**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%	\$ -	\$ -	\$ -	0.980	\$ -
1-Dec-10	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.967	\$ -
1-Dec-11	144	97.6%	156	98.8%	\$ -	\$ -	\$ -	0.954	\$ -
1-Dec-12	132	95.9%	144	97.6%	\$ -	\$ -	\$ -	0.948	\$ -
1-Dec-13	120	93.1%	132	95.9%	\$ -	\$ -	\$ -	0.940	\$ -
1-Dec-14	108	89.8%	120	93.1%	\$ -	\$ -	\$ -	0.934	\$ -
1-Dec-15	96	83.5%	108	89.8%	\$ 146,089	\$ 24,150	\$ 121,940	0.924	\$ 112,693
1-Dec-16	84	69.6%	96	83.5%	\$ 62,706	\$ 8,820	\$ 53,887	0.923	\$ 49,715
1-Dec-17	72	56.0%	84	69.6%	\$ 228,170	\$ 49,323	\$ 178,847	0.929	\$ 166,144
1-Dec-18	60	28.1%	72	56.0%	\$ 331,237	\$ 128,622	\$ 202,615	0.919	\$ 186,241
1-Dec-19	48	11.0%	60	28.1%	\$ 427,603	\$ 82,144	\$ 345,458	0.920	\$ 317,991
1-Dec-20	36	2.2%	48	11.0%	\$ 684,693	\$ 61,764	\$ 622,929	0.902	\$ 562,144
1-Dec-21	24	0.0%	36	2.2%	\$ 899,914	\$ 19,678	\$ 880,235	0.877	\$ 771,837
1-Dec-22	12	0.0%	24	0.0%	\$ 1,289,876	\$ 124	\$ 1,289,753	0.845	\$ 1,089,957
1-Dec-23	0	0.0%	12	0.0%	\$ 1,350,000	\$ 129	\$ 1,349,871	0.812	\$ 1,095,539
Total					\$ 5,420,289	\$ 374,754	\$ 5,045,535		\$ 4,352,261

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 4.13% 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%	\$ -	\$ -	\$ -	0.980	\$ -
1-Dec-11	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.967	\$ -
1-Dec-12	144	97.6%	156	98.8%	\$ -	\$ -	\$ -	0.954	\$ -
1-Dec-13	132	95.9%	144	97.6%	\$ -	\$ -	\$ -	0.948	\$ -
1-Dec-14	120	93.1%	132	95.9%	\$ -	\$ -	\$ -	0.940	\$ -
1-Dec-15	108	89.8%	120	93.1%	\$ 121,940	\$ 24,391	\$ 97,549	0.934	\$ 91,103
1-Dec-16	96	83.5%	108	89.8%	\$ 53,887	\$ 8,908	\$ 44,979	0.924	\$ 41,568
1-Dec-17	84	69.6%	96	83.5%	\$ 178,847	\$ 25,155	\$ 153,692	0.923	\$ 141,794
1-Dec-18	72	56.0%	84	69.6%	\$ 202,615	\$ 62,415	\$ 140,200	0.929	\$ 130,242
1-Dec-19	60	28.1%	72	56.0%	\$ 345,458	\$ 134,144	\$ 211,314	0.919	\$ 194,237
1-Dec-20	48	11.0%	60	28.1%	\$ 622,929	\$ 119,668	\$ 503,262	0.920	\$ 463,247
1-Dec-21	36	2.2%	48	11.0%	\$ 880,235	\$ 79,403	\$ 800,832	0.902	\$ 722,687
1-Dec-22	24	0.0%	36	2.2%	\$ 1,289,753	\$ 28,203	\$ 1,261,550	0.877	\$ 1,106,193
1-Dec-23	12	0.0%	24	0.0%	\$ 1,349,871	\$ 129	\$ 1,349,741	0.845	\$ 1,140,653
1-Dec-24	0	0.0%	12	0.0%	\$ 1,400,000	\$ 134	\$ 1,399,866	0.812	\$ 1,136,115
Total					\$ 6,445,535	\$ 482,550	\$ 5,962,985		\$ 5,167,839

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 4.13% 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 (Cermak, Provident, Stroger)
 Occurrence
 Indemnity and Expense
 Incurred Development Triangle
 Data Limited to Retentions (000s)
 As of 11/30/2022

		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	
Prior																		285,259	285,259	285,259	285,259	285,259	
12/1/2001	33,740	25,655	29,808	24,761	25,134	31,305	25,861	26,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	24,848	24,848	24,848	24,848	24,848	24,848	
12/1/2002	26,711	16,022	5,770	8,413	8,248	6,788	5,688	5,336	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,313	5,313	5,313	5,313	5,313	5,313	5,313	
12/1/2003	28,331	39,505	26,840	38,771	29,756	28,646	20,246	20,146	19,646	19,646	19,646	19,646	19,646	19,646	19,196	19,196	19,196	19,196	19,196	19,196	19,196	19,196	
12/1/2004	9,450	27,041	20,842	24,110	21,345	19,465	18,715	19,715	19,715	19,715	19,715	19,715	19,715	29,698	39,698	33,698	33,698	33,698	33,698	33,698	33,698	33,698	
12/1/2005	14,276	35,957	22,631	24,828	17,228	16,758	13,858	15,803	25,603	25,603	24,028	24,250	25,000	24,750	24,750	24,750	24,750	24,750	24,750	24,750	24,750	24,750	
12/1/2006	11,046	13,126	8,721	5,787	4,726	5,646	5,496	4,766	4,766	4,766	4,766	4,766	4,766	4,853	4,853	4,853	4,853	4,853	4,853	4,853	4,853	4,853	
12/1/2007	24,827	12,544	17,152	18,477	12,927	12,227	10,927	8,427	8,427	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	
12/1/2008	5,235	6,890	9,775	10,255	9,555	10,005	8,255	8,405	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	
12/1/2009	5,095	8,253	15,550	16,388	13,503	12,388	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	
12/1/2010	770	3,900	8,530	11,105	11,183	10,673	9,968	10,718	10,718	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818	
12/1/2011	23,923	34,253	39,927	39,455	39,045	37,644	38,344	38,044	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	
12/1/2012	6,925	12,000	29,150	39,255	61,465	66,155	70,215	63,015	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	
12/1/2013	1,560	7,155	6,400	5,575	3,125	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	
12/1/2014	7,000	8,225	8,630	16,108	38,101	29,431	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	
12/1/2015	5,190	8,620	11,315	12,990	13,930	16,793	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	
12/1/2016	450	2,376	9,851	28,000	8,950	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	
12/1/2017	1,450	3,955	16,980	35,730	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	
12/1/2018	50	5,155	10,595	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	
12/1/2019	0	11,152	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	
12/1/2020	0	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	
12/1/2021	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	

		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-Ult	
Prior																							
12/1/2001	0.760	1.162	0.831	1.015	1.246	0.826	1.008	0.962	1.000	1.000	1.000	1.000	1.000	1.000	0.992	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2002	0.600	0.360	1.458	0.980	0.823	0.838	0.938	0.996	1.000	1.000	1.000	1.000	1.000	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2003	1.394	0.679	1.445	0.767	0.963	0.707	0.995	0.975	1.000	1.000	1.000	1.000	0.977	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2004	2.861	0.771	1.157	0.885	0.912	0.961	1.053	1.000	1.000	1.000	1.000	1.506	1.337	0.849	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2005	2.519	0.629	1.097	0.894	0.973	0.827	1.126	1.641	1.000	0.938	1.009	1.031	0.990	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2006	1.188	0.664	0.664	0.817	1.195	0.973	0.867	1.000	1.000	1.018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2007	0.505	1.367	1.077	0.700	0.946	0.894	0.771	1.000	0.985	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2008	1.316	1.419	1.049	0.932	1.047	0.825	1.018	0.976	1.000	1.000	1.061	1.057	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2009	1.620	1.884	1.053	0.825	0.917	0.904	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2010	5.065	2.187	1.302	1.007	0.954	0.934	1.075	1.000	1.009	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2011	1.432	1.166	0.988	0.990	0.964	1.019	0.992	1.147	1.000	0.955	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	1.733	2.429	1.347	1.566	1.076	1.061	0.897	0.976	1.000	1.000	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	4.587	0.894	0.871	0.561	0.864	1.000	1.000	1.000	1.000	1.000	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	1.175	1.049	1.867	2.365	0.772	1.085	1.000	1.000	1.000	1.000	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	1.661	1.313	1.148	1.072	1.205	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	
12/1/2016	5.279	4.147	2.942	0.320	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	
12/1/2017	2.728	4.293	2.104	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	
12/1/2018	103,100	2,055	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	
12/1/2019	0	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	
12/1/2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12/1/2021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

		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-Ult
All Year Average	7.751	1.595	1.298	0.967	0.992	0.924	0.982	1.052	1.000	0.992	1.007	1.066	1.038	0.978	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3 Yr Average	37.035	2.727	2.006	0.776	0.996	1.030	0.966	1.041	1.003	0.985	1.020	1.019	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Yr Average	22.788	2.728	1.806	1.051	0.985	1.024	0.993	1.025	1.002	0.991	1.012	1.018	1.055	0.970								

Cook County, Illinois
 Medical Malpractice (Cermak, Provident, Stroger)
 Occurrence
 Indemnity and Expense
 Reported Claim Count Triangle
 Data Limited to Retentions
 As of 11/30/2022

		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	
Prior																					520	530	520	520
12/1/2001																118	118	118	118	118	118	118	118	
12/1/2002															111	111	111	111	111	111	111	111	118	
12/1/2003															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	51	
12/1/2008										46	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	51	
12/1/2010										59	59	60	60	60	60	60	60	60	60	60	60	60	60	
12/1/2011										56	57	57	57	59	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	65	
12/1/2013										41	42	42	42	42	42	42	42	42	42	42	42	42	42	
12/1/2014										41	42	42	42	42	42	42	42	42	42	42	42	42	42	
12/1/2015										35	33	43	45	47	47	47	47	47	47	47	47	47	47	
12/1/2016										46	53	56	57	58	58	58	58	58	58	58	58	58	58	
12/1/2017										12	19	25	26	24	24	24	24	24	24	24	24	24	24	
12/1/2018										28	34	39	42	42	42	42	42	42	42	42	42	42	42	
12/1/2019										29	38	44	45	45	45	45	45	45	45	45	45	45	45	
12/1/2020										15	22	27	27	27	27	27	27	27	27	27	27	27	27	
12/1/2021										16	18	18	18	18	18	18	18	18	18	18	18	18	18	

		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-Ult
Prior																							
12/1/2001																							
12/1/2002																							
12/1/2003																							
12/1/2004																							
12/1/2005																							
12/1/2006																							
12/1/2007																							
12/1/2008																							
12/1/2009																							
12/1/2010																							
12/1/2011																							
12/1/2012																							
12/1/2013																							
12/1/2014																							
12/1/2015																							
12/1/2016																							
12/1/2017																							
12/1/2018																							
12/1/2019																							
12/1/2020																							
12/1/2021																							

		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-Ult
All Year Average		1.336	1.217	1.045	1.000	1.003	1.003	1.003	1.006	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
3 Yr Average		1.301	1.177	1.047	0.980	1.006	1.000	1.000	1.012	1.000	1.000	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Yr Average		1.340	1.200	1.049	0.997	1.004	1.004	1.003	1.007	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
3 Yr Wtd Average		1.300	1.170	1.046	0.992	1.008	1.000	1.000	1.012	1.000	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Yr Wtd Average		1.310	1.182	1.049	1.005	1.004	1.004	1.004	1.007	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
Avg X Hi-Lo (3yr X 2)		1.310	1.158	1.040	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Avg X Hi-Lo (5yr X 2)		1.330	1.179	1.048	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
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
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	1.001	1.001	1.001	1.001	1.001	1.002
Initial Selected		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

		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-Ult
Inverse Power Curve Fit																							1.00000
Exponential Curve Fit																							1.00000
Weibull Curve Fit																							1.00000
Manual Entry																							1.00000
Selected Tail Method:	Manual Entry																						Tail
Final Link Ratio		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
Final CDF		1.652	1.236	1.068	1.025	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Industry Factor Source: AM Bests Med Mal Occ



**Cook County, Illinois
Medical Malpractice - John H. Stroger, Jr. Hospital Experience @ 11/30/22
Losses Limited to Retentions**

Policy Period	Occupied Bed Equivalents	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	-	10,000,000	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	1	8,905,000	7,905,000	1,000,000	115,000	1,115,000	9,020,000	4,627
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	39,868,999	36,018,999	3,850,000	831,001	4,681,001	40,700,000	22,438
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	6	2,275,000	1,625,000	650,000	225,000	875,000	2,500,000	1,359
1-Dec-14	1,728	Various	41	1	25,890,000	10,890,000	15,000,000	1,810,000	16,810,000	27,700,000	16,033
1-Dec-15	1,787	25,000,000	52	14	11,017,500	5,237,500	5,780,000	1,612,500	7,392,500	12,630,000	7,068
1-Dec-16	1,779	25,000,000	20	5	8,080,000	4,430,000	3,650,000	1,820,000	5,470,000	9,900,000	5,565
1-Dec-17	1,774	25,000,000	40	8	33,435,000	30,835,000	2,600,000	2,565,000	5,165,000	36,000,000	20,292
1-Dec-18	1,638	25,000,000	39	6	11,295,000	4,895,000	6,400,000	5,505,000	11,905,000	16,800,000	10,256
1-Dec-19	1,566	Various	25	8	20,336,500	6,086,500	14,250,000	8,263,500	22,513,500	28,600,000	18,260
1-Dec-20	1,701	35,000,000	18	3	5,249,000	299,000	4,950,000	12,351,000	17,301,000	17,600,000	10,344
1-Dec-21	1,713	35,000,000	18	1	2,500,000	-	2,500,000	19,500,000	22,000,000	22,000,000	12,840
Total	38,627		1,546	62	614,059,391	553,029,391	61,030,000	54,953,001	115,983,001	669,012,392	10,592

Full Policy Period Projections

1-Dec-22	1,713	35,000,000								25,400,000	14,835
1-Dec-23	1,713	35,000,000								26,400,000	15,428



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

**Medical Malpractice - John H. Stroger, Jr. Hospital Experience @ 11/30/22
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	\$ 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	\$ 7,009,002	\$ 7,016,004	\$ 7,002,000	\$ 7,018,816	\$ 7,035,599	\$ 7,016,619	\$ 7,030,489	\$ 7,009,002	\$ 7,002,000
1-Dec-08	\$ 8,940,647	\$ 7,952,493	\$ 10,913,504	\$ 8,977,296	\$ 8,013,291	\$ 8,969,005	\$ 7,997,874	\$ 8,940,647	\$ 9,020,000
1-Dec-09	\$ 9,174,542	\$ 9,202,011	\$ 9,092,500	\$ 9,255,995	\$ 9,310,084	\$ 9,245,953	\$ 9,290,376	\$ 9,174,542	\$ 9,092,500
1-Dec-10	\$ 11,021,710	\$ 10,974,181	\$ 11,200,700	\$ 11,169,615	\$ 11,161,556	\$ 11,180,719	\$ 11,162,506	\$ 11,021,710	\$ 11,000,000
1-Dec-11	\$ 41,037,335	\$ 37,554,272	\$ 48,700,407	\$ 40,423,460	\$ 36,815,174	\$ 40,515,709	\$ 36,928,657	\$ 41,037,335	\$ 40,700,000
1-Dec-12	\$ 62,729,308	\$ 64,584,508	\$ 60,587,914	\$ 61,108,337	\$ 61,528,178	\$ 61,278,453	\$ 61,829,737	\$ 62,729,308	\$ 60,500,000
1-Dec-13	\$ 2,388,735	\$ 1,810,533	\$ 2,839,124	\$ 3,264,266	\$ 3,754,126	\$ 3,366,527	\$ 3,943,144	\$ 2,388,735	\$ 2,500,000
1-Dec-14	\$ 27,456,172	\$ 13,043,357	\$ 33,808,950	\$ 27,017,587	\$ 14,153,450	\$ 27,098,695	\$ 14,317,755	\$ 27,456,172	\$ 27,700,000
1-Dec-15	\$ 11,800,825	\$ 7,527,778	\$ 12,630,475	\$ 12,415,417	\$ 11,644,768	\$ 12,426,972	\$ 11,942,502	\$ 11,800,825	\$ 12,630,000
1-Dec-16	\$ 8,827,563	\$ 7,906,319	\$ 8,950,698	\$ 9,908,716	\$ 13,924,769	\$ 9,877,420	\$ 15,089,305	\$ 8,827,563	\$ 9,900,000
1-Dec-17	\$ 37,624,266	\$ 109,657,998	\$ 33,911,567	\$ 35,904,765	\$ 46,779,038	\$ 35,942,152	\$ 51,987,247	\$ 37,251,749	\$ 36,000,000
1-Dec-18	\$ 13,663,483	\$ 44,390,418	\$ 12,843,612	\$ 14,951,787	\$ 23,664,312	\$ 14,861,710	\$ 30,788,296	\$ 13,909,410	\$ 16,800,000
1-Dec-19	\$ 28,291,060	\$ 275,977,814	\$ 26,086,767	\$ 26,315,336	\$ 26,881,764	\$ 26,086,568	\$ 36,112,129	\$ 27,754,523	\$ 28,600,000
1-Dec-20	\$ 9,492,770	\$ 1,560,872,437	\$ 9,252,418	\$ 15,885,345	\$ 24,086,585	\$ 14,832,294	\$ 34,746,749	\$ 10,180,133	\$ 17,600,000
1-Dec-21	\$ 7,686,087	\$ -	\$ 7,687,615	\$ 19,151,241	\$ 24,675,758	\$ 16,979,187	\$ 35,732,337	\$ 12,171,514	\$ 22,000,000
Total	\$ 645,101,398	\$ 2,516,328,014	\$ 653,466,143	\$ 400,843,515	\$ 421,403,989	\$ 397,753,517	\$ 466,874,639	\$ 649,611,062	\$ 669,012,392

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 @ 11/30/22
Unpaid Liabilities at Various Discount Rates
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.13%
Prior	264	\$ 10,000,000	\$ 259,882,357	\$ 259,882,357	\$ 259,882,357	\$ -	\$ -	\$ -	\$ -
1-Dec-01	252	Various	\$ 23,647,540	\$ 23,647,540	\$ 23,647,540	\$ -	\$ -	\$ -	\$ -
1-Dec-02	240	Various	\$ 4,268,645	\$ 4,268,645	\$ 4,268,645	\$ -	\$ -	\$ -	\$ -
1-Dec-03	228	\$ 20,000,000	\$ 8,377,500	\$ 8,377,500	\$ 8,377,500	\$ -	\$ -	\$ -	\$ -
1-Dec-04	216	\$ 20,000,000	\$ 33,606,850	\$ 33,606,850	\$ 33,606,850	\$ -	\$ -	\$ -	\$ -
1-Dec-05	204	\$ 20,000,000	\$ 23,325,000	\$ 23,325,000	\$ 23,325,000	\$ -	\$ -	\$ -	\$ -
1-Dec-06	192	\$ 20,000,000	\$ 4,860,000	\$ 4,850,000	\$ 4,750,000	\$ 100,000	\$ 10,000	\$ 110,000	\$ 110,000
1-Dec-07	180	\$ 20,000,000	\$ 7,002,000	\$ 7,002,000	\$ 7,002,000	\$ -	\$ -	\$ -	\$ -
1-Dec-08	168	\$ 20,000,000	\$ 9,020,000	\$ 8,905,000	\$ 7,905,000	\$ 1,000,000	\$ 115,000	\$ 1,115,000	\$ 1,078,181
1-Dec-09	156	Various	\$ 9,092,500	\$ 9,092,500	\$ 9,092,500	\$ -	\$ -	\$ -	\$ -
1-Dec-10	144	\$ 40,000,000	\$ 11,000,000	\$ 10,815,000	\$ 10,715,000	\$ 100,000	\$ 185,000	\$ 285,000	\$ 270,156
1-Dec-11	132	\$ 40,000,000	\$ 40,700,000	\$ 39,868,999	\$ 36,018,999	\$ 3,850,000	\$ 831,001	\$ 4,681,001	\$ 4,398,885
1-Dec-12	120	Various	\$ 60,500,000	\$ 60,340,000	\$ 60,140,000	\$ 200,000	\$ 160,000	\$ 360,000	\$ 336,213
1-Dec-13	108	\$ 30,000,000	\$ 2,500,000	\$ 2,275,000	\$ 1,625,000	\$ 650,000	\$ 225,000	\$ 875,000	\$ 808,650
1-Dec-14	96	Various	\$ 27,700,000	\$ 25,890,000	\$ 10,890,000	\$ 15,000,000	\$ 1,810,000	\$ 16,810,000	\$ 15,508,623
1-Dec-15	84	\$ 25,000,000	\$ 12,630,000	\$ 11,017,500	\$ 5,237,500	\$ 5,780,000	\$ 1,612,500	\$ 7,392,500	\$ 6,867,438
1-Dec-16	72	\$ 25,000,000	\$ 9,900,000	\$ 8,080,000	\$ 4,430,000	\$ 3,650,000	\$ 1,820,000	\$ 5,470,000	\$ 5,027,956
1-Dec-17	60	\$ 25,000,000	\$ 36,000,000	\$ 33,435,000	\$ 30,835,000	\$ 2,600,000	\$ 2,565,000	\$ 5,165,000	\$ 4,754,325
1-Dec-18	48	\$ 25,000,000	\$ 16,800,000	\$ 11,295,000	\$ 4,895,000	\$ 6,400,000	\$ 5,505,000	\$ 11,905,000	\$ 10,743,313
1-Dec-19	36	Various	\$ 28,600,000	\$ 20,336,500	\$ 6,086,500	\$ 14,250,000	\$ 8,263,500	\$ 22,513,500	\$ 19,741,019
1-Dec-20	24	\$ 35,000,000	\$ 17,600,000	\$ 5,249,000	\$ 299,000	\$ 4,950,000	\$ 12,351,000	\$ 17,301,000	\$ 14,620,904
1-Dec-21	12	\$ 35,000,000	\$ 22,000,000	\$ 2,500,000	\$ -	\$ 2,500,000	\$ 19,500,000	\$ 22,000,000	\$ 17,854,943
Total			\$ 669,012,392	\$ 614,059,391	\$ 553,029,391	\$ 61,030,000	\$ 54,953,001	\$ 115,983,001	\$ 102,120,606

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 @ 11/30/22
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	264	\$ 259,882,357	1.000	\$ 259,882,357	\$ 259,882,357	1.000	\$ 259,882,357	\$ -	1.000	\$ 259,882,357
1-Dec-01	252	\$ 23,647,540	1.000	\$ 23,647,540	\$ 23,647,540	1.000	\$ 23,647,540	\$ -	1.000	\$ 23,647,540
1-Dec-02	240	\$ 4,268,645	1.000	\$ 4,268,645	\$ 4,268,645	1.000	\$ 4,268,645	\$ -	1.000	\$ 4,268,645
1-Dec-03	228	\$ 8,377,500	1.000	\$ 8,377,500	\$ 8,377,500	1.000	\$ 8,377,500	\$ -	1.000	\$ 8,377,500
1-Dec-04	216	\$ 33,606,850	1.000	\$ 33,606,850	\$ 33,606,850	1.000	\$ 33,606,850	\$ -	1.000	\$ 33,606,850
1-Dec-05	204	\$ 23,325,000	1.000	\$ 23,325,000	\$ 23,325,000	1.000	\$ 23,325,000	\$ -	1.000	\$ 23,325,000
1-Dec-06	192	\$ 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	180	\$ 7,002,000	1.001	\$ 7,009,002	\$ 7,002,000	1.002	\$ 7,016,004	\$ -	2.002	\$ 7,002,000
1-Dec-08	168	\$ 8,905,000	1.004	\$ 8,940,647	\$ 7,905,000	1.006	\$ 7,952,493	\$ 1,000,000	3.009	\$ 10,913,504
1-Dec-09	156	\$ 9,092,500	1.009	\$ 9,174,542	\$ 9,092,500	1.012	\$ 9,202,011	\$ -	4.023	\$ 9,092,500
1-Dec-10	144	\$ 10,815,000	1.019	\$ 11,021,710	\$ 10,715,000	1.024	\$ 10,974,181	\$ 100,000	4.857	\$ 11,200,700
1-Dec-11	132	\$ 39,868,999	1.029	\$ 41,037,335	\$ 36,018,999	1.043	\$ 37,554,272	\$ 3,850,000	3.294	\$ 48,700,407
1-Dec-12	120	\$ 60,340,000	1.040	\$ 62,729,308	\$ 60,140,000	1.074	\$ 64,584,508	\$ 200,000	2.240	\$ 60,587,914
1-Dec-13	108	\$ 2,275,000	1.050	\$ 2,388,735	\$ 1,625,000	1.114	\$ 1,810,533	\$ 650,000	1.868	\$ 2,839,124
1-Dec-14	96	\$ 25,890,000	1.060	\$ 27,456,172	\$ 10,890,000	1.198	\$ 13,043,357	\$ 15,000,000	1.528	\$ 33,808,950
1-Dec-15	84	\$ 11,017,500	1.071	\$ 11,800,825	\$ 5,237,500	1.437	\$ 7,527,778	\$ 5,780,000	1.279	\$ 12,630,475
1-Dec-16	72	\$ 8,080,000	1.093	\$ 8,827,563	\$ 4,430,000	1.785	\$ 7,906,319	\$ 3,650,000	1.239	\$ 8,950,698
1-Dec-17	60	\$ 33,435,000	1.125	\$ 37,624,266	\$ 30,835,000	3.556	\$ 109,657,998	\$ 2,600,000	1.183	\$ 33,911,567
1-Dec-18	48	\$ 11,295,000	1.210	\$ 13,663,483	\$ 4,895,000	9.069	\$ 44,390,418	\$ 6,400,000	1.242	\$ 12,843,612
1-Dec-19	36	\$ 20,336,500	1.391	\$ 28,291,060	\$ 6,086,500	45.343	\$ 275,977,814	\$ 14,250,000	1.404	\$ 26,086,767
1-Dec-20	24	\$ 5,249,000	1.808	\$ 9,492,770	\$ 299,000	5220.309	\$ 1,560,872,437	\$ 4,950,000	1.809	\$ 9,252,418
1-Dec-21	12	\$ 2,500,000	3.074	\$ 7,686,087	\$ -	10440.618	\$ -	\$ 2,500,000	3.075	\$ 7,687,615
Total		\$ 614,059,391		\$ 645,101,398	\$ 553,029,391		\$ 2,516,328,014	\$ 61,030,000		\$ 653,466,143

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 @ 11/30/22
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	252	\$ 23,647,540	1.806	1.118	\$ 47,750,021	2,090	1.000	14,549	\$ 15,058,268	\$ 23,647,540
1-Dec-02	240	\$ 4,268,645	1.754	1.054	\$ 7,892,028	2,039	1.000	13,470	\$ 14,859,343	\$ 4,268,645
1-Dec-03	228	\$ 8,377,500	1.702	1.054	\$ 15,037,506	2,060	1.000	13,744	\$ 15,776,167	\$ 8,377,500
1-Dec-04	216	\$ 33,606,850	1.653	1.054	\$ 58,566,863	2,032	1.000	14,674	\$ 17,110,689	\$ 33,606,850
1-Dec-05	204	\$ 23,325,000	1.605	1.054	\$ 39,464,680	1,961	1.000	14,058	\$ 16,292,936	\$ 23,325,000
1-Dec-06	192	\$ 4,850,000	1.558	1.054	\$ 7,966,938	1,829	1.000	12,888	\$ 14,353,300	\$ 4,850,000
1-Dec-07	180	\$ 7,002,000	1.513	1.054	\$ 11,166,950	1,864	1.001	12,521	\$ 14,633,247	\$ 7,016,619
1-Dec-08	168	\$ 8,905,000	1.469	1.054	\$ 13,788,251	1,949	1.004	12,751	\$ 16,053,272	\$ 8,969,005
1-Dec-09	156	\$ 9,092,500	1.426	0.998	\$ 12,940,086	1,807	1.009	13,518	\$ 17,160,312	\$ 9,245,953
1-Dec-10	144	\$ 10,815,000	1.384	0.998	\$ 14,943,184	1,814	1.019	14,854	\$ 19,500,032	\$ 11,180,719
1-Dec-11	132	\$ 39,868,999	1.344	0.998	\$ 53,482,875	1,814	1.029	16,799	\$ 22,715,413	\$ 40,515,709
1-Dec-12	120	\$ 60,340,000	1.305	1.007	\$ 79,267,423	1,840	1.040	17,592	\$ 24,638,301	\$ 61,278,453
1-Dec-13	108	\$ 2,275,000	1.267	1.007	\$ 2,901,574	1,840	1.050	15,892	\$ 22,924,957	\$ 3,366,527
1-Dec-14	96	\$ 25,890,000	1.230	1.024	\$ 32,590,057	1,728	1.060	15,439	\$ 21,189,326	\$ 27,098,695
1-Dec-15	84	\$ 11,017,500	1.194	1.024	\$ 13,464,769	1,787	1.071	14,522	\$ 21,233,750	\$ 12,426,972
1-Dec-16	72	\$ 8,080,000	1.159	1.024	\$ 9,587,160	1,779	1.093	14,156	\$ 21,224,737	\$ 9,877,420
1-Dec-17	60	\$ 33,435,000	1.126	1.024	\$ 38,516,137	1,774	1.125	14,621	\$ 22,517,007	\$ 35,942,152
1-Dec-18	48	\$ 11,295,000	1.093	1.024	\$ 12,632,532	1,638	1.210	14,048	\$ 20,575,910	\$ 14,861,710
1-Dec-19	36	\$ 20,336,500	1.061	1.000	\$ 21,574,993	1,566	1.391	13,852	\$ 20,450,598	\$ 26,086,568
1-Dec-20	24	\$ 5,249,000	1.030	1.000	\$ 5,406,470	1,701	1.808	12,977	\$ 21,436,603	\$ 14,832,294
1-Dec-21	12	\$ 2,500,000	1.000	1.000	\$ 2,500,000	1,713	3.074	12,524	\$ 21,459,009	\$ 16,979,187
Total		\$ 354,177,034			\$ 501,440,497	38,627			\$ 401,163,176	\$ 397,753,517

Column (3) : supplied by Cook County, Illinois
 Column (4) : Masterson 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 @ 11/30/22
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	252	\$ 23,647,540	1.806	1.118	\$ 47,750,021	2,090	1.000	14,481	\$ 14,988,801	\$ 23,647,540
1-Dec-02	240	\$ 4,268,645	1.754	1.054	\$ 7,892,028	2,039	1.000	13,385	\$ 14,765,226	\$ 4,268,645
1-Dec-03	228	\$ 8,377,500	1.702	1.054	\$ 15,037,506	2,060	1.000	13,644	\$ 15,661,525	\$ 8,377,500
1-Dec-04	216	\$ 33,606,850	1.653	1.054	\$ 58,566,863	2,032	1.000	14,561	\$ 16,978,944	\$ 33,606,850
1-Dec-05	204	\$ 23,325,000	1.605	1.054	\$ 39,464,680	1,961	1.000	13,902	\$ 16,112,088	\$ 23,325,000
1-Dec-06	192	\$ 4,750,000	1.558	1.054	\$ 7,802,671	1,829	1.000	12,657	\$ 14,096,184	\$ 4,750,000
1-Dec-07	180	\$ 7,002,000	1.513	1.054	\$ 11,166,950	1,864	1.002	12,212	\$ 14,272,744	\$ 7,030,489
1-Dec-08	168	\$ 7,905,000	1.469	1.054	\$ 12,239,879	1,949	1.006	12,352	\$ 15,551,181	\$ 7,997,874
1-Dec-09	156	\$ 9,092,500	1.426	0.998	\$ 12,940,086	1,807	1.012	13,098	\$ 16,627,254	\$ 9,290,376
1-Dec-10	144	\$ 10,715,000	1.384	0.998	\$ 14,805,014	1,814	1.024	14,433	\$ 18,948,221	\$ 11,162,506
1-Dec-11	132	\$ 36,018,999	1.344	0.998	\$ 48,318,234	1,814	1.043	16,456	\$ 22,251,122	\$ 36,928,657
1-Dec-12	120	\$ 60,140,000	1.305	1.007	\$ 79,004,687	1,840	1.074	17,532	\$ 24,554,089	\$ 61,829,737
1-Dec-13	108	\$ 1,625,000	1.267	1.007	\$ 2,072,553	1,840	1.114	15,681	\$ 22,621,748	\$ 3,943,144
1-Dec-14	96	\$ 10,890,000	1.230	1.024	\$ 13,708,216	1,728	1.198	15,128	\$ 20,762,669	\$ 14,317,755
1-Dec-15	84	\$ 5,237,500	1.194	1.024	\$ 6,400,883	1,787	1.437	15,072	\$ 22,038,274	\$ 11,942,502
1-Dec-16	72	\$ 4,430,000	1.159	1.024	\$ 5,256,327	1,779	1.785	16,169	\$ 24,242,844	\$ 15,089,305
1-Dec-17	60	\$ 30,835,000	1.126	1.024	\$ 35,521,013	1,774	3.556	19,108	\$ 29,426,857	\$ 51,987,247
1-Dec-18	48	\$ 4,895,000	1.093	1.024	\$ 5,474,656	1,638	9.069	19,869	\$ 29,102,471	\$ 30,788,296
1-Dec-19	36	\$ 6,086,500	1.061	1.000	\$ 6,457,168	1,566	45.343	20,796	\$ 30,702,757	\$ 36,112,129
1-Dec-20	24	\$ 299,000	1.030	1.000	\$ 307,970	1,701	5220.309	20,857	\$ 34,454,349	\$ 34,746,749
1-Dec-21	12	\$ -	1.000	1.000	\$ -	1,713	10440.618	20,856	\$ 35,735,760	\$ 35,732,337
Total		\$ 293,147,034			\$ 430,187,405	38,627			\$ 453,895,107	\$ 466,874,639

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	264	436	1.000	436	1.000	\$ 596,060	\$ 596,060	0	\$ 433,760	\$ 259,882,357
1-Dec-01	252	90	1.000	90	1.000	\$ 262,750	\$ 262,750	0	\$ 421,471	\$ 23,647,540
1-Dec-02	240	87	1.000	87	1.000	\$ 49,065	\$ 49,065	0	\$ 391,263	\$ 4,268,645
1-Dec-03	228	129	1.000	129	1.000	\$ 64,942	\$ 64,942	0	\$ 355,837	\$ 8,377,500
1-Dec-04	216	92	1.000	92	1.000	\$ 365,292	\$ 365,292	0	\$ 351,778	\$ 33,606,850
1-Dec-05	204	74	1.000	74	1.000	\$ 315,203	\$ 315,203	0	\$ 342,980	\$ 23,325,000
1-Dec-06	192	57	1.000	57	1.000	\$ 85,088	\$ 85,088	0	\$ 331,728	\$ 4,850,000
1-Dec-07	180	40	1.000	40	1.001	\$ 175,050	\$ 175,225	0	\$ 334,336	\$ 7,009,002
1-Dec-08	168	43	1.000	43	1.004	\$ 207,093	\$ 207,922	0	\$ 344,978	\$ 8,940,647
1-Dec-09	156	42	1.000	42	1.009	\$ 216,488	\$ 218,441	0	\$ 386,029	\$ 9,174,542
1-Dec-10	144	58	1.000	58	1.019	\$ 186,466	\$ 190,029	0	\$ 421,520	\$ 11,021,710
1-Dec-11	132	52	1.000	52	1.029	\$ 766,712	\$ 789,180	0	\$ 484,702	\$ 41,037,335
1-Dec-12	120	54	1.000	54	1.040	\$ 1,117,407	\$ 1,161,654	0	\$ 524,293	\$ 62,729,308
1-Dec-13	108	39	1.000	39	1.050	\$ 58,333	\$ 61,250	0	\$ 507,272	\$ 2,388,735
1-Dec-14	96	41	1.000	41	1.060	\$ 631,463	\$ 669,663	0	\$ 511,104	\$ 27,456,172
1-Dec-15	84	52	1.000	52	1.071	\$ 211,875	\$ 226,939	0	\$ 508,332	\$ 11,800,825
1-Dec-16	72	20	1.000	20	1.093	\$ 404,000	\$ 441,378	0	\$ 537,591	\$ 8,827,563
1-Dec-17	60	40	1.010	40	1.114	\$ 835,875	\$ 931,294	0	\$ 576,926	\$ 37,251,749
1-Dec-18	48	39	1.025	40	1.180	\$ 289,615	\$ 341,751	1	\$ 581,133	\$ 13,909,410
1-Dec-19	36	25	1.068	27	1.303	\$ 813,460	\$ 1,060,044	2	\$ 626,708	\$ 27,754,523
1-Dec-20	24	18	1.236	22	1.463	\$ 291,611	\$ 426,644	4	\$ 625,133	\$ 10,180,133
1-Dec-21	12	18	1.652	30	1.861	\$ 138,889	\$ 258,540	12	\$ 626,482	\$ 12,171,514
Total		1,546		1,565				19		\$ 649,611,062

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 @ 11/30/22
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	7,974	1.118	7,133	\$ 14,907,392	0.000	\$ -	\$ 23,647,540
1-Dec-02	Various	\$ 4,268,645	1.000	8,214	1.054	7,790	\$ 15,887,964	0.000	\$ -	\$ 4,268,645
1-Dec-03	\$ 20,000,000	\$ 8,377,500	1.000	8,460	1.054	8,024	\$ 16,532,360	0.000	\$ -	\$ 8,377,500
1-Dec-04	\$ 20,000,000	\$ 33,606,850	1.000	8,714	1.054	8,265	\$ 16,794,858	0.000	\$ -	\$ 33,606,850
1-Dec-05	\$ 20,000,000	\$ 23,325,000	1.000	8,975	1.054	8,513	\$ 16,692,606	0.000	\$ -	\$ 23,325,000
1-Dec-06	\$ 20,000,000	\$ 4,850,000	1.000	9,245	1.054	8,768	\$ 16,040,677	0.000	\$ -	\$ 4,850,000
1-Dec-07	\$ 20,000,000	\$ 7,002,000	1.001	9,522	1.054	9,031	\$ 16,833,141	0.001	\$ 16,816	\$ 7,018,816
1-Dec-08	\$ 20,000,000	\$ 8,905,000	1.004	9,808	1.054	9,302	\$ 18,132,797	0.004	\$ 72,296	\$ 8,977,296
1-Dec-09	Various	\$ 9,092,500	1.009	10,102	0.998	10,120	\$ 18,283,303	0.009	\$ 163,495	\$ 9,255,995
1-Dec-10	\$ 40,000,000	\$ 10,815,000	1.019	10,405	0.998	10,424	\$ 18,907,980	0.019	\$ 354,615	\$ 11,169,615
1-Dec-11	\$ 40,000,000	\$ 39,868,999	1.029	10,717	0.998	10,737	\$ 19,475,220	0.028	\$ 554,461	\$ 40,423,460
1-Dec-12	Various	\$ 60,340,000	1.040	11,039	1.007	10,964	\$ 20,172,044	0.038	\$ 768,337	\$ 61,108,337
1-Dec-13	\$ 30,000,000	\$ 2,275,000	1.050	11,370	1.007	11,293	\$ 20,777,205	0.048	\$ 989,266	\$ 3,264,266
1-Dec-14	Various	\$ 25,890,000	1.060	11,711	1.024	11,442	\$ 19,767,435	0.057	\$ 1,127,587	\$ 27,017,587
1-Dec-15	\$ 25,000,000	\$ 11,017,500	1.071	12,062	1.024	11,785	\$ 21,059,670	0.066	\$ 1,397,917	\$ 12,415,417
1-Dec-16	\$ 25,000,000	\$ 8,080,000	1.093	12,424	1.024	12,139	\$ 21,594,298	0.085	\$ 1,828,716	\$ 9,908,716
1-Dec-17	\$ 25,000,000	\$ 33,435,000	1.125	12,797	1.024	12,503	\$ 22,181,234	0.111	\$ 2,469,765	\$ 35,904,765
1-Dec-18	\$ 25,000,000	\$ 11,295,000	1.210	13,181	1.024	12,878	\$ 21,095,551	0.173	\$ 3,656,787	\$ 14,951,787
1-Dec-19	Various	\$ 20,336,500	1.391	13,576	1.000	13,576	\$ 21,264,231	0.281	\$ 5,978,836	\$ 26,315,336
1-Dec-20	\$ 35,000,000	\$ 5,249,000	1.808	13,983	1.000	13,983	\$ 23,792,143	0.447	\$ 10,636,345	\$ 15,885,345
1-Dec-21	\$ 35,000,000	\$ 2,500,000	3.074	14,402.82	1.000	14,402.82	\$ 24,678,122	0.675	\$ 16,651,241	\$ 19,151,241
Total		\$ 354,177,034					\$ 404,870,231		\$ 46,666,480	\$ 400,843,515

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 @ 11/30/22
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	7,974	1.118	7,133	\$ 14,907,392	0.000	\$ -	\$ 23,647,540
1-Dec-02	Various	\$ 4,268,645	1.000	8,214	1.054	7,790	\$ 15,887,964	0.000	\$ -	\$ 4,268,645
1-Dec-03	\$ 20,000,000	\$ 8,377,500	1.000	8,460	1.054	8,024	\$ 16,532,360	0.000	\$ -	\$ 8,377,500
1-Dec-04	\$ 20,000,000	\$ 33,606,850	1.000	8,714	1.054	8,265	\$ 16,794,858	0.000	\$ -	\$ 33,606,850
1-Dec-05	\$ 20,000,000	\$ 23,325,000	1.000	8,975	1.054	8,513	\$ 16,692,606	0.000	\$ -	\$ 23,325,000
1-Dec-06	\$ 20,000,000	\$ 4,750,000	1.000	9,245	1.054	8,768	\$ 16,040,677	0.000	\$ -	\$ 4,750,000
1-Dec-07	\$ 20,000,000	\$ 7,002,000	1.002	9,522	1.054	9,031	\$ 16,833,141	0.002	\$ 33,599	\$ 7,035,599
1-Dec-08	\$ 20,000,000	\$ 7,905,000	1.006	9,808	1.054	9,302	\$ 18,132,797	0.006	\$ 108,291	\$ 8,013,291
1-Dec-09	Various	\$ 9,092,500	1.012	10,102	0.998	10,120	\$ 18,283,303	0.012	\$ 217,584	\$ 9,310,084
1-Dec-10	\$ 40,000,000	\$ 10,715,000	1.024	10,405	0.998	10,424	\$ 18,907,980	0.024	\$ 446,556	\$ 11,161,556
1-Dec-11	\$ 40,000,000	\$ 36,018,999	1.043	10,717	0.998	10,737	\$ 19,475,220	0.041	\$ 796,175	\$ 36,815,174
1-Dec-12	Various	\$ 60,140,000	1.074	11,039	1.007	10,964	\$ 20,172,044	0.069	\$ 1,388,178	\$ 61,528,178
1-Dec-13	\$ 30,000,000	\$ 1,625,000	1.114	11,370	1.007	11,293	\$ 20,777,205	0.102	\$ 2,129,126	\$ 3,754,126
1-Dec-14	Various	\$ 10,890,000	1.198	11,711	1.024	11,442	\$ 19,767,435	0.165	\$ 3,263,450	\$ 14,153,450
1-Dec-15	\$ 25,000,000	\$ 5,237,500	1.437	12,062	1.024	11,785	\$ 21,059,670	0.304	\$ 6,407,268	\$ 11,644,768
1-Dec-16	\$ 25,000,000	\$ 4,430,000	1.785	12,424	1.024	12,139	\$ 21,594,298	0.440	\$ 9,494,769	\$ 13,924,769
1-Dec-17	\$ 25,000,000	\$ 30,835,000	3.556	12,797	1.024	12,503	\$ 22,181,234	0.719	\$ 15,944,038	\$ 46,779,038
1-Dec-18	\$ 25,000,000	\$ 4,895,000	9.069	13,181	1.024	12,878	\$ 21,095,551	0.890	\$ 18,769,312	\$ 23,664,312
1-Dec-19	Various	\$ 6,086,500	45.343	13,576	1.000	13,576	\$ 21,264,231	0.978	\$ 20,795,264	\$ 26,881,764
1-Dec-20	\$ 35,000,000	\$ 299,000	5220.309	13,983	1.000	13,983	\$ 23,792,143	1.000	\$ 23,787,585	\$ 24,086,585
1-Dec-21	\$ 35,000,000	\$ -	10440.618	14,402.82	1.000	14,402.82	\$ 24,678,122	1.000	\$ 24,675,758	\$ 24,675,758
Total		\$ 293,147,034					\$ 404,870,231		\$ 128,256,955	\$ 421,403,989

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 @ 11/30/22
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred CDF	(3) Paid CDF	(4) Claim CDF	(5) Trend Factors		(6) Occupied Bed Equivalents
				Loss	Exposure	
Prior	1.000	1.000	1.000	1.860	1.000	-
1-Dec-01	1.000	1.000	1.000	1.806	1.000	2,090
1-Dec-02	1.000	1.000	1.000	1.754	1.000	2,039
1-Dec-03	1.000	1.000	1.000	1.702	1.000	2,060
1-Dec-04	1.000	1.000	1.000	1.653	1.000	2,032
1-Dec-05	1.000	1.000	1.000	1.605	1.000	1,961
1-Dec-06	1.000	1.000	1.000	1.558	1.000	1,829
1-Dec-07	1.001	1.002	1.000	1.513	1.000	1,864
1-Dec-08	1.004	1.006	1.000	1.469	1.000	1,949
1-Dec-09	1.009	1.012	1.000	1.426	1.000	1,807
1-Dec-10	1.019	1.024	1.000	1.384	1.000	1,814
1-Dec-11	1.029	1.043	1.000	1.344	1.000	1,814
1-Dec-12	1.040	1.074	1.000	1.305	1.000	1,840
1-Dec-13	1.050	1.114	1.000	1.267	1.000	1,840
1-Dec-14	1.060	1.198	1.000	1.230	1.000	1,728
1-Dec-15	1.071	1.437	1.000	1.194	1.000	1,787
1-Dec-16	1.093	1.785	1.000	1.159	1.000	1,779
1-Dec-17	1.125	3.556	1.010	1.126	1.000	1,774
1-Dec-18	1.210	9.069	1.025	1.093	1.000	1,638
1-Dec-19	1.391	45.343	1.068	1.061	1.000	1,566
1-Dec-20	1.808	5220.309	1.236	1.030	1.000	1,701
1-Dec-21	3.074	10440.618	1.652	1.000	1.000	1,713

Methods Included in Analysis : **Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity**
 Source Used for LDFs : **Company Exclusively**

LDF Annual Decay Rate (Incurred/P **0.75** **0.75**
 ELR for B/F Method : **14,835**
 Generalized Cape Cod Decay Factor **0.75**
 Loss Limitation : **Exhibit 10, Column (5)**
 Discount Rates : **4.13%**

Column (2) : Company Exclusively **Column (5) : Flat 3.00%**
Column (3) : Company Exclusively **Column (6) : Flat 0.00%**
Column (4) : Company Exclusively **Column (7) : supplied by Cook County, Illinois**



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

**Medical Malpractice - John H. Stroger, Jr. Hospital Experience @ 11/30/22
Limited Loss Calculations**

(1) Policy Period Inception	(2)		(3)	(4)	(5)	(6)				(7)	(8)	(9)	(10)		(11)	(12)
	Unlimited		Case O/S	Retention	Claims valued over the Retention				Incurred	No.	Paid	Limited		Case O/S		
	Incurred	Paid			No.	Incurred	No.	Incurred				Paid				
Prior	\$ 259,882,357	\$ 259,882,357	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 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	\$ 8,905,000	\$ 7,905,000	\$ 1,000,000	\$ 20,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 8,905,000	\$ 7,905,000	\$ 1,000,000		
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	\$ 39,868,999	\$ 36,018,999	\$ 3,850,000	\$ 40,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 39,868,999	\$ 36,018,999	\$ 3,850,000		
1-Dec-12	\$ 60,340,000	\$ 60,140,000	\$ 200,000	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 60,340,000	\$ 60,140,000	\$ 200,000		
1-Dec-13	\$ 2,275,000	\$ 1,625,000	\$ 650,000	\$ 30,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 2,275,000	\$ 1,625,000	\$ 650,000		
1-Dec-14	\$ 25,890,000	\$ 10,890,000	\$ 15,000,000	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 25,890,000	\$ 10,890,000	\$ 15,000,000		
1-Dec-15	\$ 11,017,500	\$ 5,237,500	\$ 5,780,000	\$ 25,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 11,017,500	\$ 5,237,500	\$ 5,780,000		
1-Dec-16	\$ 8,080,000	\$ 4,430,000	\$ 3,650,000	\$ 25,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 8,080,000	\$ 4,430,000	\$ 3,650,000		
1-Dec-17	\$ 33,435,000	\$ 30,835,000	\$ 2,600,000	\$ 25,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 33,435,000	\$ 30,835,000	\$ 2,600,000		
1-Dec-18	\$ 11,295,000	\$ 4,895,000	\$ 6,400,000	\$ 25,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 11,295,000	\$ 4,895,000	\$ 6,400,000		
1-Dec-19	\$ 20,336,500	\$ 6,086,500	\$ 14,250,000	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 20,336,500	\$ 6,086,500	\$ 14,250,000		
1-Dec-20	\$ 5,249,000	\$ 299,000	\$ 4,950,000	\$ 35,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 5,249,000	\$ 299,000	\$ 4,950,000		
1-Dec-21	\$ 2,500,000	\$ -	\$ 2,500,000	\$ 35,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 2,500,000	\$ -	\$ 2,500,000		
	\$ 614,059,391	\$ 553,029,391	\$ 61,030,000			\$ -		\$ -		\$ -		\$ 614,059,391	\$ 553,029,391	\$ 61,030,000		

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 @ 11/30/22
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	41	1.000	41	1.000	41	2.37317%		41	41	2.37317%
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	1.010	40	1.000	40	2.27720%		40	40	2.27720%
1-Dec-18	1,638	39	1.025	40	1.000	40	2.44064%		40	40	2.44064%
1-Dec-19	1,566	25	1.068	27	1.000	27	1.70392%		27	27	1.70392%
1-Dec-20	1,701	18	1.236	22	1.000	22	1.30769%		22	22	1.30769%
1-Dec-21	1,713	18	1.652	30	1.000	30	1.73505%		30	30	1.73505%
Total	38,627	1,092		1,099		1,099	2.84599%		1,099	1,099	2.84599%

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 39
 Column (10) : Selected Trended Ultimate Claims
 Column (11) : Column (10) / Column (6)
 Column (12) : Column (10) / Column (2)

Selected Bornhuetter-Ferguson Claim Count for Policy Period 1-Dec-21					
<u>Weighted Averages excluding Policy Period 1-Dec-21</u>					
Last 5 Policies	8,393			159	1.89491%
Last 3 Policies	4,981			79	1.57928%
Last 2 Policies	3,415			52	1.52212%
Last 20 Policies	36,913			1,099	2.97810%
Selected Bornhuetter-Ferguson Frequency Rate					2.25011%
Occupied Bed Equivalents for 1-Dec-21					1,713
Apriori Expected Count for 1-Dec-21					39

Cook County, Illinois
Medical Malpractice - John H. Stroger, Jr. Hospital
Medical Malpractice - John H. Stroger, Jr. Hospital Experience @ 11/30/22
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	1.860	1.118	49,182,521	2,090	1.000	2,090	23,532
1-Dec-02	4,268,645	4,268,645	1.806	1.054	8,128,789	2,039	1.000	2,039	3,987
1-Dec-03	8,377,500	8,377,500	1.754	1.054	15,488,631	2,060	1.000	2,060	7,519
1-Dec-04	33,606,850	33,606,850	1.702	1.054	60,323,869	2,032	1.000	2,032	29,687
1-Dec-05	23,325,000	23,325,000	1.653	1.054	40,648,620	1,961	1.000	1,961	20,729
1-Dec-06	4,850,000	4,860,000	1.605	1.054	8,222,866	1,829	1.000	1,829	4,496
1-Dec-07	7,002,000	7,002,000	1.558	1.054	11,501,959	1,864	1.000	1,864	6,171
1-Dec-08	8,905,000	9,020,000	1.513	1.054	14,385,303	1,949	1.000	1,949	7,381
1-Dec-09	9,092,500	9,092,500	1.469	0.998	13,328,289	1,807	1.000	1,807	7,376
1-Dec-10	10,815,000	11,000,000	1.426	0.998	15,654,765	1,814	1.000	1,814	8,630
1-Dec-11	39,868,999	40,700,000	1.384	0.998	56,235,563	1,814	1.000	1,814	31,001
1-Dec-12	60,340,000	60,500,000	1.344	1.007	81,861,940	1,840	1.000	1,840	44,490
1-Dec-13	2,275,000	2,500,000	1.305	1.007	3,284,199	1,840	1.000	1,840	1,785
1-Dec-14	25,890,000	27,700,000	1.267	1.024	35,914,519	1,728	1.000	1,728	20,784
1-Dec-15	11,017,500	12,630,000	1.230	1.024	15,898,510	1,787	1.000	1,787	8,897
1-Dec-16	8,080,000	9,900,000	1.194	1.024	12,099,043	1,779	1.000	1,779	6,801
1-Dec-17	33,435,000	36,000,000	1.159	1.024	42,715,069	1,774	1.000	1,774	24,078
1-Dec-18	11,295,000	16,800,000	1.126	1.024	19,353,106	1,638	1.000	1,638	11,815
1-Dec-19	20,336,500	28,600,000	1.093	1.000	31,251,992	1,566	1.000	1,566	19,957
1-Dec-20	5,249,000	17,600,000	1.061	1.000	18,671,840	1,701	1.000	1,701	10,977
1-Dec-21	2,500,000	22,000,000	1.030	1.000	22,660,000	1,713	1.000	1,713	13,228
All Year Weighted Average					576,811,393			38,625	14,934
Latest 5-Year Weighted Average					134,652,007			8,392	16,045
Latest 3-Year Weighted Average					72,583,832			4,980	14,575
SELECTED - Based on Shaded PY					394,816,097			26,614	14,835

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)						
Policy Period Inception	(11)	(12)	(13)	(14)	(15)	
	Retention	Occupied Bed Equivalents	Claim Count	Loss Rate	Loss Amount	
1-Dec-22	35,000,000	1,713	38	14,835	25,400,000	
1-Dec-23	35,000,000	1,713	38	15,428	26,400,000	
1-Dec-24	35,000,000	1,713	38	16,045	27,500,000	

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



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

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	243	85,068	0	44,790	475	475	1,713

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

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

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



**Cook County, Illinois
 Medical Malpractice - John H. Stroger, Jr. Hospital
 Projected Losses Paid 12/1/2022 to 11/30/2023**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/22	Percent Losses Paid	Months of Development 11/30/23	Percent Losses Paid	Estimated Outstanding Losses 11/30/22	Projected Losses Paid	Estimated Outstanding Losses 11/30/23	Discount Factor	Discounted Outstanding Losses 11/30/23
Prior	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	192	100.0%	204	100.0%	\$ 110,000	\$ -	\$ 110,000	1.000	\$ 110,000
1-Dec-07	180	99.8%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	168	99.4%	180	99.8%	\$ 1,115,000	\$ 742,344	\$ 372,656	0.980	\$ 365,192
1-Dec-09	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.967	\$ -
1-Dec-10	144	97.6%	156	98.8%	\$ 285,000	\$ 141,389	\$ 143,611	0.954	\$ 137,034
1-Dec-11	132	95.9%	144	97.6%	\$ 4,681,001	\$ 1,976,775	\$ 2,704,226	0.948	\$ 2,563,376
1-Dec-12	120	93.1%	132	95.9%	\$ 360,000	\$ 146,138	\$ 213,862	0.940	\$ 200,973
1-Dec-13	108	89.8%	120	93.1%	\$ 875,000	\$ 287,390	\$ 587,610	0.934	\$ 548,783
1-Dec-14	96	83.5%	108	89.8%	\$ 16,810,000	\$ 6,375,890	\$ 10,434,110	0.924	\$ 9,642,909
1-Dec-15	84	69.6%	96	83.5%	\$ 7,392,500	\$ 3,381,094	\$ 4,011,406	0.923	\$ 3,700,856
1-Dec-16	72	56.0%	84	69.6%	\$ 5,470,000	\$ 1,685,022	\$ 3,784,978	0.929	\$ 3,516,145
1-Dec-17	60	28.1%	72	56.0%	\$ 5,165,000	\$ 2,005,612	\$ 3,159,388	0.919	\$ 2,904,070
1-Dec-18	48	11.0%	60	28.1%	\$ 11,905,000	\$ 2,287,005	\$ 9,617,995	0.920	\$ 8,853,258
1-Dec-19	36	2.2%	48	11.0%	\$ 22,513,500	\$ 2,030,868	\$ 20,482,632	0.902	\$ 18,483,942
1-Dec-20	24	0.0%	36	2.2%	\$ 17,301,000	\$ 378,320	\$ 16,922,680	0.877	\$ 14,838,694
1-Dec-21	12	0.0%	24	0.0%	\$ 22,000,000	\$ 2,107	\$ 21,997,893	0.845	\$ 18,590,202
1-Dec-22	0	0.0%	12	0.0%	\$ 25,400,000	\$ 2,433	\$ 25,397,567	0.812	\$ 20,612,369
Total					\$ 141,383,001	\$ 21,442,387	\$ 119,940,614		\$ 105,067,803

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 4.13% Interest Rate
 Column (10): Column (8) x Column (9)



**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%	\$ 372,656	\$ 372,656	\$ -	1.000	\$ -
1-Dec-09	168	99.4%	180	99.8%	\$ -	\$ -	\$ -	0.980	\$ -
1-Dec-10	156	98.8%	168	99.4%	\$ 143,611	\$ 71,543	\$ 72,068	0.967	\$ 69,688
1-Dec-11	144	97.6%	156	98.8%	\$ 2,704,226	\$ 1,341,572	\$ 1,362,654	0.954	\$ 1,300,249
1-Dec-12	132	95.9%	144	97.6%	\$ 213,862	\$ 90,313	\$ 123,549	0.948	\$ 117,114
1-Dec-13	120	93.1%	132	95.9%	\$ 587,610	\$ 238,534	\$ 349,076	0.940	\$ 328,038
1-Dec-14	108	89.8%	120	93.1%	\$ 10,434,110	\$ 3,427,041	\$ 7,007,069	0.934	\$ 6,544,068
1-Dec-15	96	83.5%	108	89.8%	\$ 4,011,406	\$ 1,521,492	\$ 2,489,914	0.924	\$ 2,301,108
1-Dec-16	84	69.6%	96	83.5%	\$ 3,784,978	\$ 1,731,128	\$ 2,053,850	0.923	\$ 1,894,847
1-Dec-17	72	56.0%	84	69.6%	\$ 3,159,388	\$ 973,243	\$ 2,186,145	0.929	\$ 2,030,871
1-Dec-18	60	28.1%	72	56.0%	\$ 9,617,995	\$ 3,734,746	\$ 5,883,249	0.919	\$ 5,407,809
1-Dec-19	48	11.0%	60	28.1%	\$ 20,482,632	\$ 3,934,807	\$ 16,547,825	0.920	\$ 15,232,090
1-Dec-20	36	2.2%	48	11.0%	\$ 16,922,680	\$ 1,526,539	\$ 15,396,141	0.902	\$ 13,893,790
1-Dec-21	24	0.0%	36	2.2%	\$ 21,997,893	\$ 481,027	\$ 21,516,866	0.877	\$ 18,867,118
1-Dec-22	12	0.0%	24	0.0%	\$ 25,397,567	\$ 2,433	\$ 25,395,134	0.845	\$ 21,461,177
1-Dec-23	0	0.0%	12	0.0%	\$ 26,400,000	\$ 2,529	\$ 26,397,471	0.812	\$ 21,423,880
Total					\$ 146,340,614	\$ 19,449,603	\$ 126,891,011		\$ 110,981,846

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 4.13% 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%	\$ 72,068	\$ 47,981	\$ 24,087	0.980	\$ 23,604
1-Dec-11	156	98.8%	168	99.4%	\$ 1,362,654	\$ 678,835	\$ 683,819	0.967	\$ 661,238
1-Dec-12	144	97.6%	156	98.8%	\$ 123,549	\$ 61,293	\$ 62,256	0.954	\$ 59,405
1-Dec-13	132	95.9%	144	97.6%	\$ 349,076	\$ 147,414	\$ 201,662	0.948	\$ 191,158
1-Dec-14	120	93.1%	132	95.9%	\$ 7,007,069	\$ 2,844,444	\$ 4,162,625	0.940	\$ 3,911,750
1-Dec-15	108	89.8%	120	93.1%	\$ 2,489,914	\$ 817,802	\$ 1,672,112	0.934	\$ 1,561,625
1-Dec-16	96	83.5%	108	89.8%	\$ 2,053,850	\$ 779,008	\$ 1,274,842	0.924	\$ 1,178,173
1-Dec-17	84	69.6%	96	83.5%	\$ 2,186,145	\$ 872,080	\$ 1,314,065	0.923	\$ 1,212,335
1-Dec-18	72	56.0%	84	69.6%	\$ 5,883,249	\$ 1,812,322	\$ 4,070,927	0.929	\$ 3,781,784
1-Dec-19	60	28.1%	72	56.0%	\$ 16,547,825	\$ 6,425,656	\$ 10,122,169	0.919	\$ 9,304,172
1-Dec-20	48	11.0%	60	28.1%	\$ 15,396,141	\$ 2,957,669	\$ 12,438,472	0.920	\$ 11,449,476
1-Dec-21	36	2.2%	48	11.0%	\$ 21,516,866	\$ 1,940,965	\$ 19,575,901	0.902	\$ 17,665,689
1-Dec-22	24	0.0%	36	2.2%	\$ 25,395,134	\$ 555,314	\$ 24,839,821	0.877	\$ 21,780,859
1-Dec-23	12	0.0%	24	0.0%	\$ 26,397,471	\$ 2,529	\$ 26,394,943	0.845	\$ 22,306,106
1-Dec-24	0	0.0%	12	0.0%	\$ 27,500,000	\$ 2,634	\$ 27,497,366	0.812	\$ 22,316,541
Total					\$ 154,391,011	\$ 19,945,946	\$ 134,445,066		\$ 117,513,914

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 4.13% 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)
Policy Period	Loss Date	Incurred Loss	Paid Loss	Case Reserves
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	-
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	-

**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
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	-
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	-
12/1/2008	10/10/2009	1,000,000	-	1,000,000
12/1/2009	6/16/2010	1,337,500	1,337,500	-
12/1/2009	6/21/2010	2,250,000	2,250,000	-
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	6/1/2012	1,000,000	-	1,000,000
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	-

**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
12/1/2012	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	15,000,000	-	15,000,000
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	-
12/1/2015	5/2/2016	2,500,000	-	2,500,000
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
12/1/2016	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	1,000,000	-	1,000,000
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	1,000,000	-	1,000,000
12/1/2018	5/27/2019	4,750,000	4,750,000	-
12/1/2018	6/8/2019	3,000,000	-	3,000,000
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	7,000,000	-	7,000,000
12/1/2019	3/1/2020	3,000,000	-	3,000,000
12/1/2019	3/7/2020	1,500,000	-	1,500,000
12/1/2019	6/22/2020	3,900,000	3,900,000	-
12/1/2020	4/3/2021	1,250,000	-	1,250,000
12/1/2020	4/20/2021	3,500,000	-	3,500,000
12/1/2021	12/10/2021	2,500,000	-	2,500,000

Cook County, Illinois
 Medical Malpractice (Cermak, Provident, Stroger)
 Occurrence
 Indemnity and Expense
 Incurred Development Triangle
 Data Limited to Retentions (000s)
 As of 11/30/2022

		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	
Prior																		285,259	285,259	285,259	285,259	285,259	
12/1/2001	33,740	25,655	29,808	24,761	25,134	31,305	25,861	26,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	24,848	24,848	24,848	24,848	24,848	
12/1/2002	26,711	16,022	5,770	8,413	8,248	6,788	5,688	5,336	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,313	5,313	5,313	5,313	5,313	5,313	5,313	
12/1/2003	28,331	39,505	26,840	38,771	29,756	28,646	20,246	20,146	19,646	19,646	19,646	19,646	19,646	19,646	19,196	19,196	19,196	19,196	19,196	19,196	19,196	19,196	
12/1/2004	9,450	27,041	20,842	24,110	21,345	19,465	18,715	19,715	19,715	19,715	19,715	19,715	19,715	29,698	39,698	33,698	33,698	33,698	33,698	33,698	33,698	33,698	
12/1/2005	14,276	35,957	22,631	24,828	17,228	16,758	13,858	15,803	25,603	25,603	24,028	24,250	25,000	24,750	24,750	24,750	24,750	24,750	24,750	24,750	24,750	24,750	
12/1/2006	11,046	13,126	8,721	5,787	4,726	5,646	5,496	4,766	4,766	4,766	4,766	4,766	4,766	4,853	4,853	4,853	4,853	4,853	4,853	4,853	4,853	4,853	
12/1/2007	24,827	12,544	17,152	18,477	12,927	12,227	10,927	8,427	8,427	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	
12/1/2008	5,235	6,890	9,775	10,255	9,555	10,005	8,255	8,405	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	
12/1/2009	5,095	8,253	15,550	16,388	13,503	12,388	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	
12/1/2010	770	3,900	8,530	11,105	11,183	10,673	9,968	10,718	10,718	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818	
12/1/2011	23,923	34,253	39,927	39,455	39,045	37,644	38,344	38,044	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	
12/1/2012	6,925	12,000	29,150	39,255	61,465	66,155	70,215	63,015	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	
12/1/2013	1,560	7,155	6,400	5,575	3,125	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	
12/1/2014	7,000	8,225	8,630	16,108	38,101	29,431	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	
12/1/2015	5,190	8,620	11,315	12,990	13,930	16,793	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	
12/1/2016	450	2,376	9,851	28,000	8,950	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	
12/1/2017	1,450	3,955	16,980	35,730	33,435																		
12/1/2018	50	5,155	10,595	11,345																			
12/1/2019	0	11,152	20,437																				
12/1/2020	0	5,249																					
12/1/2021	2,500																						

		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-Ult	
Prior																							
12/1/2001	0.760	1.162	0.831	1.015	1.246	0.826	1.008	0.962	1.000	1.000	1.000	1.000	1.000	1.000	0.992	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2002	0.600	0.360	1.458	0.980	0.823	0.838	0.938	0.996	1.000	1.000	1.000	1.000	1.000	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2003	1.394	0.679	1.445	0.767	0.963	0.707	0.995	0.975	1.000	1.000	1.000	1.000	0.977	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2004	2.861	0.771	1.157	0.885	0.912	0.961	1.053	1.000	1.000	1.000	1.000	1.506	1.337	0.849	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2005	2.519	0.629	1.097	0.894	0.973	0.827	1.126	1.641	1.000	0.938	1.009	1.031	0.990	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2006	1.188	0.664	0.664	0.817	1.195	0.973	0.867	1.000	1.000	1.018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2007	0.505	1.367	1.077	0.700	0.946	0.894	0.771	1.000	0.985	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2008	1.316	1.419	1.049	0.932	1.047	0.825	1.018	0.976	1.000	1.000	1.061	1.057	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2009	1.620	1.884	1.053	0.825	0.917	0.904	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2010	5.065	2.187	1.302	1.007	0.954	0.934	1.075	1.000	1.009	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2011	1.432	1.166	0.988	0.990	0.964	1.019	0.992	1.147	1.000	0.955	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	1.733	2.429	1.347	1.566	1.076	1.061	0.897	0.976	1.000	1.000	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	4.587	0.894	0.871	0.561	0.864	1.000	1.000	1.000	1.000	1.000	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	1.175	1.049	1.867	2.365	0.772	1.085	1.000	1.000	1.000	1.000	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	1.661	1.313	1.148	1.072	1.205	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	
12/1/2016	5.279	4.147	2.942	0.320	1.009	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2017	2.728	4.293	2.104	0.936	1.000	1.000	1.000	1.000	1.000	1.000	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	103.100	2.055	1.071																				
12/1/2019		1.833																					
12/1/2020																							
12/1/2021																							

		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-Ult
All Year Average	7.751	1.595	1.298	0.967	0.992	0.924	0.982	1.052	1.000	0.992	1.007	1.066	1.038	0.978	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3 Yr Average	37.035	2.727	2.006	0.776	0.996	1.030	0.966	1.041	1.003	0.985	1.020	1.019	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Yr Average	22.788	2.728	1.806	1.051	0.985	1.024	0.993	1.025	1.002	0.991	1.012	1.018	1.055	0.970	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3 Yr Wtd Average	431.110	2.370	2.006	0.734	0.906	1.053	0.931	1.040	1.001	0.970	1.017	1.018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Yr Wtd Average	14.301	2.213	1.816	0.991	0.988	1.048	0.956	1.033	1.001	0.976	1.012	1.022	1.127	0.938	1.000	1.000	4.435	NA	NA	NA	NA	NA
Avg X Hi-Lo (3yr X 2)	5.279	2.055	2.104	0.936	1.009	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
Avg X Hi-Lo (5yr X 2)	3.222	2.678	1.706	0.896	0.983																	

Cook County, Illinois
 Medical Malpractice (Cermak, Provident, Stroger)
 Occurrence
 Indemnity and Expense
 Reported Claim Count Triangle
 Data Limited to Retentions
 As of 11/30/2022

		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	
Prior																							
12/1/2001															118	118	118	118	118	520	520	520	520
12/1/2002														111	111	111	111	111	111	111	111	111	118
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	
12/1/2005											100	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	51	
12/1/2008									46	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	51	
12/1/2010									59	59	60	60	60	60	60	60	60	60	60	60	60	60	
12/1/2011									56	57	57	59	59	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	65	
12/1/2013									41	42	42	42	42	42	42	42	42	42	42	42	42	42	
12/1/2014									43	45	47	47	47	47	47	47	47	47	47	47	47	47	
12/1/2015									35	46	53	56	57	58	58	58	58	58	58	58	58	58	
12/1/2016									12	19	25	26	24	24	24	24	24	24	24	24	24	24	
12/1/2017									28	34	39	42	42	42	42	42	42	42	42	42	42	42	
12/1/2018									29	38	44	45	45	45	45	45	45	45	45	45	45	45	
12/1/2019									15	22	27	27	27	27	27	27	27	27	27	27	27	27	
12/1/2020									16	18	18	18	18	18	18	18	18	18	18	18	18	18	
12/1/2021									18	18	18	18	18	18	18	18	18	18	18	18	18	18	

		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-Ult
Prior																						
12/1/2001																						
12/1/2002																						
12/1/2003																						
12/1/2004																						
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12/1/2016																						
12/1/2017																						
12/1/2018																						
12/1/2019																						
12/1/2020																						
12/1/2021																						

		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-Ult
All Year Average	1.336	1.217	1.045	1.000	1.003	1.003	1.003	1.006	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
3 Yr Average	1.301	1.177	1.047	0.980	1.006	1.000	1.000	1.012	1.000	1.000	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Yr Average	1.340	1.200	1.049	0.997	1.004	1.004	1.003	1.007	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
3 Yr Wtd Average	1.300	1.170	1.046	0.992	1.008	1.000	1.000	1.012	1.000	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Yr Wtd Average	1.310	1.182	1.049	1.005	1.004	1.004	1.004	1.007	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
Avg X Hi-Lo (3yr X 2)	1.310	1.158	1.040	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Avg X Hi-Lo (5yr X 2)	1.330	1.179	1.048	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
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
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	1.001	1.001	1.001	1.001	1.001	1.002
Initial Selected	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

		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-Ult
Inverse Power Curve Fit																						
Exponential Curve Fit																						
Weibull Curve Fit																						
Manual Entry																						
Selected Tail Method:																						
Final Link Ratio	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
Final CDF	1.652	1.236	1.068	1.025	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Industry Factor Source: AM Bests Med Mal Occ



**Cook County, Illinois
 Medical Malpractice - Oak Forest Health Center Experience @ 11/30/22
 Losses Limited to Retentions**

Policy Period	Occupied Bed Equivalents	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	-	10,000,000	14	-	3,980,000	3,980,000	-	-	-	3,980,000	-
1-Dec-01	271	Various	2	-	100,000	100,000	-	-	-	100,000	369
1-Dec-02	282	Various	3	-	1,050,000	1,050,000	-	-	-	1,050,000	3,726
1-Dec-03	315	20,000,000	6	-	20,375,000	20,375,000	-	-	-	20,375,000	64,731
1-Dec-04	321	20,000,000	7	-	1,900,000	1,900,000	-	-	-	1,900,000	5,913
1-Dec-05	312	20,000,000	11	-	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	193	Various	2	-	-	-	-	-	-	-	-
1-Dec-10	203	40,000,000	1	-	-	-	-	-	-	-	-
1-Dec-11	144	40,000,000	1	-	-	-	-	-	-	-	-
1-Dec-12	43	Various	-	-	-	-	-	-	-	-	-
1-Dec-13	43	30,000,000	-	-	-	-	-	-	-	-	-
1-Dec-14	19	Various	-	-	-	-	-	3,000	3,000	3,000	158
1-Dec-15	4	25,000,000	-	-	-	-	-	1,000	1,000	1,000	224
1-Dec-16	17	25,000,000	-	-	-	-	-	-	-	-	-
1-Dec-17	18	25,000,000	-	-	-	-	-	6,000	6,000	6,000	331
1-Dec-18	19	25,000,000	-	-	-	-	-	9,000	9,000	9,000	476
1-Dec-19	11	Various	-	-	-	-	-	8,000	8,000	8,000	756
Total	3,013		58	-	28,200,000	28,200,000	-	27,000	27,000	28,227,000	8,049



**Cook County, Illinois
Medical Malpractice - Oak Forest Health Center**

**Medical Malpractice - Oak Forest Health Center Experience @ 11/30/22
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	\$ 3,980,000	\$ 3,980,000	\$ 3,980,000	N/A	N/A	N/A	N/A	\$ 3,980,000	\$ 3,980,000
1-Dec-01	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
1-Dec-02	\$ 1,050,000	\$ 1,050,000	\$ 1,050,000	\$ 1,050,000	\$ 1,050,000	\$ 1,050,000	\$ 1,050,000	\$ 1,050,000	\$ 1,050,000
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	\$ -	\$ -	\$ -	\$ 116	\$ 232	\$ 1,393	\$ 2,793	\$ -	\$ -
1-Dec-08	\$ 175,701	\$ 176,051	\$ 175,000	\$ 175,565	\$ 175,847	\$ 180,483	\$ 183,252	\$ 175,701	\$ 175,000
1-Dec-09	\$ -	\$ -	\$ -	\$ 1,049	\$ 1,395	\$ 8,488	\$ 11,372	\$ -	\$ -
1-Dec-10	\$ -	\$ -	\$ -	\$ 2,352	\$ 2,961	\$ 16,241	\$ 20,650	\$ -	\$ -
1-Dec-11	\$ -	\$ -	\$ -	\$ 2,574	\$ 3,697	\$ 15,933	\$ 23,207	\$ -	\$ -
1-Dec-12	\$ -	\$ -	\$ -	\$ 1,034	\$ 1,868	\$ 6,020	\$ 11,111	\$ -	\$ -
1-Dec-13	\$ -	\$ -	\$ -	\$ 1,307	\$ 2,812	\$ 7,179	\$ 15,954	\$ -	\$ -
1-Dec-14	\$ -	\$ -	\$ -	\$ 691	\$ 2,001	\$ 3,636	\$ 11,042	\$ -	\$ 3,000
1-Dec-15	\$ -	\$ -	\$ -	\$ 192	\$ 879	\$ 965	\$ 4,757	\$ -	\$ 1,000
1-Dec-16	\$ -	\$ -	\$ -	\$ 968	\$ 5,025	\$ 4,565	\$ 26,482	\$ -	\$ -
1-Dec-17	\$ -	\$ -	\$ -	\$ 1,336	\$ 8,628	\$ 5,907	\$ 44,764	\$ -	\$ 6,000
1-Dec-18	\$ -	\$ -	\$ -	\$ 2,203	\$ 11,305	\$ 9,220	\$ 58,248	\$ -	\$ 9,000
1-Dec-19	\$ -	\$ -	\$ -	\$ 2,058	\$ 7,158	\$ 8,403	\$ 36,844	\$ -	\$ 8,000
Total	\$ 28,200,701	\$ 28,201,051	\$ 28,200,000	\$ 24,236,444	\$ 24,268,806	\$ 24,313,434	\$ 24,495,476	\$ 28,200,701	\$ 28,227,000

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 Health Center**

**Medical Malpractice - Oak Forest Health Center Experience @ 11/30/22
Unpaid Liabilities at Various Discount Rates
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Undiscounted	Disc Rate 4.13%
Prior	264	\$ 10,000,000	\$ 3,980,000	\$ 3,980,000	\$ 3,980,000	\$ -	\$ -	\$ -	\$ -
1-Dec-01	252	Various	\$ 100,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -
1-Dec-02	240	Various	\$ 1,050,000	\$ 1,050,000	\$ 1,050,000	\$ -	\$ -	\$ -	\$ -
1-Dec-03	228	\$ 20,000,000	\$ 20,375,000	\$ 20,375,000	\$ 20,375,000	\$ -	\$ -	\$ -	\$ -
1-Dec-04	216	\$ 20,000,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ -	\$ -	\$ -	\$ -
1-Dec-05	204	\$ 20,000,000	\$ 620,000	\$ 620,000	\$ 620,000	\$ -	\$ -	\$ -	\$ -
1-Dec-06	192	\$ 20,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-07	180	\$ 20,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-08	168	\$ 20,000,000	\$ 175,000	\$ 175,000	\$ 175,000	\$ -	\$ -	\$ -	\$ -
1-Dec-09	156	Various	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-10	144	\$ 40,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-11	132	\$ 40,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-12	120	Various	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-13	108	\$ 30,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-14	96	Various	\$ 3,000	\$ -	\$ -	\$ -	\$ 3,000	\$ 3,000	\$ 2,768
1-Dec-15	84	\$ 25,000,000	\$ 1,000	\$ -	\$ -	\$ -	\$ 1,000	\$ 1,000	\$ 929
1-Dec-16	72	\$ 25,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-17	60	\$ 25,000,000	\$ 6,000	\$ -	\$ -	\$ -	\$ 6,000	\$ 6,000	\$ 5,523
1-Dec-18	48	\$ 25,000,000	\$ 9,000	\$ -	\$ -	\$ -	\$ 9,000	\$ 9,000	\$ 8,122
1-Dec-19	36	Various	\$ 8,000	\$ -	\$ -	\$ -	\$ 8,000	\$ 8,000	\$ 7,015
Total			\$ 28,227,000	\$ 28,200,000	\$ 28,200,000	\$ -	\$ 27,000	\$ 27,000	\$ 24,356

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 (10) : Column (9) discounted



**Cook County, Illinois
Medical Malpractice - Oak Forest Health Center**

**Medical Malpractice - Oak Forest Health Center Experience @ 11/30/22
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	264	\$ 3,980,000	1.000	\$ 3,980,000	\$ 3,980,000	1.000	\$ 3,980,000	\$ -	1.000	\$ 3,980,000	\$ -	1.000	\$ 3,980,000	\$ -	1.000	\$ 3,980,000	\$ -	1.000	\$ 3,980,000	\$ -	1.000	\$ 3,980,000	\$ -	1.000	\$ 3,980,000			
1-Dec-01	252	\$ 100,000	1.000	\$ 100,000	\$ 100,000	1.000	\$ 100,000	\$ -	1.000	\$ 100,000	\$ -	1.000	\$ 100,000	\$ -	1.000	\$ 100,000	\$ -	1.000	\$ 100,000	\$ -	1.000	\$ 100,000	\$ -	1.000	\$ 100,000			
1-Dec-02	240	\$ 1,050,000	1.000	\$ 1,050,000	\$ 1,050,000	1.000	\$ 1,050,000	\$ -	1.000	\$ 1,050,000	\$ -	1.000	\$ 1,050,000	\$ -	1.000	\$ 1,050,000	\$ -	1.000	\$ 1,050,000	\$ -	1.000	\$ 1,050,000	\$ -	1.000	\$ 1,050,000			
1-Dec-03	228	\$ 20,375,000	1.000	\$ 20,375,000	\$ 20,375,000	1.000	\$ 20,375,000	\$ -	1.000	\$ 20,375,000	\$ -	1.000	\$ 20,375,000	\$ -	1.000	\$ 20,375,000	\$ -	1.000	\$ 20,375,000	\$ -	1.000	\$ 20,375,000	\$ -	1.000	\$ 20,375,000			
1-Dec-04	216	\$ 1,900,000	1.000	\$ 1,900,000	\$ 1,900,000	1.000	\$ 1,900,000	\$ -	1.000	\$ 1,900,000	\$ -	1.000	\$ 1,900,000	\$ -	1.000	\$ 1,900,000	\$ -	1.000	\$ 1,900,000	\$ -	1.000	\$ 1,900,000	\$ -	1.000	\$ 1,900,000			
1-Dec-05	204	\$ 620,000	1.000	\$ 620,000	\$ 620,000	1.000	\$ 620,000	\$ -	1.000	\$ 620,000	\$ -	1.000	\$ 620,000	\$ -	1.000	\$ 620,000	\$ -	1.000	\$ 620,000	\$ -	1.000	\$ 620,000	\$ -	1.000	\$ 620,000			
1-Dec-06	192	\$ -	1.000	\$ -	\$ -	1.000	\$ -	\$ -	1.000	\$ -	\$ -	1.000	\$ -	\$ -	1.000	\$ -	\$ -	1.000	\$ -	\$ -	1.000	\$ -	\$ -	1.000	\$ -			
1-Dec-07	180	\$ -	1.001	\$ -	\$ -	1.002	\$ -	\$ -	1.002	\$ -	\$ -	2.002	\$ -	\$ -	1.002	\$ -	\$ -	2.002	\$ -	\$ -	1.002	\$ -	\$ -	2.002	\$ -			
1-Dec-08	168	\$ 175,000	1.004	\$ 175,701	\$ 175,000	1.006	\$ 176,051	\$ -	3.009	\$ 175,000	\$ -	3.009	\$ 175,000	\$ -	3.009	\$ 175,000	\$ -	3.009	\$ 175,000	\$ -	3.009	\$ 175,000	\$ -	3.009	\$ 175,000			
1-Dec-09	156	\$ -	1.009	\$ -	\$ -	1.012	\$ -	\$ -	1.012	\$ -	\$ -	4.023	\$ -	\$ -	1.012	\$ -	\$ -	4.023	\$ -	\$ -	1.012	\$ -	\$ -	4.023	\$ -			
1-Dec-10	144	\$ -	1.019	\$ -	\$ -	1.024	\$ -	\$ -	1.024	\$ -	\$ -	4.857	\$ -	\$ -	1.024	\$ -	\$ -	4.857	\$ -	\$ -	1.024	\$ -	\$ -	4.857	\$ -			
1-Dec-11	132	\$ -	1.029	\$ -	\$ -	1.043	\$ -	\$ -	1.043	\$ -	\$ -	3.294	\$ -	\$ -	1.043	\$ -	\$ -	3.294	\$ -	\$ -	1.043	\$ -	\$ -	3.294	\$ -			
1-Dec-12	120	\$ -	1.040	\$ -	\$ -	1.074	\$ -	\$ -	1.074	\$ -	\$ -	2.240	\$ -	\$ -	1.074	\$ -	\$ -	2.240	\$ -	\$ -	1.074	\$ -	\$ -	2.240	\$ -			
1-Dec-13	108	\$ -	1.050	\$ -	\$ -	1.114	\$ -	\$ -	1.114	\$ -	\$ -	1.868	\$ -	\$ -	1.114	\$ -	\$ -	1.868	\$ -	\$ -	1.114	\$ -	\$ -	1.868	\$ -			
1-Dec-14	96	\$ -	1.060	\$ -	\$ -	1.198	\$ -	\$ -	1.198	\$ -	\$ -	1.528	\$ -	\$ -	1.198	\$ -	\$ -	1.528	\$ -	\$ -	1.198	\$ -	\$ -	1.528	\$ -			
1-Dec-15	84	\$ -	1.071	\$ -	\$ -	1.437	\$ -	\$ -	1.437	\$ -	\$ -	1.279	\$ -	\$ -	1.437	\$ -	\$ -	1.279	\$ -	\$ -	1.437	\$ -	\$ -	1.279	\$ -			
1-Dec-16	72	\$ -	1.093	\$ -	\$ -	1.785	\$ -	\$ -	1.785	\$ -	\$ -	1.239	\$ -	\$ -	1.785	\$ -	\$ -	1.239	\$ -	\$ -	1.785	\$ -	\$ -	1.239	\$ -			
1-Dec-17	60	\$ -	1.125	\$ -	\$ -	3.556	\$ -	\$ -	3.556	\$ -	\$ -	1.183	\$ -	\$ -	3.556	\$ -	\$ -	1.183	\$ -	\$ -	3.556	\$ -	\$ -	1.183	\$ -			
1-Dec-18	48	\$ -	1.210	\$ -	\$ -	9.069	\$ -	\$ -	9.069	\$ -	\$ -	1.242	\$ -	\$ -	9.069	\$ -	\$ -	1.242	\$ -	\$ -	9.069	\$ -	\$ -	1.242	\$ -			
1-Dec-19	36	\$ -	1.391	\$ -	\$ -	45.343	\$ -	\$ -	45.343	\$ -	\$ -	1.404	\$ -	\$ -	45.343	\$ -	\$ -	1.404	\$ -	\$ -	45.343	\$ -	\$ -	1.404	\$ -			
Total		\$ 28,200,000		\$ 28,200,701	\$ 28,200,000		\$ 28,201,051	\$ -		\$ 28,200,000	\$ -		\$ 28,200,000	\$ -		\$ 28,201,051	\$ -		\$ 28,200,000	\$ -		\$ 28,200,000	\$ -		\$ 28,200,000			

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 Health Center**

**Medical Malpractice - Oak Forest Health Center Experience @ 11/30/22
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	252	\$ 100,000	1.317	1.415	\$ 186,345	271	1.000	18522	\$ 2,691,322	\$ 100,000
1-Dec-02	240	\$ 1,050,000	1.292	1.185	\$ 1,607,492	282	1.000	20707	\$ 3,811,682	\$ 1,050,000
1-Dec-03	228	\$ 20,375,000	1.268	1.185	\$ 30,616,894	315	1.000	24074	\$ 5,042,810	\$ 20,375,000
1-Dec-04	216	\$ 1,900,000	1.241	1.185	\$ 2,794,630	321	1.000	18088	\$ 3,951,685	\$ 1,900,000
1-Dec-05	204	\$ 620,000	1.218	1.185	\$ 894,986	312	1.000	13653	\$ 2,954,406	\$ 620,000
1-Dec-06	192	\$ -	1.194	1.185	\$ -	283	1.000	10492	\$ 2,098,233	\$ -
1-Dec-07	180	\$ -	1.175	1.185	\$ -	234	1.001	8309	\$ 1,394,346	\$ 1,393
1-Dec-08	168	\$ 175,000	1.156	1.185	\$ 239,590	281	1.004	6708	\$ 1,375,171	\$ 180,483
1-Dec-09	156	\$ -	1.137	1.000	\$ -	193	1.009	5598	\$ 949,152	\$ 8,488
1-Dec-10	144	\$ -	1.121	1.000	\$ -	203	1.019	4776	\$ 865,939	\$ 16,241
1-Dec-11	132	\$ -	1.104	1.000	\$ -	144	1.029	4280	\$ 559,651	\$ 15,933
1-Dec-12	120	\$ -	1.089	1.000	\$ -	43	1.040	4028	\$ 158,056	\$ 6,020
1-Dec-13	108	\$ -	1.077	1.000	\$ -	43	1.050	3800	\$ 150,788	\$ 7,179
1-Dec-14	96	\$ -	1.064	1.019	\$ -	19	1.060	3637	\$ 63,745	\$ 3,636
1-Dec-15	84	\$ -	1.048	1.019	\$ -	4	1.071	3481	\$ 14,541	\$ 965
1-Dec-16	72	\$ -	1.033	1.019	\$ -	17	1.093	3262	\$ 53,903	\$ 4,565
1-Dec-17	60	\$ -	1.024	1.019	\$ -	18	1.125	3057	\$ 53,053	\$ 5,907
1-Dec-18	48	\$ -	1.011	1.019	\$ -	19	1.210	2895	\$ 53,190	\$ 9,220
1-Dec-19	36	\$ -	1.000	1.000	\$ -	11	1.391	2824	\$ 29,888	\$ 8,403
Total		\$ 24,220,000			\$ 36,339,937	3,013			\$ 26,271,561	\$ 24,313,434

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson Indices appropriate for coverage (Medical Malpractice - Oak Forest Health Center)

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 Health Center**

**Medical Malpractice - Oak Forest Health Center Experience @ 11/30/22
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	252	\$ 100,000	1.317	1.415	\$ 186,345	271	1.000	18537	\$ 2,693,510	\$ 100,000
1-Dec-02	240	\$ 1,050,000	1.292	1.185	\$ 1,607,492	282	1.000	20725	\$ 3,815,160	\$ 1,050,000
1-Dec-03	228	\$ 20,375,000	1.268	1.185	\$ 30,616,894	315	1.000	24100	\$ 5,048,319	\$ 20,375,000
1-Dec-04	216	\$ 1,900,000	1.241	1.185	\$ 2,794,630	321	1.000	18113	\$ 3,957,127	\$ 1,900,000
1-Dec-05	204	\$ 620,000	1.218	1.185	\$ 894,986	312	1.000	13677	\$ 2,959,756	\$ 620,000
1-Dec-06	192	\$ -	1.194	1.185	\$ -	283	1.000	10517	\$ 2,103,407	\$ -
1-Dec-07	180	\$ -	1.175	1.185	\$ -	234	1.002	8338	\$ 1,399,160	\$ 2,793
1-Dec-08	168	\$ 175,000	1.156	1.185	\$ 239,590	281	1.006	6741	\$ 1,381,777	\$ 183,252
1-Dec-09	156	\$ -	1.137	1.000	\$ -	193	1.012	5636	\$ 955,594	\$ 11,372
1-Dec-10	144	\$ -	1.121	1.000	\$ -	203	1.024	4822	\$ 874,346	\$ 20,650
1-Dec-11	132	\$ -	1.104	1.000	\$ -	144	1.043	4341	\$ 567,670	\$ 23,207
1-Dec-12	120	\$ -	1.089	1.000	\$ -	43	1.074	4114	\$ 161,453	\$ 11,111
1-Dec-13	108	\$ -	1.077	1.000	\$ -	43	1.114	3923	\$ 155,692	\$ 15,954
1-Dec-14	96	\$ -	1.064	1.019	\$ -	19	1.198	3816	\$ 66,882	\$ 11,042
1-Dec-15	84	\$ -	1.048	1.019	\$ -	4	1.437	3742	\$ 15,634	\$ 4,757
1-Dec-16	72	\$ -	1.033	1.019	\$ -	17	1.785	3645	\$ 60,230	\$ 26,482
1-Dec-17	60	\$ -	1.024	1.019	\$ -	18	3.556	3588	\$ 62,275	\$ 44,764
1-Dec-18	48	\$ -	1.011	1.019	\$ -	19	9.069	3563	\$ 65,468	\$ 58,248
1-Dec-19	36	\$ -	1.000	1.000	\$ -	11	45.343	3560	\$ 37,675	\$ 36,844
Total		\$ 24,220,000			\$ 36,339,937	3,013			\$ 26,381,133	\$ 24,495,476

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson Indices appropriate for coverage (Medical Malpractice - Oak Forest Health Center)

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 Health Center**

**Medical Malpractice - Oak Forest Health Center Experience @ 11/30/22
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	264	14	1.000	14	1.000	\$ 284,286	\$ 284,286	0	\$ 394,410	\$ 3,980,000
1-Dec-01	252	2	1.000	2	1.000	\$ 50,000	\$ 50,000	0	\$ 537,679	\$ 100,000
1-Dec-02	240	3	1.000	3	1.000	\$ 350,000	\$ 350,000	0	\$ 725,231	\$ 1,050,000
1-Dec-03	228	6	1.000	6	1.000	\$ 3,395,833	\$ 3,395,833	0	\$ 822,977	\$ 20,375,000
1-Dec-04	216	7	1.000	7	1.000	\$ 271,429	\$ 271,429	0	\$ 634,499	\$ 1,900,000
1-Dec-05	204	11	1.000	11	1.000	\$ 56,364	\$ 56,364	0	\$ 492,593	\$ 620,000
1-Dec-06	192	5	1.000	5	1.000	\$ -	\$ -	0	\$ 424,941	\$ -
1-Dec-07	180	4	1.000	4	1.001	\$ -	\$ -	0	\$ 378,844	\$ -
1-Dec-08	168	2	1.000	2	1.004	\$ 87,500	\$ 87,850	0	\$ 352,720	\$ 175,701
1-Dec-09	156	2	1.000	2	1.009	\$ -	\$ -	0	\$ 388,842	\$ -
1-Dec-10	144	1	1.000	1	1.019	\$ -	\$ -	0	\$ 372,569	\$ -
1-Dec-11	132	1	1.000	1	1.029	\$ -	\$ -	0	\$ 363,101	\$ -
1-Dec-12	120	0	1.000	0	1.040	\$ -	\$ -	0	\$ 367,990	\$ -
1-Dec-13	108	0	1.000	0	1.050	\$ -	\$ -	0	\$ 372,138	\$ -
1-Dec-14	96	0	1.000	0	1.060	\$ -	\$ -	0	\$ 369,706	\$ -
1-Dec-15	84	0	1.000	0	1.071	\$ -	\$ -	0	\$ 375,571	\$ -
1-Dec-16	72	0	1.000	0	1.093	\$ -	\$ -	0	\$ 380,742	\$ -
1-Dec-17	60	0	1.010	0	1.114	\$ -	\$ -	0	\$ 384,355	\$ -
1-Dec-18	48	0	1.025	0	1.180	\$ -	\$ -	0	\$ 389,339	\$ -
1-Dec-19	36	0	1.068	0	1.303	\$ -	\$ -	0	\$ 400,882	\$ -
Total		58		58				0		\$ 28,200,701

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 Health Center**

**Medical Malpractice - Oak Forest Health Center Experience @ 11/30/22
Incurred Bornhuetter/Ferguson Method
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy 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	\$ 100,000	1.000	525	1.415	371	\$ 100,482	0.000	\$ -	\$ 100,000
1-Dec-02	Various	\$ 1,050,000	1.000	535	1.185	452	\$ 127,299	0.000	\$ -	\$ 1,050,000
1-Dec-03	\$ 20,000,000	\$ 20,375,000	1.000	545	1.185	460	\$ 144,857	0.000	\$ -	\$ 20,375,000
1-Dec-04	\$ 20,000,000	\$ 1,900,000	1.000	557	1.185	470	\$ 151,081	0.000	\$ -	\$ 1,900,000
1-Dec-05	\$ 20,000,000	\$ 620,000	1.000	568	1.185	479	\$ 149,649	0.000	\$ -	\$ 620,000
1-Dec-06	\$ 20,000,000	\$ -	1.000	579	1.185	489	\$ 138,303	0.000	\$ -	\$ -
1-Dec-07	\$ 20,000,000	\$ -	1.001	589	1.185	497	\$ 116,050	0.001	\$ 116	\$ 116
1-Dec-08	\$ 20,000,000	\$ 175,000	1.004	598	1.185	505	\$ 141,762	0.004	\$ 565	\$ 175,565
1-Dec-09	Various	\$ -	1.009	608	1.000	608	\$ 117,255	0.009	\$ 1,049	\$ 1,049
1-Dec-10	\$ 40,000,000	\$ -	1.019	617	1.000	617	\$ 125,382	0.019	\$ 2,352	\$ 2,352
1-Dec-11	\$ 40,000,000	\$ -	1.029	626	1.000	626	\$ 90,422	0.028	\$ 2,574	\$ 2,574
1-Dec-12	Various	\$ -	1.040	635	1.000	635	\$ 27,138	0.038	\$ 1,034	\$ 1,034
1-Dec-13	\$ 30,000,000	\$ -	1.050	642	1.000	642	\$ 27,444	0.048	\$ 1,307	\$ 1,307
1-Dec-14	Various	\$ -	1.060	650	1.019	638	\$ 12,122	0.057	\$ 691	\$ 691
1-Dec-15	\$ 25,000,000	\$ -	1.071	660	1.019	648	\$ 2,889	0.066	\$ 192	\$ 192
1-Dec-16	\$ 25,000,000	\$ -	1.093	669	1.019	657	\$ 11,427	0.085	\$ 968	\$ 968
1-Dec-17	\$ 25,000,000	\$ -	1.125	676	1.019	663	\$ 12,003	0.111	\$ 1,336	\$ 1,336
1-Dec-18	\$ 25,000,000	\$ -	1.210	684	1.019	672	\$ 12,706	0.173	\$ 2,203	\$ 2,203
1-Dec-19	Various	\$ -	1.391	692	1.000	692	\$ 7,319	0.281	\$ 2,058	\$ 2,058
Total		\$ 24,220,000					\$ 1,515,590		\$ 16,444	\$ 24,236,444

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 Health Center**

**Medical Malpractice - Oak Forest Health Center Experience @ 11/30/22
Paid Bornhuetter/Ferguson Method
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy 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	\$ 100,000	1.000	525	1.415	371	\$ 100,482	0.000	\$ -	\$ 100,000
1-Dec-02	Various	\$ 1,050,000	1.000	535	1.185	452	\$ 127,299	0.000	\$ -	\$ 1,050,000
1-Dec-03	\$ 20,000,000	\$ 20,375,000	1.000	545	1.185	460	\$ 144,857	0.000	\$ -	\$ 20,375,000
1-Dec-04	\$ 20,000,000	\$ 1,900,000	1.000	557	1.185	470	\$ 151,081	0.000	\$ -	\$ 1,900,000
1-Dec-05	\$ 20,000,000	\$ 620,000	1.000	568	1.185	479	\$ 149,649	0.000	\$ -	\$ 620,000
1-Dec-06	\$ 20,000,000	\$ -	1.000	579	1.185	489	\$ 138,303	0.000	\$ -	\$ -
1-Dec-07	\$ 20,000,000	\$ -	1.002	589	1.185	497	\$ 116,050	0.002	\$ 232	\$ 232
1-Dec-08	\$ 20,000,000	\$ 175,000	1.006	598	1.185	505	\$ 141,762	0.006	\$ 847	\$ 175,847
1-Dec-09	Various	\$ -	1.012	608	1.000	608	\$ 117,255	0.012	\$ 1,395	\$ 1,395
1-Dec-10	\$ 40,000,000	\$ -	1.024	617	1.000	617	\$ 125,382	0.024	\$ 2,961	\$ 2,961
1-Dec-11	\$ 40,000,000	\$ -	1.043	626	1.000	626	\$ 90,422	0.041	\$ 3,697	\$ 3,697
1-Dec-12	Various	\$ -	1.074	635	1.000	635	\$ 27,138	0.069	\$ 1,868	\$ 1,868
1-Dec-13	\$ 30,000,000	\$ -	1.114	642	1.000	642	\$ 27,444	0.102	\$ 2,812	\$ 2,812
1-Dec-14	Various	\$ -	1.198	650	1.019	638	\$ 12,122	0.165	\$ 2,001	\$ 2,001
1-Dec-15	\$ 25,000,000	\$ -	1.437	660	1.019	648	\$ 2,889	0.304	\$ 879	\$ 879
1-Dec-16	\$ 25,000,000	\$ -	1.785	669	1.019	657	\$ 11,427	0.440	\$ 5,025	\$ 5,025
1-Dec-17	\$ 25,000,000	\$ -	3.556	676	1.019	663	\$ 12,003	0.719	\$ 8,628	\$ 8,628
1-Dec-18	\$ 25,000,000	\$ -	9.069	684	1.019	672	\$ 12,706	0.890	\$ 11,305	\$ 11,305
1-Dec-19	Various	\$ -	45.343	692	1.000	692	\$ 7,319	0.978	\$ 7,158	\$ 7,158
Total		\$ 24,220,000					\$ 1,515,590		\$ 48,806	\$ 24,268,806

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 Health Center**

**Medical Malpractice - Oak Forest Health Center Experience @ 11/30/22
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred CDF	(3) Paid CDF	(4) Claim CDF	(5)		(6) Occupied Bed Equivalents
				Loss	Exposure	
Prior	1.000	1.000	1.000	1.334	1.000	-
1-Dec-01	1.000	1.000	1.000	1.317	1.000	271
1-Dec-02	1.000	1.000	1.000	1.292	1.000	282
1-Dec-03	1.000	1.000	1.000	1.268	1.000	315
1-Dec-04	1.000	1.000	1.000	1.241	1.000	321
1-Dec-05	1.000	1.000	1.000	1.218	1.000	312
1-Dec-06	1.000	1.000	1.000	1.194	1.000	283
1-Dec-07	1.001	1.002	1.000	1.175	1.000	234
1-Dec-08	1.004	1.006	1.000	1.156	1.000	281
1-Dec-09	1.009	1.012	1.000	1.137	1.000	193
1-Dec-10	1.019	1.024	1.000	1.121	1.000	203
1-Dec-11	1.029	1.043	1.000	1.104	1.000	144
1-Dec-12	1.040	1.074	1.000	1.089	1.000	43
1-Dec-13	1.050	1.114	1.000	1.077	1.000	43
1-Dec-14	1.060	1.198	1.000	1.064	1.000	19
1-Dec-15	1.071	1.437	1.000	1.048	1.000	4
1-Dec-16	1.093	1.785	1.000	1.033	1.000	17
1-Dec-17	1.125	3.556	1.010	1.024	1.000	18
1-Dec-18	1.210	9.069	1.025	1.011	1.000	19
1-Dec-19	1.391	45.343	1.068	1.000	1.000	11

Methods Included in Analysis : **Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity**
 Source Used for LDFs : **Company Exclusively**

LDF Annual Decay Rate (Incurred/F) **0.75** **0.75**
 ELR for B/F Method : **700**
 Generalized Cape Cod Decay Factor **0.75**
 Loss Limitation : **Exhibit 10, Column (5)**
 Discount Rates : **4.13%**

Column (2) : Company Exclusively **Column (5) : Flat 3.00%**
Column (3) : Company Exclusively **Column (6) : Flat 0.00%**
Column (4) : Company Exclusively **Column (7) : supplied by Cook County, Illinois**



**Cook County, Illinois
Medical Malpractice - Oak Forest Health Center**

**Medical Malpractice - Oak Forest Health Center Experience @ 11/30/22
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			No.	Paid	Limited			Paid	Case O/S		
	Incurred	Paid					Incurred					Incurred	Paid					
Prior	\$ 3,980,000	\$ 3,980,000	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 3,980,000	\$ 3,980,000	\$ -	-		
1-Dec-01	\$ 100,000	\$ 100,000	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 100,000	\$ 100,000	\$ -	-		
1-Dec-02	\$ 1,050,000	\$ 1,050,000	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 1,050,000	\$ 1,050,000	\$ -	-		
1-Dec-03	\$ 20,375,000	\$ 20,375,000	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 20,375,000	\$ 20,375,000	\$ -	-		
1-Dec-04	\$ 1,900,000	\$ 1,900,000	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 1,900,000	\$ 1,900,000	\$ -	-		
1-Dec-05	\$ 620,000	\$ 620,000	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 620,000	\$ 620,000	\$ -	-		
1-Dec-06	\$ -	\$ -	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-		
1-Dec-07	\$ -	\$ -	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-		
1-Dec-08	\$ 175,000	\$ 175,000	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 175,000	\$ 175,000	\$ -	-		
1-Dec-09	\$ -	\$ -	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-		
1-Dec-10	\$ -	\$ -	\$ -	\$ 40,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-		
1-Dec-11	\$ -	\$ -	\$ -	\$ 40,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-		
1-Dec-12	\$ -	\$ -	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-		
1-Dec-13	\$ -	\$ -	\$ -	\$ 30,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-		
1-Dec-14	\$ -	\$ -	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-		
1-Dec-15	\$ -	\$ -	\$ -	\$ 25,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-		
1-Dec-16	\$ -	\$ -	\$ -	\$ 25,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-		
1-Dec-17	\$ -	\$ -	\$ -	\$ 25,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-		
1-Dec-18	\$ -	\$ -	\$ -	\$ 25,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-		
1-Dec-19	\$ -	\$ -	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	\$ -	-		
	\$ 28,200,000	\$ 28,200,000	\$ -		-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 28,200,000	\$ 28,200,000	\$ -	-		

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 Health Center**

**Medical Malpractice - Oak Forest Health Center Experience @ 11/30/22
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	2	1.000	2	1.000	2	0.73865%		2	2	0.73865%
1-Dec-02	282	3	1.000	3	1.000	3	1.06452%		3	3	1.06452%
1-Dec-03	315	6	1.000	6	1.000	6	1.90619%		6	6	1.90619%
1-Dec-04	321	7	1.000	7	1.000	7	2.17839%		7	7	2.17839%
1-Dec-05	312	11	1.000	11	1.000	11	3.52137%		11	11	3.52137%
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	193	2	1.000	2	1.000	2	1.03703%		2	2	1.03703%
1-Dec-10	203	1	1.000	1	1.000	1	0.49191%		1	1	0.49191%
1-Dec-11	144	1	1.000	1	1.000	1	0.69271%		1	1	0.69271%
1-Dec-12	43	0	1.000	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-13	43	0	1.000	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-14	19	0	1.000	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-15	4	0	1.000	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-16	17	0	1.000	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-17	18	0	1.010	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-18	19	0	1.025	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-19	11	0	1.068	0	1.000	0	0.00000%		0	0	0.00000%
Total	3,013	44		44		44	1.46053%		44	44	1.46053%

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 0
 Column (10) : Selected Trended Ultimate Claims
 Column (11) : Column (10) / Column (6)
 Column (12) : Column (10) / Column (2)



Cook County, Illinois
Medical Malpractice - Oak Forest Health Center
Medical Malpractice - Oak Forest Health Center Experience @ 11/30/22
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	100,000	100,000	1.333	1.415	188,625	271	1.000	271	697
1-Dec-02	1,050,000	1,050,000	1.308	1.185	1,627,156	282	1.000	282	5,774
1-Dec-03	20,375,000	20,375,000	1.284	1.185	30,991,412	315	1.000	315	98,459
1-Dec-04	1,900,000	1,900,000	1.257	1.185	2,828,815	321	1.000	321	8,803
1-Dec-05	620,000	620,000	1.233	1.185	905,934	312	1.000	312	2,900
1-Dec-06	-	-	1.208	1.185	-	283	1.000	283	0
1-Dec-07	-	-	1.189	1.185	-	234	1.000	234	0
1-Dec-08	175,000	175,000	1.170	1.185	242,521	281	1.000	281	864
1-Dec-09	-	-	1.151	1.000	-	193	1.000	193	0
1-Dec-10	-	-	1.135	1.000	-	203	1.000	203	0
1-Dec-11	-	-	1.118	1.000	-	144	1.000	144	0
1-Dec-12	-	-	1.103	1.000	-	43	1.000	43	0
1-Dec-13	-	-	1.090	1.000	-	43	1.000	43	0
1-Dec-14	-	3,000	1.077	1.019	3,293	19	1.000	19	173
1-Dec-15	-	1,000	1.060	1.019	1,080	4	1.000	4	242
1-Dec-16	-	-	1.046	1.019	-	17	1.000	17	0
1-Dec-17	-	6,000	1.036	1.019	6,335	18	1.000	18	350
1-Dec-18	-	9,000	1.023	1.019	9,380	19	1.000	19	496
1-Dec-19	-	8,000	1.012	1.000	8,098	11	1.000	11	765
All Year Weighted Average					36,812,649			3,013	12,220
Latest 5-Year Weighted Average					24,893			69	358
Latest 3-Year Weighted Average					23,813			48	500
SELECTED									700

Column (1) : from Exhibit 10 Column (10)
 Column (2) : from Exhibit 2, Column (10)
 Column (3) : Trend Indices appropriate for Medical Malpractice - Oak Forest Health Center
 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)



COOK COUNTY, ILLINOIS
MEDICAL MALPRACTICE - OAK FOREST HEALTH CENTER

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	64,819			34	193
12/1/2010	46	33,000	64,819			34	203
12/1/2011	46	16,500	0			34	144
12/1/2012	0	0	0			23	43
12/1/2013	0	0	0			23	43
12/1/2014	0	0	0		47,516	0	19
12/1/2015	0	0	0	0	11,148	0	4
12/1/2016	0	0	0	0	43,497	0	17
12/1/2017	0	0	0	0	33,621	2	18
12/1/2018	0	0	0	0	47,296	0	19
12/1/2019	0	0	0	0	26,459	0	11

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

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

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



**Cook County, Illinois
Medical Malpractice - Oak Forest Health Center
Projected Losses Paid 12/1/2022 to 11/30/2023**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/22	Percent Losses Paid	Months of Development 11/30/23	Percent Losses Paid	Estimated Outstanding Losses 11/30/22	Projected Losses Paid	Estimated Outstanding Losses 11/30/23	Discount Factor	Discounted Outstanding Losses 11/30/23
Prior	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	180	99.8%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	168	99.4%	180	99.8%	\$ -	\$ -	\$ -	0.980	\$ -
1-Dec-09	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.967	\$ -
1-Dec-10	144	97.6%	156	98.8%	\$ -	\$ -	\$ -	0.954	\$ -
1-Dec-11	132	95.9%	144	97.6%	\$ -	\$ -	\$ -	0.948	\$ -
1-Dec-12	120	93.1%	132	95.9%	\$ -	\$ -	\$ -	0.940	\$ -
1-Dec-13	108	89.8%	120	93.1%	\$ -	\$ -	\$ -	0.934	\$ -
1-Dec-14	96	83.5%	108	89.8%	\$ 3,000	\$ 496	\$ 2,504	0.924	\$ 2,314
1-Dec-15	84	69.6%	96	83.5%	\$ 1,000	\$ 141	\$ 859	0.923	\$ 793
1-Dec-16	72	56.0%	84	69.6%	\$ -	\$ -	\$ -	0.929	\$ -
1-Dec-17	60	28.1%	72	56.0%	\$ 6,000	\$ 1,437	\$ 4,563	0.919	\$ 4,195
1-Dec-18	48	11.0%	60	28.1%	\$ 9,000	\$ 1,729	\$ 7,271	0.920	\$ 6,693
1-Dec-19	36	2.2%	48	11.0%	\$ 8,000	\$ 722	\$ 7,278	0.902	\$ 6,568
Total					\$ 27,000	\$ 4,524	\$ 22,476		\$ 20,563

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 4.13% Interest Rate
 Column (10): Column (8) x Column (9)



**Cook County, Illinois
 Medical Malpractice - Oak Forest Health Center
 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%	\$ -	\$ -	\$ -	0.980	\$ -
1-Dec-10	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.967	\$ -
1-Dec-11	144	97.6%	156	98.8%	\$ -	\$ -	\$ -	0.954	\$ -
1-Dec-12	132	95.9%	144	97.6%	\$ -	\$ -	\$ -	0.948	\$ -
1-Dec-13	120	93.1%	132	95.9%	\$ -	\$ -	\$ -	0.940	\$ -
1-Dec-14	108	89.8%	120	93.1%	\$ 2,504	\$ 501	\$ 2,003	0.934	\$ 1,871
1-Dec-15	96	83.5%	108	89.8%	\$ 859	\$ 142	\$ 717	0.924	\$ 663
1-Dec-16	84	69.6%	96	83.5%	\$ -	\$ -	\$ -	0.923	\$ -
1-Dec-17	72	56.0%	84	69.6%	\$ 4,563	\$ 986	\$ 3,577	0.929	\$ 3,323
1-Dec-18	60	28.1%	72	56.0%	\$ 7,271	\$ 2,823	\$ 4,448	0.919	\$ 4,088
1-Dec-19	48	11.0%	60	28.1%	\$ 7,278	\$ 1,398	\$ 5,880	0.920	\$ 5,413
Total					\$ 22,476	\$ 5,851	\$ 16,625		\$ 15,357

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 4.13% Interest Rate
 Column (10): Column (8) x Column (9)



**Cook County, Illinois
 Medical Malpractice - Oak Forest Health Center
 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%	\$ -	\$ -	\$ -	0.980	\$ -
1-Dec-11	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.967	\$ -
1-Dec-12	144	97.6%	156	98.8%	\$ -	\$ -	\$ -	0.954	\$ -
1-Dec-13	132	95.9%	144	97.6%	\$ -	\$ -	\$ -	0.948	\$ -
1-Dec-14	120	93.1%	132	95.9%	\$ 2,003	\$ 506	\$ 1,497	0.940	\$ 1,407
1-Dec-15	108	89.8%	120	93.1%	\$ 717	\$ 143	\$ 574	0.934	\$ 536
1-Dec-16	96	83.5%	108	89.8%	\$ -	\$ -	\$ -	0.924	\$ -
1-Dec-17	84	69.6%	96	83.5%	\$ 3,577	\$ 503	\$ 3,074	0.923	\$ 2,836
1-Dec-18	72	56.0%	84	69.6%	\$ 4,448	\$ 1,001	\$ 3,446	0.929	\$ 3,202
1-Dec-19	60	28.1%	72	56.0%	\$ 5,880	\$ 2,283	\$ 3,597	0.919	\$ 3,306
Total					\$ 16,625	\$ 4,437	\$ 12,188		\$ 11,287

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 4.13% Interest Rate
 Column (10): Column (8) x Column (9)



Cook County, Illinois
Medical Malpractice - Oak Forest Health Center
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	-

Cook County, Illinois
 Medical Malpractice (Cermak, Provident, Stroger)
 Occurrence
 Indemnity and Expense
 Incurred Development Triangle
 Data Limited to Retentions (000s)
 As of 11/30/2022

		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
Prior																		285,259	285,259	285,259	285,259	285,259
12/1/2001	33,740	25,655	29,808	24,761	25,134	31,305	25,861	26,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	24,848	24,848	24,848	24,848	24,848
12/1/2002	26,711	16,022	5,770	8,413	8,248	6,788	5,688	5,336	5,316	5,316	5,316	5,316	5,316	5,316	5,316	5,313	5,313	5,313	5,313	5,313	5,313	5,313
12/1/2003	28,331	39,505	26,840	38,771	29,756	28,646	20,246	20,146	19,646	19,646	19,646	19,646	19,646	19,646	19,196	19,196	19,196	19,196	19,196	19,196	19,196	19,196
12/1/2004	9,450	27,041	20,842	24,110	21,345	19,465	18,715	19,715	19,715	19,715	19,715	19,715	19,715	29,698	39,698	33,698	33,698	33,698	33,698	33,698	33,698	33,698
12/1/2005	14,276	35,957	22,631	24,828	17,228	16,758	13,858	15,803	25,603	25,603	24,028	24,250	25,000	24,750	24,750	24,750	24,750	24,750	24,750	24,750	24,750	24,750
12/1/2006	11,046	13,126	8,721	5,787	4,726	5,646	5,496	4,766	4,766	4,766	4,766	4,766	4,766	4,853	4,853	4,853	4,853	4,853	4,853	4,853	4,853	4,853
12/1/2007	24,827	12,544	17,152	18,477	12,927	12,227	10,927	8,427	8,427	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302	8,302
12/1/2008	5,235	6,890	9,775	10,255	9,555	10,005	8,255	8,405	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205	8,205
12/1/2009	5,095	8,253	15,550	16,388	13,503	12,388	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203
12/1/2010	770	3,900	8,530	11,105	11,183	10,673	9,968	10,718	10,718	10,718	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818
12/1/2011	23,923	34,253	39,927	39,455	39,045	37,644	38,344	38,044	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644	43,644
12/1/2012	6,925	12,000	29,150	39,255	61,465	66,155	70,215	63,015	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515	61,515
12/1/2013	1,560	7,155	6,400	5,575	3,125	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700
12/1/2014	7,000	8,225	8,630	16,108	38,101	29,431	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931	31,931
12/1/2015	5,190	8,620	11,315	12,990	13,930	16,793	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893	16,893
12/1/2016	450	2,376	9,851	28,000	8,950	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030	9,030
12/1/2017	1,450	3,955	16,980	35,730	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435	33,435
12/1/2018	50	5,155	10,595	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345
12/1/2019	0	11,152	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437
12/1/2020	0	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249	5,249
12/1/2021	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500

		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-Ult
Prior																						
12/1/2001	0.760	1.162	0.831	1.015	1.246	0.826	1.008	0.962	1.000	1.000	1.000	1.000	1.000	1.000	0.992	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12/1/2002	0.600	0.360	1.458	0.980	0.823	0.838	0.938	0.996	1.000	1.000	1.000	1.000	1.000	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12/1/2003	1.394	0.679	1.445	0.767	0.963	0.707	0.995	0.975	1.000	1.000	1.000	1.000	0.977	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12/1/2004	2.861	0.771	1.157	0.885	0.912	0.961	1.053	1.000	1.000	1.000	1.000	1.000	1.337	0.849	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12/1/2005	2.519	0.629	1.097	0.894	0.973	0.827	1.126	1.641	1.000	0.938	1.009	1.031	0.990	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12/1/2006	1.188	0.664	0.664	0.817	1.195	0.973	0.867	1.000	1.000	1.018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12/1/2007	0.505	1.367	1.077	0.700	0.946	0.894	0.771	1.000	0.985	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12/1/2008	1.316	1.419	1.049	0.932	1.047	0.825	1.018	0.976	1.000	1.000	1.061	1.057	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12/1/2009	1.620	1.884	1.053	0.825	0.917	0.904	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12/1/2010	5.065	2.187	1.302	1.007	0.954	0.934	1.075	1.000	1.009	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12/1/2011	1.432	1.166	0.988	0.990	0.964	1.019	0.992	1.147	1.000	0.955	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	1.733	2.429	1.347	1.566	1.076	1.061	0.897	0.976	1.000	1.000	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	4.587	0.894	0.871	0.561	0.864	1.000	1.000	1.000	1.000	1.000	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	1.175	1.049	1.867	2.365	0.772	1.085	1.000	1.000	1.000	1.000	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	1.661	1.313	1.148	1.072	1.205	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006
12/1/2016	5.279	4.147	2.942	0.320	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
12/1/2017	2.728	4.293	2.104	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936
12/1/2018	103,100	2,055	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071	1,071
12/1/2019	0	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833
12/1/2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

		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-Ult
All Year Average	7.751	1.595	1.298	0.967	0.992	0.924	0.982	1.052	1.000	0.992	1.007	1.066	1.038	0.978	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3 Yr Average	37.035	2.727	2.006	0.776	0.996	1.030	0.966	1.041	1.003	0.985	1.020	1.019	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Yr Average	22.788	2.728	1.806	1.051	0.985	1.024	0.993	1.025	1.002	0.991	1.012	1.018	1.055	0.970	1.000							

Cook County, Illinois
 Medical Malpractice (Cermak, Provident, Stroger)
 Occurrence
 Indemnity and Expense
 Paid Development Triangle
 Data Limited to Retentions (000s)
 As of 11/30/2022

		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	
Prior																								
12/1/2001	0	0	30	9,351	12,349	16,054	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061	25,061
12/1/2002	10	12	1,260	1,263	3,248	4,488	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888
12/1/2003	0	0	0	8,781	16,656	18,246	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496	19,496
12/1/2004	0	90	107	5,775	16,665	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715	18,715
12/1/2005	0	1	516	528	6,778	9,228	9,308	11,533	11,533	11,533	11,533	11,533	11,533	11,533	11,533	11,533	11,533	11,533	11,533	11,533	11,533	11,533	11,533	11,533
12/1/2006	0	16	16	26	2,016	2,016	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766	4,766
12/1/2007	0	127	127	3,677	6,027	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427	8,427
12/1/2008	0	0	2,445	3,155	3,155	4,405	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155	5,155
12/1/2009	0	0	0	2,318	7,653	10,438	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203	11,203
12/1/2010	0	0	0	2,850	4,878	5,168	5,468	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718	10,718
12/1/2011	0	20,100	20,825	24,300	26,195	34,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294	37,294
12/1/2012	0	850	850	2,330	5,590	20,255	35,565	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315	61,315
12/1/2013	0	0	0	825	1,675	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050	2,050
12/1/2014	0	25	30	58	3,966	9,931	16,931	16,931	16,931	16,931	16,931	16,931	16,931	16,931	16,931	16,931	16,931	16,931	16,931	16,931	16,931	16,931	16,931	16,931
12/1/2015	90	2,590	4,540	4,835	5,075	10,138	11,113	11,113	11,113	11,113	11,113	11,113	11,113	11,113	11,113	11,113	11,113	11,113	11,113	11,113	11,113	11,113	11,113	11,113
12/1/2016	0	0	900	2,400	5,150	5,330																		
12/1/2017	0	0	0	0	30,835																			
12/1/2018	0	0	4,895	4,895																				
12/1/2019	0	3,902	6,087																					
12/1/2020	0	299																						
12/1/2021	0																							

		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-Ult	
Prior																								
12/1/2001				311,700	1,321	1,300	1,561	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2002	1,150	109,565	1,002	2,572	1,382	1,089	1,020	1,066	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2003			1,897	1,095	1,069	1,008	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2004		1,189	53,971	2,886	1,123	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2005		1032,000	1,023	12,837	1,361	1,074	1,164	1,006	2,034	1,018	0,999	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2006		1,000	1,621	77,245	1,000	2,364	1,000	1,000	1,000	0,997	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2007		1,000	28,953	1,639	1,398	1,000	1,000	1,000	1,000	0,985	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2008			1,290	1,000	1,396	1,170	1,582	1,006	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2009				3,302	1,364	1,073	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2010				1,712	1,059	1,058	1,960	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2011		1,036	1,171	1,074	1,309	1,087	1,000	1,000	1,000	1,000	1,015	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2012		1,000	2,741	2,399	3,623	1,756	1,724	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2013				2,030	1,224	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
12/1/2014		1,200	1,933	68,379	2,504	1,705	1,000	1,000	1,000	1,000	1,000	1,000	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		28,778	1,753	1,065	1,050	1,998	1,096	1,000	1,000	1,000	1,000	1,000	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				2,667	2,146	1,035																		
12/1/2017				1,000																				
12/1/2018																								
12/1/2019		1,560																						
12/1/2020																								
12/1/2021																								

		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-Ult	
All Year Average		14,964	115,130	31,549	11,468	1,511	1,273	1,176	1,066	1,089	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
3 Yr Average	NA	NA	NA	23,858	1,846	1,267	1,241	1,000	1,000	1,005	1,000	1,000	1,000	1,000	1,000	1,010	1,237	1,000	1,000	1,000	NA	NA	NA	NA
5 Yr Average	NA	NA	NA	15,201	2,077	1,329	1,337	1,000	1,000	1,003	1,000	1,000	1,000	1,000	1,000	1,006	1,142	1,000	NA	NA	NA	NA	NA	NA
3 Yr Wtd Average	NA	2,815	1,259																					

Cook County, Illinois
 Medical Malpractice (Cermak, Provident, Stroger)
 Occurrence
 Indemnity and Expense
 Reported Claim Count Triangle
 Data Limited to Retentions
 As of 11/30/2022

		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	
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	118	
12/1/2003															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	51	
12/1/2008										46	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	51	
12/1/2010										59	59	60	60	60	60	60	60	60	60	60	60	60	60	
12/1/2011										56	57	57	57	59	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	65	
12/1/2013										41	42	42	42	42	42	42	42	42	42	42	42	42	42	
12/1/2014										43	45	47	47	47	47	47	47	47	47	47	47	47	47	
12/1/2015										35	46	53	56	57	58	58	58	58	58	58	58	58	58	
12/1/2016										12	19	25	26	24	24	24	24	24	24	24	24	24	24	
12/1/2017										28	34	39	42	42	42	42	42	42	42	42	42	42	42	
12/1/2018										29	38	44	45	45	45	45	45	45	45	45	45	45	45	
12/1/2019										15	22	27	27	27	27	27	27	27	27	27	27	27	27	
12/1/2020										16	18	18	18	18	18	18	18	18	18	18	18	18	18	
12/1/2021										18	18	18	18	18	18	18	18	18	18	18	18	18	18	

		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-Ult
Prior																					1,000	1,000	1,000
12/1/2001																					1,000	1,000	1,000
12/1/2002																					1,000	1,000	1,000
12/1/2003																					1,000	1,000	1,000
12/1/2004																					1,000	1,000	1,000
12/1/2005																					1,000	1,000	1,000
12/1/2006																					1,000	1,000	1,000
12/1/2007																					1,000	1,000	1,000
12/1/2008																					1,000	1,000	1,000
12/1/2009																					1,000	1,000	1,000
12/1/2010																					1,000	1,000	1,000
12/1/2011																					1,000	1,000	1,000
12/1/2012																					1,000	1,000	1,000
12/1/2013																					1,000	1,000	1,000
12/1/2014																					1,000	1,000	1,000
12/1/2015																					1,000	1,000	1,000
12/1/2016																					1,000	1,000	1,000
12/1/2017																					1,000	1,000	1,000
12/1/2018																					1,000	1,000	1,000
12/1/2019																					1,000	1,000	1,000
12/1/2020																					1,000	1,000	1,000
12/1/2021																					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-Ult
All Year Average		1.336	1.217	1.045	1.000	1.003	1.003	1.003	1.006	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
3 Yr Average		1.301	1.177	1.047	0.980	1.006	1.000	1.000	1.012	1.000	1.000	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Yr Average		1.340	1.200	1.049	0.997	1.004	1.004	1.003	1.007	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
3 Yr Wtd Average		1.300	1.170	1.046	0.992	1.008	1.000	1.000	1.012	1.000	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Yr Wtd Average		1.310	1.182	1.049	1.005	1.004	1.004	1.004	1.007	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
Avg X Hi-Lo (3yr X 2)		1.310	1.158	1.040	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Avg X Hi-Lo (5yr X 2)		1.330	1.179	1.048	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
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
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	1.001	1.001	1.001	1.001	1.001	1.002
Initial Selected		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

		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-Ult
Inverse Power Curve Fit																							1.00000
Exponential Curve Fit																							1.00000
Weibull Curve Fit																							1.00000
Manual Entry																							1.00000
Selected Tail Method:	Manual Entry																						Tail
Final Link Ratio		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
Final CDF		1.652	1.236	1.068	1.025	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Industry Factor Source: AM Bests Med Mal Occ



**Cook County, Illinois
Medical Malpractice - Provident Hospital Experience @ 11/30/22
Losses Limited to Retentions**

Policy Period	Occupied Bed Equivalents	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	-	10,000,000	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	2	50,000	-	50,000	90,000	140,000	140,000	759
1-Dec-17	167	25,000,000	2	-	-	-	-	150,000	150,000	150,000	897
1-Dec-18	172	25,000,000	4	-	-	-	-	600,000	600,000	600,000	3,487
1-Dec-19	151	Various	2	1	100,000	-	100,000	600,000	700,000	700,000	4,633
1-Dec-20	151	35,000,000	-	-	-	-	-	700,000	700,000	700,000	4,643
1-Dec-21	137	35,000,000	-	-	-	-	-	1,100,000	1,100,000	1,100,000	8,052
Total	5,297		162	3	30,875,000	30,725,000	150,000	3,240,000	3,390,000	34,115,000	3,917

Full Policy Period Projections											
1-Dec-22	137	35,000,000								1,270,000	9,286
1-Dec-23	137	35,000,000								1,320,000	9,657



**Cook County, Illinois
Medical Malpractice - Provident Hospital**

**Medical Malpractice - Provident Hospital Experience @ 11/30/22
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	\$ 13,365,000	\$ 13,365,000	\$ 13,365,000	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
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-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
1-Dec-04	\$ 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
1-Dec-06	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-07	\$ 300,300	\$ 300,600	\$ 300,000	\$ 301,888	\$ 303,773	\$ 300,878	\$ 301,785	\$ 300,300	\$ 300,000
1-Dec-08	\$ 301,201	\$ 301,802	\$ 300,000	\$ 310,032	\$ 315,027	\$ 304,343	\$ 306,657	\$ 301,201	\$ 300,000
1-Dec-09	\$ 807,218	\$ 809,635	\$ 800,000	\$ 817,107	\$ 822,767	\$ 807,515	\$ 810,323	\$ 807,218	\$ 800,000
1-Dec-10	\$ -	\$ -	\$ -	\$ 36,956	\$ 46,537	\$ 16,551	\$ 21,783	\$ -	\$ -
1-Dec-11	\$ 1,868,187	\$ 1,892,363	\$ 1,815,000	\$ 1,870,872	\$ 1,895,230	\$ 1,843,137	\$ 1,858,026	\$ 1,868,187	\$ 1,815,000
1-Dec-12	\$ 1,221,527	\$ 1,261,836	\$ 1,175,000	\$ 1,228,271	\$ 1,271,247	\$ 1,202,716	\$ 1,229,828	\$ 1,221,527	\$ 1,175,000
1-Dec-13	\$ 446,247	\$ 473,524	\$ 425,000	\$ 493,589	\$ 572,619	\$ 460,102	\$ 510,996	\$ 446,247	\$ 425,000
1-Dec-14	\$ -	\$ -	\$ -	\$ 73,434	\$ 212,533	\$ 38,123	\$ 132,736	\$ -	\$ -
1-Dec-15	\$ 3,154,384	\$ 4,232,803	\$ 2,945,000	\$ 3,035,512	\$ 3,359,854	\$ 2,996,580	\$ 3,252,263	\$ 3,154,384	\$ 2,945,000
1-Dec-16	\$ 54,626	\$ -	\$ 61,927	\$ 171,516	\$ 630,915	\$ 107,491	\$ 426,033	\$ 54,626	\$ 140,000
1-Dec-17	\$ -	\$ -	\$ -	\$ 149,104	\$ 962,569	\$ 59,443	\$ 619,445	\$ -	\$ 150,000
1-Dec-18	\$ -	\$ -	\$ -	\$ 246,084	\$ 1,263,085	\$ 84,767	\$ 795,860	\$ -	\$ 600,000
1-Dec-19	\$ 139,115	\$ -	\$ 140,353	\$ 460,984	\$ 1,255,554	\$ 212,286	\$ 787,685	\$ 130,313	\$ 700,000
1-Dec-20	\$ -	\$ -	\$ -	\$ 589,972	\$ 1,319,440	\$ 167,874	\$ 827,710	\$ -	\$ 700,000
1-Dec-21	\$ -	\$ -	\$ -	\$ 830,994	\$ 1,231,464	\$ 226,648	\$ 772,497	\$ -	\$ 1,100,000
Total	\$ 31,257,806	\$ 32,237,563	\$ 30,927,280	\$ 20,216,316	\$ 25,062,614	\$ 18,428,456	\$ 22,253,628	\$ 31,249,004	\$ 34,115,000

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 @ 11/30/22
Unpaid Liabilities at Various Discount Rates
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Undiscounted	Disc Rate 4.13%
Prior	264	\$ 10,000,000	\$ 13,365,000	\$ 13,365,000	\$ 13,365,000	\$ -	\$ -	\$ -	\$ -
1-Dec-01	252	Various	\$ 200,000	\$ 200,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -
1-Dec-02	240	Various	\$ 1,025,000	\$ 1,025,000	\$ 1,025,000	\$ -	\$ -	\$ -	\$ -
1-Dec-03	228	\$ 20,000,000	\$ 7,860,000	\$ 7,860,000	\$ 7,860,000	\$ -	\$ -	\$ -	\$ -
1-Dec-04	216	\$ 20,000,000	\$ 90,000	\$ 90,000	\$ 90,000	\$ -	\$ -	\$ -	\$ -
1-Dec-05	204	\$ 20,000,000	\$ 425,000	\$ 425,000	\$ 425,000	\$ -	\$ -	\$ -	\$ -
1-Dec-06	192	\$ 20,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-07	180	\$ 20,000,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ -	\$ -	\$ -	\$ -
1-Dec-08	168	\$ 20,000,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ -	\$ -	\$ -	\$ -
1-Dec-09	156	Various	\$ 800,000	\$ 800,000	\$ 800,000	\$ -	\$ -	\$ -	\$ -
1-Dec-10	144	\$ 40,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-11	132	\$ 40,000,000	\$ 1,815,000	\$ 1,815,000	\$ 1,815,000	\$ -	\$ -	\$ -	\$ -
1-Dec-12	120	Various	\$ 1,175,000	\$ 1,175,000	\$ 1,175,000	\$ -	\$ -	\$ -	\$ -
1-Dec-13	108	\$ 30,000,000	\$ 425,000	\$ 425,000	\$ 425,000	\$ -	\$ -	\$ -	\$ -
1-Dec-14	96	Various	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-15	84	\$ 25,000,000	\$ 2,945,000	\$ 2,945,000	\$ 2,945,000	\$ -	\$ -	\$ -	\$ -
1-Dec-16	72	\$ 25,000,000	\$ 140,000	\$ 50,000	\$ -	\$ 50,000	\$ 90,000	\$ 140,000	\$ 128,686
1-Dec-17	60	\$ 25,000,000	\$ 150,000	\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ 138,073
1-Dec-18	48	\$ 25,000,000	\$ 600,000	\$ -	\$ -	\$ -	\$ 600,000	\$ 600,000	\$ 541,452
1-Dec-19	36	Various	\$ 700,000	\$ 100,000	\$ -	\$ 100,000	\$ 600,000	\$ 700,000	\$ 613,797
1-Dec-20	24	\$ 35,000,000	\$ 700,000	\$ -	\$ -	\$ -	\$ 700,000	\$ 700,000	\$ 591,563
1-Dec-21	12	\$ 35,000,000	\$ 1,100,000	\$ -	\$ -	\$ -	\$ 1,100,000	\$ 1,100,000	\$ 892,747
Total			\$ 34,115,000	\$ 30,875,000	\$ 30,725,000	\$ 150,000	\$ 3,240,000	\$ 3,390,000	\$ 2,906,319

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 (10) : Column (9) discounted



**Cook County, Illinois
Medical Malpractice - Provident Hospital**

**Medical Malpractice - Provident Hospital Experience @ 11/30/22
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	264	\$ 13,365,000	1.000	\$ 13,365,000	\$ 13,365,000	1.000	\$ 13,365,000	\$ -	1.000	\$ 13,365,000
1-Dec-01	252	\$ 200,000	1.000	\$ 200,000	\$ 200,000	1.000	\$ 200,000	\$ -	1.000	\$ 200,000
1-Dec-02	240	\$ 1,025,000	1.000	\$ 1,025,000	\$ 1,025,000	1.000	\$ 1,025,000	\$ -	1.000	\$ 1,025,000
1-Dec-03	228	\$ 7,860,000	1.000	\$ 7,860,000	\$ 7,860,000	1.000	\$ 7,860,000	\$ -	1.000	\$ 7,860,000
1-Dec-04	216	\$ 90,000	1.000	\$ 90,000	\$ 90,000	1.000	\$ 90,000	\$ -	1.000	\$ 90,000
1-Dec-05	204	\$ 425,000	1.000	\$ 425,000	\$ 425,000	1.000	\$ 425,000	\$ -	1.000	\$ 425,000
1-Dec-06	192	\$ -	1.000	\$ -	\$ -	1.000	\$ -	\$ -	1.000	\$ -
1-Dec-07	180	\$ 300,000	1.001	\$ 300,300	\$ 300,000	1.002	\$ 300,600	\$ -	2.002	\$ 300,000
1-Dec-08	168	\$ 300,000	1.004	\$ 301,201	\$ 300,000	1.006	\$ 301,802	\$ -	3.009	\$ 300,000
1-Dec-09	156	\$ 800,000	1.009	\$ 807,218	\$ 800,000	1.012	\$ 809,635	\$ -	4.023	\$ 800,000
1-Dec-10	144	\$ -	1.019	\$ -	\$ -	1.024	\$ -	\$ -	4.857	\$ -
1-Dec-11	132	\$ 1,815,000	1.029	\$ 1,868,187	\$ 1,815,000	1.043	\$ 1,892,363	\$ -	3.294	\$ 1,815,000
1-Dec-12	120	\$ 1,175,000	1.040	\$ 1,221,527	\$ 1,175,000	1.074	\$ 1,261,836	\$ -	2.240	\$ 1,175,000
1-Dec-13	108	\$ 425,000	1.050	\$ 446,247	\$ 425,000	1.114	\$ 473,524	\$ -	1.868	\$ 425,000
1-Dec-14	96	\$ -	1.060	\$ -	\$ -	1.198	\$ -	\$ -	1.528	\$ -
1-Dec-15	84	\$ 2,945,000	1.071	\$ 3,154,384	\$ 2,945,000	1.437	\$ 4,232,803	\$ -	1.279	\$ 2,945,000
1-Dec-16	72	\$ 50,000	1.093	\$ 54,626	\$ -	1.785	\$ -	\$ 50,000	1.239	\$ 61,927
1-Dec-17	60	\$ -	1.125	\$ -	\$ -	3.556	\$ -	\$ -	1.183	\$ -
1-Dec-18	48	\$ -	1.210	\$ -	\$ -	9.069	\$ -	\$ -	1.242	\$ -
1-Dec-19	36	\$ 100,000	1.391	\$ 139,115	\$ -	45.343	\$ -	\$ 100,000	1.404	\$ 140,353
1-Dec-20	24	\$ -	1.808	\$ -	\$ -	5220.309	\$ -	\$ -	1.809	\$ -
1-Dec-21	12	\$ -	3.074	\$ -	\$ -	10440.618	\$ -	\$ -	3.075	\$ -
Total		\$ 30,875,000		\$ 31,257,806	\$ 30,725,000		\$ 32,237,563	\$ 150,000		\$ 30,927,280

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 @ 11/30/22
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	252	\$ 200,000	1.806	1.000	\$ 361,222	326	1.000	7841	\$ 1,413,418	\$ 200,000
1-Dec-02	240	\$ 1,025,000	1.754	1.000	\$ 1,797,344	334	1.000	8683	\$ 1,654,370	\$ 1,025,000
1-Dec-03	228	\$ 7,860,000	1.702	1.000	\$ 13,381,124	329	1.000	9703	\$ 1,873,929	\$ 7,860,000
1-Dec-04	216	\$ 90,000	1.653	1.000	\$ 148,756	330	1.000	7270	\$ 1,450,438	\$ 90,000
1-Dec-05	204	\$ 425,000	1.605	1.000	\$ 682,000	322	1.000	5785	\$ 1,161,161	\$ 425,000
1-Dec-06	192	\$ -	1.558	1.000	\$ -	309	1.000	4751	\$ 942,941	\$ -
1-Dec-07	180	\$ 300,000	1.513	1.000	\$ 453,777	317	1.001	4192	\$ 878,955	\$ 300,878
1-Dec-08	168	\$ 300,000	1.469	1.000	\$ 440,560	410	1.004	3903	\$ 1,089,389	\$ 304,343
1-Dec-09	156	\$ 800,000	1.426	1.000	\$ 1,140,609	303	1.009	3960	\$ 840,358	\$ 807,515
1-Dec-10	144	\$ -	1.384	1.000	\$ -	303	1.019	4038	\$ 882,496	\$ 16,551
1-Dec-11	132	\$ 1,815,000	1.344	1.000	\$ 2,439,208	293	1.029	4540	\$ 988,317	\$ 1,843,137
1-Dec-12	120	\$ 1,175,000	1.305	1.000	\$ 1,533,108	202	1.040	4691	\$ 727,653	\$ 1,202,716
1-Dec-13	108	\$ 425,000	1.267	1.000	\$ 538,377	202	1.050	4614	\$ 737,235	\$ 460,102
1-Dec-14	96	\$ -	1.230	1.000	\$ -	176	1.060	4680	\$ 668,331	\$ 38,123
1-Dec-15	84	\$ 2,945,000	1.194	1.000	\$ 3,516,484	181	1.071	5138	\$ 777,053	\$ 2,996,580
1-Dec-16	72	\$ 50,000	1.159	1.000	\$ 57,964	185	1.093	4265	\$ 678,878	\$ 107,491
1-Dec-17	60	\$ -	1.126	1.000	\$ -	167	1.125	3594	\$ 533,868	\$ 59,443
1-Dec-18	48	\$ -	1.093	1.000	\$ -	172	1.210	3106	\$ 489,012	\$ 84,767
1-Dec-19	36	\$ 100,000	1.061	1.000	\$ 106,090	151	1.391	2804	\$ 399,356	\$ 212,286
1-Dec-20	24	\$ -	1.030	1.000	\$ -	151	1.808	2565	\$ 375,512	\$ 167,874
1-Dec-21	12	\$ -	1.000	1.000	\$ -	137	3.074	2459	\$ 335,906	\$ 226,648
Total		\$ 17,510,000			\$ 26,596,623	5,297			\$ 18,898,578	\$ 18,428,456

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	252	\$ 200,000	1.806	1.000	\$ 361,222	326	1.000	7879	\$ 1,420,212	\$ 200,000
1-Dec-02	240	\$ 1,025,000	1.754	1.000	\$ 1,797,344	334	1.000	8730	\$ 1,663,347	\$ 1,025,000
1-Dec-03	228	\$ 7,860,000	1.702	1.000	\$ 13,381,124	329	1.000	9767	\$ 1,886,175	\$ 7,860,000
1-Dec-04	216	\$ 90,000	1.653	1.000	\$ 148,756	330	1.000	7329	\$ 1,462,179	\$ 90,000
1-Dec-05	204	\$ 425,000	1.605	1.000	\$ 682,000	322	1.000	5844	\$ 1,173,120	\$ 425,000
1-Dec-06	192	\$ -	1.558	1.000	\$ -	309	1.000	4814	\$ 955,519	\$ -
1-Dec-07	180	\$ 300,000	1.513	1.000	\$ 453,777	317	1.002	4266	\$ 894,353	\$ 301,785
1-Dec-08	168	\$ 300,000	1.469	1.000	\$ 440,560	410	1.006	3994	\$ 1,114,737	\$ 306,657
1-Dec-09	156	\$ 800,000	1.426	1.000	\$ 1,140,609	303	1.012	4088	\$ 867,412	\$ 810,323
1-Dec-10	144	\$ -	1.384	1.000	\$ -	303	1.024	4220	\$ 922,334	\$ 21,783
1-Dec-11	132	\$ 1,815,000	1.344	1.000	\$ 2,439,208	293	1.043	4835	\$ 1,052,469	\$ 1,858,026
1-Dec-12	120	\$ 1,175,000	1.305	1.000	\$ 1,533,108	202	1.074	5136	\$ 796,723	\$ 1,229,828
1-Dec-13	108	\$ 425,000	1.267	1.000	\$ 538,377	202	1.114	5252	\$ 839,196	\$ 510,996
1-Dec-14	96	\$ -	1.230	1.000	\$ -	176	1.198	5631	\$ 804,011	\$ 132,736
1-Dec-15	84	\$ 2,945,000	1.194	1.000	\$ 3,516,484	181	1.437	6677	\$ 1,009,925	\$ 3,252,263
1-Dec-16	72	\$ -	1.159	1.000	\$ -	185	1.785	6088	\$ 968,942	\$ 426,033
1-Dec-17	60	\$ -	1.126	1.000	\$ -	167	3.556	5802	\$ 861,767	\$ 619,445
1-Dec-18	48	\$ -	1.093	1.000	\$ -	172	9.069	5681	\$ 894,498	\$ 795,860
1-Dec-19	36	\$ -	1.061	1.000	\$ -	151	45.343	5656	\$ 805,449	\$ 787,685
1-Dec-20	24	\$ -	1.030	1.000	\$ -	151	5220.309	5656	\$ 827,868	\$ 827,710
1-Dec-21	12	\$ -	1.000	1.000	\$ -	137	10440.618	5656	\$ 772,571	\$ 772,497
Total		\$ 17,360,000			\$ 26,432,569	5,297			\$ 21,992,809	\$ 22,253,628

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	264	59	1.000	59	1.000	\$ 226,525	\$ 226,525	0	\$ 193,172	\$ 13,365,000
1-Dec-01	252	12	1.000	12	1.000	\$ 16,667	\$ 16,667	0	\$ 185,187	\$ 200,000
1-Dec-02	240	14	1.000	14	1.000	\$ 73,214	\$ 73,214	0	\$ 189,950	\$ 1,025,000
1-Dec-03	228	14	1.000	14	1.000	\$ 561,429	\$ 561,429	0	\$ 207,644	\$ 7,860,000
1-Dec-04	216	13	1.000	13	1.000	\$ 6,923	\$ 6,923	0	\$ 185,191	\$ 90,000
1-Dec-05	204	9	1.000	9	1.000	\$ 47,222	\$ 47,222	0	\$ 176,363	\$ 425,000
1-Dec-06	192	3	1.000	3	1.000	\$ -	\$ -	0	\$ 175,260	\$ -
1-Dec-07	180	3	1.000	3	1.001	\$ 100,000	\$ 100,100	0	\$ 178,761	\$ 300,300
1-Dec-08	168	3	1.000	3	1.004	\$ 100,000	\$ 100,400	0	\$ 185,513	\$ 301,201
1-Dec-09	156	5	1.000	5	1.009	\$ 160,000	\$ 161,444	0	\$ 197,528	\$ 807,218
1-Dec-10	144	1	1.000	1	1.019	\$ -	\$ -	0	\$ 215,688	\$ -
1-Dec-11	132	4	1.000	4	1.029	\$ 453,750	\$ 467,047	0	\$ 242,601	\$ 1,868,187
1-Dec-12	120	4	1.000	4	1.040	\$ 293,750	\$ 305,382	0	\$ 253,415	\$ 1,221,527
1-Dec-13	108	3	1.000	3	1.050	\$ 141,667	\$ 148,749	0	\$ 259,952	\$ 446,247
1-Dec-14	96	1	1.000	1	1.060	\$ -	\$ -	0	\$ 276,294	\$ -
1-Dec-15	84	3	1.000	3	1.071	\$ 981,667	\$ 1,051,461	0	\$ 304,065	\$ 3,154,384
1-Dec-16	72	3	1.000	3	1.093	\$ 16,667	\$ 18,209	0	\$ 259,620	\$ 54,626
1-Dec-17	60	2	1.010	2	1.114	\$ -	\$ -	0	\$ 227,001	\$ -
1-Dec-18	48	4	1.025	4	1.180	\$ -	\$ -	0	\$ 200,140	\$ -
1-Dec-19	36	2	1.068	2	1.303	\$ 50,000	\$ 65,157	0	\$ 196,961	\$ 130,313
1-Dec-20	24	0	1.236	0	1.463	\$ -	\$ -	0	\$ 202,870	\$ -
1-Dec-21	12	0	1.652	0	1.861	\$ -	\$ -	0	\$ 208,956	\$ -
Total		162		162				0		\$ 31,249,004

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 @ 11/30/22
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	4,992	1.000	4,992	\$ 1,625,060	0.000	\$ -	\$ 200,000
1-Dec-02	Various	\$ 1,025,000	1.000	5,141	1.000	5,141	\$ 1,717,755	0.000	\$ -	\$ 1,025,000
1-Dec-03	\$ 20,000,000	\$ 7,860,000	1.000	5,296	1.000	5,296	\$ 1,741,151	0.000	\$ -	\$ 7,860,000
1-Dec-04	\$ 20,000,000	\$ 90,000	1.000	5,455	1.000	5,455	\$ 1,798,667	0.000	\$ -	\$ 90,000
1-Dec-05	\$ 20,000,000	\$ 425,000	1.000	5,618	1.000	5,618	\$ 1,809,641	0.000	\$ -	\$ 425,000
1-Dec-06	\$ 20,000,000	\$ -	1.000	5,787	1.000	5,787	\$ 1,789,501	0.000	\$ -	\$ -
1-Dec-07	\$ 20,000,000	\$ 300,000	1.001	5,960	1.000	5,960	\$ 1,890,144	0.001	\$ 1,888	\$ 301,888
1-Dec-08	\$ 20,000,000	\$ 300,000	1.004	6,139	1.000	6,139	\$ 2,516,270	0.004	\$ 10,032	\$ 310,032
1-Dec-09	Various	\$ 800,000	1.009	6,323	1.000	6,323	\$ 1,913,071	0.009	\$ 17,107	\$ 817,107
1-Dec-10	\$ 40,000,000	\$ -	1.019	6,513	1.000	6,513	\$ 1,970,464	0.019	\$ 36,956	\$ 36,956
1-Dec-11	\$ 40,000,000	\$ 1,815,000	1.029	6,708	1.000	6,708	\$ 1,962,493	0.028	\$ 55,872	\$ 1,870,872
1-Dec-12	Various	\$ 1,175,000	1.040	6,910	1.000	6,910	\$ 1,398,593	0.038	\$ 53,271	\$ 1,228,271
1-Dec-13	\$ 30,000,000	\$ 425,000	1.050	7,117	1.000	7,117	\$ 1,440,551	0.048	\$ 68,589	\$ 493,589
1-Dec-14	Various	\$ -	1.060	7,331	1.000	7,331	\$ 1,287,361	0.057	\$ 73,434	\$ 73,434
1-Dec-15	\$ 25,000,000	\$ 2,945,000	1.071	7,550	1.000	7,550	\$ 1,363,560	0.066	\$ 90,512	\$ 3,035,512
1-Dec-16	\$ 25,000,000	\$ 50,000	1.093	7,777	1.000	7,777	\$ 1,434,914	0.085	\$ 121,516	\$ 171,516
1-Dec-17	\$ 25,000,000	\$ -	1.125	8,010	1.000	8,010	\$ 1,339,119	0.111	\$ 149,104	\$ 149,104
1-Dec-18	\$ 25,000,000	\$ -	1.210	8,251	1.000	8,251	\$ 1,419,630	0.173	\$ 246,084	\$ 246,084
1-Dec-19	Various	\$ 100,000	1.391	8,498	1.000	8,498	\$ 1,283,869	0.281	\$ 360,984	\$ 460,984
1-Dec-20	\$ 35,000,000	\$ -	1.808	8,753	1.000	8,753	\$ 1,319,693	0.447	\$ 589,972	\$ 589,972
1-Dec-21	\$ 35,000,000	\$ -	3.074	9,015.63	1.000	9,015.63	\$ 1,231,582	0.675	\$ 830,994	\$ 830,994
Total		\$ 17,510,000					\$ 34,253,088		\$ 2,706,316	\$ 20,216,316

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 @ 11/30/22
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	4,992	1.000	4,992	\$ 1,625,060	0.000	\$ -	\$ 200,000
1-Dec-02	Various	\$ 1,025,000	1.000	5,141	1.000	5,141	\$ 1,717,755	0.000	\$ -	\$ 1,025,000
1-Dec-03	\$ 20,000,000	\$ 7,860,000	1.000	5,296	1.000	5,296	\$ 1,741,151	0.000	\$ -	\$ 7,860,000
1-Dec-04	\$ 20,000,000	\$ 90,000	1.000	5,455	1.000	5,455	\$ 1,798,667	0.000	\$ -	\$ 90,000
1-Dec-05	\$ 20,000,000	\$ 425,000	1.000	5,618	1.000	5,618	\$ 1,809,641	0.000	\$ -	\$ 425,000
1-Dec-06	\$ 20,000,000	\$ -	1.000	5,787	1.000	5,787	\$ 1,789,501	0.000	\$ -	\$ -
1-Dec-07	\$ 20,000,000	\$ 300,000	1.002	5,960	1.000	5,960	\$ 1,890,144	0.002	\$ 3,773	\$ 303,773
1-Dec-08	\$ 20,000,000	\$ 300,000	1.006	6,139	1.000	6,139	\$ 2,516,270	0.006	\$ 15,027	\$ 315,027
1-Dec-09	Various	\$ 800,000	1.012	6,323	1.000	6,323	\$ 1,913,071	0.012	\$ 22,767	\$ 822,767
1-Dec-10	\$ 40,000,000	\$ -	1.024	6,513	1.000	6,513	\$ 1,970,464	0.024	\$ 46,537	\$ 46,537
1-Dec-11	\$ 40,000,000	\$ 1,815,000	1.043	6,708	1.000	6,708	\$ 1,962,493	0.041	\$ 80,230	\$ 1,895,230
1-Dec-12	Various	\$ 1,175,000	1.074	6,910	1.000	6,910	\$ 1,398,593	0.069	\$ 96,247	\$ 1,271,247
1-Dec-13	\$ 30,000,000	\$ 425,000	1.114	7,117	1.000	7,117	\$ 1,440,551	0.102	\$ 147,619	\$ 572,619
1-Dec-14	Various	\$ -	1.198	7,331	1.000	7,331	\$ 1,287,361	0.165	\$ 212,533	\$ 212,533
1-Dec-15	\$ 25,000,000	\$ 2,945,000	1.437	7,550	1.000	7,550	\$ 1,363,560	0.304	\$ 414,854	\$ 3,359,854
1-Dec-16	\$ 25,000,000	\$ -	1.785	7,777	1.000	7,777	\$ 1,434,914	0.440	\$ 630,915	\$ 630,915
1-Dec-17	\$ 25,000,000	\$ -	3.556	8,010	1.000	8,010	\$ 1,339,119	0.719	\$ 962,569	\$ 962,569
1-Dec-18	\$ 25,000,000	\$ -	9.069	8,251	1.000	8,251	\$ 1,419,630	0.890	\$ 1,263,085	\$ 1,263,085
1-Dec-19	Various	\$ -	45.343	8,498	1.000	8,498	\$ 1,283,869	0.978	\$ 1,255,554	\$ 1,255,554
1-Dec-20	\$ 35,000,000	\$ -	5220.309	8,753	1.000	8,753	\$ 1,319,693	1.000	\$ 1,319,440	\$ 1,319,440
1-Dec-21	\$ 35,000,000	\$ -	10440.618	9,015.63	1.000	9,015.63	\$ 1,231,582	1.000	\$ 1,231,464	\$ 1,231,464
Total		\$ 17,360,000					\$ 34,253,088		\$ 7,702,614	\$ 25,062,614

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 @ 11/30/22
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred CDF	(3) Paid CDF	(4) Claim CDF	(5) Trend Factors		(6) Occupied Bed Equivalents
				Loss	Exposure	
Prior	1.000	1.000	1.000	1.860	1.000	-
1-Dec-01	1.000	1.000	1.000	1.806	1.000	326
1-Dec-02	1.000	1.000	1.000	1.754	1.000	334
1-Dec-03	1.000	1.000	1.000	1.702	1.000	329
1-Dec-04	1.000	1.000	1.000	1.653	1.000	330
1-Dec-05	1.000	1.000	1.000	1.605	1.000	322
1-Dec-06	1.000	1.000	1.000	1.558	1.000	309
1-Dec-07	1.001	1.002	1.000	1.513	1.000	317
1-Dec-08	1.004	1.006	1.000	1.469	1.000	410
1-Dec-09	1.009	1.012	1.000	1.426	1.000	303
1-Dec-10	1.019	1.024	1.000	1.384	1.000	303
1-Dec-11	1.029	1.043	1.000	1.344	1.000	293
1-Dec-12	1.040	1.074	1.000	1.305	1.000	202
1-Dec-13	1.050	1.114	1.000	1.267	1.000	202
1-Dec-14	1.060	1.198	1.000	1.230	1.000	176
1-Dec-15	1.071	1.437	1.000	1.194	1.000	181
1-Dec-16	1.093	1.785	1.000	1.159	1.000	185
1-Dec-17	1.125	3.556	1.010	1.126	1.000	167
1-Dec-18	1.210	9.069	1.025	1.093	1.000	172
1-Dec-19	1.391	45.343	1.068	1.061	1.000	151
1-Dec-20	1.808	5220.309	1.236	1.030	1.000	151
1-Dec-21	3.074	10440.618	1.652	1.000	1.000	137

Methods Included in Analysis : **Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity**
 Source Used for LDFs : **Company Exclusively**

LDF Annual Decay Rate (Incurred/f **0.75** **0.75**
 ELR for B/F Method : **9,286**
 Generalized Cape Cod Decay Factor **0.75**
 Loss Limitation : **Exhibit 10, Column (5)**
 Discount Rates : **4.13%**

Column (2) : Company Exclusively **Column (5) : Flat 3.00%**
Column (3) : Company Exclusively **Column (6) : Flat 0.00%**
Column (4) : Company Exclusively **Column (7) : supplied by Cook County, Illinois**



**Cook County, Illinois
Medical Malpractice - Provident Hospital**

**Medical Malpractice - Provident Hospital Experience @ 11/30/22
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	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ 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	\$ 50,000	\$ -	\$ 50,000	\$ 25,000,000	-	\$ -	-	\$ -	-	\$ 50,000	\$ -	\$ 50,000	
1-Dec-17	\$ -	\$ -	\$ -	\$ 25,000,000	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	
1-Dec-18	\$ -	\$ -	\$ -	\$ 25,000,000	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	
1-Dec-19	\$ 100,000	\$ -	\$ 100,000	Various	-	\$ -	-	\$ -	-	\$ 100,000	\$ -	\$ 100,000	
1-Dec-20	\$ -	\$ -	\$ -	\$ 35,000,000	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	
1-Dec-21	\$ -	\$ -	\$ -	\$ 35,000,000	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -	
	\$ 30,875,000	\$ 30,725,000	\$ 150,000		-	\$ -	-	\$ -	-	\$ 30,875,000	\$ 30,725,000	\$ 150,000	

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 @ 11/30/22
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	1.010	2	1.000	2	1.20831%		2	2	1.20831%
1-Dec-18	172	4	1.025	4	1.000	4	2.38318%		4	4	2.38318%
1-Dec-19	151	2	1.068	2	1.000	2	1.41324%		2	2	1.41324%
1-Dec-20	151	0	1.236	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-21	137	0	1.652	0	1.000	0	0.00000%		0	0	0.00000%
Total	5,297	103		103		103	1.94919%		103	103	1.94919%

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
 Column (10) : Selected Trended Ultimate Claims
 Column (11) : Column (10) / Column (6)
 Column (12) : Column (10) / Column (2)

Selected Bornhuetter-Ferguson Claim Count for Policy Period 1-Dec-21											
<u>Weighted Averages excluding Policy Period 1-Dec-21</u>											
Last 5 Policies	778					8	1.06156%		8		1.06156%
Last 3 Policies	438					2	0.48696%		2		0.48696%
Last 2 Policies	287					0	0.00000%		0		0.00000%
Last 20 Policies	5,161					103	2.00079%		103		2.00079%
Selected Bornhuetter-Ferguson Frequency Rate							1.06156%				
Occupied Bed Equivalents for 1-Dec-21							137				
Apriori Expected Count for 1-Dec-21							1				



**Cook County, Illinois
Medical Malpractice - Provident Hospital
Medical Malpractice - Provident Hospital Experience @ 11/30/22
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	1.860	1.000	372,059	326	1.000	326	1,141
1-Dec-02	1,025,000	1,025,000	1.806	1.000	1,851,264	334	1.000	334	5,543
1-Dec-03	7,860,000	7,860,000	1.754	1.000	13,782,558	329	1.000	329	41,892
1-Dec-04	90,000	90,000	1.702	1.000	153,219	330	1.000	330	464
1-Dec-05	425,000	425,000	1.653	1.000	702,460	322	1.000	322	2,182
1-Dec-06	-	-	1.605	1.000	-	309	1.000	309	0
1-Dec-07	300,000	300,000	1.558	1.000	467,390	317	1.000	317	1,474
1-Dec-08	300,000	300,000	1.513	1.000	453,777	410	1.000	410	1,107
1-Dec-09	800,000	800,000	1.469	1.000	1,174,827	303	1.000	303	3,877
1-Dec-10	-	-	1.426	1.000	-	303	1.000	303	0
1-Dec-11	1,815,000	1,815,000	1.384	1.000	2,512,384	293	1.000	293	8,575
1-Dec-12	1,175,000	1,175,000	1.344	1.000	1,579,102	202	1.000	202	7,817
1-Dec-13	425,000	425,000	1.305	1.000	554,529	202	1.000	202	2,745
1-Dec-14	-	-	1.267	1.000	-	176	1.000	176	0
1-Dec-15	2,945,000	2,945,000	1.230	1.000	3,621,979	181	1.000	181	20,011
1-Dec-16	50,000	140,000	1.194	1.000	167,167	185	1.000	185	904
1-Dec-17	-	150,000	1.159	1.000	173,891	167	1.000	167	1,041
1-Dec-18	-	600,000	1.126	1.000	675,305	172	1.000	172	3,926
1-Dec-19	100,000	700,000	1.093	1.000	764,909	151	1.000	151	5,066
1-Dec-20	-	700,000	1.061	1.000	742,630	151	1.000	151	4,918
1-Dec-21	-	1,100,000	1.030	1.000	1,133,000	137	1.000	137	8,270
All Year Weighted Average					30,882,450			5,300	5,827
Latest 5-Year Weighted Average					3,489,735			778	4,486
Latest 3-Year Weighted Average					2,640,539			439	6,015
SELECTED - Based on Shaded PY					10,354,004			1,115	9,286

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)					
(10)	(11)	(12)	(13)	(14)	(15)
Policy Period Inception	Retention	Occupied Bed Equivalents	Claim Count	Loss Rate	Loss Amount
1-Dec-22	35,000,000	137	2	9,286	1,270,000
1-Dec-23	35,000,000	137	2	9,657	1,320,000
1-Dec-24	35,000,000	137	2	10,043	1,370,000

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



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	25	23,392	49,663	1,505	605	23	137

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

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

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



**Cook County, Illinois
Medical Malpractice - Provident Hospital
Projected Losses Paid 12/1/2022 to 11/30/2023**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/22	Percent Losses Paid	Months of Development 11/30/23	Percent Losses Paid	Estimated Outstanding Losses 11/30/22	Projected Losses Paid	Estimated Outstanding Losses 11/30/23	Discount Factor	Discounted Outstanding Losses 11/30/23
Prior	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	180	99.8%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	168	99.4%	180	99.8%	\$ -	\$ -	\$ -	0.980	\$ -
1-Dec-09	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.967	\$ -
1-Dec-10	144	97.6%	156	98.8%	\$ -	\$ -	\$ -	0.954	\$ -
1-Dec-11	132	95.9%	144	97.6%	\$ -	\$ -	\$ -	0.948	\$ -
1-Dec-12	120	93.1%	132	95.9%	\$ -	\$ -	\$ -	0.940	\$ -
1-Dec-13	108	89.8%	120	93.1%	\$ -	\$ -	\$ -	0.934	\$ -
1-Dec-14	96	83.5%	108	89.8%	\$ -	\$ -	\$ -	0.924	\$ -
1-Dec-15	84	69.6%	96	83.5%	\$ -	\$ -	\$ -	0.923	\$ -
1-Dec-16	72	56.0%	84	69.6%	\$ 140,000	\$ 43,127	\$ 96,873	0.929	\$ 89,993
1-Dec-17	60	28.1%	72	56.0%	\$ 150,000	\$ 35,915	\$ 114,085	0.919	\$ 104,866
1-Dec-18	48	11.0%	60	28.1%	\$ 600,000	\$ 115,263	\$ 484,737	0.920	\$ 446,195
1-Dec-19	36	2.2%	48	11.0%	\$ 700,000	\$ 63,145	\$ 636,855	0.902	\$ 574,711
1-Dec-20	24	0.0%	36	2.2%	\$ 700,000	\$ 15,307	\$ 684,693	0.877	\$ 600,375
1-Dec-21	12	0.0%	24	0.0%	\$ 1,100,000	\$ 105	\$ 1,099,895	0.845	\$ 929,510
1-Dec-22	0	0.0%	12	0.0%	\$ 1,270,000	\$ 122	\$ 1,269,878	0.812	\$ 1,030,618
Total					\$ 4,660,000	\$ 272,983	\$ 4,387,017		\$ 3,776,268

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 4.13% Interest Rate
 Column (10): Column (8) x Column (9)



**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%	\$ -	\$ -	\$ -	0.980	\$ -
1-Dec-10	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.967	\$ -
1-Dec-11	144	97.6%	156	98.8%	\$ -	\$ -	\$ -	0.954	\$ -
1-Dec-12	132	95.9%	144	97.6%	\$ -	\$ -	\$ -	0.948	\$ -
1-Dec-13	120	93.1%	132	95.9%	\$ -	\$ -	\$ -	0.940	\$ -
1-Dec-14	108	89.8%	120	93.1%	\$ -	\$ -	\$ -	0.934	\$ -
1-Dec-15	96	83.5%	108	89.8%	\$ -	\$ -	\$ -	0.924	\$ -
1-Dec-16	84	69.6%	96	83.5%	\$ 96,873	\$ 36,251	\$ 60,623	0.923	\$ 55,929
1-Dec-17	72	56.0%	84	69.6%	\$ 114,085	\$ 24,662	\$ 89,423	0.929	\$ 83,072
1-Dec-18	60	28.1%	72	56.0%	\$ 484,737	\$ 188,227	\$ 296,510	0.919	\$ 272,548
1-Dec-19	48	11.0%	60	28.1%	\$ 636,855	\$ 122,343	\$ 514,513	0.920	\$ 473,603
1-Dec-20	36	2.2%	48	11.0%	\$ 684,693	\$ 61,764	\$ 622,929	0.902	\$ 562,144
1-Dec-21	24	0.0%	36	2.2%	\$ 1,099,895	\$ 24,051	\$ 1,075,843	0.877	\$ 943,356
1-Dec-22	12	0.0%	24	0.0%	\$ 1,269,878	\$ 122	\$ 1,269,757	0.845	\$ 1,073,059
1-Dec-23	0	0.0%	12	0.0%	\$ 1,320,000	\$ 126	\$ 1,319,874	0.812	\$ 1,071,194
Total					\$ 5,707,017	\$ 457,546	\$ 5,249,471		\$ 4,534,905

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 4.13% 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%	\$ -	\$ -	\$ -	0.980	\$ -
1-Dec-11	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.967	\$ -
1-Dec-12	144	97.6%	156	98.8%	\$ -	\$ -	\$ -	0.954	\$ -
1-Dec-13	132	95.9%	144	97.6%	\$ -	\$ -	\$ -	0.948	\$ -
1-Dec-14	120	93.1%	132	95.9%	\$ -	\$ -	\$ -	0.940	\$ -
1-Dec-15	108	89.8%	120	93.1%	\$ -	\$ -	\$ -	0.934	\$ -
1-Dec-16	96	83.5%	108	89.8%	\$ 60,623	\$ 10,021	\$ 50,601	0.924	\$ 46,764
1-Dec-17	84	69.6%	96	83.5%	\$ 89,423	\$ 12,577	\$ 76,846	0.923	\$ 70,897
1-Dec-18	72	56.0%	84	69.6%	\$ 296,510	\$ 66,751	\$ 229,759	0.929	\$ 213,440
1-Dec-19	60	28.1%	72	56.0%	\$ 514,513	\$ 199,789	\$ 314,723	0.919	\$ 289,290
1-Dec-20	48	11.0%	60	28.1%	\$ 622,929	\$ 119,668	\$ 503,262	0.920	\$ 463,247
1-Dec-21	36	2.2%	48	11.0%	\$ 1,075,843	\$ 97,048	\$ 978,795	0.902	\$ 883,284
1-Dec-22	24	0.0%	36	2.2%	\$ 1,269,757	\$ 27,766	\$ 1,241,991	0.877	\$ 1,089,043
1-Dec-23	12	0.0%	24	0.0%	\$ 1,319,874	\$ 126	\$ 1,319,747	0.845	\$ 1,115,305
1-Dec-24	0	0.0%	12	0.0%	\$ 1,370,000	\$ 131	\$ 1,369,869	0.812	\$ 1,111,770
Total					\$ 6,619,471	\$ 533,878	\$ 6,085,593		\$ 5,283,039

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 4.13% 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 (Cermak, Provident, Stroger)
 Occurrence
 Indemnity and Expense
 Reported Claim Count Triangle
 Data Limited to Retentions
 As of 11/30/2022

		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	
Prior																					520	530	520	520
12/1/2001																118	118	118	118	118	118	118	118	
12/1/2002															111	111	111	111	111	111	111	111	118	
12/1/2003															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	51	
12/1/2008										46	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	51	
12/1/2010										59	59	60	60	60	60	60	60	60	60	60	60	60	60	
12/1/2011										56	57	57	59	59	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	65	
12/1/2013										41	42	42	42	42	42	42	42	42	42	42	42	42	42	
12/1/2014										43	45	47	47	47	47	47	47	47	47	47	47	47	47	
12/1/2015										35	46	53	56	57	58	58	58	58	58	58	58	58	58	
12/1/2016										12	19	25	26	24	24	24	24	24	24	24	24	24	24	
12/1/2017										28	34	39	42	42	42	42	42	42	42	42	42	42	42	
12/1/2018										29	38	44	45	45	45	45	45	45	45	45	45	45	45	
12/1/2019										15	22	27	27	27	27	27	27	27	27	27	27	27	27	
12/1/2020										16	18	18	18	18	18	18	18	18	18	18	18	18	18	
12/1/2021										18	18	18	18	18	18	18	18	18	18	18	18	18	18	

		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-Ult
Prior																					1,000	1,000	1,000
12/1/2001																					1,000	1,000	1,000
12/1/2002																					1,000	1,000	1,000
12/1/2003																					1,000	1,000	1,000
12/1/2004																					1,000	1,000	1,000
12/1/2005																					1,000	1,000	1,000
12/1/2006																					1,000	1,000	1,000
12/1/2007																					1,000	1,000	1,000
12/1/2008																					1,000	1,000	1,000
12/1/2009																					1,000	1,000	1,000
12/1/2010																					1,000	1,000	1,000
12/1/2011																					1,000	1,000	1,000
12/1/2012																					1,000	1,000	1,000
12/1/2013																					1,000	1,000	1,000
12/1/2014																					1,000	1,000	1,000
12/1/2015																					1,000	1,000	1,000
12/1/2016																					1,000	1,000	1,000
12/1/2017																					1,000	1,000	1,000
12/1/2018																					1,000	1,000	1,000
12/1/2019																					1,000	1,000	1,000
12/1/2020																					1,000	1,000	1,000
12/1/2021																					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-Ult
All Year Average		1.336	1.217	1.045	1.000	1.003	1.003	1.003	1.006	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
3 Yr Average		1.301	1.177	1.047	0.980	1.006	1.000	1.000	1.012	1.000	1.000	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Yr Average		1.340	1.200	1.049	0.997	1.004	1.004	1.003	1.007	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
3 Yr Wtd Average		1.300	1.170	1.046	0.992	1.008	1.000	1.000	1.012	1.000	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Yr Wtd Average		1.310	1.182	1.049	1.005	1.004	1.004	1.004	1.007	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
Avg X Hi-Lo (3yr X 2)		1.310	1.158	1.040	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Avg X Hi-Lo (5yr X 2)		1.330	1.179	1.048	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
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
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	1.001	1.001	1.001	1.001	1.001	1.001
Initial Selected		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

		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-Ult
Inverse Power Curve Fit																							1.00000
Exponential Curve Fit																							1.00000
Weibull Curve Fit																							1.00000
Manual Entry																							1.00000
Selected Tail Method:	Manual Entry																						Tail
Final Link Ratio		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
Final CDF		1.652	1.236	1.068	1.025	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Industry Factor Source: AM Bests Med Mal Occ



**Cook County, Illinois
Medical Malpractice - Unspecified Hospital / Ambulatory Care Experience @ 11/30/22
Losses Limited to Retentions**

Policy Period	Occupied Bed Equivalents	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	-	10,000,000	118	-	44,383,067	44,383,067	-	-	-	44,383,067	-
1-Dec-01	-	Various	6	-	750,000	750,000	-	-	-	750,000	-
1-Dec-02	-	Various	8	-	800,000	800,000	-	-	-	800,000	-
1-Dec-03	-	20,000,000	3	-	-	-	-	-	-	-	-
1-Dec-04	-	20,000,000	4	-	-	-	-	-	-	-	-
1-Dec-05	-	20,000,000	3	-	-	-	-	-	-	-	-
1-Dec-06	-	20,000,000	-	-	-	-	-	-	-	-	-
1-Dec-07	-	20,000,000	-	-	-	-	-	-	-	-	-
1-Dec-08	-	20,000,000	-	-	-	-	-	-	-	-	-
1-Dec-09	399	Various	-	-	-	-	-	-	-	-	-
1-Dec-10	399	40,000,000	2	-	-	-	-	-	-	-	-
1-Dec-11	399	40,000,000	-	-	-	-	-	-	-	-	-
1-Dec-12	358	Various	1	-	-	-	-	-	-	-	-
1-Dec-13	358	30,000,000	-	-	-	-	-	-	-	-	-
1-Dec-14	223	Various	2	1	50,715	715	50,000	1,285	51,285	52,000	233.4
1-Dec-15	220	25,000,000	-	-	-	-	-	-	-	-	-
1-Dec-16	222	25,000,000	-	-	-	-	-	5,000	5,000	5,000	22.5
1-Dec-17	281	25,000,000	1	-	-	-	-	10,000	10,000	10,000	35.6
1-Dec-18	313	25,000,000	1	-	-	-	-	15,000	15,000	15,000	48.0
1-Dec-19	354	Various	1	-	-	-	-	12,000	12,000	12,000	33.9
1-Dec-20	445	35,000,000	1	-	-	-	-	18,000	18,000	18,000	40.5
1-Dec-21	406	35,000,000	-	-	-	-	-	20,000	20,000	20,000	49.2
Total	4,376		151	1	45,983,782	45,933,782	50,000	81,285	131,285	46,065,067	30.2

Full Policy Period Projections											
1-Dec-22	406	35,000,000								24,000	60.3
1-Dec-23	406	35,000,000								25,000	62.7



**Cook County, Illinois
Medical Malpractice - Unspecified Hospital / Ambulatory Care**

**Medical Malpractice - Unspecified Hospital / Ambulatory Care Experience @ 11/30/22
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	\$ 44,383,067	\$ 44,383,067	\$ 44,383,067	N/A	N/A	N/A	N/A	\$ 44,383,067	\$ 44,383,067
1-Dec-01	\$ 750,000	\$ 750,000	\$ 750,000	N/A	N/A	N/A	N/A	\$ 750,000	\$ 750,000
1-Dec-02	\$ 800,000	\$ 800,000	\$ 800,000	N/A	N/A	N/A	N/A	\$ 800,000	\$ 800,000
1-Dec-03	\$ -	\$ -	\$ -	N/A	N/A	N/A	N/A	\$ -	\$ -
1-Dec-04	\$ -	\$ -	\$ -	N/A	N/A	N/A	N/A	\$ -	\$ -
1-Dec-05	\$ -	\$ -	\$ -	N/A	N/A	N/A	N/A	\$ -	\$ -
1-Dec-06	\$ -	\$ -	\$ -	N/A	N/A	N/A	N/A	\$ -	\$ -
1-Dec-07	\$ -	\$ -	\$ -	N/A	N/A	N/A	N/A	\$ -	\$ -
1-Dec-08	\$ -	\$ -	\$ -	N/A	N/A	N/A	N/A	\$ -	\$ -
1-Dec-09	\$ -	\$ -	\$ -	\$ 146	\$ 195	\$ 27	\$ 1	\$ -	\$ -
1-Dec-10	\$ -	\$ -	\$ -	\$ 316	\$ 398	\$ 68	\$ 1	\$ -	\$ -
1-Dec-11	\$ -	\$ -	\$ -	\$ 495	\$ 710	\$ 132	\$ 3	\$ -	\$ -
1-Dec-12	\$ -	\$ -	\$ -	\$ 612	\$ 1,106	\$ 213	\$ 6	\$ -	\$ -
1-Dec-13	\$ -	\$ -	\$ -	\$ 788	\$ 1,696	\$ 371	\$ 14	\$ -	\$ -
1-Dec-14	\$ 53,783	\$ 856	\$ 77,112	\$ 51,320	\$ 2,466	\$ 51,113	\$ 736	\$ 53,783	\$ 52,000
1-Dec-15	\$ -	\$ -	\$ -	\$ 716	\$ 3,282	\$ 369	\$ 35	\$ -	\$ -
1-Dec-16	\$ -	\$ -	\$ -	\$ 950	\$ 4,930	\$ 381	\$ 47	\$ -	\$ 5,000
1-Dec-17	\$ -	\$ -	\$ -	\$ 1,626	\$ 10,494	\$ 508	\$ 94	\$ -	\$ 10,000
1-Dec-18	\$ -	\$ -	\$ -	\$ 2,905	\$ 14,910	\$ 720	\$ 129	\$ -	\$ 15,000
1-Dec-19	\$ -	\$ -	\$ -	\$ 5,492	\$ 19,101	\$ 1,115	\$ 164	\$ -	\$ 12,000
1-Dec-20	\$ -	\$ -	\$ -	\$ 11,306	\$ 25,285	\$ 1,976	\$ 217	\$ -	\$ 18,000
1-Dec-21	\$ -	\$ -	\$ -	\$ 16,046	\$ 23,779	\$ 2,619	\$ 204	\$ -	\$ 20,000
Total	\$ 45,986,850	\$ 45,933,923	\$ 46,010,178	\$ 92,718	\$ 108,353	\$ 59,612	\$ 1,653	\$ 45,986,850	\$ 46,065,067

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 - Unspecified Hospital / Ambulatory Care**

**Medical Malpractice - Unspecified Hospital / Ambulatory Care Experience @ 11/30/22
Unpaid Liabilities at Various Discount Rates
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Undiscounted	Disc Rate 4.13%
Prior	264	\$ 10,000,000	\$ 44,383,067	\$ 44,383,067	\$ 44,383,067	\$ -	\$ -	\$ -	\$ -
1-Dec-01	252	Various	\$ 750,000	\$ 750,000	\$ 750,000	\$ -	\$ -	\$ -	\$ -
1-Dec-02	240	Various	\$ 800,000	\$ 800,000	\$ 800,000	\$ -	\$ -	\$ -	\$ -
1-Dec-03	228	\$ 20,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-04	216	\$ 20,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-05	204	\$ 20,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-06	192	\$ 20,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-07	180	\$ 20,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-08	168	\$ 20,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-09	156	Various	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-10	144	\$ 40,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-11	132	\$ 40,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-12	120	Various	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-13	108	\$ 30,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-14	96	Various	\$ 52,000	\$ 50,715	\$ 715	\$ 50,000	\$ 1,285	\$ 51,285	\$ 47,315
1-Dec-15	84	\$ 25,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-16	72	\$ 25,000,000	\$ 5,000	\$ -	\$ -	\$ -	\$ 5,000	\$ 5,000	\$ 4,596
1-Dec-17	60	\$ 25,000,000	\$ 10,000	\$ -	\$ -	\$ -	\$ 10,000	\$ 10,000	\$ 9,205
1-Dec-18	48	\$ 25,000,000	\$ 15,000	\$ -	\$ -	\$ -	\$ 15,000	\$ 15,000	\$ 13,536
1-Dec-19	36	Various	\$ 12,000	\$ -	\$ -	\$ -	\$ 12,000	\$ 12,000	\$ 10,522
1-Dec-20	24	\$ 35,000,000	\$ 18,000	\$ -	\$ -	\$ -	\$ 18,000	\$ 18,000	\$ 15,212
1-Dec-21	12	\$ 35,000,000	\$ 20,000	\$ -	\$ -	\$ -	\$ 20,000	\$ 20,000	\$ 16,232
Total			\$ 46,065,067	\$ 45,983,782	\$ 45,933,782	\$ 50,000	\$ 81,285	\$ 131,285	\$ 116,617

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 (10) : Column (9) discounted



**Cook County, Illinois
Medical Malpractice - Unspecified Hospital / Ambulatory Care**

**Medical Malpractice - Unspecified Hospital / Ambulatory Care Experience @ 11/30/22
Incurred, Paid, & Outstanding "Chain Ladder" Methods
Losses Limited to Retentions**

(1) Policy Period Inception	(2) Evaluation in Months	(3) (4) (5) Incurred Chain-Ladder			(6) (7) (8) Paid Chain-Ladder			(9) (10) (11) Outstanding Chain-Ladder		
		Incurred Loss	Incurred LDF	Ultimate Loss	Paid Loss	Paid LDF	Ultimate Loss	Case Reserves	Outstanding LDF	Ultimate Loss
Prior	264	\$ 44,383,067	1.000	\$ 44,383,067	\$ 44,383,067	1.000	\$ 44,383,067	\$ -	1.000	\$ 44,383,067
1-Dec-01	252	\$ 750,000	1.000	\$ 750,000	\$ 750,000	1.000	\$ 750,000	\$ -	1.000	\$ 750,000
1-Dec-02	240	\$ 800,000	1.000	\$ 800,000	\$ 800,000	1.000	\$ 800,000	\$ -	1.000	\$ 800,000
1-Dec-03	228	\$ -	1.000	\$ -	\$ -	1.000	\$ -	\$ -	1.000	\$ -
1-Dec-04	216	\$ -	1.000	\$ -	\$ -	1.000	\$ -	\$ -	1.000	\$ -
1-Dec-05	204	\$ -	1.000	\$ -	\$ -	1.000	\$ -	\$ -	1.000	\$ -
1-Dec-06	192	\$ -	1.000	\$ -	\$ -	1.000	\$ -	\$ -	1.000	\$ -
1-Dec-07	180	\$ -	1.001	\$ -	\$ -	1.002	\$ -	\$ -	2.002	\$ -
1-Dec-08	168	\$ -	1.004	\$ -	\$ -	1.006	\$ -	\$ -	3.009	\$ -
1-Dec-09	156	\$ -	1.009	\$ -	\$ -	1.012	\$ -	\$ -	4.023	\$ -
1-Dec-10	144	\$ -	1.019	\$ -	\$ -	1.024	\$ -	\$ -	4.857	\$ -
1-Dec-11	132	\$ -	1.029	\$ -	\$ -	1.043	\$ -	\$ -	3.294	\$ -
1-Dec-12	120	\$ -	1.040	\$ -	\$ -	1.074	\$ -	\$ -	2.240	\$ -
1-Dec-13	108	\$ -	1.050	\$ -	\$ -	1.114	\$ -	\$ -	1.868	\$ -
1-Dec-14	96	\$ 50,715	1.060	\$ 53,783	\$ 715	1.198	\$ 856	\$ 50,000	1.528	\$ 77,112
1-Dec-15	84	\$ -	1.071	\$ -	\$ -	1.437	\$ -	\$ -	1.279	\$ -
1-Dec-16	72	\$ -	1.093	\$ -	\$ -	1.785	\$ -	\$ -	1.239	\$ -
1-Dec-17	60	\$ -	1.125	\$ -	\$ -	3.556	\$ -	\$ -	1.183	\$ -
1-Dec-18	48	\$ -	1.210	\$ -	\$ -	9.069	\$ -	\$ -	1.242	\$ -
1-Dec-19	36	\$ -	1.391	\$ -	\$ -	45.343	\$ -	\$ -	1.404	\$ -
1-Dec-20	24	\$ -	1.808	\$ -	\$ -	5220.309	\$ -	\$ -	1.809	\$ -
1-Dec-21	12	\$ -	3.074	\$ -	\$ -	10440.618	\$ -	\$ -	3.075	\$ -
Total		\$ 45,983,782		\$ 45,986,850	\$ 45,933,782		\$ 45,933,923	\$ 50,000		\$ 46,010,178

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 - Unspecified Hospital / Ambulatory Care**

**Medical Malpractice - Unspecified Hospital / Ambulatory Care Experience @ 11/30/22
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-09	156	\$ -	1.426	1.000	\$ -	399	1.009	11.0	\$ 3,074	\$ 27
1-Dec-10	144	\$ -	1.384	1.000	\$ -	399	1.019	12.6	\$ 3,633	\$ 68
1-Dec-11	132	\$ -	1.344	1.000	\$ -	399	1.029	15.6	\$ 4,632	\$ 132
1-Dec-12	120	\$ -	1.305	1.000	\$ -	358	1.040	20.4	\$ 5,598	\$ 213
1-Dec-13	108	\$ -	1.267	1.000	\$ -	358	1.050	27.5	\$ 7,790	\$ 371
1-Dec-14	96	\$ 50,715	1.230	1.000	\$ 62,373	223	1.060	38.6	\$ 6,983	\$ 51,113
1-Dec-15	84	\$ -	1.194	1.000	\$ -	220	1.071	30.2	\$ 5,560	\$ 369
1-Dec-16	72	\$ -	1.159	1.000	\$ -	222	1.093	23.5	\$ 4,504	\$ 381
1-Dec-17	60	\$ -	1.126	1.000	\$ -	281	1.125	18.3	\$ 4,560	\$ 508
1-Dec-18	48	\$ -	1.093	1.000	\$ -	313	1.210	14.5	\$ 4,151	\$ 720
1-Dec-19	36	\$ -	1.061	1.000	\$ -	354	1.391	11.9	\$ 3,966	\$ 1,115
1-Dec-20	24	\$ -	1.030	1.000	\$ -	445	1.808	10.2	\$ 4,420	\$ 1,976
1-Dec-21	12	\$ -	1.000	1.000	\$ -	406	3.074	9.6	\$ 3,881	\$ 2,619
Total		\$ 50,715			\$ 62,373	4,376			\$ 62,751	\$ 59,612

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson Indices appropriate for coverage (Medical Malpractice - Unspecified Hospital / Ambulatory Care)

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 - Unspecified Hospital / Ambulatory Care**

**Medical Malpractice - Unspecified Hospital / Ambulatory Care Experience @ 11/30/22
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-09	156	\$ -	1.426	1.000	\$ -	399	1.012	0.2	\$ 47	\$ 1
1-Dec-10	144	\$ -	1.384	1.000	\$ -	399	1.024	0.2	\$ 56	\$ 1
1-Dec-11	132	\$ -	1.344	1.000	\$ -	399	1.043	0.2	\$ 73	\$ 3
1-Dec-12	120	\$ -	1.305	1.000	\$ -	358	1.074	0.3	\$ 92	\$ 6
1-Dec-13	108	\$ -	1.267	1.000	\$ -	358	1.114	0.5	\$ 134	\$ 14
1-Dec-14	96	\$ 715	1.230	1.000	\$ 879	223	1.198	0.7	\$ 130	\$ 736
1-Dec-15	84	\$ -	1.194	1.000	\$ -	220	1.437	0.6	\$ 115	\$ 35
1-Dec-16	72	\$ -	1.159	1.000	\$ -	222	1.785	0.6	\$ 108	\$ 47
1-Dec-17	60	\$ -	1.126	1.000	\$ -	281	3.556	0.5	\$ 131	\$ 94
1-Dec-18	48	\$ -	1.093	1.000	\$ -	313	9.069	0.5	\$ 145	\$ 129
1-Dec-19	36	\$ -	1.061	1.000	\$ -	354	45.343	0.5	\$ 168	\$ 164
1-Dec-20	24	\$ -	1.030	1.000	\$ -	445	5220.309	0.5	\$ 217	\$ 217
1-Dec-21	12	\$ -	1.000	1.000	\$ -	406	10440.618	0.5	\$ 204	\$ 204
Total		\$ 715			\$ 879	4,376			\$ 1,621	\$ 1,653

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson Indices appropriate for coverage (Medical Malpractice - Unspecified Hospital / Ambulatory Care)

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 - Unspecified Hospital / Ambulatory Care**

**Medical Malpractice - Unspecified Hospital / Ambulatory Care Experience @ 11/30/22
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	264	118	1.000	118	1.000	\$ 376,128	\$ 376,128	0	\$ 347,030	\$ 44,383,067
1-Dec-01	252	6	1.000	6	1.000	\$ 125,000	\$ 125,000	0	\$ 369,601	\$ 750,000
1-Dec-02	240	8	1.000	8	1.000	\$ 100,000	\$ 100,000	0	\$ 362,410	\$ 800,000
1-Dec-03	228	3	1.000	3	1.000	\$ -	\$ -	0	\$ 353,535	\$ -
1-Dec-04	216	4	1.000	4	1.000	\$ -	\$ -	0	\$ 343,734	\$ -
1-Dec-05	204	3	1.000	3	1.000	\$ -	\$ -	0	\$ 339,959	\$ -
1-Dec-06	192	0	1.000	0	1.000	\$ -	\$ -	0	\$ 345,029	\$ -
1-Dec-07	180	0	1.000	0	1.001	\$ -	\$ -	0	\$ 346,364	\$ -
1-Dec-08	168	0	1.000	0	1.004	\$ -	\$ -	0	\$ 341,371	\$ -
1-Dec-09	156	0	1.000	0	1.009	\$ -	\$ -	0	\$ 326,608	\$ -
1-Dec-10	144	2	1.000	2	1.019	\$ -	\$ -	0	\$ 298,735	\$ -
1-Dec-11	132	0	1.000	0	1.029	\$ -	\$ -	0	\$ 284,323	\$ -
1-Dec-12	120	1	1.000	1	1.040	\$ -	\$ -	0	\$ 258,250	\$ -
1-Dec-13	108	0	1.000	0	1.050	\$ -	\$ -	0	\$ 236,244	\$ -
1-Dec-14	96	2	1.000	2	1.060	\$ 25,358	\$ 26,891	0	\$ 203,782	\$ 53,783
1-Dec-15	84	0	1.000	0	1.071	\$ -	\$ -	0	\$ 190,036	\$ -
1-Dec-16	72	0	1.000	0	1.093	\$ -	\$ -	0	\$ 167,552	\$ -
1-Dec-17	60	1	1.010	1	1.114	\$ -	\$ -	0	\$ 137,405	\$ -
1-Dec-18	48	1	1.025	1	1.180	\$ -	\$ -	0	\$ 116,197	\$ -
1-Dec-19	36	1	1.068	1	1.303	\$ -	\$ -	0	\$ 102,380	\$ -
1-Dec-20	24	1	1.236	1	1.463	\$ -	\$ -	0	\$ 95,611	\$ -
1-Dec-21	12	0	1.652	0	1.861	\$ -	\$ -	0	\$ 98,479	\$ -
Total		151		151				0		\$ 45,986,850

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 - Unspecified Hospital / Ambulatory Care**

**Medical Malpractice - Unspecified Hospital / Ambulatory Care Experience @ 11/30/22
Incurred Bornhuetter/Ferguson Method
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy 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-09	Various	\$ -	1.009	41.1	1.000	41.1	\$ 16,376	0.009	\$ 146	\$ 146
1-Dec-10	\$ 40,000,000	\$ -	1.019	42.3	1.000	42.3	\$ 16,868	0.019	\$ 316	\$ 316
1-Dec-11	\$ 40,000,000	\$ -	1.029	43.6	1.000	43.6	\$ 17,374	0.028	\$ 495	\$ 495
1-Dec-12	Various	\$ -	1.040	44.9	1.000	44.9	\$ 16,073	0.038	\$ 612	\$ 612
1-Dec-13	\$ 30,000,000	\$ -	1.050	46.2	1.000	46.2	\$ 16,555	0.048	\$ 788	\$ 788
1-Dec-14	Various	\$ 50,715	1.060	47.6	1.000	47.6	\$ 10,605	0.057	\$ 605	\$ 51,320
1-Dec-15	\$ 25,000,000	\$ -	1.071	49.0	1.000	49.0	\$ 10,788	0.066	\$ 716	\$ 716
1-Dec-16	\$ 25,000,000	\$ -	1.093	50.5	1.000	50.5	\$ 11,213	0.085	\$ 950	\$ 950
1-Dec-17	\$ 25,000,000	\$ -	1.125	52.0	1.000	52.0	\$ 14,599	0.111	\$ 1,626	\$ 1,626
1-Dec-18	\$ 25,000,000	\$ -	1.210	53.6	1.000	53.6	\$ 16,758	0.173	\$ 2,905	\$ 2,905
1-Dec-19	Various	\$ -	1.391	55.2	1.000	55.2	\$ 19,532	0.281	\$ 5,492	\$ 5,492
1-Dec-20	\$ 35,000,000	\$ -	1.808	56.8	1.000	56.8	\$ 25,290	0.447	\$ 11,306	\$ 11,306
1-Dec-21	\$ 35,000,000	\$ -	3.074	58.5	1.000	58.5	\$ 23,782	0.675	\$ 16,046	\$ 16,046
Total		\$ 50,715					\$ 215,811		\$ 42,003	\$ 92,718

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 - Unspecified Hospital / Ambulatory Care**

**Medical Malpractice - Unspecified Hospital / Ambulatory Care Experience @ 11/30/22
Paid Bornhuetter/Ferguson Method
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy 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-09	Various	\$ -	1.012	41.1	1.000	41.1	\$ 16,376	0.012	\$ 195	\$ 195
1-Dec-10	\$ 40,000,000	\$ -	1.024	42.3	1.000	42.3	\$ 16,868	0.024	\$ 398	\$ 398
1-Dec-11	\$ 40,000,000	\$ -	1.043	43.6	1.000	43.6	\$ 17,374	0.041	\$ 710	\$ 710
1-Dec-12	Various	\$ -	1.074	44.9	1.000	44.9	\$ 16,073	0.069	\$ 1,106	\$ 1,106
1-Dec-13	\$ 30,000,000	\$ -	1.114	46.2	1.000	46.2	\$ 16,555	0.102	\$ 1,696	\$ 1,696
1-Dec-14	Various	\$ 715	1.198	47.6	1.000	47.6	\$ 10,605	0.165	\$ 1,751	\$ 2,466
1-Dec-15	\$ 25,000,000	\$ -	1.437	49.0	1.000	49.0	\$ 10,788	0.304	\$ 3,282	\$ 3,282
1-Dec-16	\$ 25,000,000	\$ -	1.785	50.5	1.000	50.5	\$ 11,213	0.440	\$ 4,930	\$ 4,930
1-Dec-17	\$ 25,000,000	\$ -	3.556	52.0	1.000	52.0	\$ 14,599	0.719	\$ 10,494	\$ 10,494
1-Dec-18	\$ 25,000,000	\$ -	9.069	53.6	1.000	53.6	\$ 16,758	0.890	\$ 14,910	\$ 14,910
1-Dec-19	Various	\$ -	45.343	55.2	1.000	55.2	\$ 19,532	0.978	\$ 19,101	\$ 19,101
1-Dec-20	\$ 35,000,000	\$ -	5220.309	56.8	1.000	56.8	\$ 25,290	1.000	\$ 25,285	\$ 25,285
1-Dec-21	\$ 35,000,000	\$ -	10440.618	58.5	1.000	58.5	\$ 23,782	1.000	\$ 23,779	\$ 23,779
Total		\$ 715					\$ 215,811		\$ 107,638	\$ 108,353

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 - Unspecified Hospital / Ambulatory Care**

**Medical Malpractice - Unspecified Hospital / Ambulatory Care Experience @ 11/30/22
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred CDF	(3) Paid CDF	(4) Claim CDF	(5) Trend Factors		(6) Occupied Bed Equivalents
				Loss	Exposure	
Prior	1.000	1.000	1.000	1.860	1.000	-
1-Dec-01	1.000	1.000	1.000	1.806	1.000	-
1-Dec-02	1.000	1.000	1.000	1.754	1.000	-
1-Dec-03	1.000	1.000	1.000	1.702	1.000	-
1-Dec-04	1.000	1.000	1.000	1.653	1.000	-
1-Dec-05	1.000	1.000	1.000	1.605	1.000	-
1-Dec-06	1.000	1.000	1.000	1.558	1.000	-
1-Dec-07	1.001	1.002	1.000	1.513	1.000	-
1-Dec-08	1.004	1.006	1.000	1.469	1.000	-
1-Dec-09	1.009	1.012	1.000	1.426	1.000	399
1-Dec-10	1.019	1.024	1.000	1.384	1.000	399
1-Dec-11	1.029	1.043	1.000	1.344	1.000	399
1-Dec-12	1.040	1.074	1.000	1.305	1.000	358
1-Dec-13	1.050	1.114	1.000	1.267	1.000	358
1-Dec-14	1.060	1.198	1.000	1.230	1.000	223
1-Dec-15	1.071	1.437	1.000	1.194	1.000	220
1-Dec-16	1.093	1.785	1.000	1.159	1.000	222
1-Dec-17	1.125	3.556	1.010	1.126	1.000	281
1-Dec-18	1.210	9.069	1.025	1.093	1.000	313
1-Dec-19	1.391	45.343	1.068	1.061	1.000	354
1-Dec-20	1.808	5220.309	1.236	1.030	1.000	445
1-Dec-21	3.074	10440.618	1.652	1.000	1.000	406

Methods Included in Analysis : **Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity**
 Source Used for LDFs : **Company Exclusively**

LDF Annual Decay Rate (Incurred/f **0.75** **0.75**
 ELR for B/F Method : **60.3**
 Generalized Cape Cod Decay Factor **0.75**
 Loss Limitation : **Exhibit 10, Column (5)**
 Discount Rates : **4.13%**

Column (2) : Company Exclusively **Column (5) : Flat 3.00%**
Column (3) : Company Exclusively **Column (6) : Flat 0.00%**
Column (4) : Company Exclusively **Column (7) : supplied by Cook County, Illinois**



**Cook County, Illinois
Medical Malpractice - Unspecified Hospital / Ambulatory Care**

**Medical Malpractice - Unspecified Hospital / Ambulatory Care Experience @ 11/30/22
Limited Loss Calculations**

(1) Policy Period Inception	(2)		(3)	(4)	(5)	(6)				(7)	(8)	(9)	(10)		(11)	(12)
	Unlimited		Case O/S	Retention	Claims valued over the Retention				Incurred	No.	Paid	Limited		Case O/S		
	Incurred	Paid			No.	Incurred	No.	Paid				Incurred	Paid			
Prior	\$ 44,383,067	\$ 44,383,067	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 44,383,067	\$ 44,383,067	\$ -		
1-Dec-01	\$ 750,000	\$ 750,000	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 750,000	\$ 750,000	\$ -		
1-Dec-02	\$ 800,000	\$ 800,000	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 800,000	\$ 800,000	\$ -		
1-Dec-03	\$ -	\$ -	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
1-Dec-04	\$ -	\$ -	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
1-Dec-05	\$ -	\$ -	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
1-Dec-06	\$ -	\$ -	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
1-Dec-07	\$ -	\$ -	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
1-Dec-08	\$ -	\$ -	\$ -	\$ 20,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
1-Dec-09	\$ -	\$ -	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
1-Dec-10	\$ -	\$ -	\$ -	\$ 40,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
1-Dec-11	\$ -	\$ -	\$ -	\$ 40,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
1-Dec-12	\$ -	\$ -	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
1-Dec-13	\$ -	\$ -	\$ -	\$ 30,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
1-Dec-14	\$ 50,715	\$ 715	\$ 50,000	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 50,715	\$ 715	\$ 50,000		
1-Dec-15	\$ -	\$ -	\$ -	\$ 25,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
1-Dec-16	\$ -	\$ -	\$ -	\$ 25,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
1-Dec-17	\$ -	\$ -	\$ -	\$ 25,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
1-Dec-18	\$ -	\$ -	\$ -	\$ 25,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
1-Dec-19	\$ -	\$ -	\$ -	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
1-Dec-20	\$ -	\$ -	\$ -	\$ 35,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
1-Dec-21	\$ -	\$ -	\$ -	\$ 35,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	\$ -		
	\$ 45,983,782	\$ 45,933,782	\$ 50,000			\$ -		\$ -		\$ -		\$ 45,983,782	\$ 45,933,782	\$ 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 - Unspecified Hospital / Ambulatory Care**

**Medical Malpractice - Unspecified Hospital / Ambulatory Care Experience @ 11/30/22
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-09	399	0	1.000	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-10	399	2	1.000	2	1.000	2	0.50150%		2	2	0.50150%
1-Dec-11	399	0	1.000	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-12	358	1	1.000	1	1.000	1	0.27917%		1	1	0.27917%
1-Dec-13	358	0	1.000	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-14	223	2	1.000	2	1.000	2	0.89778%		2	2	0.89778%
1-Dec-15	220	0	1.000	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-16	222	0	1.000	0	1.000	0	0.00000%		0	0	0.00000%
1-Dec-17	281	1	1.010	1	1.000	1	0.35988%		1	1	0.35988%
1-Dec-18	313	1	1.025	1	1.000	1	0.32777%		1	1	0.32777%
1-Dec-19	354	1	1.068	1	1.000	1	0.30163%		1	1	0.30163%
1-Dec-20	445	1	1.236	1	1.000	1	0.27783%		1	1	0.27783%
1-Dec-21	406	0	1.652	0	1.000	0	0.00000%		0	0	0.00000%
Total	4,376	9		9		9	0.21341%		9	9	0.21341%

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 0

Column (10) : Selected Trended Ultimate Claims

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

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

Selected Bornhuetter-Ferguson Claim Count for Policy Period 1-Dec-21					
Weighted Averages excluding Policy Period 1-Dec-21					
Last 5 Policies	1,798			4	0.24125%
Last 3 Policies	1,205			2	0.19117%
Last 2 Policies	851			1	0.14523%
Last 12 Policies	3,970			9	0.23524%
Selected Bornhuetter-Ferguson Frequency Rate					0.11000%
Occupied Bed Equivalents for 1-Dec-21					406
Apriori Expected Count for 1-Dec-21					0



Cook County, Illinois
Medical Malpractice - Unspecified Hospital / Ambulatory Care
Medical Malpractice - Unspecified Hospital / Ambulatory Care Experience @ 11/30/22
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-09	-	-	1.469	1.000	-	399	1.000	399	0.0
1-Dec-10	-	-	1.426	1.000	-	399	1.000	399	0.0
1-Dec-11	-	-	1.384	1.000	-	399	1.000	399	0.0
1-Dec-12	-	-	1.344	1.000	-	358	1.000	358	0.0
1-Dec-13	-	-	1.305	1.000	-	358	1.000	358	0.0
1-Dec-14	50,715	52,000	1.267	1.000	65,872	223	1.000	223	295.4
1-Dec-15	-	-	1.230	1.000	-	220	1.000	220	0.0
1-Dec-16	-	5,000	1.194	1.000	5,970	222	1.000	222	26.9
1-Dec-17	-	10,000	1.159	1.000	11,593	281	1.000	281	41.3
1-Dec-18	-	15,000	1.126	1.000	16,883	313	1.000	313	53.9
1-Dec-19	-	12,000	1.093	1.000	13,113	354	1.000	354	37.0
1-Dec-20	-	18,000	1.061	1.000	19,096	445	1.000	445	42.9
1-Dec-21	-	20,000	1.030	1.000	20,600	406	1.000	406	50.7
All Year Weighted Average					3,013,955			4,377	688.6
Latest 5-Year Weighted Average					81,285			1,799	45.2
Latest 3-Year Weighted Average					52,809			1,205	43.8
SELECTED - Based on Shaded PY									60.3

Column (1) : from Exhibit 10
 Column (2) : from Exhibit 2, Column (10)
 Column (3) : Trend Indices appropriate for Medical Malpractice - Unspecified Hospital / Ambulatory Care
 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-22	35,000,000	406	0	60.3	24,000	
1-Dec-23	35,000,000	406	0	62.7	25,000	
1-Dec-24	35,000,000	406	0	65.2	26,000	

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



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

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							0
12/1/2002							0
12/1/2003							0
12/1/2004							0
12/1/2005							0
12/1/2006							0
12/1/2007							0
12/1/2008							0
12/1/2009			750,000			52	399
12/1/2010			750,000			52	399
12/1/2011			750,000			52	399
12/1/2012			620,000			58	358
12/1/2013			620,000			58	358
12/1/2014			411,102			31	223
12/1/2015			399,120			32	220
12/1/2016			334,779			46	222
12/1/2017			474,293			48	281
12/1/2018			554,569			48	313
12/1/2019			677,711			44	354
12/1/2020			922,512			40	445
12/1/2021			797,554			46	406
12/1/2022			797,554			46	406

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

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

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



**Cook County, Illinois
Medical Malpractice - Unspecified Hospital / Ambulatory Care
Projected Losses Paid 12/1/2022 to 11/30/2023**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/22	Percent Losses Paid	Months of Development 11/30/23	Percent Losses Paid	Estimated Outstanding Losses 11/30/22	Projected Losses Paid	Estimated Outstanding Losses 11/30/23	Discount Factor	Discounted Outstanding Losses 11/30/23
Prior	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	180	99.8%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	168	99.4%	180	99.8%	\$ -	\$ -	\$ -	0.980	\$ -
1-Dec-09	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.967	\$ -
1-Dec-10	144	97.6%	156	98.8%	\$ -	\$ -	\$ -	0.954	\$ -
1-Dec-11	132	95.9%	144	97.6%	\$ -	\$ -	\$ -	0.948	\$ -
1-Dec-12	120	93.1%	132	95.9%	\$ -	\$ -	\$ -	0.940	\$ -
1-Dec-13	108	89.8%	120	93.1%	\$ -	\$ -	\$ -	0.934	\$ -
1-Dec-14	96	83.5%	108	89.8%	\$ 51,285	\$ 19,452	\$ 31,833	0.924	\$ 29,419
1-Dec-15	84	69.6%	96	83.5%	\$ -	\$ -	\$ -	0.923	\$ -
1-Dec-16	72	56.0%	84	69.6%	\$ 5,000	\$ 1,081	\$ 3,919	0.929	\$ 3,641
1-Dec-17	60	28.1%	72	56.0%	\$ 10,000	\$ 2,394	\$ 7,606	0.919	\$ 6,991
1-Dec-18	48	11.0%	60	28.1%	\$ 15,000	\$ 2,882	\$ 12,118	0.920	\$ 11,155
1-Dec-19	36	2.2%	48	11.0%	\$ 12,000	\$ 1,082	\$ 10,918	0.902	\$ 9,852
1-Dec-20	24	0.0%	36	2.2%	\$ 18,000	\$ 394	\$ 17,606	0.877	\$ 15,438
1-Dec-21	12	0.0%	24	0.0%	\$ 20,000	\$ 2	\$ 19,998	0.845	\$ 16,900
1-Dec-22	0	0.0%	12	0.0%	\$ 24,000	\$ 2	\$ 23,998	0.812	\$ 19,476
Total					\$ 155,285	\$ 27,289	\$ 127,996		\$ 112,873

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 4.13% Interest Rate
 Column (10): Column (8) x Column (9)



**Cook County, Illinois
Medical Malpractice - Unspecified Hospital / Ambulatory Care
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%	\$ -	\$ -	\$ -	0.980	\$ -
1-Dec-10	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.967	\$ -
1-Dec-11	144	97.6%	156	98.8%	\$ -	\$ -	\$ -	0.954	\$ -
1-Dec-12	132	95.9%	144	97.6%	\$ -	\$ -	\$ -	0.948	\$ -
1-Dec-13	120	93.1%	132	95.9%	\$ -	\$ -	\$ -	0.940	\$ -
1-Dec-14	108	89.8%	120	93.1%	\$ 31,833	\$ 10,455	\$ 21,378	0.934	\$ 19,965
1-Dec-15	96	83.5%	108	89.8%	\$ -	\$ -	\$ -	0.924	\$ -
1-Dec-16	84	69.6%	96	83.5%	\$ 3,919	\$ 551	\$ 3,368	0.923	\$ 3,107
1-Dec-17	72	56.0%	84	69.6%	\$ 7,606	\$ 1,644	\$ 5,962	0.929	\$ 5,538
1-Dec-18	60	28.1%	72	56.0%	\$ 12,118	\$ 4,706	\$ 7,413	0.919	\$ 6,814
1-Dec-19	48	11.0%	60	28.1%	\$ 10,918	\$ 2,097	\$ 8,820	0.920	\$ 8,119
1-Dec-20	36	2.2%	48	11.0%	\$ 17,606	\$ 1,588	\$ 16,018	0.902	\$ 14,455
1-Dec-21	24	0.0%	36	2.2%	\$ 19,998	\$ 437	\$ 19,561	0.877	\$ 17,152
1-Dec-22	12	0.0%	24	0.0%	\$ 23,998	\$ 2	\$ 23,995	0.845	\$ 20,278
1-Dec-23	0	0.0%	12	0.0%	\$ 25,000	\$ 2	\$ 24,998	0.812	\$ 20,288
Total					\$ 152,996	\$ 21,484	\$ 131,512		\$ 115,716

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 4.13% Interest Rate
 Column (10): Column (8) x Column (9)



**Cook County, Illinois
 Medical Malpractice - Unspecified Hospital / Ambulatory Care
 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%	\$ -	\$ -	\$ -	0.980	\$ -
1-Dec-11	156	98.8%	168	99.4%	\$ -	\$ -	\$ -	0.967	\$ -
1-Dec-12	144	97.6%	156	98.8%	\$ -	\$ -	\$ -	0.954	\$ -
1-Dec-13	132	95.9%	144	97.6%	\$ -	\$ -	\$ -	0.948	\$ -
1-Dec-14	120	93.1%	132	95.9%	\$ 21,378	\$ 8,678	\$ 12,700	0.940	\$ 11,934
1-Dec-15	108	89.8%	120	93.1%	\$ -	\$ -	\$ -	0.934	\$ -
1-Dec-16	96	83.5%	108	89.8%	\$ 3,368	\$ 557	\$ 2,811	0.924	\$ 2,598
1-Dec-17	84	69.6%	96	83.5%	\$ 5,962	\$ 838	\$ 5,123	0.923	\$ 4,726
1-Dec-18	72	56.0%	84	69.6%	\$ 7,413	\$ 1,669	\$ 5,744	0.929	\$ 5,336
1-Dec-19	60	28.1%	72	56.0%	\$ 8,820	\$ 3,425	\$ 5,395	0.919	\$ 4,959
1-Dec-20	48	11.0%	60	28.1%	\$ 16,018	\$ 3,077	\$ 12,941	0.920	\$ 11,912
1-Dec-21	36	2.2%	48	11.0%	\$ 19,561	\$ 1,765	\$ 17,796	0.902	\$ 16,060
1-Dec-22	24	0.0%	36	2.2%	\$ 23,995	\$ 525	\$ 23,471	0.877	\$ 20,580
1-Dec-23	12	0.0%	24	0.0%	\$ 24,998	\$ 2	\$ 24,995	0.845	\$ 21,123
1-Dec-24	0	0.0%	12	0.0%	\$ 26,000	\$ 2	\$ 25,998	0.812	\$ 21,099
Total					\$ 157,512	\$ 20,538	\$ 136,974		\$ 120,329

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 4.13% Interest Rate
 Column (10): Column (8) x Column (9)



Cook County, Illinois
Medical Malpractice - Unspecified Hospital / Ambulatory Care
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	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 (Cermak, Provident, Stroger)
Occurrence
Indemnity and Expense
Incurred Development Triangle
Data Limited to Retentions (000s)
As of 11/30/2022

Table with columns for Policy Year and Age in Months (12 to 264). Rows include data for years from 12/1/2001 to 12/1/2021.

Table with columns for Policy Year and Age-to-Age (12-24 to 264-Ult). Rows include data for years from 12/1/2001 to 12/1/2021.

Table with columns for Policy Year and Averages (12-24 to 264-Ult). Rows include All Year Average, 3 Yr Average, 5 Yr Average, 3 Yr Wid Average, 5 Yr Wid 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.

Table with columns for Policy Year and Tail Factor Calculation (12-24 to 264-Ult). Rows include Inverse Power Curve Fit, Exponential Curve Fit, Weibull Curve Fit, Manual Entry, Selected Tail Method, Final Link Ratio, Final CDF, and Tail.

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 Limited to Retentions
 As of 11/30/2022

		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		
Prior																				520	530	520	520		
12/1/2001																118	118	118	118	118	118	118	118		
12/1/2002															111	111	111	111	111	111	111	111			
12/1/2003														161	161	161	161	161	161	161	161	161			
12/1/2004											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			
12/1/2006											72	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	51			
12/1/2010									59	59	60	60	60	60	60	60	60	60	60	60	60	60			
12/1/2011									56	57	57	59	59	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	65			
12/1/2013									41	42	42	42	42	42	42	42	42	42	42	42	42	42			
12/1/2014									41	42	42	42	42	42	42	42	42	42	42	42	42	42			
12/1/2015									35	35	35	35	35	35	35	35	35	35	35	35	35	35			
12/1/2016									12	19	25	26	24	24	24	24	24	24	24	24	24	24			
12/1/2017									28	34	39	42	42	42	42	42	42	42	42	42	42	42			
12/1/2018									29	38	44	45	45	45	45	45	45	45	45	45	45	45			
12/1/2019									15	22	27	27	27	27	27	27	27	27	27	27	27	27			
12/1/2020									16	18	18	18	18	18	18	18	18	18	18	18	18	18			
12/1/2021									18	18	18	18	18	18	18	18	18	18	18	18	18	18			

		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-Ult		
Prior																									
12/1/2001																									
12/1/2002																									
12/1/2003																									
12/1/2004																									
12/1/2005																									
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12/1/2016																									
12/1/2017																									
12/1/2018																									
12/1/2019																									
12/1/2020																									
12/1/2021																									

		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-Ult		
All Year Average		1.336	1.217	1.045	1.000	1.003	1.003	1.003	1.006	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		
3 Yr Average		1.301	1.177	1.047	0.980	1.006	1.000	1.000	1.012	1.000	1.000	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
5 Yr Average		1.340	1.200	1.049	0.957	1.004	1.004	1.003	1.007	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		
3 Yr Wid Average		1.300	1.170	1.046	0.992	1.008	1.000	1.000	1.012	1.000	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
5 Yr Wid Average		1.310	1.182	1.049	1.005	1.004	1.004	1.004	1.007	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		
Avg X Hi-Lo (3yr X 2)		1.310	1.158	1.040	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
Avg X Hi-Lo (5yr X 2)		1.330	1.179	1.048	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		
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		
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	1.001	1.001	1.001	1.001	1.001	1.002		
Initial Selected		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		

		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-Ult		
Inverse Power Curve Fit																									
Exponential Curve Fit																									
Weibull Curve Fit																									
Manual Entry																									
Selected Tail Method:	Manual Entry																								
Final Link Ratio		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		
Final CDF		1.652	1.236	1.068	1.025	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		

Industry Factor Source: AM Bests Med Mal Occ



**Cook County, Illinois
Workers Compensation - General Government (Indemnity) Experience @ 11/30/22
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	13	88,727,008	86,018,172	2,708,837	1,272,992	3,981,828	90,000,000	
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	8,393,227	8,304,800	88,427	23,773	112,200	8,417,000	1.08
1-Dec-03	8,101,821	Various	1,218	3	9,786,065	8,627,405	1,158,659	207,935	1,366,595	9,994,000	1.23
1-Dec-04	8,323,626	Unlimited	1,318	3	9,477,313	9,060,593	416,720	92,687	509,407	9,570,000	1.15
1-Dec-05	8,264,792	Unlimited	1,159	1	9,622,347	9,188,489	433,858	86,653	520,511	9,709,000	1.17
1-Dec-06	8,599,062	Unlimited	903	2	14,222,714	12,342,850	1,879,864	487,286	2,367,150	14,710,000	1.71
1-Dec-07	9,142,601	Unlimited	777	3	18,373,033	17,914,227	458,807	256,967	715,773	18,630,000	2.04
1-Dec-08	9,427,068	Unlimited	767	2	14,775,302	14,428,303	347,000	269,698	616,697	15,045,000	1.60
1-Dec-09	9,982,498	Unlimited	862	7	14,443,706	13,352,938	1,090,767	296,294	1,387,062	14,740,000	1.48
1-Dec-10	9,280,825	Unlimited	789	10	13,262,051	11,006,322	2,255,729	537,949	2,793,678	13,800,000	1.49
1-Dec-11	8,990,821	Unlimited	783	7	13,394,012	13,095,809	298,203	605,988	904,191	14,000,000	1.56
1-Dec-12	9,493,384	Unlimited	720	11	12,937,534	10,971,580	1,965,954	462,466	2,428,420	13,400,000	1.41
1-Dec-13	9,880,811	Unlimited	760	27	16,458,666	14,054,200	2,404,466	541,334	2,945,800	17,000,000	1.72
1-Dec-14	9,985,665	Unlimited	778	37	18,261,649	16,125,642	2,136,008	1,438,351	3,574,358	19,700,000	1.97
1-Dec-15	10,539,306	Unlimited	1,108	55	26,400,899	22,382,390	4,018,509	2,399,101	6,417,610	28,800,000	2.73
1-Dec-16	10,752,478	Unlimited	1,239	71	28,714,891	22,278,026	6,436,865	3,985,109	10,421,974	32,700,000	3.04
1-Dec-17	10,065,463	Unlimited	1,086	104	30,742,207	23,585,813	7,156,395	3,257,793	10,414,187	34,000,000	3.38
1-Dec-18	10,381,614	Unlimited	1,038	129	27,075,774	20,572,953	6,502,821	6,924,226	13,427,047	34,000,000	3.28
1-Dec-19	10,539,188	Unlimited	1,210	288	41,015,717	21,461,741	19,553,975	13,984,283	33,538,259	55,000,000	5.22
1-Dec-20	10,216,926	Unlimited	1,190	313	29,783,184	13,947,743	15,835,440	17,116,816	32,952,257	46,900,000	4.59
1-Dec-21	10,654,358	Unlimited	1,262	636	29,220,576	7,110,181	22,110,395	30,779,424	52,889,819	60,000,000	5.63
Total	197,937,865		38,836	1,724	483,719,767	384,462,070	99,257,698	85,027,125	184,284,822	568,746,892	2.42

Full Policy Period Projections

1-Dec-22	11,616,907	Unlimited								53,200,000	4.58
1-Dec-23	11,936,302	Unlimited								55,600,000	4.66



**Cook County, Illinois
Workers Compensation - General Government (Indemnity)**

**Workers Compensation - General Government (Indemnity) Experience @ 11/30/22
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	\$ 89,213,882	\$ 87,108,856	\$ 90,819,880	N/A	N/A	N/A	N/A	\$ 89,213,882	\$ 90,000,000
1-Dec-01	\$ 8,696,322	\$ 8,753,503	\$ 8,631,892	\$ 8,826,552	\$ 8,996,913	\$ 8,701,103	\$ 8,756,421	\$ 8,696,322	\$ 8,631,892
1-Dec-02	\$ 8,472,500	\$ 8,446,642	\$ 8,504,489	\$ 8,651,472	\$ 8,768,288	\$ 8,485,837	\$ 8,463,389	\$ 8,472,500	\$ 8,417,000
1-Dec-03	\$ 9,909,737	\$ 8,812,423	\$ 11,484,173	\$ 10,151,278	\$ 9,241,813	\$ 9,920,005	\$ 8,840,623	\$ 9,909,737	\$ 9,994,000
1-Dec-04	\$ 9,625,874	\$ 9,291,920	\$ 10,157,027	\$ 9,946,940	\$ 9,818,139	\$ 9,654,137	\$ 9,330,300	\$ 9,625,874	\$ 9,570,000
1-Dec-05	\$ 9,802,500	\$ 9,460,773	\$ 10,388,889	\$ 10,185,715	\$ 10,070,720	\$ 9,842,777	\$ 9,514,242	\$ 9,802,500	\$ 9,709,000
1-Dec-06	\$ 14,532,462	\$ 12,772,148	\$ 17,480,845	\$ 14,912,407	\$ 13,430,480	\$ 14,506,618	\$ 12,764,126	\$ 14,532,462	\$ 14,710,000
1-Dec-07	\$ 18,829,488	\$ 18,722,673	\$ 18,960,307	\$ 19,221,237	\$ 19,425,089	\$ 18,735,692	\$ 18,524,648	\$ 18,829,488	\$ 18,630,000
1-Dec-08	\$ 15,187,802	\$ 15,247,777	\$ 15,129,820	\$ 15,765,403	\$ 16,387,507	\$ 15,203,625	\$ 15,227,322	\$ 15,187,802	\$ 15,045,000
1-Dec-09	\$ 14,891,487	\$ 14,280,669	\$ 15,383,655	\$ 15,603,319	\$ 15,858,229	\$ 14,952,952	\$ 14,381,787	\$ 14,891,487	\$ 14,740,000
1-Dec-10	\$ 13,741,564	\$ 11,945,989	\$ 15,060,626	\$ 14,456,365	\$ 13,698,515	\$ 13,800,791	\$ 12,130,794	\$ 13,741,564	\$ 13,800,000
1-Dec-11	\$ 14,003,198	\$ 14,412,856	\$ 13,664,976	\$ 14,864,806	\$ 16,185,255	\$ 14,082,416	\$ 14,428,788	\$ 14,003,198	\$ 14,000,000
1-Dec-12	\$ 13,647,690	\$ 12,256,115	\$ 14,875,997	\$ 14,828,863	\$ 14,781,061	\$ 13,865,401	\$ 12,673,325	\$ 13,647,690	\$ 13,400,000
1-Dec-13	\$ 17,630,787	\$ 16,092,127	\$ 19,115,799	\$ 19,029,097	\$ 18,950,640	\$ 17,808,174	\$ 16,373,037	\$ 17,630,787	\$ 17,000,000
1-Dec-14	\$ 19,855,598	\$ 19,202,482	\$ 20,406,278	\$ 21,457,899	\$ 22,505,292	\$ 20,079,063	\$ 19,372,783	\$ 19,855,598	\$ 19,700,000
1-Dec-15	\$ 29,422,892	\$ 27,881,397	\$ 30,767,576	\$ 30,810,658	\$ 30,850,306	\$ 29,149,077	\$ 27,055,812	\$ 29,419,675	\$ 28,800,000
1-Dec-16	\$ 33,121,798	\$ 30,225,379	\$ 35,308,692	\$ 34,650,131	\$ 34,007,245	\$ 32,741,157	\$ 29,221,280	\$ 33,112,892	\$ 32,700,000
1-Dec-17	\$ 37,489,416	\$ 35,519,622	\$ 38,998,418	\$ 38,421,451	\$ 37,921,343	\$ 36,395,118	\$ 32,645,472	\$ 37,472,052	\$ 34,000,000
1-Dec-18	\$ 35,468,377	\$ 34,825,403	\$ 35,989,004	\$ 37,694,479	\$ 38,938,741	\$ 35,485,406	\$ 32,750,300	\$ 35,465,751	\$ 34,000,000
1-Dec-19	\$ 59,864,636	\$ 44,416,849	\$ 71,501,924	\$ 55,610,381	\$ 45,417,481	\$ 53,623,630	\$ 38,066,482	\$ 59,761,244	\$ 55,000,000
1-Dec-20	\$ 52,598,791	\$ 39,807,383	\$ 61,605,331	\$ 49,510,522	\$ 43,491,864	\$ 47,781,286	\$ 34,881,018	\$ 52,566,174	\$ 46,900,000
1-Dec-21	\$ 83,832,785	\$ 47,671,598	\$ 101,452,363	\$ 60,566,000	\$ 48,050,546	\$ 59,227,606	\$ 36,474,192	\$ 82,942,848	\$ 60,000,000
Total	\$ 609,839,584	\$ 527,154,584	\$ 665,687,962	\$ 505,164,976	\$ 476,795,464	\$ 484,041,871	\$ 411,876,140	\$ 608,781,525	\$ 568,746,892

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 @ 11/30/22
Unpaid Liabilities at Various Discount Rates
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.13%
Prior	264	Various	\$ 90,000,000	\$ 88,727,008	\$ 86,018,172	\$ 2,708,837	\$ 1,272,992	\$ 3,981,828	\$ 3,485,007
1-Dec-01	252	\$ 9,500,000	\$ 8,631,892	\$ 8,631,892	\$ 8,631,892	\$ -	\$ -	\$ -	\$ -
1-Dec-02	240	\$ 9,500,000	\$ 8,417,000	\$ 8,393,227	\$ 8,304,800	\$ 88,427	\$ 23,773	\$ 112,200	\$ 95,141
1-Dec-03	228	Various	\$ 9,994,000	\$ 9,786,065	\$ 8,627,405	\$ 1,158,659	\$ 207,935	\$ 1,366,595	\$ 1,155,084
1-Dec-04	216	Unlimited	\$ 9,570,000	\$ 9,477,313	\$ 9,060,593	\$ 416,720	\$ 92,687	\$ 509,407	\$ 426,919
1-Dec-05	204	Unlimited	\$ 9,709,000	\$ 9,622,347	\$ 9,188,489	\$ 433,858	\$ 86,653	\$ 520,511	\$ 431,230
1-Dec-06	192	Unlimited	\$ 14,710,000	\$ 14,222,714	\$ 12,342,850	\$ 1,879,864	\$ 487,286	\$ 2,367,150	\$ 1,946,082
1-Dec-07	180	Unlimited	\$ 18,630,000	\$ 18,373,033	\$ 17,914,227	\$ 458,807	\$ 256,967	\$ 715,773	\$ 595,322
1-Dec-08	168	Unlimited	\$ 15,045,000	\$ 14,775,302	\$ 14,428,303	\$ 347,000	\$ 269,698	\$ 616,697	\$ 514,546
1-Dec-09	156	Unlimited	\$ 14,740,000	\$ 14,443,706	\$ 13,352,938	\$ 1,090,767	\$ 296,294	\$ 1,387,062	\$ 1,154,218
1-Dec-10	144	Unlimited	\$ 13,800,000	\$ 13,262,051	\$ 11,006,322	\$ 2,255,729	\$ 537,949	\$ 2,793,678	\$ 2,320,473
1-Dec-11	132	Unlimited	\$ 14,000,000	\$ 13,394,012	\$ 13,095,809	\$ 298,203	\$ 605,988	\$ 904,191	\$ 744,194
1-Dec-12	120	Unlimited	\$ 13,400,000	\$ 12,937,534	\$ 10,971,580	\$ 1,965,954	\$ 462,466	\$ 2,428,420	\$ 1,978,416
1-Dec-13	108	Unlimited	\$ 17,000,000	\$ 16,458,666	\$ 14,054,200	\$ 2,404,466	\$ 541,334	\$ 2,945,800	\$ 2,405,089
1-Dec-14	96	Unlimited	\$ 19,700,000	\$ 18,261,649	\$ 16,125,642	\$ 2,136,008	\$ 1,438,351	\$ 3,574,358	\$ 2,949,325
1-Dec-15	84	Unlimited	\$ 28,800,000	\$ 26,400,899	\$ 22,382,390	\$ 4,018,509	\$ 2,399,101	\$ 6,417,610	\$ 5,311,163
1-Dec-16	72	Unlimited	\$ 32,700,000	\$ 28,714,891	\$ 22,278,026	\$ 6,436,865	\$ 3,985,109	\$ 10,421,974	\$ 8,765,406
1-Dec-17	60	Unlimited	\$ 34,000,000	\$ 30,742,207	\$ 23,585,813	\$ 7,156,395	\$ 3,257,793	\$ 10,414,187	\$ 8,801,508
1-Dec-18	48	Unlimited	\$ 34,000,000	\$ 27,075,774	\$ 20,572,953	\$ 6,502,821	\$ 6,924,226	\$ 13,427,047	\$ 11,302,453
1-Dec-19	36	Unlimited	\$ 55,000,000	\$ 41,015,717	\$ 21,461,741	\$ 19,553,975	\$ 13,984,283	\$ 33,538,259	\$ 28,309,364
1-Dec-20	24	Unlimited	\$ 46,900,000	\$ 29,783,184	\$ 13,947,743	\$ 15,835,440	\$ 17,116,816	\$ 32,952,257	\$ 27,852,451
1-Dec-21	12	Unlimited	\$ 60,000,000	\$ 29,220,576	\$ 7,110,181	\$ 22,110,395	\$ 30,779,424	\$ 52,889,819	\$ 45,036,025
Total			\$ 568,746,892	\$ 483,719,767	\$ 384,462,070	\$ 99,257,698	\$ 85,027,125	\$ 184,284,822	\$ 155,579,420

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 (10) : Column (9) discounted



**Cook County, Illinois
Workers Compensation - General Government (Indemnity)**

**Workers Compensation - General Government (Indemnity) Experience @ 11/30/22
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	264	\$ 88,727,008	1.005	\$ 89,213,882	\$ 86,018,172	1.013	\$ 87,108,856	\$ 2,708,837	1.773	\$ 90,819,880																		
1-Dec-01	252	\$ 8,631,892	1.007	\$ 8,696,322	\$ 8,631,892	1.014	\$ 8,753,503	\$ -	2.143	\$ 8,631,892																		
1-Dec-02	240	\$ 8,393,227	1.009	\$ 8,472,500	\$ 8,304,800	1.017	\$ 8,446,642	\$ 88,427	2.258	\$ 8,504,489																		
1-Dec-03	228	\$ 9,786,065	1.013	\$ 9,909,737	\$ 8,627,405	1.021	\$ 8,812,423	\$ 1,158,659	2.466	\$ 11,484,173																		
1-Dec-04	216	\$ 9,477,313	1.016	\$ 9,625,874	\$ 9,060,593	1.026	\$ 9,291,920	\$ 416,720	2.631	\$ 10,157,027																		
1-Dec-05	204	\$ 9,622,347	1.019	\$ 9,802,500	\$ 9,188,489	1.030	\$ 9,460,773	\$ 433,858	2.767	\$ 10,388,889																		
1-Dec-06	192	\$ 14,222,714	1.022	\$ 14,532,462	\$ 12,342,850	1.035	\$ 12,772,148	\$ 1,879,864	2.733	\$ 17,480,845																		
1-Dec-07	180	\$ 18,373,033	1.025	\$ 18,829,488	\$ 17,914,227	1.045	\$ 18,722,673	\$ 458,807	2.280	\$ 18,960,307																		
1-Dec-08	168	\$ 14,775,302	1.028	\$ 15,187,802	\$ 14,428,303	1.057	\$ 15,247,777	\$ 347,000	2.022	\$ 15,129,820																		
1-Dec-09	156	\$ 14,443,706	1.031	\$ 14,891,487	\$ 13,352,938	1.069	\$ 14,280,669	\$ 1,090,767	1.862	\$ 15,383,655																		
1-Dec-10	144	\$ 13,262,051	1.036	\$ 13,741,564	\$ 11,006,322	1.085	\$ 11,945,989	\$ 2,255,729	1.797	\$ 15,060,626																		
1-Dec-11	132	\$ 13,394,012	1.045	\$ 14,003,198	\$ 13,095,809	1.101	\$ 14,412,856	\$ 298,203	1.909	\$ 13,664,976																		
1-Dec-12	120	\$ 12,937,534	1.055	\$ 13,647,690	\$ 10,971,580	1.117	\$ 12,256,115	\$ 1,965,954	1.986	\$ 14,875,997																		
1-Dec-13	108	\$ 16,458,666	1.071	\$ 17,630,787	\$ 14,054,200	1.145	\$ 16,092,127	\$ 2,404,466	2.105	\$ 19,115,799																		
1-Dec-14	96	\$ 18,261,649	1.087	\$ 19,855,598	\$ 16,125,642	1.191	\$ 19,202,482	\$ 2,136,008	2.004	\$ 20,406,278																		
1-Dec-15	84	\$ 26,400,899	1.114	\$ 29,422,892	\$ 22,382,390	1.246	\$ 27,881,397	\$ 4,018,509	2.087	\$ 30,767,576																		
1-Dec-16	72	\$ 28,714,891	1.153	\$ 33,121,798	\$ 22,278,026	1.357	\$ 30,225,379	\$ 6,436,865	2.024	\$ 35,308,692																		
1-Dec-17	60	\$ 30,742,207	1.219	\$ 37,489,416	\$ 23,585,813	1.506	\$ 35,519,622	\$ 7,156,395	2.154	\$ 38,998,418																		
1-Dec-18	48	\$ 27,075,774	1.310	\$ 35,468,377	\$ 20,572,953	1.693	\$ 34,825,403	\$ 6,502,821	2.371	\$ 35,989,004																		
1-Dec-19	36	\$ 41,015,717	1.460	\$ 59,864,636	\$ 21,461,741	2.070	\$ 44,416,849	\$ 19,553,975	2.559	\$ 71,501,924																		
1-Dec-20	24	\$ 29,783,184	1.766	\$ 52,598,791	\$ 13,947,743	2.854	\$ 39,807,383	\$ 15,835,440	3.010	\$ 61,605,331																		
1-Dec-21	12	\$ 29,220,576	2.869	\$ 83,832,785	\$ 7,110,181	6.705	\$ 47,671,598	\$ 22,110,395	4.267	\$ 101,452,363																		
Total		\$ 483,719,767		\$ 609,839,584	\$ 384,462,070		\$ 527,154,584	\$ 99,257,698		\$ 665,687,962																		

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 @ 11/30/22
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	252	\$ 8,631,892	2.330	1.003	\$ 20,163,978	13,590,219	1.007	1.61	\$ 9,341,665	\$ 8,701,103
1-Dec-02	240	\$ 8,393,227	2.230	1.003	\$ 18,762,163	13,661,538	1.009	1.62	\$ 9,897,938	\$ 8,485,837
1-Dec-03	228	\$ 9,786,065	2.134	1.000	\$ 20,881,017	13,826,449	1.013	1.66	\$ 10,732,518	\$ 9,920,005
1-Dec-04	216	\$ 9,477,313	2.042	1.000	\$ 19,351,405	13,757,685	1.016	1.70	\$ 11,457,180	\$ 9,654,137
1-Dec-05	204	\$ 9,622,347	1.954	1.000	\$ 18,801,478	13,262,565	1.019	1.77	\$ 11,994,063	\$ 9,842,777
1-Dec-06	192	\$ 14,222,714	1.870	1.000	\$ 26,593,601	13,397,059	1.022	1.86	\$ 13,319,925	\$ 14,506,618
1-Dec-07	180	\$ 18,373,033	1.789	1.000	\$ 32,874,507	13,862,734	1.025	1.93	\$ 14,960,257	\$ 18,735,692
1-Dec-08	168	\$ 14,775,302	1.715	1.000	\$ 25,340,614	13,843,967	1.028	1.95	\$ 15,770,406	\$ 15,203,625
1-Dec-09	156	\$ 14,443,706	1.667	1.000	\$ 24,074,134	14,232,655	1.031	1.98	\$ 16,935,563	\$ 14,952,952
1-Dec-10	144	\$ 13,262,051	1.695	1.000	\$ 22,481,411	12,846,832	1.036	2.04	\$ 15,438,840	\$ 13,800,791
1-Dec-11	132	\$ 13,394,012	1.618	1.000	\$ 21,671,153	12,112,382	1.045	2.11	\$ 15,824,154	\$ 14,082,416
1-Dec-12	120	\$ 12,937,534	1.539	1.000	\$ 19,911,587	12,386,713	1.055	2.22	\$ 17,831,641	\$ 13,865,401
1-Dec-13	108	\$ 16,458,666	1.462	1.000	\$ 24,063,055	12,516,715	1.071	2.37	\$ 20,299,015	\$ 17,808,174
1-Dec-14	96	\$ 18,261,649	1.393	1.000	\$ 25,438,960	12,281,109	1.087	2.57	\$ 22,639,272	\$ 20,079,063
1-Dec-15	84	\$ 26,400,899	1.327	1.000	\$ 35,032,916	12,615,177	1.114	2.81	\$ 26,756,957	\$ 29,149,077
1-Dec-16	72	\$ 28,714,891	1.262	1.000	\$ 36,237,194	12,465,069	1.153	3.06	\$ 30,260,948	\$ 32,741,157
1-Dec-17	60	\$ 30,742,207	1.199	1.000	\$ 36,862,579	11,328,767	1.219	3.32	\$ 31,409,184	\$ 36,395,118
1-Dec-18	48	\$ 27,075,774	1.142	1.000	\$ 30,910,946	11,344,270	1.310	3.58	\$ 35,540,342	\$ 35,485,406
1-Dec-19	36	\$ 41,015,717	1.092	1.000	\$ 44,790,188	11,208,295	1.460	3.90	\$ 40,043,046	\$ 53,623,630
1-Dec-20	24	\$ 29,783,184	1.045	1.000	\$ 31,123,427	10,523,434	1.766	4.12	\$ 41,492,581	\$ 47,781,286
1-Dec-21	12	\$ 29,220,576	1.000	1.000	\$ 29,220,576	10,654,358	2.869	4.32	\$ 46,062,464	\$ 59,227,606
Total		\$ 394,992,759			\$ 564,586,889	265,717,990			\$ 458,007,959	\$ 484,041,871

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	252	\$ 8,631,892	2.330	1.003	\$ 20,163,978	13,590,219	1.014	1.54	\$ 8,963,549	\$ 8,756,421
1-Dec-02	240	\$ 8,304,800	2.230	1.003	\$ 18,564,493	13,661,538	1.017	1.55	\$ 9,443,872	\$ 8,463,389
1-Dec-03	228	\$ 8,627,405	2.134	1.000	\$ 18,408,727	13,826,449	1.021	1.57	\$ 10,155,600	\$ 8,840,623
1-Dec-04	216	\$ 9,060,593	2.042	1.000	\$ 18,500,518	13,757,685	1.026	1.61	\$ 10,833,573	\$ 9,330,300
1-Dec-05	204	\$ 9,188,489	1.954	1.000	\$ 17,953,747	13,262,565	1.030	1.67	\$ 11,318,621	\$ 9,514,242
1-Dec-06	192	\$ 12,342,850	1.870	1.000	\$ 23,078,635	13,397,059	1.035	1.75	\$ 12,533,492	\$ 12,764,126
1-Dec-07	180	\$ 17,914,227	1.789	1.000	\$ 32,053,574	13,862,734	1.045	1.82	\$ 14,136,647	\$ 18,524,648
1-Dec-08	168	\$ 14,428,303	1.715	1.000	\$ 24,745,487	13,843,967	1.057	1.84	\$ 14,867,172	\$ 15,227,322
1-Dec-09	156	\$ 13,352,938	1.667	1.000	\$ 22,256,091	14,232,655	1.069	1.85	\$ 15,837,203	\$ 14,381,787
1-Dec-10	144	\$ 11,006,322	1.695	1.000	\$ 18,657,570	12,846,832	1.085	1.89	\$ 14,295,408	\$ 12,130,794
1-Dec-11	132	\$ 13,095,809	1.618	1.000	\$ 21,188,668	12,112,382	1.101	1.95	\$ 14,587,206	\$ 14,428,788
1-Dec-12	120	\$ 10,971,580	1.539	1.000	\$ 16,885,874	12,386,713	1.117	2.02	\$ 16,236,836	\$ 12,673,325
1-Dec-13	108	\$ 14,054,200	1.462	1.000	\$ 20,547,655	12,516,715	1.145	2.14	\$ 18,310,288	\$ 16,373,037
1-Dec-14	96	\$ 16,125,642	1.393	1.000	\$ 22,463,445	12,281,109	1.191	2.30	\$ 20,265,324	\$ 19,372,783
1-Dec-15	84	\$ 22,382,390	1.327	1.000	\$ 29,700,519	12,615,177	1.246	2.49	\$ 23,695,465	\$ 27,055,812
1-Dec-16	72	\$ 22,278,026	1.262	1.000	\$ 28,114,095	12,465,069	1.357	2.67	\$ 26,406,588	\$ 29,221,280
1-Dec-17	60	\$ 23,585,813	1.199	1.000	\$ 28,281,440	11,328,767	1.506	2.85	\$ 26,965,042	\$ 32,645,472
1-Dec-18	48	\$ 20,572,953	1.142	1.000	\$ 23,487,027	11,344,270	1.693	2.99	\$ 29,754,955	\$ 32,750,300
1-Dec-19	36	\$ 21,461,741	1.092	1.000	\$ 23,436,758	11,208,295	2.070	3.13	\$ 32,129,243	\$ 38,066,482
1-Dec-20	24	\$ 13,947,743	1.045	1.000	\$ 14,575,392	10,523,434	2.854	3.20	\$ 32,223,917	\$ 34,881,018
1-Dec-21	12	\$ 7,110,181	1.000	1.000	\$ 7,110,181	10,654,358	6.705	3.24	\$ 34,511,351	\$ 36,474,192
Total		\$ 298,443,898			\$ 450,173,874	265,717,990			\$ 397,471,353	\$ 411,876,140

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	264	17,485	1.000	17,485	1.005	\$ 5,074	\$ 5,102	0	\$ 5,557	\$ 89,213,882
1-Dec-01	252	1,161	1.000	1,161	1.007	\$ 7,435	\$ 7,490	0	\$ 6,083	\$ 8,696,322
1-Dec-02	240	1,223	1.000	1,223	1.009	\$ 6,863	\$ 6,928	0	\$ 6,689	\$ 8,472,500
1-Dec-03	228	1,218	1.000	1,218	1.013	\$ 8,035	\$ 8,136	0	\$ 7,460	\$ 9,909,737
1-Dec-04	216	1,318	1.000	1,318	1.016	\$ 7,191	\$ 7,303	0	\$ 8,368	\$ 9,625,874
1-Dec-05	204	1,159	1.000	1,159	1.019	\$ 8,302	\$ 8,458	0	\$ 9,595	\$ 9,802,500
1-Dec-06	192	903	1.000	903	1.022	\$ 15,751	\$ 16,094	0	\$ 11,248	\$ 14,532,462
1-Dec-07	180	777	1.000	777	1.025	\$ 23,646	\$ 24,234	0	\$ 13,036	\$ 18,829,488
1-Dec-08	168	767	1.000	767	1.028	\$ 19,264	\$ 19,802	0	\$ 14,530	\$ 15,187,802
1-Dec-09	156	862	1.000	862	1.031	\$ 16,756	\$ 17,276	0	\$ 15,732	\$ 14,891,487
1-Dec-10	144	789	1.000	789	1.036	\$ 16,809	\$ 17,416	0	\$ 16,231	\$ 13,741,564
1-Dec-11	132	783	1.000	783	1.045	\$ 17,106	\$ 17,884	0	\$ 17,811	\$ 14,003,198
1-Dec-12	120	720	1.000	720	1.055	\$ 17,969	\$ 18,955	0	\$ 19,649	\$ 13,647,690
1-Dec-13	108	760	1.000	760	1.071	\$ 21,656	\$ 23,198	0	\$ 21,776	\$ 17,630,787
1-Dec-14	96	778	1.000	778	1.087	\$ 23,473	\$ 25,521	0	\$ 23,941	\$ 19,855,598
1-Dec-15	84	1,108	1.001	1,109	1.113	\$ 23,828	\$ 26,528	1	\$ 26,176	\$ 29,419,675
1-Dec-16	72	1,239	1.002	1,241	1.151	\$ 23,176	\$ 26,679	2	\$ 28,619	\$ 33,112,892
1-Dec-17	60	1,086	1.003	1,089	1.216	\$ 28,308	\$ 34,417	3	\$ 31,627	\$ 37,472,052
1-Dec-18	48	1,038	1.004	1,042	1.305	\$ 26,085	\$ 34,034	4	\$ 34,723	\$ 35,465,751
1-Dec-19	36	1,210	1.007	1,218	1.450	\$ 33,897	\$ 49,136	8	\$ 38,285	\$ 59,761,244
1-Dec-20	24	1,190	1.011	1,203	1.747	\$ 25,028	\$ 43,723	13	\$ 41,189	\$ 52,566,174
1-Dec-21	12	1,262	1.037	1,309	2.767	\$ 23,154	\$ 64,067	47	\$ 44,476	\$ 82,942,848
Total		38,836		38,914				78		\$ 608,781,525

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 @ 11/30/22
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	3.50	1.003	3.49	\$ 26,274,066	0.007	\$ 194,660	\$ 8,826,552
1-Dec-02	\$ 9,500,000	\$ 8,393,227	1.009	3.55	1.003	3.54	\$ 27,600,486	0.009	\$ 258,245	\$ 8,651,472
1-Dec-03	Various	\$ 9,786,065	1.013	3.61	1.000	3.61	\$ 29,264,300	0.012	\$ 365,214	\$ 10,151,278
1-Dec-04	Unlimited	\$ 9,477,313	1.016	3.66	1.000	3.66	\$ 30,429,101	0.015	\$ 469,626	\$ 9,946,940
1-Dec-05	Unlimited	\$ 9,622,347	1.019	3.71	1.000	3.71	\$ 30,654,029	0.018	\$ 563,368	\$ 10,185,715
1-Dec-06	Unlimited	\$ 14,222,714	1.022	3.76	1.000	3.76	\$ 32,358,309	0.021	\$ 689,693	\$ 14,912,407
1-Dec-07	Unlimited	\$ 18,373,033	1.025	3.83	1.000	3.83	\$ 34,989,805	0.024	\$ 848,204	\$ 19,221,237
1-Dec-08	Unlimited	\$ 14,775,302	1.028	3.87	1.000	3.87	\$ 36,454,474	0.027	\$ 990,101	\$ 15,765,403
1-Dec-09	Unlimited	\$ 14,443,706	1.031	3.86	1.000	3.86	\$ 38,564,250	0.030	\$ 1,159,613	\$ 15,603,319
1-Dec-10	Unlimited	\$ 13,262,051	1.036	3.69	1.000	3.69	\$ 34,225,847	0.035	\$ 1,194,313	\$ 14,456,365
1-Dec-11	Unlimited	\$ 13,394,012	1.045	3.76	1.000	3.76	\$ 33,808,761	0.044	\$ 1,470,794	\$ 14,864,806
1-Dec-12	Unlimited	\$ 12,937,534	1.055	3.83	1.000	3.83	\$ 36,347,349	0.052	\$ 1,891,329	\$ 14,828,863
1-Dec-13	Unlimited	\$ 16,458,666	1.071	3.91	1.000	3.91	\$ 38,663,866	0.066	\$ 2,570,431	\$ 19,029,097
1-Dec-14	Unlimited	\$ 18,261,649	1.087	3.99	1.000	3.99	\$ 39,815,232	0.080	\$ 3,196,249	\$ 21,457,899
1-Dec-15	Unlimited	\$ 26,400,899	1.114	4.07	1.000	4.07	\$ 42,934,538	0.103	\$ 4,409,759	\$ 30,810,658
1-Dec-16	Unlimited	\$ 28,714,891	1.153	4.15	1.000	4.15	\$ 44,608,575	0.133	\$ 5,935,240	\$ 34,650,131
1-Dec-17	Unlimited	\$ 30,742,207	1.219	4.24	1.000	4.24	\$ 42,668,070	0.180	\$ 7,679,244	\$ 38,421,451
1-Dec-18	Unlimited	\$ 27,075,774	1.310	4.32	1.000	4.32	\$ 44,876,211	0.237	\$ 10,618,705	\$ 37,694,479
1-Dec-19	Unlimited	\$ 41,015,717	1.460	4.40	1.000	4.40	\$ 46,353,016	0.315	\$ 14,594,664	\$ 55,610,381
1-Dec-20	Unlimited	\$ 29,783,184	1.766	4.45	1.000	4.45	\$ 45,479,139	0.434	\$ 19,727,339	\$ 49,510,522
1-Dec-21	Unlimited	\$ 29,220,576	2.869	4.52	1.000	4.52	\$ 48,116,973	0.651	\$ 31,345,424	\$ 60,566,000
Total		\$ 394,992,759					\$ 784,486,397		\$ 110,172,217	\$ 505,164,976

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 @ 11/30/22
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	1.014	3.50	1.003	3.49	\$ 26,274,066	0.014	\$ 365,021	\$ 8,996,913
1-Dec-02	\$ 9,500,000	\$ 8,304,800	1.017	3.55	1.003	3.54	\$ 27,600,486	0.017	\$ 463,488	\$ 8,768,288
1-Dec-03	Various	\$ 8,627,405	1.021	3.61	1.000	3.61	\$ 29,264,300	0.021	\$ 614,407	\$ 9,241,813
1-Dec-04	Unlimited	\$ 9,060,593	1.026	3.66	1.000	3.66	\$ 30,429,101	0.025	\$ 757,546	\$ 9,818,139
1-Dec-05	Unlimited	\$ 9,188,489	1.030	3.71	1.000	3.71	\$ 30,654,029	0.029	\$ 882,230	\$ 10,070,720
1-Dec-06	Unlimited	\$ 12,342,850	1.035	3.76	1.000	3.76	\$ 32,358,309	0.034	\$ 1,087,630	\$ 13,430,480
1-Dec-07	Unlimited	\$ 17,914,227	1.045	3.83	1.000	3.83	\$ 34,989,805	0.043	\$ 1,510,862	\$ 19,425,089
1-Dec-08	Unlimited	\$ 14,428,303	1.057	3.87	1.000	3.87	\$ 36,454,474	0.054	\$ 1,959,204	\$ 16,387,507
1-Dec-09	Unlimited	\$ 13,352,938	1.069	3.86	1.000	3.86	\$ 38,564,250	0.065	\$ 2,505,291	\$ 15,858,229
1-Dec-10	Unlimited	\$ 11,006,322	1.085	3.69	1.000	3.69	\$ 34,225,847	0.079	\$ 2,692,192	\$ 13,698,515
1-Dec-11	Unlimited	\$ 13,095,809	1.101	3.76	1.000	3.76	\$ 33,808,761	0.091	\$ 3,089,446	\$ 16,185,255
1-Dec-12	Unlimited	\$ 10,971,580	1.117	3.83	1.000	3.83	\$ 36,347,349	0.105	\$ 3,809,481	\$ 14,781,061
1-Dec-13	Unlimited	\$ 14,054,200	1.145	3.91	1.000	3.91	\$ 38,663,866	0.127	\$ 4,896,440	\$ 18,950,640
1-Dec-14	Unlimited	\$ 16,125,642	1.191	3.99	1.000	3.99	\$ 39,815,232	0.160	\$ 6,379,650	\$ 22,505,292
1-Dec-15	Unlimited	\$ 22,382,390	1.246	4.07	1.000	4.07	\$ 42,934,538	0.197	\$ 8,467,915	\$ 30,850,306
1-Dec-16	Unlimited	\$ 22,278,026	1.357	4.15	1.000	4.15	\$ 44,608,575	0.263	\$ 11,729,218	\$ 34,007,245
1-Dec-17	Unlimited	\$ 23,585,813	1.506	4.24	1.000	4.24	\$ 42,668,070	0.336	\$ 14,335,530	\$ 37,921,343
1-Dec-18	Unlimited	\$ 20,572,953	1.693	4.32	1.000	4.32	\$ 44,876,211	0.409	\$ 18,365,788	\$ 38,938,741
1-Dec-19	Unlimited	\$ 21,461,741	2.070	4.40	1.000	4.40	\$ 46,353,016	0.517	\$ 23,955,740	\$ 45,417,481
1-Dec-20	Unlimited	\$ 13,947,743	2.854	4.45	1.000	4.45	\$ 45,479,139	0.650	\$ 29,544,121	\$ 43,491,864
1-Dec-21	Unlimited	\$ 7,110,181	6.705	4.52	1.000	4.52	\$ 48,116,973	0.851	\$ 40,940,365	\$ 48,050,546
Total		\$ 298,443,898					\$ 784,486,397		\$ 178,351,566	\$ 476,795,464

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 @ 11/30/22
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) Payroll (in 00s)
	Unlimited	Limited	Unlimited	Limited		Loss	Exposure	
Prior	1.006	1.005	1.013	1.013	1.000	2.435	1.837	-
1-Dec-01	1.008	1.007	1.014	1.014	1.000	2.330	1.806	7,524,575
1-Dec-02	1.010	1.009	1.017	1.017	1.000	2.230	1.754	7,790,984
1-Dec-03	1.013	1.013	1.021	1.021	1.000	2.134	1.707	8,101,821
1-Dec-04	1.016	1.016	1.026	1.026	1.000	2.042	1.653	8,323,626
1-Dec-05	1.019	1.019	1.030	1.030	1.000	1.954	1.605	8,264,792
1-Dec-06	1.022	1.022	1.035	1.035	1.000	1.870	1.558	8,599,062
1-Dec-07	1.025	1.025	1.045	1.045	1.000	1.789	1.516	9,142,601
1-Dec-08	1.028	1.028	1.057	1.057	1.000	1.715	1.469	9,427,068
1-Dec-09	1.031	1.031	1.069	1.069	1.000	1.667	1.426	9,982,498
1-Dec-10	1.036	1.036	1.085	1.085	1.000	1.695	1.384	9,280,825
1-Dec-11	1.045	1.045	1.101	1.101	1.000	1.618	1.347	8,990,821
1-Dec-12	1.055	1.055	1.117	1.117	1.000	1.539	1.305	9,493,384
1-Dec-13	1.071	1.071	1.145	1.145	1.000	1.462	1.267	9,880,811
1-Dec-14	1.087	1.087	1.191	1.191	1.000	1.393	1.230	9,985,665
1-Dec-15	1.114	1.114	1.246	1.246	1.001	1.327	1.197	10,539,306
1-Dec-16	1.153	1.153	1.357	1.357	1.002	1.262	1.159	10,752,478
1-Dec-17	1.219	1.219	1.506	1.506	1.003	1.199	1.126	10,065,463
1-Dec-18	1.310	1.310	1.693	1.693	1.004	1.142	1.093	10,381,614
1-Dec-19	1.460	1.460	2.070	2.070	1.007	1.092	1.063	10,539,188
1-Dec-20	1.766	1.766	2.854	2.854	1.011	1.045	1.030	10,216,926
1-Dec-21	2.869	2.869	6.705	6.705	1.037	1.000	1.000	10,654,358

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 :
States Selected for WC :

0.75 0.75 0.75
4.58
0.75
Exhibit 10, Column (5)
4.13%
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) : Medical CPI Indices and 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 @ 11/30/22
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	\$ 88,727,008	\$ 86,018,172	\$ 2,708,837	Various	-	\$ -	-	\$ -	\$ 88,727,008	\$ 86,018,172	\$ 2,708,837
1-Dec-01	\$ 8,631,892	\$ 8,631,892	\$ -	\$ 9,500,000	-	\$ -	-	\$ -	\$ 8,631,892	\$ 8,631,892	\$ -
1-Dec-02	\$ 8,393,227	\$ 8,304,800	\$ 88,427	\$ 9,500,000	-	\$ -	-	\$ -	\$ 8,393,227	\$ 8,304,800	\$ 88,427
1-Dec-03	\$ 9,786,065	\$ 8,627,405	\$ 1,158,659	Various	-	\$ -	-	\$ -	\$ 9,786,065	\$ 8,627,405	\$ 1,158,659
1-Dec-04	\$ 9,477,313	\$ 9,060,593	\$ 416,720	Unlimited	-	\$ -	-	\$ -	\$ 9,477,313	\$ 9,060,593	\$ 416,720
1-Dec-05	\$ 9,622,347	\$ 9,188,489	\$ 433,858	Unlimited	-	\$ -	-	\$ -	\$ 9,622,347	\$ 9,188,489	\$ 433,858
1-Dec-06	\$ 14,222,714	\$ 12,342,850	\$ 1,879,864	Unlimited	-	\$ -	-	\$ -	\$ 14,222,714	\$ 12,342,850	\$ 1,879,864
1-Dec-07	\$ 18,373,033	\$ 17,914,227	\$ 458,807	Unlimited	-	\$ -	-	\$ -	\$ 18,373,033	\$ 17,914,227	\$ 458,807
1-Dec-08	\$ 14,775,302	\$ 14,428,303	\$ 347,000	Unlimited	-	\$ -	-	\$ -	\$ 14,775,302	\$ 14,428,303	\$ 347,000
1-Dec-09	\$ 14,443,706	\$ 13,352,938	\$ 1,090,767	Unlimited	-	\$ -	-	\$ -	\$ 14,443,706	\$ 13,352,938	\$ 1,090,767
1-Dec-10	\$ 13,262,051	\$ 11,006,322	\$ 2,255,729	Unlimited	-	\$ -	-	\$ -	\$ 13,262,051	\$ 11,006,322	\$ 2,255,729
1-Dec-11	\$ 13,394,012	\$ 13,095,809	\$ 298,203	Unlimited	-	\$ -	-	\$ -	\$ 13,394,012	\$ 13,095,809	\$ 298,203
1-Dec-12	\$ 12,937,534	\$ 10,971,580	\$ 1,965,954	Unlimited	-	\$ -	-	\$ -	\$ 12,937,534	\$ 10,971,580	\$ 1,965,954
1-Dec-13	\$ 16,458,666	\$ 14,054,200	\$ 2,404,466	Unlimited	-	\$ -	-	\$ -	\$ 16,458,666	\$ 14,054,200	\$ 2,404,466
1-Dec-14	\$ 18,261,649	\$ 16,125,642	\$ 2,136,008	Unlimited	-	\$ -	-	\$ -	\$ 18,261,649	\$ 16,125,642	\$ 2,136,008
1-Dec-15	\$ 26,400,899	\$ 22,382,390	\$ 4,018,509	Unlimited	-	\$ -	-	\$ -	\$ 26,400,899	\$ 22,382,390	\$ 4,018,509
1-Dec-16	\$ 28,714,891	\$ 22,278,026	\$ 6,436,865	Unlimited	-	\$ -	-	\$ -	\$ 28,714,891	\$ 22,278,026	\$ 6,436,865
1-Dec-17	\$ 30,742,207	\$ 23,585,813	\$ 7,156,395	Unlimited	-	\$ -	-	\$ -	\$ 30,742,207	\$ 23,585,813	\$ 7,156,395
1-Dec-18	\$ 27,075,774	\$ 20,572,953	\$ 6,502,821	Unlimited	-	\$ -	-	\$ -	\$ 27,075,774	\$ 20,572,953	\$ 6,502,821
1-Dec-19	\$ 41,015,717	\$ 21,461,741	\$ 19,553,975	Unlimited	-	\$ -	-	\$ -	\$ 41,015,717	\$ 21,461,741	\$ 19,553,975
1-Dec-20	\$ 29,783,184	\$ 13,947,743	\$ 15,835,440	Unlimited	-	\$ -	-	\$ -	\$ 29,783,184	\$ 13,947,743	\$ 15,835,440
1-Dec-21	\$ 29,220,576	\$ 7,110,181	\$ 22,110,395	Unlimited	-	\$ -	-	\$ -	\$ 29,220,576	\$ 7,110,181	\$ 22,110,395
	\$ 483,719,767	\$ 384,462,070	\$ 99,257,698		-	\$ -	-	\$ -	\$ 483,719,767	\$ 384,462,070	\$ 99,257,698

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 @ 11/30/22
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	13,590,219	1,161	1.000	1,161	1.000	1,161	0.00854%		1,161	1,161	0.00854%
1-Dec-02	13,661,538	1,223	1.000	1,223	1.000	1,223	0.00895%		1,223	1,223	0.00895%
1-Dec-03	13,826,449	1,218	1.000	1,218	1.000	1,218	0.00881%		1,218	1,218	0.00881%
1-Dec-04	13,757,685	1,318	1.000	1,318	1.000	1,318	0.00958%		1,318	1,318	0.00958%
1-Dec-05	13,262,565	1,159	1.000	1,159	1.000	1,159	0.00874%		1,159	1,159	0.00874%
1-Dec-06	13,397,059	903	1.000	903	1.000	903	0.00674%		903	903	0.00674%
1-Dec-07	13,862,734	777	1.000	777	1.000	777	0.00560%		777	777	0.00560%
1-Dec-08	13,843,967	767	1.000	767	1.000	767	0.00554%		767	767	0.00554%
1-Dec-09	14,232,655	862	1.000	862	1.000	862	0.00606%		862	862	0.00606%
1-Dec-10	12,846,832	789	1.000	789	1.000	789	0.00614%		789	789	0.00614%
1-Dec-11	12,112,382	783	1.000	783	1.000	783	0.00646%		783	783	0.00646%
1-Dec-12	12,386,713	720	1.000	720	1.000	720	0.00581%		720	720	0.00581%
1-Dec-13	12,516,715	760	1.000	760	1.000	760	0.00607%		760	760	0.00607%
1-Dec-14	12,281,109	778	1.000	778	1.000	778	0.00633%		778	778	0.00633%
1-Dec-15	12,615,177	1,108	1.001	1,109	1.000	1,109	0.00879%		1,109	1,109	0.00879%
1-Dec-16	12,465,069	1,239	1.002	1,241	1.000	1,241	0.00996%		1,241	1,241	0.00996%
1-Dec-17	11,328,767	1,086	1.003	1,089	1.000	1,089	0.00962%		1,089	1,089	0.00962%
1-Dec-18	11,344,270	1,038	1.004	1,042	1.000	1,042	0.00919%		1,042	1,042	0.00919%
1-Dec-19	11,208,295	1,210	1.007	1,218	1.000	1,218	0.01087%		1,218	1,218	0.01087%
1-Dec-20	10,523,434	1,190	1.011	1,203	1.000	1,203	0.01143%		1,203	1,203	0.01143%
1-Dec-21	10,654,358	1,262	1.037	1,309	1.000	1,309	0.01228%		1,309	1,309	0.01228%
Total	265,717,990	21,351		21,430		21,430	0.00806%		21,430	21,429	0.00806%

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 1,264
 Column (10) : Selected Trended Ultimate Claims
 Column (11) : Column (10) / Column (6)
 Column (12) : Column (10) / Column (2)

Selected Bornhuetter-Ferguson Claim Count for Policy Period 1-Dec-21			
<u>Weighted Averages excluding Policy Period 1-Dec-21</u>			
Last 5 Policies	55,059,123	5,861	0.01065%
Last 3 Policies	32,386,086	3,730	0.01152%
Last 2 Policies	21,177,792	2,512	0.01186%
Last 20 Policies	255,063,633	20,121	0.00789%
Selected Bornhuetter-Ferguson Frequency Rate			0.01186%
Payroll for 1-Dec-21			10,654,358
Apriori Expected Count for 1-Dec-21			1,264



Cook County, Illinois
Workers Compensation - General Government (Indemnity)
Workers Compensation - General Government (Indemnity) Experience @ 11/30/22
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	2.435	1.003	21,071,357	7,524,575	1.860	13,997,926	1.51
1-Dec-02	8,393,227	8,417,000	2.330	1.003	19,661,993	7,790,984	1.806	14,071,385	1.40
1-Dec-03	9,786,065	9,994,000	2.230	1.000	22,284,310	8,101,821	1.758	14,241,242	1.56
1-Dec-04	9,477,313	9,570,000	2.134	1.000	20,419,989	8,323,626	1.702	14,170,415	1.44
1-Dec-05	9,622,347	9,709,000	2.042	1.000	19,824,478	8,264,792	1.653	13,660,441	1.45
1-Dec-06	14,222,714	14,710,000	1.954	1.000	28,742,441	8,599,062	1.605	13,798,971	2.08
1-Dec-07	18,373,033	18,630,000	1.870	1.000	34,834,336	9,142,601	1.562	14,278,616	2.44
1-Dec-08	14,775,302	15,045,000	1.792	1.000	26,964,306	9,427,068	1.513	14,259,286	1.89
1-Dec-09	14,443,706	14,740,000	1.742	1.000	25,673,544	9,982,498	1.469	14,659,634	1.75
1-Dec-10	13,262,051	13,800,000	1.771	1.000	24,446,024	9,280,825	1.426	13,232,237	1.85
1-Dec-11	13,394,012	14,000,000	1.691	1.000	23,670,949	8,990,821	1.388	12,475,754	1.90
1-Dec-12	12,937,534	13,400,000	1.608	1.000	21,551,398	9,493,384	1.344	12,758,314	1.69
1-Dec-13	16,458,666	17,000,000	1.528	1.000	25,972,954	9,880,811	1.305	12,892,217	2.01
1-Dec-14	18,261,649	19,700,000	1.456	1.000	28,677,539	9,985,665	1.267	12,649,542	2.27
1-Dec-15	26,400,899	28,800,000	1.387	1.000	39,936,164	10,539,306	1.233	12,993,632	3.07
1-Dec-16	28,714,891	32,700,000	1.319	1.000	43,123,244	10,752,478	1.194	12,839,021	3.36
1-Dec-17	30,742,207	34,000,000	1.253	1.000	42,603,559	10,065,463	1.159	11,668,630	3.65
1-Dec-18	27,075,774	34,000,000	1.193	1.000	40,562,679	10,381,614	1.126	11,684,598	3.47
1-Dec-19	41,015,717	55,000,000	1.141	1.000	62,764,137	10,539,188	1.095	11,544,544	5.44
1-Dec-20	29,783,184	46,900,000	1.092	1.000	51,215,973	10,216,926	1.061	10,839,137	4.73
1-Dec-21	29,220,576	60,000,000	1.045	1.000	62,700,000	10,654,358	1.030	10,973,988	5.71
All Year Weighted Average					686,701,374			273,689,530	2.51
Latest 5-Year Weighted Average					259,846,348			56,710,897	4.58
Latest 3-Year Weighted Average					176,680,110			33,357,669	5.30
SELECTED									4.58

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

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

Column (3) : Trend Indices appropriate for Workers Compensation - General Government (Indemnity)

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-22	Unlimited	11,616,907	1,338	4.58	53,200,000
1-Dec-23	Unlimited	11,936,302	1,338	4.66	55,600,000
1-Dec-24	Unlimited	12,324,377	1,338	4.72	58,200,000

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



**Cook County, Illinois
Workers Compensation - General Government (Indemnity)**

Average : \$14,841 sigma = 2.192
CV : 11.00 mu = 7.203

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
264	1.006	1.000	9,500,000	4.044	1.852	1.000	0.968	14,615	9,553,035	4.047	1.855	1.000	0.968	14,617	1.005
252	1.008	1.000	9,500,000	4.044	1.852	1.000	0.968	14,615	9,572,141	4.047	1.856	1.000	0.968	14,617	1.007
240	1.010	1.000	9,500,000	4.044	1.852	1.000	0.968	14,615	9,591,286	4.048	1.857	1.000	0.968	14,618	1.009
228	1.013	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,012,637,838	6.174	3.982	1.000	1.000	14,841	1.013
216	1.016	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,015,675,752	6.176	3.984	1.000	1.000	14,841	1.016
204	1.019	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,018,722,779	6.177	3.985	1.000	1.000	14,841	1.019
192	1.022	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,021,778,947	6.178	3.987	1.000	1.000	14,841	1.022
180	1.025	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,024,844,284	6.180	3.988	1.000	1.000	14,841	1.025
168	1.028	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,027,918,817	6.181	3.989	1.000	1.000	14,841	1.028
156	1.031	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,031,002,574	6.182	3.991	1.000	1.000	14,841	1.031
144	1.036	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,036,157,587	6.185	3.993	1.000	1.000	14,841	1.036
132	1.045	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,045,483,005	6.189	3.997	1.000	1.000	14,841	1.045
120	1.055	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,054,892,352	6.193	4.001	1.000	1.000	14,841	1.055
108	1.071	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,071,217,636	6.200	4.008	1.000	1.000	14,841	1.071
96	1.087	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,087,285,901	6.207	4.015	1.000	1.000	14,841	1.087
84	1.114	1.001	999,999,999	6.168	3.977	1.000	1.000	14,841	1,113,354,694	6.217	4.026	1.000	1.000	14,841	1.114
72	1.153	1.002	999,999,999	6.168	3.977	1.000	1.000	14,841	1,151,170,937	6.233	4.041	1.000	1.000	14,841	1.153
60	1.219	1.003	999,999,999	6.168	3.977	1.000	1.000	14,841	1,215,830,517	6.258	4.066	1.000	1.000	14,841	1.219
48	1.310	1.004	999,999,999	6.168	3.977	1.000	1.000	14,841	1,304,746,785	6.290	4.098	1.000	1.000	14,841	1.310
36	1.460	1.007	999,999,999	6.168	3.977	1.000	1.000	14,841	1,449,574,337	6.338	4.146	1.000	1.000	14,841	1.460
24	1.766	1.011	999,999,999	6.168	3.977	1.000	1.000	14,841	1,746,996,960	6.423	4.231	1.000	1.000	14,841	1.766
12	2.869	1.037	999,999,999	6.168	3.977	1.000	1.000	14,841	2,766,999,592	6.633	4.441	1.000	1.000	14,841	2.869

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 : \$14,841 sigma = 2.192
CV : 11.00 mu = 7.203

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
264	1.013	1.000	9,500,000	4.044	1.852	1.000	0.968	14,615	9,622,550	4.050	1.858	1.000	0.968	14,619	1.013
252	1.014	1.000	9,500,000	4.044	1.852	1.000	0.968	14,615	9,636,167	4.050	1.859	1.000	0.968	14,619	1.014
240	1.017	1.000	9,500,000	4.044	1.852	1.000	0.968	14,615	9,665,075	4.052	1.860	1.000	0.969	14,620	1.017
228	1.021	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,021,445,856	6.178	3.986	1.000	1.000	14,841	1.021
216	1.026	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,025,531,640	6.180	3.988	1.000	1.000	14,841	1.026
204	1.030	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,029,633,766	6.182	3.990	1.000	1.000	14,841	1.030
192	1.035	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,034,781,935	6.184	3.992	1.000	1.000	14,841	1.035
180	1.045	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,045,129,755	6.189	3.997	1.000	1.000	14,841	1.045
168	1.057	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,056,797,609	6.194	4.002	1.000	1.000	14,841	1.057
156	1.069	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,069,479,180	6.199	4.007	1.000	1.000	14,841	1.069
144	1.085	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,085,377,113	6.206	4.014	1.000	1.000	14,841	1.085
132	1.101	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,100,572,392	6.212	4.020	1.000	1.000	14,841	1.101
120	1.117	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,117,080,978	6.219	4.027	1.000	1.000	14,841	1.117
108	1.145	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,145,008,003	6.230	4.038	1.000	1.000	14,841	1.145
96	1.191	1.000	999,999,999	6.168	3.977	1.000	1.000	14,841	1,190,808,323	6.248	4.056	1.000	1.000	14,841	1.191
84	1.246	1.001	999,999,999	6.168	3.977	1.000	1.000	14,841	1,244,445,240	6.268	4.076	1.000	1.000	14,841	1.246
72	1.357	1.002	999,999,999	6.168	3.977	1.000	1.000	14,841	1,354,032,867	6.307	4.115	1.000	1.000	14,841	1.357
60	1.506	1.003	999,999,999	6.168	3.977	1.000	1.000	14,841	1,501,475,007	6.354	4.162	1.000	1.000	14,841	1.506
48	1.693	1.004	999,999,999	6.168	3.977	1.000	1.000	14,841	1,686,034,841	6.407	4.215	1.000	1.000	14,841	1.693
36	2.070	1.007	999,999,999	6.168	3.977	1.000	1.000	14,841	2,055,438,513	6.497	4.305	1.000	1.000	14,841	2.070
24	2.854	1.011	999,999,999	6.168	3.977	1.000	1.000	14,841	2,823,242,862	6.642	4.450	1.000	1.000	14,841	2.854
12	6.705	1.037	999,999,999	6.168	3.977	1.000	1.000	14,841	6,466,414,438	7.020	4.828	1.000	1.000	14,841	6.705

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 12/1/2022 to 11/30/2023**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/22	Percent Losses Paid	Months of Development 11/30/23	Percent Losses Paid	Estimated Outstanding Losses 11/30/22	Projected Losses Paid	Estimated Outstanding Losses 11/30/23	Discount Factor	Discounted Outstanding Losses 11/30/23
Prior	264	98.7%	276	99.1%	\$ 3,981,828	\$ 986,078	\$ 2,995,750	0.875	\$ 2,622,681
1-Dec-01	252	98.6%	264	98.7%	\$ -	\$ -	\$ -	0.875	\$ -
1-Dec-02	240	98.3%	252	98.6%	\$ 112,200	\$ 19,376	\$ 92,824	0.854	\$ 79,298
1-Dec-03	228	97.9%	240	98.3%	\$ 1,366,595	\$ 254,892	\$ 1,111,702	0.848	\$ 942,678
1-Dec-04	216	97.5%	228	97.9%	\$ 509,407	\$ 79,808	\$ 429,599	0.845	\$ 363,109
1-Dec-05	204	97.1%	216	97.5%	\$ 520,511	\$ 70,259	\$ 450,251	0.838	\$ 377,343
1-Dec-06	192	96.6%	204	97.1%	\$ 2,367,150	\$ 340,285	\$ 2,026,866	0.828	\$ 1,679,207
1-Dec-07	180	95.7%	192	96.6%	\$ 715,773	\$ 158,604	\$ 557,170	0.822	\$ 458,061
1-Dec-08	168	94.6%	180	95.7%	\$ 616,697	\$ 121,217	\$ 495,480	0.832	\$ 412,100
1-Dec-09	156	93.5%	168	94.6%	\$ 1,387,062	\$ 239,565	\$ 1,147,497	0.834	\$ 957,423
1-Dec-10	144	92.1%	156	93.5%	\$ 2,793,678	\$ 486,412	\$ 2,307,266	0.832	\$ 1,919,950
1-Dec-11	132	90.9%	144	92.1%	\$ 904,191	\$ 125,867	\$ 778,325	0.831	\$ 646,489
1-Dec-12	120	89.5%	132	90.9%	\$ 2,428,420	\$ 311,121	\$ 2,117,298	0.823	\$ 1,742,641
1-Dec-13	108	87.3%	120	89.5%	\$ 2,945,800	\$ 507,870	\$ 2,437,930	0.815	\$ 1,986,164
1-Dec-14	96	84.0%	108	87.3%	\$ 3,574,358	\$ 749,312	\$ 2,825,047	0.816	\$ 2,306,500
1-Dec-15	84	80.3%	96	84.0%	\$ 6,417,610	\$ 1,203,848	\$ 5,213,762	0.825	\$ 4,302,053
1-Dec-16	72	73.7%	84	80.3%	\$ 10,421,974	\$ 2,604,454	\$ 7,817,519	0.828	\$ 6,469,717
1-Dec-17	60	66.4%	72	73.7%	\$ 10,414,187	\$ 2,264,042	\$ 8,150,145	0.841	\$ 6,854,684
1-Dec-18	48	59.1%	60	66.4%	\$ 13,427,047	\$ 2,404,096	\$ 11,022,951	0.845	\$ 9,316,002
1-Dec-19	36	48.3%	48	59.1%	\$ 33,538,259	\$ 6,979,834	\$ 26,558,425	0.842	\$ 22,356,021
1-Dec-20	24	35.0%	36	48.3%	\$ 32,952,257	\$ 6,736,771	\$ 26,215,486	0.844	\$ 22,128,273
1-Dec-21	12	14.9%	24	35.0%	\$ 52,889,819	\$ 12,508,777	\$ 40,381,041	0.845	\$ 34,131,532
1-Dec-22	0	0.0%	12	14.9%	\$ 53,200,000	\$ 7,934,738	\$ 45,265,262	0.852	\$ 38,543,665
Total					\$ 237,484,822	\$ 47,087,226	\$ 190,397,596		\$ 160,595,592

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 4.13% Interest Rate
 Column (10): Column (8) x Column (9)



**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	99.1%	288	99.3%	\$ 2,995,750	\$ 743,633	\$ 2,252,117	0.876	\$ 1,972,131
1-Dec-01	264	98.7%	276	99.1%	\$ -	\$ -	\$ -	0.875	\$ -
1-Dec-02	252	98.6%	264	98.7%	\$ 92,824	\$ 9,166	\$ 83,658	0.875	\$ 73,220
1-Dec-03	240	98.3%	252	98.6%	\$ 1,111,702	\$ 191,934	\$ 919,769	0.854	\$ 785,746
1-Dec-04	228	97.9%	240	98.3%	\$ 429,599	\$ 80,127	\$ 349,472	0.848	\$ 296,338
1-Dec-05	216	97.5%	228	97.9%	\$ 450,251	\$ 70,540	\$ 379,711	0.845	\$ 320,943
1-Dec-06	204	97.1%	216	97.5%	\$ 2,026,866	\$ 273,589	\$ 1,753,277	0.838	\$ 1,469,370
1-Dec-07	192	96.6%	204	97.1%	\$ 557,170	\$ 80,095	\$ 477,075	0.828	\$ 395,245
1-Dec-08	180	95.7%	192	96.6%	\$ 495,480	\$ 109,790	\$ 385,690	0.822	\$ 317,084
1-Dec-09	168	94.6%	180	95.7%	\$ 1,147,497	\$ 225,550	\$ 921,947	0.832	\$ 766,801
1-Dec-10	156	93.5%	168	94.6%	\$ 2,307,266	\$ 398,497	\$ 1,908,769	0.834	\$ 1,592,596
1-Dec-11	144	92.1%	156	93.5%	\$ 778,325	\$ 135,515	\$ 642,809	0.832	\$ 534,902
1-Dec-12	132	90.9%	144	92.1%	\$ 2,117,298	\$ 294,735	\$ 1,822,563	0.831	\$ 1,513,850
1-Dec-13	120	89.5%	132	90.9%	\$ 2,437,930	\$ 312,340	\$ 2,125,590	0.823	\$ 1,749,466
1-Dec-14	108	87.3%	120	89.5%	\$ 2,825,047	\$ 487,052	\$ 2,337,995	0.815	\$ 1,904,748
1-Dec-15	96	84.0%	108	87.3%	\$ 5,213,762	\$ 1,092,988	\$ 4,120,773	0.816	\$ 3,364,392
1-Dec-16	84	80.3%	96	84.0%	\$ 7,817,519	\$ 1,466,450	\$ 6,351,069	0.825	\$ 5,240,485
1-Dec-17	72	73.7%	84	80.3%	\$ 8,150,145	\$ 2,036,724	\$ 6,113,422	0.828	\$ 5,059,419
1-Dec-18	60	66.4%	72	73.7%	\$ 11,022,951	\$ 2,396,387	\$ 8,626,564	0.841	\$ 7,255,376
1-Dec-19	48	59.1%	60	66.4%	\$ 26,558,425	\$ 4,755,253	\$ 21,803,172	0.845	\$ 18,426,861
1-Dec-20	36	48.3%	48	59.1%	\$ 26,215,486	\$ 5,455,851	\$ 20,759,635	0.842	\$ 17,474,788
1-Dec-21	24	35.0%	36	48.3%	\$ 40,381,041	\$ 8,255,514	\$ 32,125,527	0.844	\$ 27,116,889
1-Dec-22	12	14.9%	24	35.0%	\$ 45,265,262	\$ 10,705,521	\$ 34,559,741	0.845	\$ 29,211,156
1-Dec-23	0	0.0%	12	14.9%	\$ 55,600,000	\$ 8,292,696	\$ 47,307,304	0.852	\$ 40,282,477
Total					\$ 245,997,596	\$ 47,869,948	\$ 198,127,648		\$ 167,124,282

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 4.13% 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	99.3%	300	99.5%	\$ 2,252,117	\$ 560,033	\$ 1,692,084	0.876	\$ 1,482,061
1-Dec-01	276	99.1%	288	99.3%	\$ -	\$ -	\$ -	0.876	\$ -
1-Dec-02	264	98.7%	276	99.1%	\$ 83,658	\$ 20,717	\$ 62,941	0.875	\$ 55,102
1-Dec-03	252	98.6%	264	98.7%	\$ 919,769	\$ 90,806	\$ 828,963	0.875	\$ 725,532
1-Dec-04	240	98.3%	252	98.6%	\$ 349,472	\$ 60,336	\$ 289,136	0.854	\$ 247,005
1-Dec-05	228	97.9%	240	98.3%	\$ 379,711	\$ 70,822	\$ 308,889	0.848	\$ 261,925
1-Dec-06	216	97.5%	228	97.9%	\$ 1,753,277	\$ 274,683	\$ 1,478,594	0.845	\$ 1,249,749
1-Dec-07	204	97.1%	216	97.5%	\$ 477,075	\$ 64,396	\$ 412,679	0.838	\$ 345,854
1-Dec-08	192	96.6%	204	97.1%	\$ 385,690	\$ 55,444	\$ 330,246	0.828	\$ 273,600
1-Dec-09	180	95.7%	192	96.6%	\$ 921,947	\$ 204,288	\$ 717,659	0.822	\$ 590,002
1-Dec-10	168	94.6%	180	95.7%	\$ 1,908,769	\$ 375,184	\$ 1,533,585	0.832	\$ 1,275,512
1-Dec-11	156	93.5%	168	94.6%	\$ 642,809	\$ 111,022	\$ 531,787	0.834	\$ 443,701
1-Dec-12	144	92.1%	156	93.5%	\$ 1,822,563	\$ 317,329	\$ 1,505,234	0.832	\$ 1,252,553
1-Dec-13	132	90.9%	144	92.1%	\$ 2,125,590	\$ 295,890	\$ 1,829,700	0.831	\$ 1,519,778
1-Dec-14	120	89.5%	132	90.9%	\$ 2,337,995	\$ 299,536	\$ 2,038,458	0.823	\$ 1,677,752
1-Dec-15	108	87.3%	120	89.5%	\$ 4,120,773	\$ 710,441	\$ 3,410,332	0.815	\$ 2,778,373
1-Dec-16	96	84.0%	108	87.3%	\$ 6,351,069	\$ 1,331,408	\$ 5,019,661	0.816	\$ 4,098,286
1-Dec-17	84	80.3%	96	84.0%	\$ 6,113,422	\$ 1,146,787	\$ 4,966,635	0.825	\$ 4,098,140
1-Dec-18	72	73.7%	84	80.3%	\$ 8,626,564	\$ 2,155,781	\$ 6,470,783	0.828	\$ 5,355,169
1-Dec-19	60	66.4%	72	73.7%	\$ 21,803,172	\$ 4,740,005	\$ 17,063,167	0.841	\$ 14,350,985
1-Dec-20	48	59.1%	60	66.4%	\$ 20,759,635	\$ 3,716,987	\$ 17,042,648	0.845	\$ 14,403,524
1-Dec-21	36	48.3%	48	59.1%	\$ 32,125,527	\$ 6,685,823	\$ 25,439,704	0.842	\$ 21,414,319
1-Dec-22	24	35.0%	36	48.3%	\$ 34,559,741	\$ 7,065,405	\$ 27,494,335	0.844	\$ 23,207,739
1-Dec-23	12	14.9%	24	35.0%	\$ 47,307,304	\$ 11,188,477	\$ 36,118,827	0.845	\$ 30,528,952
1-Dec-24	0	0.0%	12	14.9%	\$ 58,200,000	\$ 8,680,484	\$ 49,519,516	0.852	\$ 42,166,190
Total					\$ 256,327,648	\$ 50,222,086	\$ 206,105,562		\$ 173,801,804

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 4.13% 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</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	2/28/1995	1,826,559	874,645	951,914
Prior	8/7/1998	1,534,333	779,278	755,056
12/1/2003	12/8/2003	1,111,004	638,587	472,418
12/1/2003	4/14/2004	1,091,486	451,081	640,405
12/1/2005	5/7/2006	1,145,742	711,884	433,858
12/1/2006	2/6/2007	2,441,118	965,454	1,475,664
12/1/2006	3/19/2007	1,074,493	1,074,493	-
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	2,016,346	2,016,346	-
12/1/2007	8/1/2008	1,219,594	1,219,594	-
12/1/2008	2/12/2009	1,135,966	788,967	347,000
12/1/2009	1/17/2010	1,009,685	665,838	343,846
12/1/2010	6/2/2011	1,129,179	612,933	516,245
12/1/2010	11/17/2011	1,229,582	38,638	1,190,944
12/1/2012	11/20/2013	1,180,826	559,261	621,565
12/1/2013	4/27/2014	1,219,496	496,006	723,490
12/1/2020	9/22/2021	1,139,637	85,099	1,054,538

Cook County, Illinois
Workers' Compensation - General Government
Occurrence Indemnity
Incurred Development Triangle
Data Unlimited (000s)
As of 11/30/2022

Table with columns for Policy Year and 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). Rows represent policy years from Prior to 12/1/2021.

Table with columns for Policy Year and 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-Ult). Rows represent policy years from Prior to 12/1/2021.

Table with columns for 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-Ult). Rows include All Year Average, 3 Yr Average, 5 Yr Average, 5 Yr Wid Average, Avg X Hi-Low, and Industry Initial Selected.

Table with columns for 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-Ult). Rows include Inverse Power Curve Fit, Exponential Curve Fit, Weibull Curve Fit, Manual Entry, and Selected Tail Method.

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: 2021 NCCI Indemnity Only

Cook County, Illinois
Workers' Compensation - General Government
Occurrence
Indemnity
Paid Development Triangle
Data Unlimited (000s)
As of 11/30/2022

Table with columns for Policy Year and 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). Rows include Prior and years from 2001 to 2021.

Table with columns for Policy Year and 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-Ult). Rows include Prior and years from 2001 to 2021.

Table with columns for Policy Year and 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-Ult). Rows include All Year Average, 3 Yr Average, 5 Yr Average, 3 Yr Wid Average, 5 Yr Wid Average, Avg X Hi-Lo (3yr X 2), Avg X Hi-Lo (5yr X 2), Prior, Industry, and Initial Selected.

Table with columns for Policy Year and 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-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: 2021 NCCI Indemnity Only

Cook County, Illinois
Workers' Compensation - General Government
Occurrence
Indemnity
Reported Claim Count Triangle
Data Unlimited
As of 11/30/2022

Age in Months table with columns for Policy Year and months (12, 24, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, 204, 216, 228, 240, 252, 264) and rows for years from 12/1/2001 to 12/1/2021.

Age-to-Age table with columns for Policy Year and age ranges (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-Ult) and rows for years from 12/1/2001 to 12/1/2021.

Averages table with columns for age ranges (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-Ult) and rows for various averages like All Year Average, 3 Yr Average, 5 Yr Average, etc.

Tail Factor Calculation table with columns for age ranges (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-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.

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: 2021 NCCI Indemnity Only



**Cook County, Illinois
Workers Compensation - General Government (Medical) Experience @ 11/30/22
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	13	32,447,349	31,804,234	643,114	90,651	733,766	32,538,000	
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	4,176,635	4,146,964	29,671	13,365	43,036	4,190,000	0.54
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	12,024,387	12,000,994	23,393	57,613	81,006	12,082,000	1.45
1-Dec-05	8,264,792	Unlimited	1,159	1	4,203,960	4,203,960	-	16,041	16,041	4,220,000	0.51
1-Dec-06	8,599,062	Unlimited	903	2	4,908,826	4,844,655	64,171	35,174	99,345	4,944,000	0.57
1-Dec-07	9,142,601	Unlimited	777	3	6,623,795	6,144,954	478,841	56,205	535,046	6,680,000	0.73
1-Dec-08	9,427,068	Unlimited	767	2	6,577,782	6,481,895	95,887	122,218	218,105	6,700,000	0.71
1-Dec-09	9,982,498	Unlimited	862	7	6,841,969	6,514,748	327,221	78,031	405,252	6,920,000	0.69
1-Dec-10	9,280,825	Unlimited	789	10	5,554,365	4,983,634	570,730	65,635	636,366	5,620,000	0.61
1-Dec-11	8,990,821	Unlimited	783	7	4,523,494	4,410,369	113,125	86,506	199,631	4,610,000	0.51
1-Dec-12	9,493,384	Unlimited	720	11	4,456,639	4,245,521	211,117	103,361	314,479	4,560,000	0.48
1-Dec-13	9,880,811	Unlimited	760	27	5,540,423	4,811,527	728,896	159,577	888,473	5,700,000	0.58
1-Dec-14	9,985,665	Unlimited	778	37	6,219,644	5,192,900	1,026,744	180,356	1,207,100	6,400,000	0.64
1-Dec-15	10,539,306	Unlimited	1,108	55	9,543,339	8,559,511	983,828	256,661	1,240,489	9,800,000	0.93
1-Dec-16	10,752,478	Unlimited	1,239	71	10,638,120	8,185,862	2,452,258	461,880	2,914,138	11,100,000	1.03
1-Dec-17	10,065,463	Unlimited	1,086	104	10,422,294	7,452,765	2,969,529	577,706	3,547,235	11,000,000	1.09
1-Dec-18	10,381,614	Unlimited	1,038	129	10,430,303	7,514,341	2,915,962	969,697	3,885,659	11,400,000	1.10
1-Dec-19	10,539,188	Unlimited	1,210	288	18,092,187	8,651,775	9,440,412	1,407,813	10,848,225	19,500,000	1.85
1-Dec-20	10,216,926	Unlimited	1,190	313	15,132,629	6,136,365	8,996,265	2,267,371	11,263,635	17,400,000	1.70
1-Dec-21	10,654,358	Unlimited	1,262	636	20,987,109	3,159,573	17,827,536	3,012,891	20,840,427	24,000,000	2.25
Total	197,937,865		38,836	1,724	207,893,629	157,299,122	50,594,507	10,035,907	60,630,414	217,929,536	0.94

Full Policy Period Projections

1-Dec-22	11,616,907	Unlimited								19,500,000	1.68
1-Dec-23	11,936,302	Unlimited								20,900,000	1.75



**Cook County, Illinois
Workers Compensation - General Government (Medical)**

**Workers Compensation - General Government (Medical) Experience @ 11/30/22
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	\$ 32,536,363	\$ 32,515,518	\$ 32,539,277	N/A	N/A	N/A	N/A	\$ 32,536,363	\$ 32,538,000
1-Dec-01	\$ 4,052,623	\$ 4,131,922	\$ 4,041,536	\$ 4,057,269	\$ 4,167,331	\$ 4,053,665	\$ 4,137,184	\$ 4,052,623	\$ 4,041,536
1-Dec-02	\$ 4,188,093	\$ 4,239,708	\$ 4,180,876	\$ 4,193,557	\$ 4,282,272	\$ 4,189,820	\$ 4,250,546	\$ 4,188,093	\$ 4,190,000
1-Dec-03	\$ 4,523,803	\$ 3,896,786	\$ 4,649,719	\$ 4,532,508	\$ 3,961,680	\$ 4,527,291	\$ 3,928,297	\$ 4,523,803	\$ 4,524,000
1-Dec-04	\$ 12,081,702	\$ 12,271,016	\$ 12,030,816	\$ 12,058,964	\$ 12,161,381	\$ 12,052,935	\$ 12,131,087	\$ 12,081,702	\$ 12,082,000
1-Dec-05	\$ 4,228,222	\$ 4,302,847	\$ 4,203,960	\$ 4,247,100	\$ 4,376,742	\$ 4,237,114	\$ 4,334,074	\$ 4,228,222	\$ 4,220,000
1-Dec-06	\$ 4,942,094	\$ 4,963,572	\$ 4,933,902	\$ 4,963,526	\$ 5,039,339	\$ 4,949,028	\$ 4,984,091	\$ 4,942,094	\$ 4,944,000
1-Dec-07	\$ 6,675,354	\$ 6,302,084	\$ 6,838,704	\$ 6,693,286	\$ 6,369,279	\$ 6,673,464	\$ 6,299,959	\$ 6,675,354	\$ 6,680,000
1-Dec-08	\$ 6,635,611	\$ 6,654,288	\$ 6,626,389	\$ 6,661,428	\$ 6,730,551	\$ 6,635,722	\$ 6,647,397	\$ 6,635,611	\$ 6,700,000
1-Dec-09	\$ 6,909,023	\$ 6,701,390	\$ 7,016,981	\$ 6,942,869	\$ 6,804,301	\$ 6,909,669	\$ 6,699,406	\$ 6,909,023	\$ 6,920,000
1-Dec-10	\$ 5,614,408	\$ 5,141,791	\$ 5,858,570	\$ 5,655,402	\$ 5,274,232	\$ 5,620,000	\$ 5,160,522	\$ 5,614,408	\$ 5,620,000
1-Dec-11	\$ 4,576,966	\$ 4,563,984	\$ 4,583,636	\$ 4,635,132	\$ 4,731,995	\$ 4,594,112	\$ 4,598,326	\$ 4,576,966	\$ 4,610,000
1-Dec-12	\$ 4,522,848	\$ 4,428,541	\$ 4,572,439	\$ 4,610,625	\$ 4,680,242	\$ 4,553,345	\$ 4,492,558	\$ 4,522,848	\$ 4,560,000
1-Dec-13	\$ 5,639,602	\$ 5,069,136	\$ 5,926,139	\$ 5,741,908	\$ 5,393,765	\$ 5,669,550	\$ 5,140,287	\$ 5,639,602	\$ 5,700,000
1-Dec-14	\$ 6,349,974	\$ 5,536,579	\$ 6,726,832	\$ 6,467,591	\$ 5,942,786	\$ 6,385,284	\$ 5,622,082	\$ 6,349,974	\$ 6,400,000
1-Dec-15	\$ 9,792,033	\$ 9,259,118	\$ 10,041,472	\$ 9,882,107	\$ 9,567,355	\$ 9,783,956	\$ 9,155,816	\$ 9,791,456	\$ 9,800,000
1-Dec-16	\$ 11,024,497	\$ 9,209,125	\$ 11,767,975	\$ 11,135,445	\$ 9,762,590	\$ 11,013,025	\$ 9,136,114	\$ 11,022,514	\$ 11,100,000
1-Dec-17	\$ 10,943,106	\$ 8,589,836	\$ 12,089,266	\$ 11,083,719	\$ 9,292,446	\$ 10,951,690	\$ 8,575,904	\$ 10,943,506	\$ 11,000,000
1-Dec-18	\$ 11,115,788	\$ 9,133,684	\$ 11,985,497	\$ 11,353,253	\$ 10,167,808	\$ 11,220,200	\$ 9,157,430	\$ 11,120,677	\$ 11,400,000
1-Dec-19	\$ 19,872,226	\$ 11,568,648	\$ 23,294,010	\$ 19,510,046	\$ 12,642,805	\$ 19,419,163	\$ 11,171,967	\$ 19,847,284	\$ 19,500,000
1-Dec-20	\$ 18,117,416	\$ 10,215,456	\$ 21,451,321	\$ 17,752,434	\$ 12,486,127	\$ 17,752,165	\$ 10,174,494	\$ 18,122,101	\$ 17,400,000
1-Dec-21	\$ 34,174,108	\$ 13,996,771	\$ 38,699,416	\$ 27,634,545	\$ 16,497,689	\$ 28,121,478	\$ 11,724,545	\$ 33,775,536	\$ 24,000,000
Total	\$ 228,515,860	\$ 182,691,800	\$ 244,058,731	\$ 189,812,713	\$ 160,332,715	\$ 189,312,674	\$ 147,522,088	\$ 228,099,761	\$ 217,929,536

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 @ 11/30/22
Unpaid Liabilities at Various Discount Rates
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.13%
Prior	264	Various	\$ 32,538,000	\$ 32,447,349	\$ 31,804,234	\$ 643,114	\$ 90,651	\$ 733,766	\$ 641,819
1-Dec-01	252	\$ 9,500,000	\$ 4,041,536	\$ 4,041,536	\$ 4,041,536	\$ -	\$ -	\$ -	\$ -
1-Dec-02	240	\$ 9,500,000	\$ 4,190,000	\$ 4,176,635	\$ 4,146,964	\$ 29,671	\$ 13,365	\$ 43,036	\$ 34,717
1-Dec-03	228	Various	\$ 4,524,000	\$ 4,506,845	\$ 3,811,038	\$ 695,807	\$ 17,155	\$ 712,962	\$ 552,324
1-Dec-04	216	Unlimited	\$ 12,082,000	\$ 12,024,387	\$ 12,000,994	\$ 23,393	\$ 57,613	\$ 81,006	\$ 60,265
1-Dec-05	204	Unlimited	\$ 4,220,000	\$ 4,203,960	\$ 4,203,960	\$ -	\$ 16,041	\$ 16,041	\$ 11,641
1-Dec-06	192	Unlimited	\$ 4,944,000	\$ 4,908,826	\$ 4,844,655	\$ 64,171	\$ 35,174	\$ 99,345	\$ 70,385
1-Dec-07	180	Unlimited	\$ 6,680,000	\$ 6,623,795	\$ 6,144,954	\$ 478,841	\$ 56,205	\$ 535,046	\$ 370,313
1-Dec-08	168	Unlimited	\$ 6,700,000	\$ 6,577,782	\$ 6,481,895	\$ 95,887	\$ 122,218	\$ 218,105	\$ 147,553
1-Dec-09	156	Unlimited	\$ 6,920,000	\$ 6,841,969	\$ 6,514,748	\$ 327,221	\$ 78,031	\$ 405,252	\$ 272,635
1-Dec-10	144	Unlimited	\$ 5,620,000	\$ 5,554,365	\$ 4,983,634	\$ 570,730	\$ 65,635	\$ 636,366	\$ 431,228
1-Dec-11	132	Unlimited	\$ 4,610,000	\$ 4,523,494	\$ 4,410,369	\$ 113,125	\$ 86,506	\$ 199,631	\$ 135,574
1-Dec-12	120	Unlimited	\$ 4,560,000	\$ 4,456,639	\$ 4,245,521	\$ 211,117	\$ 103,361	\$ 314,479	\$ 224,232
1-Dec-13	108	Unlimited	\$ 5,700,000	\$ 5,540,423	\$ 4,811,527	\$ 728,896	\$ 159,577	\$ 888,473	\$ 657,378
1-Dec-14	96	Unlimited	\$ 6,400,000	\$ 6,219,644	\$ 5,192,900	\$ 1,026,744	\$ 180,356	\$ 1,207,100	\$ 916,679
1-Dec-15	84	Unlimited	\$ 9,800,000	\$ 9,543,339	\$ 8,559,511	\$ 983,828	\$ 256,661	\$ 1,240,489	\$ 960,173
1-Dec-16	72	Unlimited	\$ 11,100,000	\$ 10,638,120	\$ 8,185,862	\$ 2,452,258	\$ 461,880	\$ 2,914,138	\$ 2,386,841
1-Dec-17	60	Unlimited	\$ 11,000,000	\$ 10,422,294	\$ 7,452,765	\$ 2,969,529	\$ 577,706	\$ 3,547,235	\$ 2,900,335
1-Dec-18	48	Unlimited	\$ 11,400,000	\$ 10,430,303	\$ 7,514,341	\$ 2,915,962	\$ 969,697	\$ 3,885,659	\$ 3,242,784
1-Dec-19	36	Unlimited	\$ 19,500,000	\$ 18,092,187	\$ 8,651,775	\$ 9,440,412	\$ 1,407,813	\$ 10,848,225	\$ 9,269,192
1-Dec-20	24	Unlimited	\$ 17,400,000	\$ 15,132,629	\$ 6,136,365	\$ 8,996,265	\$ 2,267,371	\$ 11,263,635	\$ 9,904,223
1-Dec-21	12	Unlimited	\$ 24,000,000	\$ 20,987,109	\$ 3,159,573	\$ 17,827,536	\$ 3,012,891	\$ 20,840,427	\$ 18,966,269
Total			\$ 217,929,536	\$ 207,893,629	\$ 157,299,122	\$ 50,594,507	\$ 10,035,907	\$ 60,630,414	\$ 52,156,562

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 (10) : Column (9) discounted



**Cook County, Illinois
Workers Compensation - General Government (Medical)**

**Workers Compensation - General Government (Medical) Experience @ 11/30/22
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	264	\$ 32,447,349	1.003	\$ 32,536,363	\$ 31,804,234	1.022	\$ 32,515,518	\$ 643,114	1.143	\$ 32,539,277																		
1-Dec-01	252	\$ 4,041,536	1.003	\$ 4,052,623	\$ 4,041,536	1.022	\$ 4,131,922	\$ -	1.143	\$ 4,041,536																		
1-Dec-02	240	\$ 4,176,635	1.003	\$ 4,188,093	\$ 4,146,964	1.022	\$ 4,239,708	\$ 29,671	1.143	\$ 4,180,876																		
1-Dec-03	228	\$ 4,506,845	1.004	\$ 4,523,803	\$ 3,811,038	1.022	\$ 3,896,786	\$ 695,807	1.205	\$ 4,649,719																		
1-Dec-04	216	\$ 12,024,387	1.005	\$ 12,081,702	\$ 12,000,994	1.022	\$ 12,271,016	\$ 23,393	1.275	\$ 12,030,816																		
1-Dec-05	204	\$ 4,203,960	1.006	\$ 4,228,222	\$ 4,203,960	1.024	\$ 4,302,847	\$ -	1.333	\$ 4,203,960																		
1-Dec-06	192	\$ 4,908,826	1.007	\$ 4,942,094	\$ 4,844,655	1.025	\$ 4,963,572	\$ 64,171	1.391	\$ 4,933,902																		
1-Dec-07	180	\$ 6,623,795	1.008	\$ 6,675,354	\$ 6,144,954	1.026	\$ 6,302,084	\$ 478,841	1.449	\$ 6,838,704																		
1-Dec-08	168	\$ 6,577,782	1.009	\$ 6,635,611	\$ 6,481,895	1.027	\$ 6,654,288	\$ 95,887	1.507	\$ 6,626,389																		
1-Dec-09	156	\$ 6,841,969	1.010	\$ 6,909,023	\$ 6,514,748	1.029	\$ 6,701,390	\$ 327,221	1.535	\$ 7,016,981																		
1-Dec-10	144	\$ 5,554,365	1.011	\$ 5,614,408	\$ 4,983,634	1.032	\$ 5,141,791	\$ 570,730	1.533	\$ 5,858,570																		
1-Dec-11	132	\$ 4,523,494	1.012	\$ 4,576,966	\$ 4,410,369	1.035	\$ 4,563,984	\$ 113,125	1.532	\$ 4,583,636																		
1-Dec-12	120	\$ 4,456,639	1.015	\$ 4,522,848	\$ 4,245,521	1.043	\$ 4,428,541	\$ 211,117	1.549	\$ 4,572,439																		
1-Dec-13	108	\$ 5,540,423	1.018	\$ 5,639,602	\$ 4,811,527	1.054	\$ 5,069,136	\$ 728,896	1.529	\$ 5,926,139																		
1-Dec-14	96	\$ 6,219,644	1.021	\$ 6,349,974	\$ 5,192,900	1.066	\$ 5,536,579	\$ 1,026,744	1.494	\$ 6,726,832																		
1-Dec-15	84	\$ 9,543,339	1.026	\$ 9,792,033	\$ 8,559,511	1.082	\$ 9,259,118	\$ 983,828	1.506	\$ 10,041,472																		
1-Dec-16	72	\$ 10,638,120	1.036	\$ 11,024,497	\$ 8,185,862	1.125	\$ 9,209,125	\$ 2,452,258	1.461	\$ 11,767,975																		
1-Dec-17	60	\$ 10,422,294	1.050	\$ 10,943,106	\$ 7,452,765	1.153	\$ 8,589,836	\$ 2,969,529	1.561	\$ 12,089,266																		
1-Dec-18	48	\$ 10,430,303	1.066	\$ 11,115,788	\$ 7,514,341	1.216	\$ 9,133,684	\$ 2,915,962	1.533	\$ 11,985,497																		
1-Dec-19	36	\$ 18,092,187	1.098	\$ 19,872,226	\$ 8,651,775	1.337	\$ 11,568,648	\$ 9,440,412	1.551	\$ 23,294,010																		
1-Dec-20	24	\$ 15,132,629	1.197	\$ 18,117,416	\$ 6,136,365	1.665	\$ 10,215,456	\$ 8,996,265	1.702	\$ 21,451,321																		
1-Dec-21	12	\$ 20,987,109	1.628	\$ 34,174,108	\$ 3,159,573	4.430	\$ 13,996,771	\$ 17,827,536	1.994	\$ 38,699,416																		
Total		\$ 207,893,629		\$ 228,515,860	\$ 157,299,122		\$ 182,691,800	\$ 50,594,507		\$ 244,058,731																		

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 @ 11/30/22
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	252	\$ 4,041,536	3.739	1.022	\$ 15,443,210	13,590,219	1.003	1.25	\$ 4,433,418	\$ 4,053,665
1-Dec-02	240	\$ 4,176,635	3.494	1.022	\$ 14,915,365	13,661,538	1.003	1.26	\$ 4,819,365	\$ 4,189,820
1-Dec-03	228	\$ 4,506,845	3.266	1.000	\$ 14,717,396	13,826,449	1.004	1.29	\$ 5,454,272	\$ 4,527,291
1-Dec-04	216	\$ 12,024,387	3.052	1.000	\$ 36,697,586	13,757,685	1.005	1.33	\$ 6,017,817	\$ 12,052,935
1-Dec-05	204	\$ 4,203,960	2.852	1.000	\$ 11,990,831	13,262,565	1.006	1.24	\$ 5,777,988	\$ 4,237,114
1-Dec-06	192	\$ 4,908,826	2.666	1.000	\$ 13,085,330	13,397,059	1.007	1.19	\$ 5,972,196	\$ 4,949,028
1-Dec-07	180	\$ 6,623,795	2.491	1.000	\$ 16,501,754	13,862,734	1.008	1.16	\$ 6,430,758	\$ 6,673,464
1-Dec-08	168	\$ 6,577,782	2.332	1.000	\$ 15,340,431	13,843,967	1.009	1.12	\$ 6,648,297	\$ 6,635,722
1-Dec-09	156	\$ 6,841,969	2.214	1.000	\$ 15,144,781	14,232,655	1.010	1.08	\$ 6,975,548	\$ 6,909,669
1-Dec-10	144	\$ 5,554,365	2.199	1.000	\$ 12,212,079	12,846,832	1.011	1.05	\$ 6,137,209	\$ 5,620,000
1-Dec-11	132	\$ 4,523,494	2.049	1.000	\$ 9,270,865	12,112,382	1.012	1.02	\$ 6,044,543	\$ 4,594,112
1-Dec-12	120	\$ 4,456,639	1.904	1.000	\$ 8,485,338	12,386,713	1.015	1.02	\$ 6,606,082	\$ 4,553,345
1-Dec-13	108	\$ 5,540,423	1.766	1.000	\$ 9,786,760	12,516,715	1.018	1.04	\$ 7,342,533	\$ 5,669,550
1-Dec-14	96	\$ 6,219,644	1.644	1.000	\$ 10,223,445	12,281,109	1.021	1.08	\$ 8,070,326	\$ 6,385,284
1-Dec-15	84	\$ 9,543,339	1.529	1.000	\$ 14,593,614	12,615,177	1.026	1.15	\$ 9,473,984	\$ 9,783,956
1-Dec-16	72	\$ 10,638,120	1.420	1.000	\$ 15,109,487	12,465,069	1.036	1.22	\$ 10,697,173	\$ 11,013,025
1-Dec-17	60	\$ 10,422,294	1.318	1.000	\$ 13,736,748	11,328,767	1.050	1.29	\$ 11,123,473	\$ 10,951,690
1-Dec-18	48	\$ 10,430,303	1.226	1.000	\$ 12,782,942	11,344,270	1.066	1.38	\$ 12,808,924	\$ 11,220,200
1-Dec-19	36	\$ 18,092,187	1.145	1.000	\$ 20,713,744	11,208,295	1.098	1.51	\$ 14,814,259	\$ 19,419,163
1-Dec-20	24	\$ 15,132,629	1.070	1.000	\$ 16,191,913	10,523,434	1.197	1.62	\$ 15,900,372	\$ 17,752,165
1-Dec-21	12	\$ 20,987,109	1.000	1.000	\$ 20,987,109	10,654,358	1.628	1.74	\$ 18,488,716	\$ 28,121,478
Total		\$ 175,446,280			\$ 317,930,728	265,717,990			\$ 180,037,254	\$ 189,312,674

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	252	\$ 4,041,536	3.739	1.022	\$ 15,443,210	13,590,219	1.022	1.23	\$ 4,372,468	\$ 4,137,184
1-Dec-02	240	\$ 4,146,964	3.494	1.022	\$ 14,809,405	13,661,538	1.022	1.24	\$ 4,735,157	\$ 4,250,546
1-Dec-03	228	\$ 3,811,038	3.266	1.000	\$ 12,445,191	13,826,449	1.022	1.26	\$ 5,328,795	\$ 3,928,297
1-Dec-04	216	\$ 12,000,994	3.052	1.000	\$ 36,626,193	13,757,685	1.022	1.31	\$ 5,912,021	\$ 12,131,087
1-Dec-05	204	\$ 4,203,960	2.852	1.000	\$ 11,990,831	13,262,565	1.024	1.22	\$ 5,661,627	\$ 4,334,074
1-Dec-06	192	\$ 4,844,655	2.666	1.000	\$ 12,914,270	13,397,059	1.025	1.16	\$ 5,820,045	\$ 4,984,091
1-Dec-07	180	\$ 6,144,954	2.491	1.000	\$ 15,308,826	13,862,734	1.026	1.12	\$ 6,216,882	\$ 6,299,959
1-Dec-08	168	\$ 6,481,895	2.332	1.000	\$ 15,116,808	13,843,967	1.027	1.08	\$ 6,388,308	\$ 6,647,397
1-Dec-09	156	\$ 6,514,748	2.214	1.000	\$ 14,420,473	14,232,655	1.029	1.03	\$ 6,630,151	\$ 6,699,406
1-Dec-10	144	\$ 4,983,634	2.199	1.000	\$ 10,957,246	12,846,832	1.032	0.98	\$ 5,750,746	\$ 5,160,522
1-Dec-11	132	\$ 4,410,369	2.049	1.000	\$ 9,039,017	12,112,382	1.035	0.94	\$ 5,584,303	\$ 4,598,326
1-Dec-12	120	\$ 4,245,521	1.904	1.000	\$ 8,083,376	12,386,713	1.043	0.92	\$ 5,977,557	\$ 4,492,558
1-Dec-13	108	\$ 4,811,527	1.766	1.000	\$ 8,499,218	12,516,715	1.054	0.91	\$ 6,469,210	\$ 5,140,287
1-Dec-14	96	\$ 5,192,900	1.644	1.000	\$ 8,535,751	12,281,109	1.066	0.93	\$ 6,914,008	\$ 5,622,082
1-Dec-15	84	\$ 8,559,511	1.529	1.000	\$ 13,089,151	12,615,177	1.082	0.96	\$ 7,891,940	\$ 9,155,816
1-Dec-16	72	\$ 8,185,862	1.420	1.000	\$ 11,626,507	12,465,069	1.125	0.97	\$ 8,552,046	\$ 9,136,114
1-Dec-17	60	\$ 7,452,765	1.318	1.000	\$ 9,822,862	11,328,767	1.153	0.99	\$ 8,484,590	\$ 8,575,904
1-Dec-18	48	\$ 7,514,341	1.226	1.000	\$ 9,209,261	11,344,270	1.216	1.00	\$ 9,267,620	\$ 9,157,430
1-Dec-19	36	\$ 8,651,775	1.145	1.000	\$ 9,905,417	11,208,295	1.337	1.02	\$ 9,995,368	\$ 11,171,967
1-Dec-20	24	\$ 6,136,365	1.070	1.000	\$ 6,565,910	10,523,434	1.665	1.03	\$ 10,112,873	\$ 10,174,494
1-Dec-21	12	\$ 3,159,573	1.000	1.000	\$ 3,159,573	10,654,358	4.430	1.04	\$ 11,062,080	\$ 11,724,545
Total		\$ 125,494,887			\$ 257,568,496	265,717,990			\$ 147,127,794	\$ 147,522,088

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	264	17,485	1.000	17,485	1.003	\$ 1,856	\$ 1,861	0	\$ 2,154	\$ 32,536,363
1-Dec-01	252	1,161	1.000	1,161	1.003	\$ 3,481	\$ 3,491	0	\$ 2,487	\$ 4,052,623
1-Dec-02	240	1,223	1.000	1,223	1.003	\$ 3,415	\$ 3,424	0	\$ 2,882	\$ 4,188,093
1-Dec-03	228	1,218	1.000	1,218	1.004	\$ 3,700	\$ 3,714	0	\$ 3,441	\$ 4,523,803
1-Dec-04	216	1,318	1.000	1,318	1.005	\$ 9,123	\$ 9,167	0	\$ 4,066	\$ 12,081,702
1-Dec-05	204	1,159	1.000	1,159	1.006	\$ 3,627	\$ 3,648	0	\$ 4,470	\$ 4,228,222
1-Dec-06	192	903	1.000	903	1.007	\$ 5,436	\$ 5,473	0	\$ 5,009	\$ 4,942,094
1-Dec-07	180	777	1.000	777	1.008	\$ 8,525	\$ 8,591	0	\$ 5,631	\$ 6,675,354
1-Dec-08	168	767	1.000	767	1.009	\$ 8,576	\$ 8,651	0	\$ 6,177	\$ 6,635,611
1-Dec-09	156	862	1.000	862	1.010	\$ 7,937	\$ 8,015	0	\$ 6,543	\$ 6,909,023
1-Dec-10	144	789	1.000	789	1.011	\$ 7,040	\$ 7,116	0	\$ 6,517	\$ 5,614,408
1-Dec-11	132	783	1.000	783	1.012	\$ 5,777	\$ 5,845	0	\$ 6,864	\$ 4,576,966
1-Dec-12	120	720	1.000	720	1.015	\$ 6,190	\$ 6,282	0	\$ 7,319	\$ 4,522,848
1-Dec-13	108	760	1.000	760	1.018	\$ 7,290	\$ 7,421	0	\$ 7,886	\$ 5,639,602
1-Dec-14	96	778	1.000	778	1.021	\$ 7,994	\$ 8,162	0	\$ 8,507	\$ 6,349,974
1-Dec-15	84	1,108	1.001	1,109	1.025	\$ 8,613	\$ 8,829	1	\$ 9,205	\$ 9,791,456
1-Dec-16	72	1,239	1.002	1,241	1.034	\$ 8,586	\$ 8,880	2	\$ 10,016	\$ 11,022,514
1-Dec-17	60	1,086	1.003	1,089	1.047	\$ 9,597	\$ 10,046	3	\$ 11,055	\$ 10,943,506
1-Dec-18	48	1,038	1.004	1,042	1.061	\$ 10,048	\$ 10,666	4	\$ 12,310	\$ 11,120,677
1-Dec-19	36	1,210	1.007	1,218	1.091	\$ 14,952	\$ 16,311	8	\$ 13,881	\$ 19,847,284
1-Dec-20	24	1,190	1.011	1,203	1.184	\$ 12,716	\$ 15,060	13	\$ 15,412	\$ 18,122,101
1-Dec-21	12	1,262	1.037	1,309	1.570	\$ 16,630	\$ 26,117	47	\$ 17,369	\$ 33,775,536
Total		38,836		38,914				78		\$ 228,099,761

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 @ 11/30/22
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	0.78	1.022	0.76	\$ 5,750,603	0.003	\$ 15,733	\$ 4,057,269
1-Dec-02	\$ 9,500,000	\$ 4,176,635	1.003	0.81	1.022	0.79	\$ 6,185,436	0.003	\$ 16,922	\$ 4,193,557
1-Dec-03	Various	\$ 4,506,845	1.004	0.84	1.000	0.84	\$ 6,845,898	0.004	\$ 25,663	\$ 4,532,508
1-Dec-04	Unlimited	\$ 12,024,387	1.005	0.88	1.000	0.88	\$ 7,288,680	0.005	\$ 34,577	\$ 12,058,964
1-Dec-05	Unlimited	\$ 4,203,960	1.006	0.91	1.000	0.91	\$ 7,518,216	0.006	\$ 43,141	\$ 4,247,100
1-Dec-06	Unlimited	\$ 4,908,826	1.007	0.94	1.000	0.94	\$ 8,126,070	0.007	\$ 54,700	\$ 4,963,526
1-Dec-07	Unlimited	\$ 6,623,795	1.008	0.98	1.000	0.98	\$ 8,997,125	0.008	\$ 69,491	\$ 6,693,286
1-Dec-08	Unlimited	\$ 6,577,782	1.009	1.02	1.000	1.02	\$ 9,597,996	0.009	\$ 83,646	\$ 6,661,428
1-Dec-09	Unlimited	\$ 6,841,969	1.010	1.04	1.000	1.04	\$ 10,396,379	0.010	\$ 100,900	\$ 6,942,869
1-Dec-10	Unlimited	\$ 5,554,365	1.011	1.02	1.000	1.02	\$ 9,447,543	0.011	\$ 101,037	\$ 5,655,402
1-Dec-11	Unlimited	\$ 4,523,494	1.012	1.06	1.000	1.06	\$ 9,555,676	0.012	\$ 111,638	\$ 4,635,132
1-Dec-12	Unlimited	\$ 4,456,639	1.015	1.11	1.000	1.11	\$ 10,518,950	0.015	\$ 153,986	\$ 4,610,625
1-Dec-13	Unlimited	\$ 5,540,423	1.018	1.16	1.000	1.16	\$ 11,457,040	0.018	\$ 201,486	\$ 5,741,908
1-Dec-14	Unlimited	\$ 6,219,644	1.021	1.21	1.000	1.21	\$ 12,080,471	0.021	\$ 247,947	\$ 6,467,591
1-Dec-15	Unlimited	\$ 9,543,339	1.026	1.27	1.000	1.27	\$ 13,338,559	0.025	\$ 338,767	\$ 9,882,107
1-Dec-16	Unlimited	\$ 10,638,120	1.036	1.32	1.000	1.32	\$ 14,190,182	0.035	\$ 497,325	\$ 11,135,445
1-Dec-17	Unlimited	\$ 10,422,294	1.050	1.38	1.000	1.38	\$ 13,897,609	0.048	\$ 661,425	\$ 11,083,719
1-Dec-18	Unlimited	\$ 10,430,303	1.066	1.44	1.000	1.44	\$ 14,966,518	0.062	\$ 922,950	\$ 11,353,253
1-Dec-19	Unlimited	\$ 18,092,187	1.098	1.50	1.000	1.50	\$ 15,828,876	0.090	\$ 1,417,860	\$ 19,510,046
1-Dec-20	Unlimited	\$ 15,132,629	1.197	1.56	1.000	1.56	\$ 15,902,001	0.165	\$ 2,619,804	\$ 17,752,434
1-Dec-21	Unlimited	\$ 20,987,109	1.628	1.62	1.000	1.62	\$ 17,226,829	0.386	\$ 6,647,435	\$ 27,634,545
Total		\$ 175,446,280					\$ 229,116,655		\$ 14,366,433	\$ 189,812,713

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 @ 11/30/22
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	1.022	0.78	1.022	0.76	\$ 5,750,603	0.022	\$ 125,796	\$ 4,167,331
1-Dec-02	\$ 9,500,000	\$ 4,146,964	1.022	0.81	1.022	0.79	\$ 6,185,436	0.022	\$ 135,308	\$ 4,282,272
1-Dec-03	Various	\$ 3,811,038	1.022	0.84	1.000	0.84	\$ 6,845,898	0.022	\$ 150,643	\$ 3,961,680
1-Dec-04	Unlimited	\$ 12,000,994	1.022	0.88	1.000	0.88	\$ 7,288,680	0.022	\$ 160,386	\$ 12,161,381
1-Dec-05	Unlimited	\$ 4,203,960	1.024	0.91	1.000	0.91	\$ 7,518,216	0.023	\$ 172,782	\$ 4,376,742
1-Dec-06	Unlimited	\$ 4,844,655	1.025	0.94	1.000	0.94	\$ 8,126,070	0.024	\$ 194,683	\$ 5,039,339
1-Dec-07	Unlimited	\$ 6,144,954	1.026	0.98	1.000	0.98	\$ 8,997,125	0.025	\$ 224,325	\$ 6,369,279
1-Dec-08	Unlimited	\$ 6,481,895	1.027	1.02	1.000	1.02	\$ 9,597,996	0.026	\$ 248,656	\$ 6,730,551
1-Dec-09	Unlimited	\$ 6,514,748	1.029	1.04	1.000	1.04	\$ 10,396,379	0.028	\$ 289,553	\$ 6,804,301
1-Dec-10	Unlimited	\$ 4,983,634	1.032	1.02	1.000	1.02	\$ 9,447,543	0.031	\$ 290,597	\$ 5,274,232
1-Dec-11	Unlimited	\$ 4,410,369	1.035	1.06	1.000	1.06	\$ 9,555,676	0.034	\$ 321,625	\$ 4,731,995
1-Dec-12	Unlimited	\$ 4,245,521	1.043	1.11	1.000	1.11	\$ 10,518,950	0.041	\$ 434,721	\$ 4,680,242
1-Dec-13	Unlimited	\$ 4,811,527	1.054	1.16	1.000	1.16	\$ 11,457,040	0.051	\$ 582,237	\$ 5,393,765
1-Dec-14	Unlimited	\$ 5,192,900	1.066	1.21	1.000	1.21	\$ 12,080,471	0.062	\$ 749,886	\$ 5,942,786
1-Dec-15	Unlimited	\$ 8,559,511	1.082	1.27	1.000	1.27	\$ 13,338,559	0.076	\$ 1,007,844	\$ 9,567,355
1-Dec-16	Unlimited	\$ 8,185,862	1.125	1.32	1.000	1.32	\$ 14,190,182	0.111	\$ 1,576,728	\$ 9,762,590
1-Dec-17	Unlimited	\$ 7,452,765	1.153	1.38	1.000	1.38	\$ 13,897,609	0.132	\$ 1,839,681	\$ 9,292,446
1-Dec-18	Unlimited	\$ 7,514,341	1.216	1.44	1.000	1.44	\$ 14,966,518	0.177	\$ 2,653,467	\$ 10,167,808
1-Dec-19	Unlimited	\$ 8,651,775	1.337	1.50	1.000	1.50	\$ 15,828,876	0.252	\$ 3,991,030	\$ 12,642,805
1-Dec-20	Unlimited	\$ 6,136,365	1.665	1.56	1.000	1.56	\$ 15,902,001	0.399	\$ 6,349,762	\$ 12,486,127
1-Dec-21	Unlimited	\$ 3,159,573	4.430	1.62	1.000	1.62	\$ 17,226,829	0.774	\$ 13,338,116	\$ 16,497,689
Total		\$ 125,494,887					\$ 229,116,655		\$ 34,837,827	\$ 160,332,715

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 @ 11/30/22
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) Payroll (in 00s)
	Unlimited	Limited	Unlimited	Limited		Loss	Exposure	
Prior	1.003	1.003	1.023	1.022	1.000	4.000	1.837	-
1-Dec-01	1.003	1.003	1.023	1.022	1.000	3.739	1.806	7,524,575
1-Dec-02	1.003	1.003	1.023	1.022	1.000	3.494	1.754	7,790,984
1-Dec-03	1.004	1.004	1.023	1.022	1.000	3.266	1.707	8,101,821
1-Dec-04	1.005	1.005	1.023	1.022	1.000	3.052	1.653	8,323,626
1-Dec-05	1.006	1.006	1.024	1.024	1.000	2.852	1.605	8,264,792
1-Dec-06	1.007	1.007	1.025	1.025	1.000	2.666	1.558	8,599,062
1-Dec-07	1.008	1.008	1.026	1.026	1.000	2.491	1.516	9,142,601
1-Dec-08	1.009	1.009	1.027	1.027	1.000	2.332	1.469	9,427,068
1-Dec-09	1.010	1.010	1.029	1.029	1.000	2.214	1.426	9,982,498
1-Dec-10	1.011	1.011	1.032	1.032	1.000	2.199	1.384	9,280,825
1-Dec-11	1.012	1.012	1.035	1.035	1.000	2.049	1.347	8,990,821
1-Dec-12	1.015	1.015	1.043	1.043	1.000	1.904	1.305	9,493,384
1-Dec-13	1.018	1.018	1.054	1.054	1.000	1.766	1.267	9,880,811
1-Dec-14	1.021	1.021	1.066	1.066	1.000	1.644	1.230	9,985,665
1-Dec-15	1.026	1.026	1.082	1.082	1.001	1.529	1.197	10,539,306
1-Dec-16	1.036	1.036	1.125	1.125	1.002	1.420	1.159	10,752,478
1-Dec-17	1.050	1.050	1.153	1.153	1.003	1.318	1.126	10,065,463
1-Dec-18	1.066	1.066	1.216	1.216	1.004	1.226	1.093	10,381,614
1-Dec-19	1.098	1.098	1.337	1.337	1.007	1.145	1.063	10,539,188
1-Dec-20	1.197	1.197	1.665	1.665	1.011	1.070	1.030	10,216,926
1-Dec-21	1.628	1.628	4.430	4.430	1.037	1.000	1.000	10,654,358

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 :
States Selected for WC :

0.75 0.75 0.75
1.68
0.75
Exhibit 10, Column (5)
4.13%
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) : Medical CPI Indices and 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 @ 11/30/22
Limited Loss Calculations**

(1) Policy Period Inception	(2)			(3)	(4)	(5)	(6)				(7)	(8)	(9)	(10)			(11)	(12)
	Unlimited			Case O/S	Retention	Claims valued over the Retention				Incurred	No.	Paid	Limited			Paid	Case O/S	
	Incurred	Paid				No.	Incurred	No.					Incurred	Paid				
Prior	\$ 32,447,349	\$ 31,804,234	\$	643,114	Various	-	\$	-	-	\$	-	-	\$	32,447,349	\$	31,804,234	\$	643,114
1-Dec-01	\$ 4,041,536	\$ 4,041,536	\$	-	\$ 9,500,000	-	\$	-	-	\$	-	-	\$	4,041,536	\$	4,041,536	\$	-
1-Dec-02	\$ 4,176,635	\$ 4,146,964	\$	29,671	\$ 9,500,000	-	\$	-	-	\$	-	-	\$	4,176,635	\$	4,146,964	\$	29,671
1-Dec-03	\$ 4,506,845	\$ 3,811,038	\$	695,807	Various	-	\$	-	-	\$	-	-	\$	4,506,845	\$	3,811,038	\$	695,807
1-Dec-04	\$ 12,024,387	\$ 12,000,994	\$	23,393	Unlimited	-	\$	-	-	\$	-	-	\$	12,024,387	\$	12,000,994	\$	23,393
1-Dec-05	\$ 4,203,959	\$ 4,203,959	\$	-	Unlimited	-	\$	-	-	\$	-	-	\$	4,203,960	\$	4,203,960	\$	-
1-Dec-06	\$ 4,908,826	\$ 4,844,655	\$	64,171	Unlimited	-	\$	-	-	\$	-	-	\$	4,908,826	\$	4,844,655	\$	64,171
1-Dec-07	\$ 6,623,795	\$ 6,144,954	\$	478,841	Unlimited	-	\$	-	-	\$	-	-	\$	6,623,795	\$	6,144,954	\$	478,841
1-Dec-08	\$ 6,577,782	\$ 6,481,895	\$	95,887	Unlimited	-	\$	-	-	\$	-	-	\$	6,577,782	\$	6,481,895	\$	95,887
1-Dec-09	\$ 6,841,969	\$ 6,514,748	\$	327,221	Unlimited	-	\$	-	-	\$	-	-	\$	6,841,969	\$	6,514,748	\$	327,221
1-Dec-10	\$ 5,554,365	\$ 4,983,634	\$	570,730	Unlimited	-	\$	-	-	\$	-	-	\$	5,554,365	\$	4,983,634	\$	570,730
1-Dec-11	\$ 4,523,494	\$ 4,410,369	\$	113,125	Unlimited	-	\$	-	-	\$	-	-	\$	4,523,494	\$	4,410,369	\$	113,125
1-Dec-12	\$ 4,456,639	\$ 4,245,521	\$	211,117	Unlimited	-	\$	-	-	\$	-	-	\$	4,456,639	\$	4,245,521	\$	211,117
1-Dec-13	\$ 5,540,423	\$ 4,811,527	\$	728,896	Unlimited	-	\$	-	-	\$	-	-	\$	5,540,423	\$	4,811,527	\$	728,896
1-Dec-14	\$ 6,219,644	\$ 5,192,900	\$	1,026,744	Unlimited	-	\$	-	-	\$	-	-	\$	6,219,644	\$	5,192,900	\$	1,026,744
1-Dec-15	\$ 9,543,339	\$ 8,559,511	\$	983,828	Unlimited	-	\$	-	-	\$	-	-	\$	9,543,339	\$	8,559,511	\$	983,828
1-Dec-16	\$ 10,638,120	\$ 8,185,862	\$	2,452,258	Unlimited	-	\$	-	-	\$	-	-	\$	10,638,120	\$	8,185,862	\$	2,452,258
1-Dec-17	\$ 10,422,294	\$ 7,452,765	\$	2,969,529	Unlimited	-	\$	-	-	\$	-	-	\$	10,422,294	\$	7,452,765	\$	2,969,529
1-Dec-18	\$ 10,430,303	\$ 7,514,341	\$	2,915,962	Unlimited	-	\$	-	-	\$	-	-	\$	10,430,303	\$	7,514,341	\$	2,915,962
1-Dec-19	\$ 18,092,187	\$ 8,651,775	\$	9,440,412	Unlimited	-	\$	-	-	\$	-	-	\$	18,092,187	\$	8,651,775	\$	9,440,412
1-Dec-20	\$ 15,132,629	\$ 6,136,365	\$	8,996,265	Unlimited	-	\$	-	-	\$	-	-	\$	15,132,629	\$	6,136,365	\$	8,996,265
1-Dec-21	\$ 20,987,109	\$ 3,159,573	\$	17,827,536	Unlimited	-	\$	-	-	\$	-	-	\$	20,987,109	\$	3,159,573	\$	17,827,536
	\$ 207,893,629	\$ 157,299,122	\$	50,594,507		-	\$	-	-	\$	-	-	\$	207,893,629	\$	157,299,122	\$	50,594,507

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 @ 11/30/22
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	13,590,219	1,161	1.000	1,161	1.000	1,161	0.00854%		1,161	1,161	0.00854%
1-Dec-02	13,661,538	1,223	1.000	1,223	1.000	1,223	0.00895%		1,223	1,223	0.00895%
1-Dec-03	13,826,449	1,218	1.000	1,218	1.000	1,218	0.00881%		1,218	1,218	0.00881%
1-Dec-04	13,757,685	1,318	1.000	1,318	1.000	1,318	0.00958%		1,318	1,318	0.00958%
1-Dec-05	13,262,565	1,159	1.000	1,159	1.000	1,159	0.00874%		1,159	1,159	0.00874%
1-Dec-06	13,397,059	903	1.000	903	1.000	903	0.00674%		903	903	0.00674%
1-Dec-07	13,862,734	777	1.000	777	1.000	777	0.00560%		777	777	0.00560%
1-Dec-08	13,843,967	767	1.000	767	1.000	767	0.00554%		767	767	0.00554%
1-Dec-09	14,232,655	862	1.000	862	1.000	862	0.00606%		862	862	0.00606%
1-Dec-10	12,846,832	789	1.000	789	1.000	789	0.00614%		789	789	0.00614%
1-Dec-11	12,112,382	783	1.000	783	1.000	783	0.00646%		783	783	0.00646%
1-Dec-12	12,386,713	720	1.000	720	1.000	720	0.00581%		720	720	0.00581%
1-Dec-13	12,516,715	760	1.000	760	1.000	760	0.00607%		760	760	0.00607%
1-Dec-14	12,281,109	778	1.000	778	1.000	778	0.00633%		778	778	0.00633%
1-Dec-15	12,615,177	1,108	1.001	1,109	1.000	1,109	0.00879%		1,109	1,109	0.00879%
1-Dec-16	12,465,069	1,239	1.002	1,241	1.000	1,241	0.00996%		1,241	1,241	0.00996%
1-Dec-17	11,328,767	1,086	1.003	1,089	1.000	1,089	0.00962%		1,089	1,089	0.00962%
1-Dec-18	11,344,270	1,038	1.004	1,042	1.000	1,042	0.00919%		1,042	1,042	0.00919%
1-Dec-19	11,208,295	1,210	1.007	1,218	1.000	1,218	0.01087%		1,218	1,218	0.01087%
1-Dec-20	10,523,434	1,190	1.011	1,203	1.000	1,203	0.01143%		1,203	1,203	0.01143%
1-Dec-21	10,654,358	1,262	1.037	1,309	1.000	1,309	0.01228%		1,309	1,309	0.01228%
Total	265,717,990	21,351		21,430		21,430	0.00806%		21,430	21,429	0.00806%

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 1,264
 Column (10) : Selected Trended Ultimate Claims
 Column (11) : Column (10) / Column (6)
 Column (12) : Column (10) / Column (2)

Selected Bornhuetter-Ferguson Claim Count for Policy Period 1-Dec-21			
<u>Weighted Averages excluding Policy Period 1-Dec-21</u>			
Last 5 Policies	55,059,123	5,861	0.01065%
Last 3 Policies	32,386,086	3,730	0.01152%
Last 2 Policies	21,177,792	2,512	0.01186%
Last 20 Policies	255,063,633	20,121	0.00789%
Selected Bornhuetter-Ferguson Frequency Rate			0.01186%
Payroll for 1-Dec-21			10,654,358
Apriori Expected Count for 1-Dec-21			1,264



Cook County, Illinois
Workers Compensation - General Government (Medical)
Workers Compensation - General Government (Medical) Experience @ 11/30/22
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	4,041,536	4,041,536	4.000	1.022	16,524,235	7,524,575	1.860	13,997,926	1.18
1-Dec-02	4,176,635	4,190,000	3.739	1.022	16,010,510	7,790,984	1.806	14,071,385	1.14
1-Dec-03	4,506,845	4,524,000	3.494	1.000	15,807,555	8,101,821	1.758	14,241,242	1.11
1-Dec-04	12,024,387	12,082,000	3.266	1.000	39,454,556	8,323,626	1.702	14,170,415	2.78
1-Dec-05	4,203,960	4,220,000	3.052	1.000	12,879,144	8,264,792	1.653	13,660,441	0.94
1-Dec-06	4,908,826	4,944,000	2.852	1.000	14,101,627	8,599,062	1.605	13,798,971	1.02
1-Dec-07	6,623,795	6,680,000	2.666	1.000	17,806,701	9,142,601	1.562	14,278,616	1.25
1-Dec-08	6,577,782	6,700,000	2.495	1.000	16,719,245	9,427,068	1.513	14,259,286	1.17
1-Dec-09	6,841,969	6,920,000	2.368	1.000	16,389,729	9,982,498	1.469	14,659,634	1.12
1-Dec-10	5,554,365	5,620,000	2.353	1.000	13,221,335	9,280,825	1.426	13,232,237	1.00
1-Dec-11	4,523,494	4,610,000	2.193	1.000	10,109,529	8,990,821	1.388	12,475,754	0.81
1-Dec-12	4,456,639	4,560,000	2.037	1.000	9,289,886	9,493,384	1.344	12,758,314	0.73
1-Dec-13	5,540,423	5,700,000	1.890	1.000	10,773,447	9,880,811	1.305	12,892,217	0.84
1-Dec-14	6,219,644	6,400,000	1.759	1.000	11,256,296	9,985,665	1.267	12,649,542	0.89
1-Dec-15	9,543,339	9,800,000	1.636	1.000	16,035,125	10,539,306	1.233	12,993,632	1.23
1-Dec-16	10,638,120	11,100,000	1.520	1.000	16,869,087	10,752,478	1.194	12,839,021	1.31
1-Dec-17	10,422,294	11,000,000	1.410	1.000	15,513,046	10,065,463	1.159	11,668,630	1.33
1-Dec-18	10,430,303	11,400,000	1.311	1.000	14,949,357	10,381,614	1.126	11,684,598	1.28
1-Dec-19	18,092,187	19,500,000	1.225	1.000	23,888,339	10,539,188	1.095	11,544,544	2.07
1-Dec-20	15,132,629	17,400,000	1.145	1.000	19,921,260	10,216,926	1.061	10,839,137	1.84
1-Dec-21	20,987,109	24,000,000	1.070	1.000	25,680,000	10,654,358	1.030	10,973,988	2.34
All Year Weighted Average					353,200,009			273,689,530	1.29
Latest 5-Year Weighted Average					99,952,002			56,710,897	1.76
Latest 3-Year Weighted Average					69,489,599			33,357,669	2.08
SELECTED - Based on Shaded PY					116,821,089			69,549,918	1.68

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

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

Column (3) : Trend Indices appropriate for Workers Compensation - General Government (Medical)

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) Policy Period Inception	(11) Retention	(12) Payroll (in 00s)	(13) Claim Count	(14) Loss Rate	(15) Loss Amount
1-Dec-22	Unlimited	11,616,907	1,338	1.68	19,500,000
1-Dec-23	Unlimited	11,936,302	1,338	1.75	20,900,000
1-Dec-24	Unlimited	12,324,377	1,338	1.81	22,300,000

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



**Cook County, Illinois
Workers Compensation - General Government (Medical)**

Average : \$5,542 sigma = 2.192
CV : 11.00 mu = 6.218

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
264	1.003	1.000	9,500,000	4.493	2.302	1.000	0.989	5,516	9,526,220	4.495	2.303	1.000	0.989	5,517	1.003
252	1.003	1.000	9,500,000	4.493	2.302	1.000	0.989	5,516	9,526,220	4.495	2.303	1.000	0.989	5,517	1.003
240	1.003	1.000	9,500,000	4.493	2.302	1.000	0.989	5,516	9,526,220	4.495	2.303	1.000	0.989	5,517	1.003
228	1.004	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,003,762,759	6.620	4.428	1.000	1.000	5,542	1.004
216	1.005	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,004,766,522	6.620	4.428	1.000	1.000	5,542	1.005
204	1.006	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,005,771,288	6.620	4.429	1.000	1.000	5,542	1.006
192	1.007	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,006,777,060	6.621	4.429	1.000	1.000	5,542	1.007
180	1.008	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,007,783,837	6.621	4.430	1.000	1.000	5,542	1.008
168	1.009	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,008,791,620	6.622	4.430	1.000	1.000	5,542	1.009
156	1.010	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,009,800,412	6.622	4.431	1.000	1.000	5,542	1.010
144	1.011	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,010,810,212	6.623	4.431	1.000	1.000	5,542	1.011
132	1.012	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,011,821,023	6.623	4.431	1.000	1.000	5,542	1.012
120	1.015	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,014,856,486	6.625	4.433	1.000	1.000	5,542	1.015
108	1.018	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,017,901,055	6.626	4.434	1.000	1.000	5,542	1.018
96	1.021	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,020,954,758	6.627	4.436	1.000	1.000	5,542	1.021
84	1.026	1.001	999,999,999	6.618	4.426	1.000	1.000	5,542	1,025,034,498	6.629	4.437	1.000	1.000	5,542	1.026
72	1.036	1.002	999,999,999	6.618	4.426	1.000	1.000	5,542	1,034,250,592	6.633	4.441	1.000	1.000	5,542	1.036
60	1.050	1.003	999,999,999	6.618	4.426	1.000	1.000	5,542	1,046,827,503	6.639	4.447	1.000	1.000	5,542	1.050
48	1.066	1.004	999,999,999	6.618	4.426	1.000	1.000	5,542	1,061,468,448	6.645	4.453	1.000	1.000	5,542	1.066
36	1.098	1.007	999,999,999	6.618	4.426	1.000	1.000	5,542	1,090,870,874	6.658	4.466	1.000	1.000	5,542	1.098
24	1.197	1.011	999,999,999	6.618	4.426	1.000	1.000	5,542	1,184,312,004	6.695	4.503	1.000	1.000	5,542	1.197
12	1.628	1.037	999,999,999	6.618	4.426	1.000	1.000	5,542	1,570,451,290	6.824	4.632	1.000	1.000	5,542	1.628

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 : \$5,542 sigma = 2.192
CV : 11.00 mu = 6.218

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
264	1.023	1.000	9,500,000	4.493	2.302	1.000	0.989	5,516	9,713,750	4.504	2.312	1.000	0.990	5,517	1.022
252	1.023	1.000	9,500,000	4.493	2.302	1.000	0.989	5,516	9,713,750	4.504	2.312	1.000	0.990	5,517	1.022
240	1.023	1.000	9,500,000	4.493	2.302	1.000	0.989	5,516	9,713,750	4.504	2.312	1.000	0.990	5,517	1.022
228	1.023	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,022,499,999	6.628	4.436	1.000	1.000	5,542	1.022
216	1.023	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,022,499,999	6.628	4.436	1.000	1.000	5,542	1.022
204	1.024	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,023,522,499	6.628	4.437	1.000	1.000	5,542	1.024
192	1.025	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,024,546,021	6.629	4.437	1.000	1.000	5,542	1.025
180	1.026	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,025,570,567	6.629	4.438	1.000	1.000	5,542	1.026
168	1.027	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,026,596,138	6.630	4.438	1.000	1.000	5,542	1.027
156	1.029	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,028,649,330	6.631	4.439	1.000	1.000	5,542	1.029
144	1.032	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,031,735,278	6.632	4.440	1.000	1.000	5,542	1.032
132	1.035	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,034,830,484	6.633	4.442	1.000	1.000	5,542	1.035
120	1.043	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,043,109,128	6.637	4.445	1.000	1.000	5,542	1.043
108	1.054	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,053,540,219	6.642	4.450	1.000	1.000	5,542	1.054
96	1.066	1.000	999,999,999	6.618	4.426	1.000	1.000	5,542	1,066,182,702	6.647	4.455	1.000	1.000	5,542	1.066
84	1.082	1.001	999,999,999	6.618	4.426	1.000	1.000	5,542	1,080,654,020	6.653	4.461	1.000	1.000	5,542	1.082
72	1.125	1.002	999,999,999	6.618	4.426	1.000	1.000	5,542	1,122,757,424	6.671	4.479	1.000	1.000	5,542	1.125
60	1.153	1.003	999,999,999	6.618	4.426	1.000	1.000	5,542	1,149,119,937	6.681	4.489	1.000	1.000	5,542	1.153
48	1.216	1.004	999,999,999	6.618	4.426	1.000	1.000	5,542	1,210,651,115	6.705	4.513	1.000	1.000	5,542	1.216
36	1.337	1.007	999,999,999	6.618	4.426	1.000	1.000	5,542	1,327,992,036	6.747	4.555	1.000	1.000	5,542	1.337
24	1.665	1.011	999,999,999	6.618	4.426	1.000	1.000	5,542	1,646,763,033	6.845	4.654	1.000	1.000	5,542	1.665
12	4.430	1.037	999,999,999	6.618	4.426	1.000	1.000	5,542	4,272,475,566	7.280	5.089	1.000	1.000	5,542	4.430

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 12/1/2022 to 11/30/2023**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/22	Percent Losses Paid	Months of Development 11/30/23	Percent Losses Paid	Estimated Outstanding Losses 11/30/22	Projected Losses Paid	Estimated Outstanding Losses 11/30/23	Discount Factor	Discounted Outstanding Losses 11/30/23
Prior	264	97.8%	276	98.4%	\$ 733,766	\$ 180,417	* \$ 553,349	0.875	\$ 484,216
1-Dec-01	252	97.8%	264	97.8%	\$ -	\$ -	* \$ -	0.875	\$ -
1-Dec-02	240	97.8%	252	97.8%	\$ 43,036	\$ -	* \$ 43,036	0.840	\$ 36,150
1-Dec-03	228	97.8%	240	97.8%	\$ 712,962	\$ -	* \$ 712,962	0.807	\$ 575,135
1-Dec-04	216	97.8%	228	97.8%	\$ 81,006	\$ -	* \$ 81,006	0.775	\$ 62,754
1-Dec-05	204	97.7%	216	97.8%	\$ 16,041	\$ 682	* \$ 15,359	0.744	\$ 11,426
1-Dec-06	192	97.6%	204	97.7%	\$ 99,345	\$ 4,047	* \$ 95,297	0.726	\$ 69,162
1-Dec-07	180	97.5%	192	97.6%	\$ 535,046	\$ 20,924	* \$ 514,121	0.708	\$ 364,253
1-Dec-08	168	97.4%	180	97.5%	\$ 218,105	\$ 8,201	* \$ 209,904	0.692	\$ 145,278
1-Dec-09	156	97.2%	168	97.4%	\$ 405,252	\$ 28,291	* \$ 376,962	0.677	\$ 255,023
1-Dec-10	144	96.9%	156	97.2%	\$ 636,366	\$ 60,157	* \$ 576,209	0.673	\$ 387,646
1-Dec-11	132	96.6%	144	96.9%	\$ 199,631	\$ 17,194	* \$ 182,436	0.678	\$ 123,626
1-Dec-12	120	95.9%	132	96.6%	\$ 314,479	\$ 58,360	* \$ 256,119	0.679	\$ 173,937
1-Dec-13	108	94.9%	120	95.9%	\$ 888,473	\$ 165,945	* \$ 722,528	0.713	\$ 515,183
1-Dec-14	96	93.8%	108	94.9%	\$ 1,207,100	\$ 218,867	* \$ 988,233	0.740	\$ 731,190
1-Dec-15	84	92.4%	96	93.8%	\$ 1,240,489	\$ 221,381	* \$ 1,019,108	0.759	\$ 773,916
1-Dec-16	72	88.9%	84	92.4%	\$ 2,914,138	\$ 728,534	* \$ 2,185,603	0.774	\$ 1,691,718
1-Dec-17	60	86.8%	72	88.9%	\$ 3,547,235	\$ 569,704	* \$ 2,977,531	0.819	\$ 2,438,764
1-Dec-18	48	82.3%	60	86.8%	\$ 3,885,659	\$ 971,415	* \$ 2,914,244	0.818	\$ 2,382,782
1-Dec-19	36	74.8%	48	82.3%	\$ 10,848,225	\$ 2,712,056	* \$ 8,136,169	0.835	\$ 6,790,055
1-Dec-20	24	60.1%	36	74.8%	\$ 11,263,635	\$ 2,815,909	* \$ 8,447,727	0.854	\$ 7,218,102
1-Dec-21	12	22.6%	24	60.1%	\$ 20,840,427	\$ 5,210,107	* \$ 15,630,320	0.879	\$ 13,743,891
1-Dec-22	0	0.0%	12	22.6%	\$ 19,500,000	\$ 4,401,849	* \$ 15,098,151	0.910	\$ 13,740,390
Total					\$ 80,130,414	\$ 18,394,040	\$ 61,736,374		\$ 52,714,599

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 4.13% 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 12/1/2023 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	98.4%	288	98.8%	\$ 553,349	\$ 136,619	\$ 416,730	0.875	\$ 364,795
1-Dec-01	264	97.8%	276	98.4%	\$ -	\$ -	\$ -	0.875	\$ -
1-Dec-02	252	97.8%	264	97.8%	\$ 43,036	\$ -	\$ 43,036	0.875	\$ 37,643
1-Dec-03	240	97.8%	252	97.8%	\$ 712,962	\$ -	\$ 712,962	0.840	\$ 598,889
1-Dec-04	228	97.8%	240	97.8%	\$ 81,006	\$ -	\$ 81,006	0.807	\$ 65,346
1-Dec-05	216	97.8%	228	97.8%	\$ 15,359	\$ -	\$ 15,359	0.775	\$ 11,898
1-Dec-06	204	97.7%	216	97.8%	\$ 95,297	\$ 4,051	\$ 91,246	0.744	\$ 67,884
1-Dec-07	192	97.6%	204	97.7%	\$ 514,121	\$ 20,945	\$ 493,176	0.726	\$ 357,922
1-Dec-08	180	97.5%	192	97.6%	\$ 209,904	\$ 8,209	\$ 201,695	0.708	\$ 142,900
1-Dec-09	168	97.4%	180	97.5%	\$ 376,962	\$ 14,174	\$ 362,788	0.692	\$ 251,091
1-Dec-10	156	97.2%	168	97.4%	\$ 576,209	\$ 40,225	\$ 535,984	0.677	\$ 362,605
1-Dec-11	144	96.9%	156	97.2%	\$ 182,436	\$ 17,246	\$ 165,190	0.673	\$ 111,132
1-Dec-12	132	96.6%	144	96.9%	\$ 256,119	\$ 22,060	\$ 234,059	0.678	\$ 158,608
1-Dec-13	120	95.9%	132	96.6%	\$ 722,528	\$ 134,084	\$ 588,444	0.679	\$ 399,628
1-Dec-14	108	94.9%	120	95.9%	\$ 988,233	\$ 184,578	\$ 803,655	0.713	\$ 573,029
1-Dec-15	96	93.8%	108	94.9%	\$ 1,019,108	\$ 184,781	\$ 834,327	0.740	\$ 617,315
1-Dec-16	84	92.4%	96	93.8%	\$ 1,981,644	\$ 353,650	\$ 1,627,994	0.759	\$ 1,236,308
1-Dec-17	72	88.9%	84	92.4%	\$ 2,977,531	\$ 744,383	\$ 2,233,148	0.774	\$ 1,728,519
1-Dec-18	60	86.8%	72	88.9%	\$ 2,901,178	\$ 465,944	\$ 2,435,234	0.819	\$ 1,994,592
1-Dec-19	48	82.3%	60	86.8%	\$ 7,628,105	\$ 1,907,026	\$ 5,721,079	0.818	\$ 4,677,741
1-Dec-20	36	74.8%	48	82.3%	\$ 7,112,263	\$ 1,778,066	\$ 5,334,197	0.835	\$ 4,451,665
1-Dec-21	24	60.1%	36	74.8%	\$ 10,747,889	\$ 2,686,972	\$ 8,060,917	0.854	\$ 6,887,595
1-Dec-22	12	22.6%	24	60.1%	\$ 15,098,151	\$ 3,774,538	\$ 11,323,613	0.879	\$ 9,956,962
1-Dec-23	0	0.0%	12	22.6%	\$ 20,900,000	\$ 4,717,879	\$ 16,182,121	0.910	\$ 14,726,879
Total					\$ 75,693,389	\$ 17,195,429	\$ 58,497,960		\$ 49,780,948

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 4.13% 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	98.8%	300	99.1%	\$ 416,730	\$ 103,209	\$ 313,520	0.876	\$ 274,535
1-Dec-01	276	98.4%	288	98.8%	\$ -	\$ -	\$ -	0.875	\$ -
1-Dec-02	264	97.8%	276	98.4%	\$ 43,036	\$ 10,582	\$ 32,454	0.875	\$ 28,400
1-Dec-03	252	97.8%	264	97.8%	\$ 712,962	\$ -	\$ 712,962	0.875	\$ 623,623
1-Dec-04	240	97.8%	252	97.8%	\$ 81,006	\$ -	\$ 81,006	0.840	\$ 68,045
1-Dec-05	228	97.8%	240	97.8%	\$ 15,359	\$ -	\$ 15,359	0.807	\$ 12,390
1-Dec-06	216	97.8%	228	97.8%	\$ 91,246	\$ -	\$ 91,246	0.775	\$ 70,687
1-Dec-07	204	97.7%	216	97.8%	\$ 493,176	\$ 20,966	\$ 472,210	0.744	\$ 351,307
1-Dec-08	192	97.6%	204	97.7%	\$ 201,695	\$ 8,217	\$ 193,478	0.726	\$ 140,417
1-Dec-09	180	97.5%	192	97.6%	\$ 362,788	\$ 14,188	\$ 348,600	0.708	\$ 246,982
1-Dec-10	168	97.4%	180	97.5%	\$ 535,984	\$ 20,153	\$ 515,831	0.692	\$ 357,014
1-Dec-11	156	97.2%	168	97.4%	\$ 165,190	\$ 11,532	\$ 153,658	0.677	\$ 103,953
1-Dec-12	144	96.9%	156	97.2%	\$ 234,059	\$ 22,126	\$ 211,933	0.673	\$ 142,579
1-Dec-13	132	96.6%	144	96.9%	\$ 588,444	\$ 50,684	\$ 537,761	0.678	\$ 364,409
1-Dec-14	120	95.9%	132	96.6%	\$ 803,655	\$ 149,139	\$ 654,517	0.679	\$ 444,499
1-Dec-15	108	94.9%	120	95.9%	\$ 834,327	\$ 155,832	\$ 678,495	0.713	\$ 483,786
1-Dec-16	96	93.8%	108	94.9%	\$ 1,627,994	\$ 295,182	\$ 1,332,812	0.740	\$ 986,142
1-Dec-17	84	92.4%	96	93.8%	\$ 2,024,752	\$ 361,343	\$ 1,663,409	0.759	\$ 1,263,202
1-Dec-18	72	88.9%	84	92.4%	\$ 2,435,234	\$ 608,808	\$ 1,826,425	0.774	\$ 1,413,704
1-Dec-19	60	86.8%	72	88.9%	\$ 5,695,427	\$ 914,715	\$ 4,780,713	0.819	\$ 3,915,670
1-Dec-20	48	82.3%	60	86.8%	\$ 5,001,103	\$ 1,250,276	\$ 3,750,827	0.818	\$ 3,066,799
1-Dec-21	36	74.8%	48	82.3%	\$ 6,786,602	\$ 1,696,651	\$ 5,089,952	0.835	\$ 4,247,829
1-Dec-22	24	60.1%	36	74.8%	\$ 7,786,465	\$ 1,946,616	\$ 5,839,848	0.854	\$ 4,989,818
1-Dec-23	12	22.6%	24	60.1%	\$ 16,182,121	\$ 4,045,530	\$ 12,136,591	0.879	\$ 10,671,821
1-Dec-24	0	0.0%	12	22.6%	\$ 22,300,000	\$ 5,033,909	\$ 17,266,091	0.910	\$ 15,713,369
Total					\$ 75,419,355	\$ 16,719,657	\$ 58,699,698		\$ 49,980,981

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 4.13% 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>
12/1/2004	2/5/2005	6,171,677	6,171,677	-
12/1/2004	2/5/2005	1,471,257	1,471,257	-
12/1/2003	4/14/2004	1,240,568	554,644	685,924

Cook County, Illinois
 Workers' Compensation - General Government
 Occurrence
 Medical
 Incurred Development Triangle
 Data Unlimited (000s)
 As of 11/30/2022

		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	
Prior																								
12/1/2001						6,009	5,980	5,941	4,783	4,931	4,638	4,642	38,421	37,950	37,016	36,541	36,087	35,612	35,490	35,314	32,476	32,476	32,851	
12/1/2002					5,782	5,810	6,088	4,710	4,581	4,529	4,530	4,547	4,547	4,547	4,130	4,150	4,150	4,150	4,196	4,196	4,196	4,196		
12/1/2003				5,366	5,485	5,699	4,179	4,196	4,152	4,206	4,143	4,200	4,352	3,846	3,847	3,899	3,899	3,959	3,931	4,599	4,599			
12/1/2004		8,064	9,500	10,932	10,549	11,302	12,173	12,186	12,187	12,166	12,189	11,693	11,698	11,703	11,703	12,398	12,063	12,063	4,206	4,206				
12/1/2005	3,931	5,751	6,271	4,309	4,260	4,069	4,172	4,180	4,357	4,402	4,055	4,002	4,000	3,986	4,205	4,205	4,206	4,206						
12/1/2006	3,884	6,034	4,949	5,170	5,213	5,235	5,337	5,353	5,469	4,796	4,821	4,797	4,791	4,953	4,955									
12/1/2007	4,148	5,959	6,910	7,132	8,868	9,869	10,291	10,662	6,216	6,265	6,286	6,238	6,256	6,672	6,667									
12/1/2008	3,195	4,643	4,930	5,619	5,666	6,115	6,990	6,621	6,773	6,575	6,602	6,648	6,648	6,595										
12/1/2009	3,198	4,218	5,291	5,924	6,344	7,192	6,775	6,762	6,520	6,487	6,790	6,784	6,963											
12/1/2010	2,330	3,673	4,360	4,739	5,288	4,820	5,194	5,170	5,118	5,211	5,349	5,589												
12/1/2011	2,234	3,794	4,744	5,848	4,792	4,872	4,836	4,744	4,637	4,656	4,600													
12/1/2012	2,791	4,957	5,613	4,510	4,726	4,567	4,605	4,592	4,502	4,466														
12/1/2013	4,820	7,672	5,891	5,896	5,550	6,464	6,524	6,753	5,582															
12/1/2014	8,228	6,243	6,556	6,338	6,374	6,277	5,980	6,259																
12/1/2015	8,185	11,180	10,552	10,394	9,958	9,633	9,612																	
12/1/2016	10,950	10,649	10,353	9,933	10,058	10,835																		
12/1/2017	9,883	11,437	11,885	10,661	10,514																			
12/1/2018	11,988	11,566	10,818	10,476																				
12/1/2019	14,981	16,492	18,102																					
12/1/2020	12,069	15,140																						
12/1/2021	20,989																							

		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-Ult
Prior																							
12/1/2001						0.995	0.993	0.805	1.031	0.941	1.001	0.982	0.987	1.000	0.987	1.000	0.997	1.000	0.999	1.001	1.000	1.012	
12/1/2002					1.005	1.048	0.774	0.973	0.989	1.000	1.004	1.000	1.000	0.908	1.005	1.000	1.000	1.011	1.000	1.000			
12/1/2003				1.022	1.039	0.733	1.004	0.989	1.013	0.985	1.014	1.036	0.884	1.000	1.014	1.000	1.015	0.993	1.170				
12/1/2004		1.178	1.151	0.965	1.071	1.077	1.001	1.000	0.998	1.002	0.959	1.000	1.000	1.000	1.000	1.059	0.973	1.000					
12/1/2005	1.463	1.090	0.687	0.989	0.955	1.025	1.002	1.042	1.010	0.921	0.987	0.999	0.997	1.055	1.000	1.000							
12/1/2006	1.554	0.829	1.045	1.008	1.004	1.020	1.003	1.022	0.877	1.005	0.995	0.999	1.034	1.000	1.000								
12/1/2007	1.437	1.160	1.032	1.243	1.113	1.043	1.036	0.583	1.008	1.003	0.992	1.003	1.066	0.999									
12/1/2008	1.453	1.062	1.140	1.008	1.079	1.143	0.947	1.023	0.971	1.004	1.007	1.000	0.992										
12/1/2009	1.319	1.255	1.120	1.071	1.134	0.942	0.998	0.964	0.995	1.047	0.999	1.026											
12/1/2010	1.577	1.187	1.087	1.116	0.911	1.077	0.995	0.990	1.018	1.027	1.045												
12/1/2011	1.698	1.250	1.232	0.820	1.017	0.993	0.981	0.978	1.004	0.988													
12/1/2012	1.776	1.132	0.800	1.049	0.966	1.008	0.997	0.980	0.992														
12/1/2013	1.592	0.768	1.001	0.941	1.165	1.009	1.035	0.827															
12/1/2014	0.759	1.050	0.967	1.006	0.985	0.953	1.047																
12/1/2015	1.366	0.944	0.985	0.958	0.967	0.998																	
12/1/2016	0.973	0.972	0.959	1.013	1.077																		
12/1/2017	1.157	1.039	0.897	0.986																			
12/1/2018	0.965	0.935	0.968																				
12/1/2019	1.101	1.098																					
12/1/2020	1.254																						
12/1/2021																							

		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-Ult
All Year Average		1.340	1.059	1.006	1.013	1.014	1.004	0.986	0.957	0.983	1.001	1.000	0.990	0.997	0.996	1.007	0.996	1.000	1.041	0.974	1.000	1.012	
3 Yr Average		1.107	1.024	0.942	0.986	1.010	0.987	1.026	0.928	1.005	1.020	1.017	1.010	1.031	1.018	1.020	0.996	1.001	1.056	0.974	NA	NA	
5 Yr Average		1.090	0.998	0.955	0.981	1.032	0.992	1.011	0.948	0.996	1.014	1.008	1.005	1.018	1.014	1.012	0.998	1.000	NA	NA	NA	NA	
3 Yr Wtd Average		1.107	1.033	0.940	0.985	1.014	0.988	1.029	0.915	1.005	1.024	1.015	1.010	1.030	1.014	1.033	0.987	1.001	1.054	0.935	NA	NA	
5 Yr Wtd Average		1.090	1.006	0.953	0.982	1.030	0.992	1.014	0.941	0.994	1.015	1.007	1.007	1.015	1.009	1.024	0.990	0.998	NA	NA	NA	NA	
Avg X Hi-Lo (3yr X 2)		1.101	1.039	0.959	0.986	0.985	0.998	1.035	0.978	1.004	1.027	1.007	1.003	1.034	1.000	1.000	1.000	1.000	NA	NA	NA	NA	
Avg X Hi-Lo (5yr X 2)		1.077	0.985	0.965	0.983	1.010	1.000	0.999	0.974	0.997	1.011	1.000	1.001	1.010	1.005	1.000	1.000	0.999	NA	NA	NA	NA	
Prior		1.380	1.090	1.035	1.015	1.013	1.010	1.003	1.003	1.003	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.000	1.003
Industry		1.252	1.016	1.002	0.992	0.993	0.994	1.000	0.999	0.997	0.999	1.001	0.998	0.999	1.001	1.003	0.999	1.001	1.000	1.002	1.001	1.001	1.004
Initial Selected		1.360	1.090	1.031	1.015	1.013	1.010	1.005	1.003	1.003	1.003	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.003

		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-Ult
Inverse Power Curve Fit																							1.00028
Exponential Curve Fit																							1.00003
Weibull Curve Fit																							1.00027
Manual Entry																							
Selected Tail Method:	Manual Entry																						

Final Link Ratio	1.360	1.090	1.031	1.015	1.013	1.010	1.005	1.003	1.003	1.003	1.001	1.001	1.001	1.0
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Cook County, Illinois
 Workers' Compensation - General Government
 Occurrence
 Medical
 Paid Development Triangle
 Data Unlimited (000s)
 As of 11/30/2022

		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			
Prior																									
12/1/2001					4,276	4,349	4,428	4,537	4,588	4,633	4,537	35,708	35,735	35,874	36,088	35,665	35,406	35,291	35,184	32,189	32,196	32,208			
12/1/2002				3,952	4,078	4,303	4,430	4,479	4,505	4,529	4,547	4,547	4,547	4,547	4,113	4,119	4,120	4,120	4,166	4,166	4,166				
12/1/2003			3,311	3,503	3,746	3,978	4,034	4,054	4,104	4,102	4,146	4,162	3,752	3,753	3,783	3,813	3,894	3,897	3,903						
12/1/2004		5,701	7,315	8,522	9,779	10,801	12,081	12,098	12,107	12,140	12,167	11,670	11,677	11,679	11,679	12,034	12,039	12,039							
12/1/2005	1,566	3,288	3,896	3,990	4,074	4,060	4,158	4,166	4,236	4,314	3,954	3,985	3,985	3,986	4,205	4,206	4,206								
12/1/2006	1,789	3,762	4,388	4,717	5,071	5,140	5,263	5,287	5,327	4,699	4,701	4,702	4,710	4,882	4,883	4,891									
12/1/2007	1,529	4,502	5,603	6,919	8,632	9,724	10,180	10,418	5,942	5,999	6,065	6,108	6,178	6,188	6,188										
12/1/2008	1,517	3,587	4,561	5,257	5,476	5,859	6,385	6,069	6,266	6,399	6,469	6,488	6,486	6,499											
12/1/2009	1,420	3,831	5,014	5,631	6,071	6,522	6,143	6,204	6,239	6,294	6,612	6,624	6,635												
12/1/2010	1,383	3,204	4,162	4,507	4,771	4,476	4,569	4,651	4,683	4,785	4,867	5,018													
12/1/2011	985	3,192	4,280	4,798	4,181	4,298	4,454	4,461	4,476	4,488	4,487														
12/1/2012	1,044	3,263	4,045	3,589	3,869	3,945	4,154	4,201	4,227	4,255															
12/1/2013	1,530	4,276	4,077	4,381	4,442	4,497	4,788	4,845	4,853																
12/1/2014	1,801	3,400	4,207	4,622	4,755	5,114	5,198	5,232																	
12/1/2015	2,195	6,335	7,366	7,922	8,282	8,487	8,629																		
12/1/2016	2,613	5,872	7,191	8,001	8,249	8,383																			
12/1/2017	2,296	5,544	6,751	7,297	7,545																				
12/1/2018	2,084	5,592	7,040	7,560																					
12/1/2019	2,240	6,756	8,661																						
12/1/2020	2,304	6,144																							
12/1/2021	3,162																								

		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-Ult			
Prior																									
12/1/2001					1,017	1,018	1,025	1,011	0,988	1,001	1,000	1,001	1,004	1,006	0,988	0,995	0,997	0,997	0,915	1,000	1,000				
12/1/2002				1,032	1,055	1,030	1,011	1,008	1,005	1,004	1,000	1,000	0,954	1,000	1,000	1,000	1,005	1,001	1,000	1,000					
12/1/2003			1,058	1,069	1,062	1,014	1,005	1,012	0,999	1,011	1,004	0,901	1,000	1,008	1,008	1,021	1,001	1,001							
12/1/2004		1,283	1,165	1,147	1,105	1,119	1,001	1,001	1,003	1,002	0,959	1,001	1,000	1,000	1,000	1,030	1,000	1,000							
12/1/2005	2,113	1,182	1,027	1,021	0,996	1,024	1,002	1,032	1,004	0,924	1,000	1,000	1,000	1,055	1,000	1,000	1,000								
12/1/2006	2,103	1,166	1,075	1,075	1,014	1,024	1,005	1,008	0,982	1,000	1,000	1,002	1,037	1,000	1,002										
12/1/2007	2,945	1,245	1,235	1,248	1,126	1,047	1,023	0,570	1,010	1,011	1,007	1,011	1,002	1,000											
12/1/2008	2,364	1,272	1,153	1,042	1,070	1,090	0,950	1,032	1,021	1,011	1,003	1,001	1,000												
12/1/2009	2,698	1,309	1,123	1,078	1,074	0,942	1,010	1,008	1,009	1,050	1,002	1,002													
12/1/2010	2,317	1,299	1,083	1,059	0,938	1,021	1,018	1,007	1,022	1,017	1,031														
12/1/2011	2,242	1,341	1,121	0,871	1,058	1,006	1,002	1,003	1,003	1,000															
12/1/2012	3,126	1,240	0,887	1,078	1,019	1,053	1,011	1,006	1,007																
12/1/2013	2,795	0,954	1,075	1,014	1,012	1,065	1,012	1,002																	
12/1/2014	1,887	1,237	1,099	1,029	1,076	1,016	1,007																		
12/1/2015	2,886	1,163	1,076	1,045	1,026	1,015																			
12/1/2016	2,247	1,225	1,113	1,031	1,016																				
12/1/2017	2,415	1,218	1,081	1,034																					
12/1/2018	2,683	1,259	1,074																						
12/1/2019	3,016	1,282																							
12/1/2020	2,666																								
12/1/2021																									

		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-Ult			
All Year Average	2,594	1,230	1,090	1,055	1,040	1,034	1,006	0,977	0,996	1,003	1,001	0,992	0,994	0,997	1,004	1,002	1,002	1,001	0,972	1,000	1,000				
3 Yr Average	2,788	1,253	1,089	1,037	1,039	1,032	1,010	1,004	1,010	1,022	1,012	1,005	1,013	1,018	1,011	1,007	1,004	1,002	0,972	NA	NA				
5 Yr Average	2,695	1,229	1,088	1,031	1,030	1,037	1,010	1,005	1,012	1,018	1,009	1,003	1,008	1,013	1,008	1,004	1,002	NA	NA	NA	NA				
3 Yr Wid Average	2,790	1,255	1,089	1,037	1,033	1,028	1,010	1,004	1,011	1,026	1,010	1,005	1,011	1,015	1,017	1,004	1,002	0,931	NA	NA	NA				
5 Yr Wid Average	2,592	1,230	1,087	1,033	1,028	1,033	1,010	1,005	1,013	1,019	1,008	1,003	1,006	1,008	1,014	1,003	0,999	NA	NA	NA	NA				
Avg X Hi-Lo (3yr X 2)	2,683	1,259	1,081	1,034	1,026	1,011	1,003	1,007	1,017	1,003	1,002	1,002	1,001	1,003	1,003	1,000	1,000	NA	NA	NA	NA				
Avg X Hi-Lo (5yr X 2)	2,588	1,234	1,085	1,031	1,021	1,035	1,010	1,005	1,012	1,013	1,004	1,002	1,001	1,003	1,003	1,000	1,000	NA	NA	NA	NA				
Prior	2,661	1,245	1,110	1,060	1,025	1,040	1,018	1,012	1,010	1,008	1,003	1,002	1,001	1,001	1,001	1,001	1,001	1,000	1,000	1,000	1,002	1,023			
Industry	2,080	1,165	1,069	1,038	1,023	1,016	1,011	1,009	1,006	1,005	1,004	1,003	1,004	1,003	1,002	1,003	1,002	1,002	1,006	1,004	1,013				
Initial Selected	2,661	1,245	1,100	1,055	1,025	1,040	1,015	1,012	1,010	1,008	1,003	1,003	1,002	1,001	1,001	1,001	1,001	1,000	1,000	1,000	1,000	1,023			

		Tail Factor Calculation																							
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-Ult			
Inverse Power Curve Fit																							1.00002		
Exponential Curve Fit																							1.00000		
Weibull Curve Fit																							1.00001		
Manual Entry																									
Selected Tail Method:	Manual Entry																						Tail		
Final Link Ratio	2,661	1,245	1,100	1,055	1,025	1,040	1,015	1,012	1,010	1,008	1,003	1,003	1,002	1,001	1,001	1,001	1,001	1,000	1,000	1,000	1,000	1,023			
Final CDF	4,430	1,665	1,337	1,216	1,153	1,125	1,082	1,066	1,054	1,043	1,035	1,032	1,029	1,027	1,026	1,025	1,024	1,023	1,023	1,023	1,023	1,023			

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: 2021 NCCI Medical Only

Cook County, Illinois
 Workers' Compensation - General Government
 Occurrence
 Medical
 Reported Claim Count Triangle
 Data Unlimited
 As of 11/30/2022

		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
Prior																							
12/1/2001						1,160	1,160	1,160	1,160	1,160	1,160	1,159	1,160	1,161	1,161	1,161	1,161	1,161	1,161	1,161	1,161	1,161	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
12/1/2003				1,212	1,215	1,215	1,215	1,215	1,215	1,215	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
12/1/2004		1,153	1,312	1,313	1,315	1,315	1,316	1,316	1,316	1,316	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318
12/1/2005			1,158	1,156	1,156	1,155	1,155	1,155	1,156	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	1,159	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
12/1/2007			756	767	767	767	768	768	776	777	777	777	777	777	777	777	777	777	777	777	777	777	777
12/1/2008			668	679	755	755	755	766	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
12/1/2010			768	773	776	788	788	788	789	789	789	789	789	789	789	789	789	789	789	789	789	789	789
12/1/2011			757	761	781	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
12/1/2013			730	752	756	759	760	760	760	760	760	760	760	760	760	760	760	760	760	760	760	760	760
12/1/2014			762	768	771	777	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
12/1/2016			1,149	1,234	1,238	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239
12/1/2017			1,069	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086
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
12/1/2019			1,172	1,204	1,210																		
12/1/2020			1,178	1,190																			
12/1/2021			1,262																				

		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-Ult		
Prior																									
12/1/2001						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		
12/1/2002					1,001	1,001	1,000	1,000	1,000	1,000	1,001	1,000	1,001	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	0.999	1,001	1,002	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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		
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		
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		
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		
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		
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		
12/1/2010		1,007	1,004	1,015	1,000	1,000	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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		
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		
12/1/2013		1,030	1,005	1,004	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
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		
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		
12/1/2016		1,074	1,003	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
12/1/2017		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	1,000		
12/1/2018		1,017	1,000	1,001																					
12/1/2019		1,027	1,005																						
12/1/2020		1,010																							
12/1/2021																									

		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-Ult		
All Year Average		1,026	1,010	1,003	1,002	1,001	1,001	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
3 Yr Average		1,018	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	1,000	1,000	1,000		
5 Yr Average		1,029	1,002	1,002	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
3 Yr Wtd Average		1,018	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	1,000	1,000	1,000		
5 Yr Wtd Average		1,029	1,002	1,002	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
Avg X Hi-Lo (3yr X 2)		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		
Avg X Hi-Lo (5yr X 2)		1,020	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	1,000	1,000	1,000		
Prior		1,030	1,004	1,003	1,001	1,001	1,001	1,001	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
Industry		1,131	1,019	1,010	1,007	1,007	1,005	1,005	1,0																



**Cook County, Illinois
General Liability Experience @ 11/30/22
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	34,384	403,479	900,000	0.54
1-Dec-18	1,719,805	20,000,000	197	108	331,117	149,986	181,132	52,883	234,014	384,000	0.22
1-Dec-19	1,547,010	Various	68	7	895,336	45,200	850,136	122,664	972,800	1,018,000	0.66
1-Dec-20	1,881,172	30,000,000	83	6	3,455,580	50,580	3,405,000	1,044,420	4,449,420	4,500,000	2.39
1-Dec-21	1,979,429	30,000,000	76	16	60,786	25,567	35,219	578,214	613,433	639,000	0.32
Total	29,971,293		3,499	233	16,328,315	11,372,832	4,955,483	1,838,702	6,794,184	18,167,017	0.39

Full Policy Period Projections

1-Dec-22	1,944,279	30,000,000								855,000	0.44
1-Dec-23	1,962,100	30,000,000								883,000	0.45



**Cook County, Illinois
General Liability**

**General Liability Experience @ 11/30/22
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	\$ 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	\$ 374,344	\$ 373,224	\$ 373,224	\$ 374,886	\$ 373,224	\$ 374,145	\$ 373,224	\$ 373,224
1-Dec-15	\$ 258,723	\$ 159,735	\$ 272,834	\$ 259,106	\$ 163,573	\$ 259,019	\$ 161,200	\$ 258,723	\$ 262,000
1-Dec-16	\$ 476,297	\$ 470,128	\$ 477,588	\$ 477,131	\$ 474,998	\$ 477,080	\$ 468,009	\$ 476,297	\$ 477,000
1-Dec-17	\$ 886,462	\$ 530,869	\$ 1,076,375	\$ 881,117	\$ 539,170	\$ 883,321	\$ 519,856	\$ 886,462	\$ 900,000
1-Dec-18	\$ 352,655	\$ 198,848	\$ 391,026	\$ 373,645	\$ 321,092	\$ 386,557	\$ 237,141	\$ 352,655	\$ 384,000
1-Dec-19	\$ 1,048,932	\$ 101,603	\$ 1,199,929	\$ 989,073	\$ 400,560	\$ 1,045,940	\$ 218,101	\$ 1,046,839	\$ 1,018,000
1-Dec-20	\$ 5,647,502	\$ 255,816	\$ 6,646,537	\$ 3,764,029	\$ 688,167	\$ 4,075,894	\$ 357,296	\$ 5,624,979	\$ 4,500,000
1-Dec-21	\$ 214,583	\$ 477,034	\$ 170,689	\$ 671,310	\$ 831,738	\$ 1,235,590	\$ 414,253	\$ 303,591	\$ 639,000
Total	\$ 18,872,172	\$ 12,182,167	\$ 20,221,995	\$ 11,014,678	\$ 7,020,228	\$ 11,962,667	\$ 5,976,045	\$ 18,936,563	\$ 18,167,017

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 @ 11/30/22
Unpaid Liabilities at Various Discount Rates
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Undiscounted	Disc Rate 4.13%
Prior	264	Various	\$ 6,387,749	\$ 6,387,749	\$ 6,387,749	\$ -	\$ -	\$ -	\$ -
1-Dec-01	252	\$ 9,500,000	\$ 264,864	\$ 264,864	\$ 264,864	\$ -	\$ -	\$ -	\$ -
1-Dec-02	240	\$ 9,500,000	\$ 431,980	\$ 431,980	\$ 431,980	\$ -	\$ -	\$ -	\$ -
1-Dec-03	228	Various	\$ 40,287	\$ 40,287	\$ 40,287	\$ -	\$ -	\$ -	\$ -
1-Dec-04	216	\$ 10,000,000	\$ 236,472	\$ 236,472	\$ 236,472	\$ -	\$ -	\$ -	\$ -
1-Dec-05	204	\$ 10,000,000	\$ 151,662	\$ 151,662	\$ 151,662	\$ -	\$ -	\$ -	\$ -
1-Dec-06	192	\$ 10,000,000	\$ 111,956	\$ 111,956	\$ 111,956	\$ -	\$ -	\$ -	\$ -
1-Dec-07	180	\$ 10,000,000	\$ 538,122	\$ 538,122	\$ 538,122	\$ -	\$ -	\$ -	\$ -
1-Dec-08	168	\$ 10,000,000	\$ 195,329	\$ 195,329	\$ 195,329	\$ -	\$ -	\$ -	\$ -
1-Dec-09	156	\$ 10,000,000	\$ 325,332	\$ 325,332	\$ 325,332	\$ -	\$ -	\$ -	\$ -
1-Dec-10	144	\$ 10,000,000	\$ 153,831	\$ 153,831	\$ 153,831	\$ -	\$ -	\$ -	\$ -
1-Dec-11	132	\$ 10,000,000	\$ 146,905	\$ 146,905	\$ 146,905	\$ -	\$ -	\$ -	\$ -
1-Dec-12	120	Various	\$ 369,930	\$ 369,930	\$ 369,930	\$ -	\$ -	\$ -	\$ -
1-Dec-13	108	\$ 15,000,000	\$ 259,375	\$ 259,375	\$ 259,375	\$ -	\$ -	\$ -	\$ -
1-Dec-14	96	\$ 15,000,000	\$ 373,224	\$ 373,224	\$ 373,224	\$ -	\$ -	\$ -	\$ -
1-Dec-15	84	\$ 15,000,000	\$ 262,000	\$ 258,465	\$ 158,465	\$ 100,000	\$ 3,535	\$ 103,535	\$ 99,948
1-Dec-16	72	\$ 15,000,000	\$ 477,000	\$ 474,398	\$ 459,497	\$ 14,901	\$ 2,602	\$ 17,503	\$ 16,827
1-Dec-17	60	Various	\$ 900,000	\$ 865,616	\$ 496,521	\$ 369,094	\$ 34,384	\$ 403,479	\$ 387,396
1-Dec-18	48	\$ 20,000,000	\$ 384,000	\$ 331,117	\$ 149,986	\$ 181,132	\$ 52,883	\$ 234,014	\$ 225,759
1-Dec-19	36	Various	\$ 1,018,000	\$ 895,336	\$ 45,200	\$ 850,136	\$ 122,664	\$ 972,800	\$ 930,271
1-Dec-20	24	\$ 30,000,000	\$ 4,500,000	\$ 3,455,580	\$ 50,580	\$ 3,405,000	\$ 1,044,420	\$ 4,449,420	\$ 4,170,597
1-Dec-21	12	\$ 30,000,000	\$ 639,000	\$ 60,786	\$ 25,567	\$ 35,219	\$ 578,214	\$ 613,433	\$ 559,642
Total			\$ 18,167,017	\$ 16,328,315	\$ 11,372,832	\$ 4,955,483	\$ 1,838,702	\$ 6,794,184	\$ 6,390,440

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 (10) : Column (9) discounted



**Cook County, Illinois
General Liability**

**General Liability Experience @ 11/30/22
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	264	\$ 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	\$ 6,387,749	\$ -	1.000	\$ 6,387,749	\$ -	1.000	\$ 6,387,749			
1-Dec-01	252	\$ 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	\$ 264,864	\$ -	1.000	\$ 264,864	\$ -	1.000	\$ 264,864			
1-Dec-02	240	\$ 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	\$ 431,980	\$ -	1.000	\$ 431,980	\$ -	1.000	\$ 431,980			
1-Dec-03	228	\$ 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	\$ 40,287	\$ -	1.000	\$ 40,287	\$ -	1.000	\$ 40,287			
1-Dec-04	216	\$ 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	\$ 236,472	\$ -	1.000	\$ 236,472	\$ -	1.000	\$ 236,472			
1-Dec-05	204	\$ 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	\$ 151,662	\$ -	1.000	\$ 151,662	\$ -	1.000	\$ 151,662			
1-Dec-06	192	\$ 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	\$ 111,956	\$ -	1.000	\$ 111,956	\$ -	1.000	\$ 111,956			
1-Dec-07	180	\$ 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	\$ 538,122	\$ -	1.000	\$ 538,122	\$ -	1.000	\$ 538,122			
1-Dec-08	168	\$ 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	\$ 195,329	\$ -	1.000	\$ 195,329	\$ -	1.000	\$ 195,329			
1-Dec-09	156	\$ 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	\$ 325,332	\$ -	1.000	\$ 325,332	\$ -	1.000	\$ 325,332			
1-Dec-10	144	\$ 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	\$ 153,831	\$ -	1.000	\$ 153,831	\$ -	1.000	\$ 153,831			
1-Dec-11	132	\$ 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	\$ 146,905	\$ -	1.000	\$ 146,905	\$ -	1.000	\$ 146,905			
1-Dec-12	120	\$ 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	\$ 369,930	\$ -	1.000	\$ 369,930	\$ -	1.000	\$ 369,930			
1-Dec-13	108	\$ 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	\$ 259,375	\$ -	1.000	\$ 259,375	\$ -	1.000	\$ 259,375			
1-Dec-14	96	\$ 373,224	1.000	\$ 373,224	\$ 373,224	1.003	\$ 374,344	\$ -	1.000	\$ 373,224	\$ -	1.000	\$ 373,224	\$ -	1.003	\$ 374,344	\$ -	1.000	\$ 373,224	\$ -	1.000	\$ 373,224	\$ -	1.000	\$ 373,224			
1-Dec-15	84	\$ 258,465	1.001	\$ 258,723	\$ 158,465	1.008	\$ 159,735	\$ 100,000	1.144	\$ 272,834	\$ 100,000	1.144	\$ 272,834	\$ 100,000	1.008	\$ 159,735	\$ 100,000	1.144	\$ 272,834	\$ 100,000	1.144	\$ 272,834	\$ 100,000	1.144	\$ 272,834			
1-Dec-16	72	\$ 474,398	1.004	\$ 476,297	\$ 459,497	1.023	\$ 470,128	\$ 14,901	1.214	\$ 477,588	\$ 14,901	1.214	\$ 477,588	\$ 14,901	1.023	\$ 470,128	\$ 14,901	1.214	\$ 477,588	\$ 14,901	1.214	\$ 477,588	\$ 14,901	1.214	\$ 477,588			
1-Dec-17	60	\$ 865,616	1.024	\$ 886,462	\$ 496,521	1.069	\$ 530,869	\$ 369,094	1.571	\$ 1,076,375	\$ 369,094	1.571	\$ 1,076,375	\$ 369,094	1.069	\$ 530,869	\$ 369,094	1.571	\$ 1,076,375	\$ 369,094	1.571	\$ 1,076,375	\$ 369,094	1.571	\$ 1,076,375			
1-Dec-18	48	\$ 331,117	1.065	\$ 352,655	\$ 149,986	1.326	\$ 198,848	\$ 181,132	1.331	\$ 391,026	\$ 181,132	1.331	\$ 391,026	\$ 181,132	1.065	\$ 352,655	\$ 149,986	1.326	\$ 198,848	\$ 181,132	1.331	\$ 391,026	\$ 181,132	1.331	\$ 391,026			
1-Dec-19	36	\$ 895,336	1.172	\$ 1,048,932	\$ 45,200	2.248	\$ 101,603	\$ 850,136	1.358	\$ 1,199,929	\$ 850,136	1.358	\$ 1,199,929	\$ 850,136	1.172	\$ 1,048,932	\$ 45,200	2.248	\$ 101,603	\$ 850,136	1.358	\$ 1,199,929	\$ 850,136	1.358	\$ 1,199,929			
1-Dec-20	24	\$ 3,455,580	1.634	\$ 5,647,502	\$ 50,580	5.058	\$ 255,816	\$ 3,405,000	1.937	\$ 6,646,537	\$ 3,405,000	1.937	\$ 6,646,537	\$ 3,405,000	1.634	\$ 5,647,502	\$ 50,580	5.058	\$ 255,816	\$ 3,405,000	1.937	\$ 6,646,537	\$ 3,405,000	1.937	\$ 6,646,537			
1-Dec-21	12	\$ 60,786	3.530	\$ 214,583	\$ 25,567	18.658	\$ 477,034	\$ 35,219	4.121	\$ 170,689	\$ 35,219	4.121	\$ 170,689	\$ 25,567	3.530	\$ 214,583	\$ 25,567	18.658	\$ 477,034	\$ 35,219	4.121	\$ 170,689	\$ 35,219	4.121	\$ 170,689			
Total		\$ 16,328,315		\$ 18,872,172	\$ 11,372,832		\$ 12,182,167	\$ 4,955,483		\$ 20,221,995	\$ 4,955,483		\$ 20,221,995	\$ 11,372,832		\$ 12,182,167	\$ 4,955,483		\$ 20,221,995	\$ 4,955,483		\$ 20,221,995	\$ 4,955,483		\$ 20,221,995			

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 @ 11/30/22
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	252	\$ 264,864	1.922	1.000	\$ 508,989	1,289,837	1.000	0.32	\$ 214,623	\$ 264,864
1-Dec-02	240	\$ 431,980	1.837	1.000	\$ 793,730	1,312,886	1.000	0.31	\$ 222,424	\$ 431,980
1-Dec-03	228	\$ 40,287	1.764	1.000	\$ 71,065	1,435,885	1.000	0.28	\$ 224,039	\$ 40,287
1-Dec-04	216	\$ 236,472	1.685	1.000	\$ 398,553	1,409,073	1.000	0.27	\$ 224,948	\$ 236,472
1-Dec-05	204	\$ 151,662	1.618	1.000	\$ 245,395	1,592,036	1.000	0.26	\$ 258,241	\$ 151,662
1-Dec-06	192	\$ 111,956	1.540	1.000	\$ 172,422	1,443,251	1.000	0.27	\$ 250,739	\$ 111,956
1-Dec-07	180	\$ 538,122	1.479	1.000	\$ 795,799	1,389,483	1.000	0.29	\$ 268,432	\$ 538,122
1-Dec-08	168	\$ 195,329	1.429	1.000	\$ 279,171	1,483,860	1.000	0.28	\$ 289,239	\$ 195,329
1-Dec-09	156	\$ 325,332	1.471	1.000	\$ 478,590	1,451,335	1.000	0.28	\$ 276,065	\$ 325,332
1-Dec-10	144	\$ 153,831	1.422	1.000	\$ 218,689	1,442,647	1.000	0.28	\$ 280,809	\$ 153,831
1-Dec-11	132	\$ 146,905	1.384	1.000	\$ 203,358	1,472,317	1.000	0.28	\$ 302,372	\$ 146,905
1-Dec-12	120	\$ 369,930	1.344	1.000	\$ 497,229	1,406,251	1.000	0.30	\$ 318,405	\$ 369,930
1-Dec-13	108	\$ 259,375	1.313	1.000	\$ 340,526	1,475,828	1.000	0.32	\$ 359,831	\$ 259,375
1-Dec-14	96	\$ 373,224	1.253	1.000	\$ 467,774	1,618,013	1.000	0.34	\$ 443,190	\$ 373,224
1-Dec-15	84	\$ 258,465	1.209	1.000	\$ 312,531	1,805,179	1.001	0.37	\$ 554,782	\$ 259,019
1-Dec-16	72	\$ 474,398	1.157	1.000	\$ 548,781	1,842,722	1.004	0.42	\$ 672,602	\$ 477,080
1-Dec-17	60	\$ 865,616	1.138	1.000	\$ 985,144	1,743,270	1.024	0.49	\$ 752,865	\$ 883,321
1-Dec-18	48	\$ 331,117	1.095	1.000	\$ 362,593	1,771,917	1.065	0.56	\$ 907,752	\$ 386,557
1-Dec-19	36	\$ 895,336	1.062	1.000	\$ 950,642	1,579,409	1.172	0.69	\$ 1,028,494	\$ 1,045,940
1-Dec-20	24	\$ 3,455,580	1.029	1.000	\$ 3,555,228	1,899,984	1.634	0.87	\$ 1,598,242	\$ 4,075,894
1-Dec-21	12	\$ 60,786	1.000	1.000	\$ 60,786	1,979,429	3.530	0.83	\$ 1,639,131	\$ 1,235,590
Total		\$ 9,940,566			\$ 12,246,995	32,844,613			\$ 11,087,225	\$ 11,962,667

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	252	\$ 264,864	1.922	1.000	\$ 508,989	1,289,837	1.000	0.32	\$ 211,697	\$ 264,864
1-Dec-02	240	\$ 431,980	1.837	1.000	\$ 793,730	1,312,886	1.000	0.31	\$ 218,941	\$ 431,980
1-Dec-03	228	\$ 40,287	1.764	1.000	\$ 71,065	1,435,885	1.000	0.27	\$ 219,282	\$ 40,287
1-Dec-04	216	\$ 236,472	1.685	1.000	\$ 398,553	1,409,073	1.000	0.26	\$ 218,948	\$ 236,472
1-Dec-05	204	\$ 151,662	1.618	1.000	\$ 245,395	1,592,036	1.000	0.25	\$ 249,367	\$ 151,662
1-Dec-06	192	\$ 111,956	1.540	1.000	\$ 172,422	1,443,251	1.000	0.26	\$ 239,903	\$ 111,956
1-Dec-07	180	\$ 538,122	1.479	1.000	\$ 795,799	1,389,483	1.000	0.27	\$ 254,443	\$ 538,122
1-Dec-08	168	\$ 195,329	1.429	1.000	\$ 279,171	1,483,860	1.000	0.26	\$ 268,987	\$ 195,329
1-Dec-09	156	\$ 325,332	1.471	1.000	\$ 478,590	1,451,335	1.000	0.25	\$ 250,745	\$ 325,332
1-Dec-10	144	\$ 153,831	1.422	1.000	\$ 218,689	1,442,647	1.000	0.24	\$ 246,293	\$ 153,831
1-Dec-11	132	\$ 146,905	1.384	1.000	\$ 203,358	1,472,317	1.000	0.24	\$ 254,504	\$ 146,905
1-Dec-12	120	\$ 369,930	1.344	1.000	\$ 497,229	1,406,251	1.000	0.24	\$ 256,169	\$ 369,930
1-Dec-13	108	\$ 259,375	1.313	1.000	\$ 340,526	1,475,828	1.000	0.24	\$ 271,139	\$ 259,375
1-Dec-14	96	\$ 373,224	1.253	1.000	\$ 467,774	1,618,013	1.003	0.24	\$ 307,831	\$ 374,145
1-Dec-15	84	\$ 158,465	1.209	1.000	\$ 191,613	1,805,179	1.008	0.23	\$ 343,994	\$ 161,200
1-Dec-16	72	\$ 459,497	1.157	1.000	\$ 531,543	1,842,722	1.023	0.24	\$ 376,420	\$ 468,009
1-Dec-17	60	\$ 496,521	1.138	1.000	\$ 565,084	1,743,270	1.069	0.24	\$ 360,657	\$ 519,856
1-Dec-18	48	\$ 149,986	1.095	1.000	\$ 164,243	1,771,917	1.326	0.22	\$ 354,686	\$ 237,141
1-Dec-19	36	\$ 45,200	1.062	1.000	\$ 47,992	1,579,409	2.248	0.21	\$ 311,462	\$ 218,101
1-Dec-20	24	\$ 50,580	1.029	1.000	\$ 52,039	1,899,984	5.058	0.21	\$ 382,306	\$ 357,296
1-Dec-21	12	\$ 25,567	1.000	1.000	\$ 25,567	1,979,429	18.658	0.21	\$ 410,698	\$ 414,253
Total		\$ 4,985,083			\$ 7,049,371	32,844,613			\$ 6,008,472	\$ 5,976,045

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22 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	264	969	1.000	969	1.000	\$ 6,592	\$ 6,592	0	\$ 5,520	\$ 6,387,749
1-Dec-01	252	107	1.000	107	1.000	\$ 2,475	\$ 2,475	0	\$ 5,154	\$ 264,864
1-Dec-02	240	74	1.000	74	1.000	\$ 5,838	\$ 5,838	0	\$ 4,848	\$ 431,980
1-Dec-03	228	76	1.000	76	1.000	\$ 530	\$ 530	0	\$ 4,341	\$ 40,287
1-Dec-04	216	104	1.000	104	1.000	\$ 2,274	\$ 2,274	0	\$ 3,917	\$ 236,472
1-Dec-05	204	85	1.000	85	1.000	\$ 1,784	\$ 1,784	0	\$ 3,514	\$ 151,662
1-Dec-06	192	82	1.000	82	1.000	\$ 1,365	\$ 1,365	0	\$ 3,198	\$ 111,956
1-Dec-07	180	246	1.000	246	1.000	\$ 2,187	\$ 2,187	0	\$ 2,942	\$ 538,122
1-Dec-08	168	204	1.000	204	1.000	\$ 957	\$ 957	0	\$ 2,772	\$ 195,329
1-Dec-09	156	101	1.000	101	1.000	\$ 3,221	\$ 3,221	0	\$ 2,635	\$ 325,332
1-Dec-10	144	121	1.000	121	1.000	\$ 1,271	\$ 1,271	0	\$ 2,622	\$ 153,831
1-Dec-11	132	74	1.000	74	1.000	\$ 1,985	\$ 1,985	0	\$ 2,689	\$ 146,905
1-Dec-12	120	120	1.000	120	1.000	\$ 3,083	\$ 3,083	0	\$ 2,800	\$ 369,930
1-Dec-13	108	291	1.000	291	1.000	\$ 891	\$ 891	0	\$ 2,875	\$ 259,375
1-Dec-14	96	104	1.000	104	1.000	\$ 3,589	\$ 3,589	0	\$ 3,433	\$ 373,224
1-Dec-15	84	85	1.000	85	1.001	\$ 3,041	\$ 3,044	0	\$ 4,056	\$ 258,723
1-Dec-16	72	108	1.000	108	1.004	\$ 4,393	\$ 4,410	0	\$ 4,907	\$ 476,297
1-Dec-17	60	124	1.000	124	1.024	\$ 6,981	\$ 7,149	0	\$ 5,800	\$ 886,462
1-Dec-18	48	197	1.000	197	1.065	\$ 1,681	\$ 1,790	0	\$ 6,857	\$ 352,655
1-Dec-19	36	68	1.002	68	1.169	\$ 13,167	\$ 15,395	0	\$ 9,264	\$ 1,046,839
1-Dec-20	24	83	1.004	83	1.628	\$ 41,633	\$ 67,771	0	\$ 12,459	\$ 5,624,979
1-Dec-21	12	76	1.122	85	3.145	\$ 800	\$ 2,515	9	\$ 12,491	\$ 303,591
Total		3,499		3,508				9		\$ 18,936,563

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 @ 11/30/22 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	0.27	1.000	0.27	\$ 288,842	0.000	\$ -	\$ 264,864
1-Dec-02	\$ 9,500,000	\$ 431,980	1.000	0.28	1.000	0.28	\$ 307,488	0.000	\$ -	\$ 431,980
1-Dec-03	Various	\$ 40,287	1.000	0.29	1.000	0.29	\$ 350,297	0.000	\$ -	\$ 40,287
1-Dec-04	\$ 10,000,000	\$ 236,472	1.000	0.30	1.000	0.30	\$ 359,780	0.000	\$ -	\$ 236,472
1-Dec-05	\$ 10,000,000	\$ 151,662	1.000	0.31	1.000	0.31	\$ 423,422	0.000	\$ -	\$ 151,662
1-Dec-06	\$ 10,000,000	\$ 111,956	1.000	0.32	1.000	0.32	\$ 403,279	0.000	\$ -	\$ 111,956
1-Dec-07	\$ 10,000,000	\$ 538,122	1.000	0.33	1.000	0.33	\$ 404,335	0.000	\$ -	\$ 538,122
1-Dec-08	\$ 10,000,000	\$ 195,329	1.000	0.34	1.000	0.34	\$ 446,787	0.000	\$ -	\$ 195,329
1-Dec-09	\$ 10,000,000	\$ 325,332	1.000	0.33	1.000	0.33	\$ 424,562	0.000	\$ -	\$ 325,332
1-Dec-10	\$ 10,000,000	\$ 153,831	1.000	0.34	1.000	0.34	\$ 436,705	0.000	\$ -	\$ 153,831
1-Dec-11	\$ 10,000,000	\$ 146,905	1.000	0.34	1.000	0.34	\$ 457,706	0.000	\$ -	\$ 146,905
1-Dec-12	Various	\$ 369,930	1.000	0.35	1.000	0.35	\$ 450,232	0.000	\$ -	\$ 369,930
1-Dec-13	\$ 15,000,000	\$ 259,375	1.000	0.35	1.000	0.35	\$ 483,753	0.000	\$ -	\$ 259,375
1-Dec-14	\$ 15,000,000	\$ 373,224	1.000	0.37	1.000	0.37	\$ 555,554	0.000	\$ -	\$ 373,224
1-Dec-15	\$ 15,000,000	\$ 258,465	1.001	0.38	1.000	0.38	\$ 642,449	0.001	\$ 642	\$ 259,106
1-Dec-16	\$ 15,000,000	\$ 474,398	1.004	0.39	1.000	0.39	\$ 685,511	0.004	\$ 2,733	\$ 477,131
1-Dec-17	Various	\$ 865,616	1.024	0.39	1.000	0.39	\$ 659,174	0.024	\$ 15,502	\$ 881,117
1-Dec-18	\$ 20,000,000	\$ 331,117	1.065	0.40	1.000	0.40	\$ 696,331	0.061	\$ 42,528	\$ 373,645
1-Dec-19	Various	\$ 895,336	1.172	0.41	1.000	0.41	\$ 640,140	0.146	\$ 93,736	\$ 989,073
1-Dec-20	\$ 30,000,000	\$ 3,455,580	1.634	0.42	1.000	0.42	\$ 794,720	0.388	\$ 308,448	\$ 3,764,029
1-Dec-21	\$ 30,000,000	\$ 60,786	3.530	0.43	1.000	0.43	\$ 851,826	0.717	\$ 610,523	\$ 671,310
Total		\$ 9,940,566					\$ 10,762,892		\$ 1,074,112	\$ 11,014,678

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 @ 11/30/22
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	0.27	1.000	0.27	\$ 288,842	0.000	\$ -	\$ 264,864
1-Dec-02	\$ 9,500,000	\$ 431,980	1.000	0.28	1.000	0.28	\$ 307,488	0.000	\$ -	\$ 431,980
1-Dec-03	Various	\$ 40,287	1.000	0.29	1.000	0.29	\$ 350,297	0.000	\$ -	\$ 40,287
1-Dec-04	\$ 10,000,000	\$ 236,472	1.000	0.30	1.000	0.30	\$ 359,780	0.000	\$ -	\$ 236,472
1-Dec-05	\$ 10,000,000	\$ 151,662	1.000	0.31	1.000	0.31	\$ 423,422	0.000	\$ -	\$ 151,662
1-Dec-06	\$ 10,000,000	\$ 111,956	1.000	0.32	1.000	0.32	\$ 403,279	0.000	\$ -	\$ 111,956
1-Dec-07	\$ 10,000,000	\$ 538,122	1.000	0.33	1.000	0.33	\$ 404,335	0.000	\$ -	\$ 538,122
1-Dec-08	\$ 10,000,000	\$ 195,329	1.000	0.34	1.000	0.34	\$ 446,787	0.000	\$ -	\$ 195,329
1-Dec-09	\$ 10,000,000	\$ 325,332	1.000	0.33	1.000	0.33	\$ 424,562	0.000	\$ -	\$ 325,332
1-Dec-10	\$ 10,000,000	\$ 153,831	1.000	0.34	1.000	0.34	\$ 436,705	0.000	\$ -	\$ 153,831
1-Dec-11	\$ 10,000,000	\$ 146,905	1.000	0.34	1.000	0.34	\$ 457,706	0.000	\$ -	\$ 146,905
1-Dec-12	Various	\$ 369,930	1.000	0.35	1.000	0.35	\$ 450,232	0.000	\$ -	\$ 369,930
1-Dec-13	\$ 15,000,000	\$ 259,375	1.000	0.35	1.000	0.35	\$ 483,753	0.000	\$ -	\$ 259,375
1-Dec-14	\$ 15,000,000	\$ 373,224	1.003	0.37	1.000	0.37	\$ 555,554	0.003	\$ 1,662	\$ 374,886
1-Dec-15	\$ 15,000,000	\$ 158,465	1.008	0.38	1.000	0.38	\$ 642,449	0.008	\$ 5,108	\$ 163,573
1-Dec-16	\$ 15,000,000	\$ 459,497	1.023	0.39	1.000	0.39	\$ 685,511	0.023	\$ 15,501	\$ 474,998
1-Dec-17	Various	\$ 496,521	1.069	0.39	1.000	0.39	\$ 659,174	0.065	\$ 42,649	\$ 539,170
1-Dec-18	\$ 20,000,000	\$ 149,986	1.326	0.40	1.000	0.40	\$ 696,331	0.246	\$ 171,107	\$ 321,092
1-Dec-19	Various	\$ 45,200	2.248	0.41	1.000	0.41	\$ 640,140	0.555	\$ 355,359	\$ 400,560
1-Dec-20	\$ 30,000,000	\$ 50,580	5.058	0.42	1.000	0.42	\$ 794,720	0.802	\$ 637,587	\$ 688,167
1-Dec-21	\$ 30,000,000	\$ 25,567	18.658	0.43	1.000	0.43	\$ 851,826	0.946	\$ 806,171	\$ 831,738
Total		\$ 4,985,083					\$ 10,762,892		\$ 2,035,144	\$ 7,020,228

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 @ 11/30/22 Assumptions & Factors Used in the Actuarial Analysis

(1) Policy Period Inception	(2) Incurred CDF	(3) Paid CDF	(4) Claim CDF	(5) Trend Factors		(6) Revenue (in 000s)
				Loss	Exposure	
Prior	1.000	1.000	1.000	1.985	1.227	-
1-Dec-01	1.000	1.000	1.000	1.922	1.220	1,057,079
1-Dec-02	1.000	1.000	1.000	1.837	1.208	1,086,728
1-Dec-03	1.000	1.000	1.000	1.764	1.197	1,199,434
1-Dec-04	1.000	1.000	1.000	1.685	1.184	1,189,789
1-Dec-05	1.000	1.000	1.000	1.618	1.173	1,357,723
1-Dec-06	1.000	1.000	1.000	1.540	1.161	1,243,144
1-Dec-07	1.000	1.000	1.000	1.479	1.150	1,207,801
1-Dec-08	1.000	1.000	1.000	1.429	1.138	1,303,812
1-Dec-09	1.000	1.000	1.000	1.471	1.127	1,287,986
1-Dec-10	1.000	1.000	1.000	1.422	1.116	1,293,078
1-Dec-11	1.000	1.000	1.000	1.384	1.106	1,331,769
1-Dec-12	1.000	1.000	1.000	1.344	1.094	1,285,791
1-Dec-13	1.000	1.000	1.000	1.313	1.083	1,362,902
1-Dec-14	1.000	1.003	1.000	1.253	1.072	1,509,150
1-Dec-15	1.001	1.008	1.000	1.209	1.062	1,699,156
1-Dec-16	1.004	1.023	1.000	1.157	1.051	1,753,287
1-Dec-17	1.024	1.069	1.000	1.138	1.041	1,675,248
1-Dec-18	1.065	1.326	1.000	1.095	1.030	1,719,805
1-Dec-19	1.172	2.248	1.002	1.062	1.021	1,547,010
1-Dec-20	1.634	5.058	1.004	1.029	1.010	1,881,172
1-Dec-21	3.530	18.658	1.122	1.000	1.000	1,979,429

Methods Included in Analysis : **Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity**
 Source Used for LDFs : **Company Exclusively**

LDF Annual Decay Rate (Incurred/Pai **0.75** **0.75**
 ELR for B/F Method : **0.44**
 Generalized Cape Cod Decay Factor: **0.75**
 Loss Limitation : **Exhibit 10, Column (5)**
 Discount Rates : **4.13%**

Column (2) : Company Exclusively
Column (3) : Company Exclusively
Column (4) : Company Exclusively

Column (5) : Masterson Indices
Column (6) : Flat 1.00%
Column (7) : supplied by Cook County, Illinois



**Cook County, Illinois
General Liability**

**General Liability Experience @ 11/30/22
Limited Loss Calculations**

(1) Policy Period Inception	(2)		(3)	(4)	(5)	(6)			(7)	(8)	(9)	(10)		(11)	(12)
	Unlimited		Paid	Case O/S	Retention	Claims valued over the Retention			Incurred	No.	Paid	Limited		Paid	Case O/S
Incurred		No.													
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	\$ 331,117	\$ 149,986	\$ 181,132	-	\$ 20,000,000	-	\$ -	-	\$ -	-	\$ 331,117	\$ 149,986	\$ 181,132	-	
1-Dec-19	\$ 895,336	\$ 45,200	\$ 850,136	-	Various	-	\$ -	-	\$ -	-	\$ 895,336	\$ 45,200	\$ 850,136	-	
1-Dec-20	\$ 3,455,580	\$ 50,580	\$ 3,405,000	-	\$ 30,000,000	-	\$ -	-	\$ -	-	\$ 3,455,580	\$ 50,580	\$ 3,405,000	-	
1-Dec-21	\$ 60,786	\$ 25,567	\$ 35,219	-	\$ 30,000,000	-	\$ -	-	\$ -	-	\$ 60,786	\$ 25,567	\$ 35,219	-	
	\$ 16,328,315	\$ 11,372,832	\$ 4,955,483			-	\$ -	-	\$ -	-	\$ 16,328,315	\$ 11,372,832	\$ 4,955,483		

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 @ 11/30/22
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	1,289,837	107	1.000	107	1.000	107	0.00830%		107	107	0.00830%
1-Dec-02	1,312,886	74	1.000	74	1.000	74	0.00564%		74	74	0.00564%
1-Dec-03	1,435,885	76	1.000	76	1.000	76	0.00529%		76	76	0.00529%
1-Dec-04	1,409,073	104	1.000	104	1.000	104	0.00738%		104	104	0.00738%
1-Dec-05	1,592,036	85	1.000	85	1.000	85	0.00534%		85	85	0.00534%
1-Dec-06	1,443,251	82	1.000	82	1.000	82	0.00568%		82	82	0.00568%
1-Dec-07	1,389,483	246	1.000	246	1.000	246	0.01770%		246	246	0.01770%
1-Dec-08	1,483,860	204	1.000	204	1.000	204	0.01375%		204	204	0.01375%
1-Dec-09	1,451,335	101	1.000	101	1.000	101	0.00696%		101	101	0.00696%
1-Dec-10	1,442,647	121	1.000	121	1.000	121	0.00839%		121	121	0.00839%
1-Dec-11	1,472,317	74	1.000	74	1.000	74	0.00503%		74	74	0.00503%
1-Dec-12	1,406,251	120	1.000	120	1.000	120	0.00853%		120	120	0.00853%
1-Dec-13	1,475,828	291	1.000	291	1.000	291	0.01972%		291	291	0.01972%
1-Dec-14	1,618,013	104	1.000	104	1.000	104	0.00643%		104	104	0.00643%
1-Dec-15	1,805,179	85	1.000	85	1.000	85	0.00471%		85	85	0.00471%
1-Dec-16	1,842,722	108	1.000	108	1.000	108	0.00586%		108	108	0.00586%
1-Dec-17	1,743,270	124	1.000	124	1.000	124	0.00711%		124	124	0.00711%
1-Dec-18	1,771,917	197	1.000	197	1.000	197	0.01112%		197	197	0.01112%
1-Dec-19	1,579,409	68	1.002	68	1.000	68	0.00431%		68	68	0.00431%
1-Dec-20	1,899,984	83	1.004	83	1.000	83	0.00439%		83	83	0.00439%
1-Dec-21	1,979,429	76	1.122	85	1.000	85	0.00431%		85	85	0.00431%
Total	32,844,613	2,530		2,540		2,540	0.00773%		2,540	2,539	0.00773%

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 123
 Column (10) : Selected Trended Ultimate Claims
 Column (11) : Column (10) / Column (6)
 Column (12) : Column (10) / Column (2)

Selected Bornhuetter-Ferguson Claim Count for Policy Period 1-Dec-21												
<u>Weighted Averages excluding Policy Period 1-Dec-21</u>												
Last 5 Policies	8,974,009					558	0.00622%		558		0.00622%	
Last 3 Policies	5,458,823					237	0.00434%		237		0.00434%	
Last 2 Policies	3,879,413					169	0.00435%		169		0.00435%	
Last 20 Policies	30,865,183					2,454	0.00795%		2,454		0.00795%	
Selected Bornhuetter-Ferguson Frequency Rate							0.00622%					
Revenue for 1-Dec-21							1,979,429					
Apriori Expected Count for 1-Dec-21							123					



**Cook County, Illinois
General Liability
General Liability Experience @ 11/30/22
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	1.977	1.000	523,667	1,057,079	1.232	1,302,735	0.40
1-Dec-02	431,980	431,980	1.890	1.000	816,618	1,086,728	1.220	1,326,015	0.62
1-Dec-03	40,287	40,287	1.815	1.000	73,114	1,199,434	1.209	1,450,244	0.05
1-Dec-04	236,472	236,472	1.734	1.000	410,046	1,189,789	1.196	1,423,163	0.29
1-Dec-05	151,662	151,662	1.665	1.000	252,472	1,357,723	1.184	1,607,957	0.16
1-Dec-06	111,956	111,956	1.585	1.000	177,394	1,243,144	1.173	1,457,684	0.12
1-Dec-07	538,122	538,122	1.521	1.000	818,747	1,207,801	1.162	1,403,378	0.58
1-Dec-08	195,329	195,329	1.470	1.000	287,221	1,303,812	1.149	1,498,699	0.19
1-Dec-09	325,332	325,332	1.514	1.000	492,391	1,287,986	1.138	1,465,848	0.34
1-Dec-10	153,831	153,831	1.463	1.000	224,995	1,293,078	1.127	1,457,073	0.15
1-Dec-11	146,905	146,905	1.424	1.000	209,222	1,331,769	1.117	1,487,040	0.14
1-Dec-12	369,930	369,930	1.383	1.000	511,567	1,285,791	1.105	1,420,314	0.36
1-Dec-13	259,375	259,375	1.351	1.000	350,346	1,362,902	1.094	1,490,586	0.24
1-Dec-14	373,224	373,224	1.289	1.000	481,263	1,509,150	1.083	1,634,193	0.29
1-Dec-15	258,465	262,000	1.244	1.000	325,942	1,699,156	1.073	1,823,231	0.18
1-Dec-16	474,398	477,000	1.190	1.000	567,703	1,753,287	1.062	1,861,149	0.31
1-Dec-17	865,616	900,000	1.171	1.000	1,053,813	1,675,248	1.051	1,760,702	0.60
1-Dec-18	331,117	384,000	1.127	1.000	432,629	1,719,805	1.041	1,789,636	0.24
1-Dec-19	895,336	1,018,000	1.092	1.000	1,112,052	1,547,010	1.031	1,595,203	0.70
1-Dec-20	3,455,580	4,500,000	1.059	1.000	4,763,273	1,881,172	1.020	1,918,983	2.48
1-Dec-21	60,786	639,000	1.029	1.000	657,427	1,979,429	1.010	1,999,224	0.33
All Year Weighted Average					14,541,902			33,173,057	0.44
Latest 5-Year Weighted Average					8,019,194			9,063,748	0.88
Latest 3-Year Weighted Average					6,532,752			5,513,410	1.18
SELECTED - Based on Shaded PY					14,541,902			33,173,057	0.44

Column (1) : from Exhibit 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)					
Policy Period Inception	(11)	(12)	(13)	(14)	(15)
	Retention	Revenue (in 000s)	Claim Count	Loss Rate	Loss Amount
1-Dec-22	30,000,000	1,944,279	120	0.44	855,000
1-Dec-23	30,000,000	1,962,100	120	0.45	883,000
1-Dec-24	30,000,000	1,983,359	120	0.46	912,000

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



**Cook County, Illinois
General Liability
Projected Losses Paid 12/1/2022 to 11/30/2023**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/22	Percent Losses Paid	Months of Development 11/30/23	Percent Losses Paid	Estimated Outstanding Losses 11/30/22	Projected Losses Paid	Estimated Outstanding Losses 11/30/23	Discount Factor	Discounted Outstanding Losses 11/30/23
Prior	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	180	100.0%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	168	100.0%	180	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	156	100.0%	168	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-10	144	100.0%	156	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-11	132	100.0%	144	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-12	120	100.0%	132	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-13	108	100.0%	120	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-14	96	99.7%	108	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-15	84	99.2%	96	99.7%	\$ 103,535	\$ 64,589	\$ 38,947	0.980	\$ 38,167
1-Dec-16	72	97.7%	84	99.2%	\$ 17,503	\$ 11,348	\$ 6,155	0.965	\$ 5,941
1-Dec-17	60	93.5%	72	97.7%	\$ 403,479	\$ 262,468	\$ 141,011	0.961	\$ 135,563
1-Dec-18	48	75.4%	60	93.5%	\$ 234,014	\$ 172,398	\$ 61,617	0.960	\$ 59,161
1-Dec-19	36	44.5%	48	75.4%	\$ 972,800	\$ 542,192	\$ 430,608	0.965	\$ 415,416
1-Dec-20	24	19.8%	36	44.5%	\$ 4,449,420	\$ 1,370,694	\$ 3,078,726	0.956	\$ 2,944,131
1-Dec-21	12	5.4%	24	19.8%	\$ 613,433	\$ 93,418	\$ 520,015	0.937	\$ 487,428
1-Dec-22	0	0.0%	12	5.4%	\$ 855,000	\$ 45,825	\$ 809,175	0.912	\$ 738,221
Total					\$ 7,649,184	\$ 2,562,930	\$ 5,086,254		\$ 4,824,028

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 4.13% Interest Rate
 Column (10): Column (8) x Column (9)



**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%	\$ 38,947	\$ 38,947	\$ -	1.000	\$ -
1-Dec-16	84	99.2%	96	99.7%	\$ 6,155	\$ 3,840	\$ 2,315	0.980	\$ 2,269
1-Dec-17	72	97.7%	84	99.2%	\$ 141,011	\$ 91,426	\$ 49,585	0.965	\$ 47,867
1-Dec-18	60	93.5%	72	97.7%	\$ 61,617	\$ 40,082	\$ 21,534	0.961	\$ 20,702
1-Dec-19	48	75.4%	60	93.5%	\$ 430,608	\$ 317,227	\$ 113,381	0.960	\$ 108,861
1-Dec-20	36	44.5%	48	75.4%	\$ 3,078,726	\$ 1,715,935	\$ 1,362,792	0.965	\$ 1,314,713
1-Dec-21	24	19.8%	36	44.5%	\$ 520,015	\$ 160,196	\$ 359,819	0.956	\$ 344,088
1-Dec-22	12	5.4%	24	19.8%	\$ 809,175	\$ 123,227	\$ 685,949	0.937	\$ 642,964
1-Dec-23	0	0.0%	12	5.4%	\$ 883,000	\$ 47,325	\$ 835,675	0.912	\$ 762,396
Total					\$ 5,969,254	\$ 2,538,205	\$ 3,431,049		\$ 3,243,861

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 4.13% 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%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-16	96	99.7%	108	100.0%	\$ 2,315	\$ 2,315	\$ -	1.000	\$ -
1-Dec-17	84	99.2%	96	99.7%	\$ 49,585	\$ 30,933	\$ 18,652	0.980	\$ 18,279
1-Dec-18	72	97.7%	84	99.2%	\$ 21,534	\$ 13,962	\$ 7,572	0.965	\$ 7,310
1-Dec-19	60	93.5%	72	97.7%	\$ 113,381	\$ 73,755	\$ 39,625	0.961	\$ 38,094
1-Dec-20	48	75.4%	60	93.5%	\$ 1,362,792	\$ 1,003,964	\$ 358,828	0.960	\$ 344,525
1-Dec-21	36	44.5%	48	75.4%	\$ 359,819	\$ 200,546	\$ 159,273	0.965	\$ 153,654
1-Dec-22	24	19.8%	36	44.5%	\$ 685,949	\$ 211,314	\$ 474,634	0.956	\$ 453,884
1-Dec-23	12	5.4%	24	19.8%	\$ 835,675	\$ 127,262	\$ 708,412	0.937	\$ 664,020
1-Dec-24	0	0.0%	12	5.4%	\$ 912,000	\$ 48,880	\$ 863,120	0.912	\$ 787,436
Total					\$ 4,343,049	\$ 1,712,931	\$ 2,630,118		\$ 2,467,202

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 4.13% Interest Rate
 Column (10): Column (8) x Column (9)



Large Claims Listing

**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
 Paid Development Triangle
 Data Limited to Retentions (000s)
 As of 11/30/2022

		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	
Prior																					6,387	6,388	6,388	6,388
12/1/2001	13	20	93	93	93	243	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	429	419	419	432	432	432	432	432	432	
12/1/2003	5	18	22	22	35	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	222	222	236	236	236	236	236	236	236	
12/1/2005	4	41	74	164	164	164	170	170	170	170	170	170	170	138	138	152	152	152	152	152	152	152		
12/1/2006	21	38	99	118	118	118	118	118	118	118	98	98	98	98	112	112	112	112	112	112	112	112		
12/1/2007	37	69	81	128	398	402	447	447	447	447	486	486	538	538	538	538	538	538	538	538	538	538		
12/1/2008	15	40	47	47	152	152	152	152	152	152	153	153	195	195	195	195	195	195	195	195	195	195		
12/1/2009	19	27	119	205	205	313	313	311	311	311	325	325	325	325	325	325	325	325	325	325	325	325		
12/1/2010	13	20	24	139	139	139	139	139	139	154	154	154	154	154	154	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	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	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	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	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	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	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	497	497	497	497	497	497	497		
12/1/2018	62	81	81	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150		
12/1/2019	40	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45		
12/1/2020	29																							
12/1/2021	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-Ult
Prior																							
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
12/1/2002		8,386	2,019	1,199	17,775	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,031	1,000	1,031	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	0,840	1,000	1,364	1,000	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	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		11,562	1,797	2,222	1,000	1,000	1,040	1,000	1,000	1,000	1,000	0,810	1,000	1,099	1,000	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	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
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
12/1/2008		2,643	1,180	1,000	3,229	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	1,000	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
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
12/1/2012		1,038	1,003	1,131	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
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
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
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
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
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
12/1/2018		1,321	1,000	1,841	1,000	1,000	1,000	1,000	1,000	1,000	1,000	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		1,124	1,013	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	1,000	1,000
12/1/2020		1,729																					
12/1/2021																							

		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-Ult
All Year Average		3.768	2.481	2.147	2.327	1.148	1.013	1.003	1.009	1.011	1.009	0.992	1.016	0.992	1.006	1.067	1.006	1.012	1.000	1.000	1.000	1.000	1.000
3 Yr Average		1.391	1.009	3.447	1.070	1.000	1.000	1.000	1.000	1.000	1.000	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		4.270	1.543	2.550	1.056	1.043	1.008	1.010	1.022	1.009	1.055	1.021	1.029	1.020	1.013	1.073	1.006	NA	NA	NA	NA	NA	NA
3 Yr Wtd Average		1.353	1.010	3.395	1.077	1.000	1.000	1.000	1.000	1.000	1.000	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		2.299	1.173	2.032	1.064	1.029	1.011	1.005	1.012	1.013	1.033	1.041	1.011	1.011	1.014	1.011	1.012	NA	NA	NA	NA	NA	NA
Avg X Hi-Lo (3yr X 2)		1.321	1.013	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
Avg X Hi-Lo (5yr X 2)		3.628	1.049	2.198	1.023	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Prior		3.750	2.359	1.630	1.240	1.045	1.015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Industry		2.650	1.710	1.420	1.230	1.120	1.072	1.048	1.026	1.020	1.017	1.013	1.010	1.007	1.006	1.004	1.00						



**Cook County, Illinois
Automobile Liability Experience @ 11/30/22
Losses Limited to Retentions**

Policy Period	Number of Vehicles (1)	Retention (2)	Reported Claims (3)	Open Claims (3a)	Incurred (4)	Paid (5)	Case (6) [(4)-(5)]	Est IBNR (7)	Total O/S (8) [(6)+(7)]	Ultimate (9) [(4)+(7)]	Ultimate Loss Rate (10) [(9)/(1)]
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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	18	8,989,803	8,739,129	250,674	70,197	320,871	9,060,000	4,905
1-Dec-18	1,903	20,000,000	61	10	1,121,610	208,672	912,938	98,390	1,011,328	1,220,000	641
1-Dec-19	1,800	Various	35	2	175,602	115,602	60,000	264,398	324,398	440,000	244
1-Dec-20	1,744	30,000,000	32	6	413,472	97,672	315,800	716,528	1,032,328	1,130,000	648
1-Dec-21	1,769	30,000,000	47	1	132,780	32,780	100,000	1,417,220	1,517,220	1,550,000	876
Total	32,834		2,537	37	46,050,771	44,411,359	1,639,412	2,566,732	4,206,144	48,617,503	838

Full Policy Period Projections

1-Dec-22	1,784	30,000,000								2,030,000	1,140
1-Dec-23	1,787	30,000,000								2,090,000	1,171



**Cook County, Illinois
Automobile Liability**

**Automobile Liability Experience @ 11/30/22
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	\$ 13,250,354	\$ 13,250,354	\$ 13,250,354	N/A	N/A	N/A	N/A	\$ 13,250,354	\$ 13,250,354
1-Dec-01	\$ 2,523,962	\$ 2,523,962	\$ 2,523,962	N/A	N/A	N/A	N/A	\$ 2,523,962	\$ 2,523,962
1-Dec-02	\$ 234,297	\$ 234,297	\$ 234,297	N/A	N/A	N/A	N/A	\$ 234,297	\$ 234,297
1-Dec-03	\$ 430,586	\$ 430,586	\$ 430,586	N/A	N/A	N/A	N/A	\$ 430,586	\$ 430,586
1-Dec-04	\$ 2,857,039	\$ 2,857,039	\$ 2,857,039	N/A	N/A	N/A	N/A	\$ 2,857,039	\$ 2,857,039
1-Dec-05	\$ 201,210	\$ 201,210	\$ 201,210	N/A	N/A	N/A	N/A	\$ 201,210	\$ 201,210
1-Dec-06	\$ 653,237	\$ 653,237	\$ 653,237	N/A	N/A	N/A	N/A	\$ 653,237	\$ 653,237
1-Dec-07	\$ 149,661	\$ 149,661	\$ 149,661	N/A	N/A	N/A	N/A	\$ 149,661	\$ 149,661
1-Dec-08	\$ 191,753	\$ 191,753	\$ 191,753	N/A	N/A	N/A	N/A	\$ 191,753	\$ 191,753
1-Dec-09	\$ 6,849,297	\$ 6,849,297	\$ 6,849,297	N/A	N/A	N/A	N/A	\$ 6,849,297	\$ 6,849,297
1-Dec-10	\$ 834,347	\$ 834,347	\$ 834,347	\$ 834,347	\$ 834,347	\$ 834,347	\$ 834,347	\$ 834,347	\$ 834,347
1-Dec-11	\$ 445,189	\$ 445,189	\$ 445,189	\$ 445,189	\$ 445,189	\$ 445,189	\$ 445,189	\$ 445,189	\$ 445,189
1-Dec-12	\$ 302,494	\$ 302,494	\$ 302,494	\$ 302,494	\$ 302,494	\$ 302,494	\$ 302,494	\$ 302,494	\$ 302,494
1-Dec-13	\$ 2,935,696	\$ 2,935,696	\$ 2,935,696	\$ 2,935,696	\$ 2,935,696	\$ 2,935,696	\$ 2,935,696	\$ 2,935,696	\$ 2,935,696
1-Dec-14	\$ 309,188	\$ 309,188	\$ 309,188	\$ 309,188	\$ 309,188	\$ 309,188	\$ 309,188	\$ 309,188	\$ 309,188
1-Dec-15	\$ 1,519,883	\$ 1,529,193	\$ 1,519,883	\$ 1,519,883	\$ 1,530,528	\$ 1,519,883	\$ 1,531,144	\$ 1,519,883	\$ 1,519,883
1-Dec-16	\$ 1,539,845	\$ 1,576,049	\$ 1,529,308	\$ 1,540,792	\$ 1,579,079	\$ 1,543,425	\$ 1,589,739	\$ 1,539,845	\$ 1,529,308
1-Dec-17	\$ 9,124,162	\$ 9,366,477	\$ 9,060,447	\$ 9,016,468	\$ 8,860,412	\$ 9,027,950	\$ 8,911,489	\$ 9,124,162	\$ 9,060,000
1-Dec-18	\$ 1,178,217	\$ 241,270	\$ 1,625,385	\$ 1,213,414	\$ 466,844	\$ 1,235,189	\$ 520,207	\$ 1,178,217	\$ 1,220,000
1-Dec-19	\$ 204,294	\$ 172,757	\$ 219,862	\$ 438,524	\$ 734,949	\$ 459,924	\$ 781,662	\$ 204,294	\$ 440,000
1-Dec-20	\$ 637,367	\$ 235,000	\$ 889,397	\$ 1,072,273	\$ 1,193,619	\$ 1,073,354	\$ 1,202,048	\$ 634,196	\$ 1,130,000
1-Dec-21	\$ 409,360	\$ 232,253	\$ 501,536	\$ 1,456,295	\$ 1,715,209	\$ 1,408,282	\$ 1,690,270	\$ 562,688	\$ 1,550,000
Total	\$ 46,781,440	\$ 45,521,311	\$ 47,514,131	\$ 21,084,564	\$ 20,907,554	\$ 21,094,922	\$ 21,053,473	\$ 46,931,597	\$ 48,617,503

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 @ 11/30/22
Unpaid Liabilities at Various Discount Rates
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.13%
Prior	264	Various	\$ 13,250,354	\$ 13,250,354	\$ 13,250,354	\$ -	\$ -	\$ -	\$ -
1-Dec-01	252	\$ 9,500,000	\$ 2,523,962	\$ 2,523,962	\$ 2,523,962	\$ -	\$ -	\$ -	\$ -
1-Dec-02	240	\$ 9,500,000	\$ 234,297	\$ 234,297	\$ 234,297	\$ -	\$ -	\$ -	\$ -
1-Dec-03	228	Various	\$ 430,586	\$ 430,586	\$ 430,586	\$ -	\$ -	\$ -	\$ -
1-Dec-04	216	\$ 10,000,000	\$ 2,857,039	\$ 2,857,039	\$ 2,857,039	\$ -	\$ -	\$ -	\$ -
1-Dec-05	204	\$ 10,000,000	\$ 201,210	\$ 201,210	\$ 201,210	\$ -	\$ -	\$ -	\$ -
1-Dec-06	192	\$ 10,000,000	\$ 653,237	\$ 653,237	\$ 653,237	\$ -	\$ -	\$ -	\$ -
1-Dec-07	180	\$ 10,000,000	\$ 149,661	\$ 149,661	\$ 149,661	\$ -	\$ -	\$ -	\$ -
1-Dec-08	168	\$ 10,000,000	\$ 191,753	\$ 191,753	\$ 191,753	\$ -	\$ -	\$ -	\$ -
1-Dec-09	156	\$ 10,000,000	\$ 6,849,297	\$ 6,849,297	\$ 6,849,297	\$ -	\$ -	\$ -	\$ -
1-Dec-10	144	\$ 10,000,000	\$ 834,347	\$ 834,347	\$ 834,347	\$ -	\$ -	\$ -	\$ -
1-Dec-11	132	\$ 10,000,000	\$ 445,189	\$ 445,189	\$ 445,189	\$ -	\$ -	\$ -	\$ -
1-Dec-12	120	Various	\$ 302,494	\$ 302,494	\$ 302,494	\$ -	\$ -	\$ -	\$ -
1-Dec-13	108	\$ 15,000,000	\$ 2,935,696	\$ 2,935,696	\$ 2,935,696	\$ -	\$ -	\$ -	\$ -
1-Dec-14	96	\$ 15,000,000	\$ 309,188	\$ 309,188	\$ 309,188	\$ -	\$ -	\$ -	\$ -
1-Dec-15	84	\$ 15,000,000	\$ 1,519,883	\$ 1,519,883	\$ 1,519,883	\$ -	\$ -	\$ -	\$ -
1-Dec-16	72	\$ 15,000,000	\$ 1,529,308	\$ 1,529,308	\$ 1,529,308	\$ -	\$ -	\$ -	\$ -
1-Dec-17	60	Various	\$ 9,060,000	\$ 8,989,803	\$ 8,739,129	\$ 250,674	\$ 70,197	\$ 320,871	\$ 307,832
1-Dec-18	48	\$ 20,000,000	\$ 1,220,000	\$ 1,121,610	\$ 208,672	\$ 912,938	\$ 98,390	\$ 1,011,328	\$ 961,663
1-Dec-19	36	Various	\$ 440,000	\$ 175,602	\$ 115,602	\$ 60,000	\$ 264,398	\$ 324,398	\$ 309,051
1-Dec-20	24	\$ 30,000,000	\$ 1,130,000	\$ 413,472	\$ 97,672	\$ 315,800	\$ 716,528	\$ 1,032,328	\$ 973,623
1-Dec-21	12	\$ 30,000,000	\$ 1,550,000	\$ 132,780	\$ 32,780	\$ 100,000	\$ 1,417,220	\$ 1,517,220	\$ 1,410,187
Total			\$ 48,617,503	\$ 46,050,771	\$ 44,411,359	\$ 1,639,412	\$ 2,566,732	\$ 4,206,144	\$ 3,962,358

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 (10) : Column (9) discounted



**Cook County, Illinois
Automobile Liability**

**Automobile Liability Experience @ 11/30/22
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	264	\$ 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	252	\$ 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	240	\$ 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	228	\$ 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	216	\$ 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	204	\$ 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	192	\$ 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	180	\$ 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	168	\$ 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	156	\$ 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	144	\$ 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	132	\$ 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	120	\$ 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	108	\$ 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	96	\$ 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	84	\$ 1,519,883	1.000	\$ 1,519,883	\$ 1,519,883	1.006	\$ 1,529,193	\$ -	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	72	\$ 1,529,308	1.007	\$ 1,539,845	\$ 1,529,308	1.031	\$ 1,576,049	\$ -	1.300	\$ 1,529,308	\$ -	1.300	\$ 1,529,308	\$ -	1.300	\$ 1,529,308	\$ -	1.300	\$ 1,529,308	\$ -	1.300	\$ 1,529,308	\$ -	1.300	\$ 1,529,308			
1-Dec-17	60	\$ 8,989,803	1.015	\$ 9,124,162	\$ 8,739,129	1.072	\$ 9,366,477	\$ 250,674	1.282	\$ 8,989,803	\$ 250,674	1.282	\$ 9,060,447	\$ 250,674	1.282	\$ 9,060,447	\$ 250,674	1.282	\$ 9,060,447	\$ 250,674	1.282	\$ 9,060,447	\$ 250,674	1.282	\$ 9,060,447			
1-Dec-18	48	\$ 1,121,610	1.050	\$ 1,178,217	\$ 208,672	1.156	\$ 241,270	\$ 912,938	1.552	\$ 1,121,610	\$ 912,938	1.552	\$ 1,625,385	\$ 912,938	1.552	\$ 1,625,385	\$ 912,938	1.552	\$ 1,625,385	\$ 912,938	1.552	\$ 1,625,385	\$ 912,938	1.552	\$ 1,625,385			
1-Dec-19	36	\$ 175,602	1.163	\$ 204,294	\$ 115,602	1.494	\$ 172,757	\$ 60,000	1.738	\$ 175,602	\$ 60,000	1.738	\$ 219,862	\$ 60,000	1.738	\$ 219,862	\$ 60,000	1.738	\$ 219,862	\$ 60,000	1.738	\$ 219,862	\$ 60,000	1.738	\$ 219,862			
1-Dec-20	24	\$ 413,472	1.541	\$ 637,367	\$ 97,672	2.406	\$ 235,000	\$ 315,800	2.507	\$ 413,472	\$ 315,800	2.507	\$ 889,397	\$ 315,800	2.507	\$ 889,397	\$ 315,800	2.507	\$ 889,397	\$ 315,800	2.507	\$ 889,397	\$ 315,800	2.507	\$ 889,397			
1-Dec-21	12	\$ 132,780	3.083	\$ 409,360	\$ 32,780	7.085	\$ 232,253	\$ 100,000	4.688	\$ 132,780	\$ 100,000	4.688	\$ 501,536	\$ 100,000	4.688	\$ 501,536	\$ 100,000	4.688	\$ 501,536	\$ 100,000	4.688	\$ 501,536	\$ 100,000	4.688	\$ 501,536			
Total		\$ 46,050,771		\$ 46,781,440	\$ 44,411,359		\$ 45,521,311	\$ 1,639,412		\$ 46,050,771	\$ 1,639,412		\$ 47,514,131	\$ 1,639,412		\$ 47,514,131	\$ 1,639,412		\$ 47,514,131	\$ 1,639,412		\$ 47,514,131	\$ 1,639,412		\$ 47,514,131			

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 @ 11/30/22
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	144	\$ 834,347	1.441	1.028	\$ 1,235,941	2,071	1.000	678	\$ 947,620	\$ 834,347
1-Dec-11	132	\$ 445,189	1.393	1.028	\$ 637,461	1,837	1.000	747	\$ 958,162	\$ 445,189
1-Dec-12	120	\$ 302,494	1.352	1.000	\$ 408,951	1,892	1.000	847	\$ 1,185,930	\$ 302,494
1-Dec-13	108	\$ 2,935,696	1.308	1.000	\$ 3,841,168	1,921	1.000	1004	\$ 1,473,760	\$ 2,935,696
1-Dec-14	96	\$ 309,188	1.268	1.000	\$ 391,896	2,022	1.000	1050	\$ 1,674,468	\$ 309,188
1-Dec-15	84	\$ 1,519,883	1.213	1.000	\$ 1,843,334	1,915	1.000	1190	\$ 1,878,707	\$ 1,519,883
1-Dec-16	72	\$ 1,529,308	1.170	1.000	\$ 1,789,126	1,773	1.007	1361	\$ 2,062,974	\$ 1,543,425
1-Dec-17	60	\$ 8,989,803	1.130	1.000	\$ 10,153,988	1,847	1.015	1584	\$ 2,590,522	\$ 9,027,950
1-Dec-18	48	\$ 1,121,610	1.103	1.000	\$ 1,236,926	1,903	1.050	1370	\$ 2,364,058	\$ 1,235,189
1-Dec-19	36	\$ 175,602	1.065	1.000	\$ 186,987	1,800	1.163	1197	\$ 2,024,421	\$ 459,924
1-Dec-20	24	\$ 413,472	1.030	1.000	\$ 425,794	1,744	1.541	1109	\$ 1,878,506	\$ 1,073,354
1-Dec-21	12	\$ 132,780	1.000	1.000	\$ 132,780	1,769	3.083	1067	\$ 1,887,843	\$ 1,408,282
Total		\$ 18,709,373			\$ 22,284,352	22,494			\$ 20,926,972	\$ 21,094,922

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	144	\$ 834,347	1.441	1.028	\$ 1,235,941	2,071	1.000	667	\$ 932,044	\$ 834,347
1-Dec-11	132	\$ 445,189	1.393	1.028	\$ 637,461	1,837	1.000	734	\$ 942,058	\$ 445,189
1-Dec-12	120	\$ 302,494	1.352	1.000	\$ 408,951	1,892	1.000	833	\$ 1,166,349	\$ 302,494
1-Dec-13	108	\$ 2,935,696	1.308	1.000	\$ 3,841,168	1,921	1.000	989	\$ 1,452,502	\$ 2,935,696
1-Dec-14	96	\$ 309,188	1.268	1.000	\$ 391,896	2,022	1.000	1032	\$ 1,646,096	\$ 309,188
1-Dec-15	84	\$ 1,519,883	1.213	1.000	\$ 1,843,334	1,915	1.006	1171	\$ 1,849,635	\$ 1,531,144
1-Dec-16	72	\$ 1,529,308	1.170	1.000	\$ 1,789,126	1,773	1.031	1345	\$ 2,037,648	\$ 1,589,739
1-Dec-17	60	\$ 8,739,129	1.130	1.000	\$ 9,870,852	1,847	1.072	1574	\$ 2,573,384	\$ 8,911,489
1-Dec-18	48	\$ 208,672	1.103	1.000	\$ 230,127	1,903	1.156	1336	\$ 2,305,796	\$ 520,207
1-Dec-19	36	\$ 115,602	1.065	1.000	\$ 123,097	1,800	1.494	1191	\$ 2,013,246	\$ 781,662
1-Dec-20	24	\$ 97,672	1.030	1.000	\$ 100,583	1,744	2.406	1116	\$ 1,889,851	\$ 1,202,048
1-Dec-21	12	\$ 32,780	1.000	1.000	\$ 32,780	1,769	7.085	1091	\$ 1,929,869	\$ 1,690,270
Total		\$ 17,069,961			\$ 20,505,316	22,494			\$ 20,738,476	\$ 21,053,473

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22 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	264	1,054	1.000	1,054	1.000	\$ 12,571	\$ 12,571	0	\$ 12,677	\$ 13,250,354
1-Dec-01	252	112	1.000	112	1.000	\$ 22,535	\$ 22,535	0	\$ 13,103	\$ 2,523,962
1-Dec-02	240	74	1.000	74	1.000	\$ 3,166	\$ 3,166	0	\$ 13,109	\$ 234,297
1-Dec-03	228	111	1.000	111	1.000	\$ 3,879	\$ 3,879	0	\$ 13,607	\$ 430,586
1-Dec-04	216	91	1.000	91	1.000	\$ 31,396	\$ 31,396	0	\$ 14,747	\$ 2,857,039
1-Dec-05	204	82	1.000	82	1.000	\$ 2,454	\$ 2,454	0	\$ 14,821	\$ 201,210
1-Dec-06	192	92	1.000	92	1.000	\$ 7,100	\$ 7,100	0	\$ 15,724	\$ 653,237
1-Dec-07	180	71	1.000	71	1.000	\$ 2,108	\$ 2,108	0	\$ 17,290	\$ 149,661
1-Dec-08	168	60	1.000	60	1.000	\$ 3,196	\$ 3,196	0	\$ 20,394	\$ 191,753
1-Dec-09	156	62	1.000	62	1.000	\$ 110,473	\$ 110,473	0	\$ 23,151	\$ 6,849,297
1-Dec-10	144	88	1.000	88	1.000	\$ 9,481	\$ 9,481	0	\$ 21,877	\$ 834,347
1-Dec-11	132	75	1.000	75	1.000	\$ 5,936	\$ 5,936	0	\$ 21,539	\$ 445,189
1-Dec-12	120	58	1.000	58	1.000	\$ 5,215	\$ 5,215	0	\$ 23,009	\$ 302,494
1-Dec-13	108	86	1.000	86	1.000	\$ 34,136	\$ 34,136	0	\$ 25,316	\$ 2,935,696
1-Dec-14	96	62	1.000	62	1.000	\$ 4,987	\$ 4,987	0	\$ 26,867	\$ 309,188
1-Dec-15	84	70	1.000	70	1.000	\$ 21,713	\$ 21,713	0	\$ 30,962	\$ 1,519,883
1-Dec-16	72	53	1.000	53	1.007	\$ 28,855	\$ 29,054	0	\$ 36,645	\$ 1,539,845
1-Dec-17	60	61	1.000	61	1.015	\$ 147,374	\$ 149,576	0	\$ 44,351	\$ 9,124,162
1-Dec-18	48	61	1.000	61	1.050	\$ 18,387	\$ 19,315	0	\$ 41,038	\$ 1,178,217
1-Dec-19	36	35	1.000	35	1.163	\$ 5,017	\$ 5,837	0	\$ 39,333	\$ 204,294
1-Dec-20	24	32	1.005	32	1.534	\$ 12,921	\$ 19,819	0	\$ 38,817	\$ 634,196
1-Dec-21	12	47	1.106	52	2.789	\$ 2,825	\$ 7,879	5	\$ 38,479	\$ 562,688
Total		2,537		2,542				5		\$ 46,931,597

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 @ 11/30/22 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	768	1.028	748	\$ 1,548,156	0.000	\$ -	\$ 834,347
1-Dec-11	\$ 10,000,000	\$ 445,189	1.000	795	1.028	773	\$ 1,420,647	0.000	\$ -	\$ 445,189
1-Dec-12	Various	\$ 302,494	1.000	819	1.000	819	\$ 1,549,720	0.000	\$ -	\$ 302,494
1-Dec-13	\$ 15,000,000	\$ 2,935,696	1.000	846	1.000	846	\$ 1,625,777	0.000	\$ -	\$ 2,935,696
1-Dec-14	\$ 15,000,000	\$ 309,188	1.000	874	1.000	874	\$ 1,766,518	0.000	\$ -	\$ 309,188
1-Dec-15	\$ 15,000,000	\$ 1,519,883	1.000	913	1.000	913	\$ 1,748,480	0.000	\$ -	\$ 1,519,883
1-Dec-16	\$ 15,000,000	\$ 1,529,308	1.007	947	1.000	947	\$ 1,678,218	0.007	\$ 11,485	\$ 1,540,792
1-Dec-17	Various	\$ 8,989,803	1.015	980	1.000	980	\$ 1,810,782	0.015	\$ 26,665	\$ 9,016,468
1-Dec-18	\$ 20,000,000	\$ 1,121,610	1.050	1,004	1.000	1,004	\$ 1,910,834	0.048	\$ 91,804	\$ 1,213,414
1-Dec-19	Various	\$ 175,602	1.163	1,040	1.000	1,040	\$ 1,872,050	0.140	\$ 262,922	\$ 438,524
1-Dec-20	\$ 30,000,000	\$ 413,472	1.541	1,075	1.000	1,075	\$ 1,875,427	0.351	\$ 658,800	\$ 1,072,273
1-Dec-21	\$ 30,000,000	\$ 132,780	3.083	1,107.35	1.000	1,107.35	\$ 1,958,906	0.676	\$ 1,323,516	\$ 1,456,295
Total		\$ 18,709,373					\$ 20,765,515		\$ 2,375,192	\$ 21,084,564

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 @ 11/30/22
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	768	1.028	748	\$ 1,548,156	0.000	\$ -	\$ 834,347
1-Dec-11	\$ 10,000,000	\$ 445,189	1.000	795	1.028	773	\$ 1,420,647	0.000	\$ -	\$ 445,189
1-Dec-12	Various	\$ 302,494	1.000	819	1.000	819	\$ 1,549,720	0.000	\$ -	\$ 302,494
1-Dec-13	\$ 15,000,000	\$ 2,935,696	1.000	846	1.000	846	\$ 1,625,777	0.000	\$ -	\$ 2,935,696
1-Dec-14	\$ 15,000,000	\$ 309,188	1.000	874	1.000	874	\$ 1,766,518	0.000	\$ -	\$ 309,188
1-Dec-15	\$ 15,000,000	\$ 1,519,883	1.006	913	1.000	913	\$ 1,748,480	0.006	\$ 10,645	\$ 1,530,528
1-Dec-16	\$ 15,000,000	\$ 1,529,308	1.031	947	1.000	947	\$ 1,678,218	0.030	\$ 49,771	\$ 1,579,079
1-Dec-17	Various	\$ 8,739,129	1.072	980	1.000	980	\$ 1,810,782	0.067	\$ 121,283	\$ 8,860,412
1-Dec-18	\$ 20,000,000	\$ 208,672	1.156	1,004	1.000	1,004	\$ 1,910,834	0.135	\$ 258,171	\$ 466,844
1-Dec-19	Various	\$ 115,602	1.494	1,040	1.000	1,040	\$ 1,872,050	0.331	\$ 619,347	\$ 734,949
1-Dec-20	\$ 30,000,000	\$ 97,672	2.406	1,075	1.000	1,075	\$ 1,875,427	0.584	\$ 1,095,947	\$ 1,193,619
1-Dec-21	\$ 30,000,000	\$ 32,780	7.085	1,107.35	1.000	1,107.35	\$ 1,958,906	0.859	\$ 1,682,429	\$ 1,715,209
Total		\$ 17,069,961					\$ 20,765,515		\$ 3,837,593	\$ 20,907,554

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 @ 11/30/22
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred CDF	(3) Paid CDF	(4) Claim CDF	(5) Trend Factors		(6) Exposure	(7) Number of Vehicles
				Loss	Exposure		
Prior	1.000	1.000	1.000	2.035	1.000	-	-
1-Dec-01	1.000	1.000	1.000	1.978	1.000	2,283	2,283
1-Dec-02	1.000	1.000	1.000	1.897	1.000	2,283	2,283
1-Dec-03	1.000	1.000	1.000	1.817	1.000	1,997	1,997
1-Dec-04	1.000	1.000	1.000	1.734	1.000	1,997	1,997
1-Dec-05	1.000	1.000	1.000	1.656	1.000	1,780	1,780
1-Dec-06	1.000	1.000	1.000	1.574	1.000	-	-
1-Dec-07	1.000	1.000	1.000	1.511	1.000	-	-
1-Dec-08	1.000	1.000	1.000	1.440	1.000	-	-
1-Dec-09	1.000	1.000	1.000	1.493	1.000	-	-
1-Dec-10	1.000	1.000	1.000	1.441	1.000	2,071	2,071
1-Dec-11	1.000	1.000	1.000	1.393	1.000	1,837	1,837
1-Dec-12	1.000	1.000	1.000	1.352	1.000	1,892	1,892
1-Dec-13	1.000	1.000	1.000	1.308	1.000	1,921	1,921
1-Dec-14	1.000	1.000	1.000	1.268	1.000	2,022	2,022
1-Dec-15	1.000	1.006	1.000	1.213	1.000	1,915	1,915
1-Dec-16	1.007	1.031	1.000	1.170	1.000	1,773	1,773
1-Dec-17	1.015	1.072	1.000	1.130	1.000	1,847	1,847
1-Dec-18	1.050	1.156	1.000	1.103	1.000	1,903	1,903
1-Dec-19	1.163	1.494	1.000	1.065	1.000	1,800	1,800
1-Dec-20	1.541	2.406	1.005	1.030	1.000	1,744	1,744
1-Dec-21	3.083	7.085	1.106	1.000	1.000	1,769	1,769

Methods Included in Analysis : **Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity**
 Source Used for LDFs : **Company Exclusively**

LDF Annual Decay Rate (Incurred/F **0.75** **0.75**
 ELR for B/F Method : **1,140**
 Generalized Cape Cod Decay Factor **0.75**
 Loss Limitation : **Exhibit 10, Column (5)**
 Discount Rates : **4.13%**

Column (2) : Company Exclusively
Column (3) : Company Exclusively
Column (4) : Company Exclusively

Column (5) : Masterson Indices
Column (6) : Flat 0.00%
Column (7) : supplied by Cook County, Illinois



**Cook County, Illinois
Automobile Liability**

**Automobile Liability Experience @ 11/30/22
Limited Loss Calculations**

(1) Policy Period Inception	(2)		(3)	(4)	(5)	(6)			(7)	(8)	(9)	(10)		(11)	(12)
	Unlimited		Paid	Case O/S	Retention	Claims valued over the Retention			Incurred	No.	Paid	Limited		Paid	Case O/S
Incurred		No.													
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	\$ 8,989,803	\$ 8,739,129	\$ 250,674	-	Various	-	\$ -	-	-	\$ -	-	\$ 8,989,803	\$ 8,739,129	\$ 250,674	-
1-Dec-18	\$ 1,121,610	\$ 208,672	\$ 912,938	-	\$ 20,000,000	-	\$ -	-	-	\$ -	-	\$ 1,121,610	\$ 208,672	\$ 912,938	-
1-Dec-19	\$ 175,602	\$ 115,602	\$ 60,000	-	Various	-	\$ -	-	-	\$ -	-	\$ 175,602	\$ 115,602	\$ 60,000	-
1-Dec-20	\$ 413,472	\$ 97,672	\$ 315,800	-	\$ 30,000,000	-	\$ -	-	-	\$ -	-	\$ 413,472	\$ 97,672	\$ 315,800	-
1-Dec-21	\$ 132,780	\$ 32,780	\$ 100,000	-	\$ 30,000,000	-	\$ -	-	-	\$ -	-	\$ 132,780	\$ 32,780	\$ 100,000	-
	\$ 46,050,771	\$ 44,411,359	\$ 1,639,412				\$ -	\$ -		\$ -		\$ 46,050,771	\$ 44,411,359	\$ 1,639,412	

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 @ 11/30/22
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	1.005	32	1.000	32	1.84395%		32	32	1.84395%
1-Dec-21	1,769	47	1.106	52	1.000	52	2.93717%		52	52	2.93717%
Total	22,494	728		733		733	3.25914%		733	733	3.25914%

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 58
 Column (10) : Selected Trended Ultimate Claims
 Column (11) : Column (10) / Column (6)
 Column (12) : Column (10) / Column (2)

Selected Bornhuetter-Ferguson Claim Count for Policy Period 1-Dec-21					
Weighted Averages excluding Policy Period 1-Dec-21					
Last 5 Policies	9,063			241	2.66040%
Last 3 Policies	5,313			119	2.24191%
Last 2 Policies	3,513			84	2.39444%
Last 11 Policies	20,725			681	3.28662%
Selected Bornhuetter-Ferguson Frequency Rate					3.28662%
Vehicles for 1-Dec-21				1,769	
Apriori Expected Count for 1-Dec-21				58	



**Cook County, Illinois
Automobile Liability
Automobile Liability Experience @ 11/30/22
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	1.484	1.028	1,272,772	2,071	1.000	2,071	615
1-Dec-11	445,189	445,189	1.434	1.028	656,457	1,837	1.000	1,837	357
1-Dec-12	302,494	302,494	1.392	1.000	421,137	1,892	1.000	1,892	223
1-Dec-13	2,935,696	2,935,696	1.347	1.000	3,955,635	1,921	1.000	1,921	2,059
1-Dec-14	309,188	309,188	1.305	1.000	403,575	2,022	1.000	2,022	200
1-Dec-15	1,519,883	1,519,883	1.249	1.000	1,898,266	1,915	1.000	1,915	991
1-Dec-16	1,529,308	1,529,308	1.205	1.000	1,842,442	1,773	1.000	1,773	1,039
1-Dec-17	8,989,803	9,060,000	1.163	1.000	10,538,227	1,847	1.000	1,847	5,706
1-Dec-18	1,121,610	1,220,000	1.136	1.000	1,385,525	1,903	1.000	1,903	728
1-Dec-19	175,602	440,000	1.097	1.000	482,488	1,800	1.000	1,800	268
1-Dec-20	413,472	1,130,000	1.060	1.000	1,198,351	1,744	1.000	1,744	687
1-Dec-21	132,780	1,550,000	1.030	1.000	1,596,190	1,769	1.000	1,769	902
All Year Weighted Average					25,651,065			22,494	1,140
Latest 5-Year Weighted Average					15,200,781			9,063	1,677
Latest 3-Year Weighted Average					3,277,029			5,313	617
SELECTED - Based on Shaded PY					25,651,065			22,494	1,140

Column (1) : from Exhibit 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-22	30,000,000	1,784	57	1,140	2,030,000
1-Dec-23	30,000,000	1,787	57	1,171	2,090,000
1-Dec-24	30,000,000	1,787	57	1,209	2,160,000

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



**Cook County, Illinois
Automobile Liability
Projected Losses Paid 12/1/2022 to 11/30/2023**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/22	Percent Losses Paid	Months of Development 11/30/23	Percent Losses Paid	Estimated Outstanding Losses 11/30/22	Projected Losses Paid	Estimated Outstanding Losses 11/30/23	Discount Factor	Discounted Outstanding Losses 11/30/23
Prior	264	100.0%	276	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-01	252	100.0%	264	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-02	240	100.0%	252	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-03	228	100.0%	240	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-04	216	100.0%	228	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-05	204	100.0%	216	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-06	192	100.0%	204	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-07	180	100.0%	192	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-08	168	100.0%	180	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-09	156	100.0%	168	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-10	144	100.0%	156	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-11	132	100.0%	144	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-12	120	100.0%	132	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-13	108	100.0%	120	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-14	96	100.0%	108	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-15	84	99.4%	96	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-16	72	97.0%	84	99.4%	\$ -	\$ -	\$ -	0.980	\$ -
1-Dec-17	60	93.3%	72	97.0%	\$ 320,871	\$ 178,793	\$ 142,078	0.972	\$ 138,099
1-Dec-18	48	86.5%	60	93.3%	\$ 1,011,328	\$ 509,979	\$ 501,348	0.959	\$ 480,976
1-Dec-19	36	66.9%	48	86.5%	\$ 324,398	\$ 191,919	\$ 132,479	0.951	\$ 125,973
1-Dec-20	24	41.6%	36	66.9%	\$ 1,032,328	\$ 447,881	\$ 584,446	0.953	\$ 556,797
1-Dec-21	12	14.1%	24	41.6%	\$ 1,517,220	\$ 484,899	\$ 1,032,321	0.943	\$ 973,617
1-Dec-22	0	0.0%	12	14.1%	\$ 2,030,000	\$ 286,511	\$ 1,743,489	0.929	\$ 1,620,494
Total					\$ 6,236,144	\$ 2,099,983	\$ 4,136,162		\$ 3,895,956

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 4.13% Interest Rate
 Column (10): Column (8) x Column (9)



**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	99.4%	96	100.0%	\$ -	\$ -	\$ -	1.000	\$ -
1-Dec-17	72	97.0%	84	99.4%	\$ 142,078	\$ 112,911	\$ 29,167	0.980	\$ 28,583
1-Dec-18	60	93.3%	72	97.0%	\$ 501,348	\$ 279,357	\$ 221,992	0.972	\$ 215,774
1-Dec-19	48	86.5%	60	93.3%	\$ 132,479	\$ 66,805	\$ 65,674	0.959	\$ 63,005
1-Dec-20	36	66.9%	48	86.5%	\$ 584,446	\$ 345,768	\$ 238,678	0.951	\$ 226,957
1-Dec-21	24	41.6%	36	66.9%	\$ 1,032,321	\$ 447,878	\$ 584,443	0.953	\$ 556,794
1-Dec-22	12	14.1%	24	41.6%	\$ 1,743,489	\$ 557,214	\$ 1,186,275	0.943	\$ 1,118,816
1-Dec-23	0	0.0%	12	14.1%	\$ 2,090,000	\$ 294,979	\$ 1,795,021	0.929	\$ 1,668,390
Total					\$ 6,226,162	\$ 2,104,912	\$ 4,121,249		\$ 3,878,320

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 4.13% 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	99.4%	96	100.0%	\$ 29,167	\$ 29,167	\$ (0)	1.000	\$ (0)
1-Dec-18	72	97.0%	84	99.4%	\$ 221,992	\$ 176,419	\$ 45,572	0.980	\$ 44,659
1-Dec-19	60	93.3%	72	97.0%	\$ 65,674	\$ 36,594	\$ 29,080	0.972	\$ 28,265
1-Dec-20	48	86.5%	60	93.3%	\$ 238,678	\$ 120,358	\$ 118,321	0.959	\$ 113,513
1-Dec-21	36	66.9%	48	86.5%	\$ 584,443	\$ 345,766	\$ 238,677	0.951	\$ 226,956
1-Dec-22	24	41.6%	36	66.9%	\$ 1,186,275	\$ 514,672	\$ 671,603	0.953	\$ 639,831
1-Dec-23	12	14.1%	24	41.6%	\$ 1,795,021	\$ 573,683	\$ 1,221,337	0.943	\$ 1,151,885
1-Dec-24	0	0.0%	12	14.1%	\$ 2,160,000	\$ 304,859	\$ 1,855,141	0.929	\$ 1,724,269
Total					\$ 6,281,249	\$ 2,101,519	\$ 4,179,731		\$ 3,929,378

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 4.13% Interest Rate
 Column (10): Column (8) x Column (9)



Large Claims Listing

**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 Limited to Retentions (000s)
 As of 11/30/2022

		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
Prior					15,023	31,472	31,179	19,181	15,733	14,932	14,932	14,932	14,932	14,935	14,934	14,934	14,934	14,840	14,938	13,250	13,250	13,250
12/1/2001	233	422	1,333	2,188	3,307	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
12/1/2002	246	488	320	238	213	221	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	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	2,828	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
12/1/2006	160	263	633	834	834	834	834	834	834	834	834	834	624	624	653	653	653	653	653	653	653	653
12/1/2007	91	155	131	122	130	128	128	128	128	128	132	132	150	150	150	150	150	150	150	150	150	150
12/1/2008	132	164	184	173	173	173	173	175	175	174	174	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
12/1/2010	229	380	514	809	809	809	809	809	809	819	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
12/1/2012	213	334	272	282	282	282	282	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
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
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
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
12/1/2017	620	4,542	10,490	10,490	8,990	8,990	8,990	8,990	8,990	8,990	8,990	8,990	8,990	8,990	8,990	8,990	8,990	8,990	8,990	8,990	8,990	8,990
12/1/2018	118	558	752	1,122	1,122	1,122	1,122	1,122	1,122	1,122	1,122	1,122	1,122	1,122	1,122	1,122	1,122	1,122	1,122	1,122	1,122	1,122
12/1/2019	58	190	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176
12/1/2020	275	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413
12/1/2021	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133

		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-Ult
Prior					2,956	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	1,000	1,000	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	1,000	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
12/1/2003	2,215	0,938	1,685	0,885	0,802	1,123	0,846	1,000	1,000	1,000	1,000	1,000	1,029	1,000	1,086	1,000	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
12/1/2005	1,229	0,828	0,825	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,030	1,000	1,141	1,000	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	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	1,000	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
12/1/2008	1,246	1,123	0,940	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	0,617	7,154	2,376	1,077	0,982	0,997	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	1,659	1,353	1,574	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	1,031	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
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
12/1/2014	1,763	0,887	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	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
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
12/1/2017	7,328	2,309	1,000	0,857	1,000	1,000	1,000	1,000	1,000	1,000	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	4,744	1,349	1,491	1,491	1,491	1,491	1,491	1,491	1,491	1,491	1,491	1,491	1,491	1,491	1,491	1,491	1,491	1,491	1,491	1,491	1,491	1,491
12/1/2019	3,278	0,926	0,926	0,926	0,926	0,926	0,926	0,926	0,926	0,926	0,926	0,926	0,926	0,926	0,926	0,926	0,926	0,926	0,926	0,926	0,926	0,926
12/1/2020	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502
12/1/2021	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502	1,502

		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-Ult
All Year Average	2,178	1,917	1,164	1,112	1,089	1,006	0,943	0,988	0,998	1,007	1,015	1,005	1,019	1,001	1,012	1,016	1,001	1,002	0,962	1,000	1,000	1,000
3 Yr Average	3,175	1,528	1,149	1,477	1,000	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	0,962	NA	NA
5 Yr Average	3,718	1,394	1,084	1,309	1,002	1,073	1,009	1,004	1,001	1,020	1,027	1,009	1,028	1,002	1,017	1,020	1,001	NA	NA	NA	NA	NA
3 Yr Wtd Average	2,575	2,159	1,029	0,955	1,000	1,015	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	0,905	NA	NA
5 Yr Wtd Average	4,549	1,907	1,022	0,966	1,004	1,017	1,005	1,001	1,002	1,002	1,002	1,004	1,006	1,007	1,008	1,003	0,997	NA	NA	NA	NA	NA
Avg X Hi-Lo (3yr																						

Cook County, Illinois
 Automobile Liability
 Occurrence
 Indemnity and Expense
 Paid Development Triangle
 Data Limited to Retentions (000s)
 As of 11/30/2022

		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
Prior					4,682	11,069	11,154	11,179	11,181	11,182	11,182	14,932	14,932	14,932	14,934	14,934	14,934	14,840	14,938	13,250	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
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
12/1/2003	50	141	246	256	355	355	355	355	385	385	385	385	385	385	397	397	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
12/1/2005	61	136	164	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	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	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
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
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
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
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
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
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
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
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
12/1/2017	65	156	239	239	8,739	8,739	8,739	8,739	8,739	8,739	8,739	8,739	8,739	8,739	8,739	8,739	8,739	8,739	8,739	8,739	8,739	8,739
12/1/2018	60	162	189	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209
12/1/2019	28	85	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
12/1/2020	25	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
12/1/2021	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33

		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-Ult
Prior					2,364	1,008	1,002	1,000	1,000	1,000	1,335	1,000	1,000	1,000	1,000	1,000	0.994	1,007	0.887	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	1.011	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	1.098	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	1.029	1.000	1.086	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	0.998	1.000	1.010	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	1.030	1.000	1.141	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2006	2.932	2.087	1.170	1.000	1.000	1.000	2.709	1.000	1.000	0.984	1.000	1.047	1.000	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	
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	
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	
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	
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	
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	
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	
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	
12/1/2015	22.491	1.029	1.202	1.000	1.000	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	
12/1/2016	3.114	1.392	1.080	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	
12/1/2017	2.415	1.533	1.000	36.546	36.546	36.546	36.546	36.546	36.546	36.546	36.546	36.546	36.546	36.546	36.546	36.546	36.546	36.546	36.546	36.546	36.546	
12/1/2018	2.682	1.166	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	
12/1/2019	3.038	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	1.366	
12/1/2020	3.898	3.898	3.898	3.898	3.898	3.898	3.898	3.898	3.898	3.898	3.898	3.898	3.898	3.898	3.898	3.898	3.898	3.898	3.898	3.898	3.898	
12/1/2021																						

		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-Ult
All Year Average	3.895	1.640	1.932	3.389	1.625	1.597	1.122	1.002	1.002	1.007	1.046	1.005	1.019	1.001	1.012	1.016	1.001	1.002	0.962	1.000	1.000	
3 Yr Average	3.193	1.355	1.062	12.875	1.730	1.160	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.962	NA	NA	
5 Yr Average	3.021	1.297	1.078	8.148	1.440	1.074	1.006	1.006	1.001	1.020	1.027	1.009	1.028	1.002	1.017	1.020	1.001	NA	NA	NA	NA	
3 Yr Wtd Average	3.032	1.351	1.063	4.891	1.471	1.017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.905	NA	NA	
5 Yr Wtd Average	2.914	1.153	1.133	2.610	1.199	1.019	1.003	1.002	1.002	1.002	1.002	1.004	1.006	1.007	1.008	1.003	0.997	NA	NA	NA	NA	
Avg X Hi-Lo (3yr X 2)	3.038	1.366	1.080	1.079	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	NA	NA	
Avg X Hi-Lo (5yr X 2)	2.945	1.308	1.062	1.064	1.003	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	NA	NA	
Prior	2.867	1.820	1.320	1.070	1.031	1.024</																



**Cook County, Illinois
Law Enforcement Liability Experience @ 11/30/22
Losses Limited to Retentions**

Policy Period	Sworn Officers (1)	Retention (2)	Reported Claims (3)	Open Claims (3a)	Incurred (4)	Paid (5)	Case (6) [(4)-(5)]	Est IBNR (7)	Total O/S (8) [(6)+(7)]	Ultimate (9) [(4)+(7)]	Ultimate Loss Rate (10) [(9)/(1)]
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Historical Experience											
Prior		Various	108	13	59,721,734	13,721,734	46,000,000	10,178,266	56,178,266	69,900,000	
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	1,421,302	1,371,302	50,000	8,698	58,698	1,430,000	
1-Dec-05		10,000,000	140	2	5,158,785	2,658,785	2,500,000	151,215	2,651,215	5,310,000	
1-Dec-06		10,000,000	183	-	2,403,373	2,403,373	-	-	-	2,403,373	
1-Dec-07		10,000,000	192	1	13,296,710	12,296,710	1,000,000	268,290	1,268,290	13,565,000	
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	8,331,958	3,329,458	5,002,500	1,668,042	6,670,542	10,000,000	
1-Dec-12		Various	445	4	11,696,334	9,565,334	2,131,000	1,003,666	3,134,666	12,700,000	
1-Dec-13		15,000,000	625	4	29,979,100	10,229,100	19,750,000	3,020,900	22,770,900	33,000,000	
1-Dec-14	6,022	15,000,000	393	13	6,103,819	3,843,819	2,260,000	1,496,181	3,756,181	7,600,000	1,262
1-Dec-15	5,881	15,000,000	348	21	14,983,394	5,655,892	9,327,502	2,616,606	11,944,108	17,600,000	2,993
1-Dec-16	5,451	15,000,000	307	35	12,694,958	8,384,758	4,310,200	3,305,042	7,615,242	16,000,000	2,935
1-Dec-17	5,319	Various	255	46	8,450,932	2,613,882	5,837,050	5,549,068	11,386,118	14,000,000	2,632
1-Dec-18	5,054	20,000,000	167	70	6,617,685	2,484,576	4,133,109	7,382,315	11,515,424	14,000,000	2,770
1-Dec-19	4,883	Various	153	97	20,526,251	1,130,800	19,395,451	12,473,749	31,869,200	33,000,000	6,758
1-Dec-20	4,759	30,000,000	65	39	10,269,292	2,061,792	8,207,500	14,730,708	22,938,208	25,000,000	5,253
1-Dec-21	4,774	30,000,000	18	9	1,604,000	-	1,604,000	19,396,000	21,000,000	21,000,000	4,399
Total	42,143		4,758	360	314,769,761	179,160,449	135,609,312	83,463,663	219,072,975	398,233,424	3,517

Full Policy Period Projections											
1-Dec-22	4,609	30,000,000								20,300,000	4,400
1-Dec-23	4,609	30,000,000								20,800,000	4,516



**Cook County, Illinois
Law Enforcement Liability**

**Law Enforcement Liability Experience @ 11/30/22
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	\$ 60,194,478	\$ 13,934,421	\$ 108,476,844	N/A	N/A	N/A	N/A	\$ 60,128,337	\$ 69,900,000
1-Dec-01	\$ -	\$ -	\$ -	N/A	N/A	N/A	N/A	\$ -	\$ -
1-Dec-02	\$ 5,104,767	\$ 1,054,211	\$ 10,048,736	N/A	N/A	N/A	N/A	\$ 5,099,158	\$ 5,100,000
1-Dec-03	\$ 55,365,049	\$ 56,079,173	\$ 54,222,303	N/A	N/A	N/A	N/A	\$ 55,304,215	\$ 54,222,303
1-Dec-04	\$ 1,458,513	\$ 1,425,354	\$ 1,524,098	N/A	N/A	N/A	N/A	\$ 1,456,910	\$ 1,430,000
1-Dec-05	\$ 5,320,314	\$ 2,777,404	\$ 11,305,907	N/A	N/A	N/A	N/A	\$ 5,314,468	\$ 5,310,000
1-Dec-06	\$ 2,491,019	\$ 2,523,149	\$ 2,403,373	N/A	N/A	N/A	N/A	\$ 2,488,282	\$ 2,403,373
1-Dec-07	\$ 13,850,523	\$ 12,974,087	\$ 16,567,458	N/A	N/A	N/A	N/A	\$ 13,835,304	\$ 13,565,000
1-Dec-08	\$ 4,598,586	\$ 4,657,901	\$ 4,392,748	N/A	N/A	N/A	N/A	\$ 4,642,620	\$ 4,392,748
1-Dec-09	\$ 6,946,607	\$ 7,035,142	\$ 6,606,746	N/A	N/A	N/A	N/A	\$ 6,964,714	\$ 6,610,000
1-Dec-10	\$ 33,061,352	\$ 33,380,694	\$ 31,718,413	N/A	N/A	N/A	N/A	\$ 32,881,908	\$ 31,400,000
1-Dec-11	\$ 8,897,922	\$ 3,601,480	\$ 35,016,343	N/A	N/A	N/A	N/A	\$ 8,962,321	\$ 10,000,000
1-Dec-12	\$ 12,615,739	\$ 10,553,774	\$ 19,170,019	N/A	N/A	N/A	N/A	\$ 12,720,878	\$ 12,700,000
1-Dec-13	\$ 32,982,356	\$ 11,624,713	\$ 91,993,144	N/A	N/A	N/A	N/A	\$ 32,957,802	\$ 33,000,000
1-Dec-14	\$ 6,983,901	\$ 4,652,189	\$ 12,068,694	\$ 8,509,305	\$ 7,160,707	\$ 7,255,473	\$ 4,635,730	\$ 7,205,429	\$ 7,600,000
1-Dec-15	\$ 17,829,533	\$ 7,392,976	\$ 34,748,220	\$ 18,067,849	\$ 10,195,976	\$ 16,787,309	\$ 6,979,263	\$ 17,834,493	\$ 17,600,000
1-Dec-16	\$ 15,865,315	\$ 13,699,943	\$ 17,272,912	\$ 16,435,921	\$ 15,647,883	\$ 15,124,368	\$ 10,836,619	\$ 15,922,719	\$ 16,000,000
1-Dec-16	\$ 11,691,357	\$ 5,430,621	\$ 15,149,623	\$ 13,867,134	\$ 12,749,609	\$ 12,225,425	\$ 6,090,840	\$ 11,850,031	\$ 14,000,000
1-Dec-18	\$ 10,337,351	\$ 8,331,298	\$ 10,966,877	\$ 13,561,441	\$ 16,027,099	\$ 11,948,064	\$ 7,349,925	\$ 10,416,502	\$ 14,000,000
1-Dec-19	\$ 37,354,137	\$ 8,531,564	\$ 41,481,620	\$ 29,386,647	\$ 18,192,023	\$ 28,426,105	\$ 7,576,550	\$ 35,198,096	\$ 33,000,000
1-Dec-20	\$ 38,423,182	\$ 73,500,381	\$ 35,409,247	\$ 24,764,369	\$ 21,289,110	\$ 23,921,301	\$ 9,871,100	\$ 29,876,223	\$ 25,000,000
1-Dec-21	\$ 19,504,757	\$ -	\$ 20,105,815	\$ 20,341,837	\$ 20,362,299	\$ 19,256,813	\$ 8,261,275	\$ 9,887,850	\$ 21,000,000
Total	\$ 400,876,758	\$ 283,160,476	\$ 580,649,142	\$ 144,934,503	\$ 121,624,707	\$ 134,944,859	\$ 61,601,302	\$ 380,948,260	\$ 398,233,424

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 @ 11/30/22
Unpaid Liabilities at Various Discount Rates
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Unpaid Liabilities Undiscounted	Disc Rate 4.13%
Prior	264	Various	\$ 69,900,000	\$ 59,721,734	\$ 13,721,734	\$ 46,000,000	\$ 10,178,266	\$ 56,178,266	\$ 49,160,620
1-Dec-01	252	\$ 9,500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec-02	240	\$ 9,500,000	\$ 5,100,000	\$ 5,024,401	\$ 1,024,401	\$ 4,000,000	\$ 75,599	\$ 4,075,599	\$ 3,562,457
1-Dec-03	228	Various	\$ 54,222,303	\$ 54,222,303	\$ 54,222,303	\$ -	\$ -	\$ -	\$ -
1-Dec-04	216	\$ 10,000,000	\$ 1,430,000	\$ 1,421,302	\$ 1,371,302	\$ 50,000	\$ 8,698	\$ 58,698	\$ 49,623
1-Dec-05	204	\$ 10,000,000	\$ 5,310,000	\$ 5,158,785	\$ 2,658,785	\$ 2,500,000	\$ 151,215	\$ 2,651,215	\$ 2,202,383
1-Dec-06	192	\$ 10,000,000	\$ 2,403,373	\$ 2,403,373	\$ 2,403,373	\$ -	\$ -	\$ -	\$ -
1-Dec-07	180	\$ 10,000,000	\$ 13,565,000	\$ 13,296,710	\$ 12,296,710	\$ 1,000,000	\$ 268,290	\$ 1,268,290	\$ 1,016,528
1-Dec-08	168	\$ 10,000,000	\$ 4,392,748	\$ 4,392,748	\$ 4,392,748	\$ -	\$ -	\$ -	\$ -
1-Dec-09	156	\$ 10,000,000	\$ 6,610,000	\$ 6,602,655	\$ 6,601,655	\$ 1,000	\$ 7,345	\$ 8,345	\$ 6,450
1-Dec-10	144	\$ 10,000,000	\$ 31,400,000	\$ 31,268,025	\$ 31,168,025	\$ 100,000	\$ 131,975	\$ 231,975	\$ 176,081
1-Dec-11	132	\$ 10,000,000	\$ 10,000,000	\$ 8,331,958	\$ 3,329,458	\$ 5,002,500	\$ 1,668,042	\$ 6,670,542	\$ 5,067,420
1-Dec-12	120	Various	\$ 12,700,000	\$ 11,696,334	\$ 9,565,334	\$ 2,131,000	\$ 1,003,666	\$ 3,134,666	\$ 2,438,810
1-Dec-13	108	\$ 15,000,000	\$ 33,000,000	\$ 29,979,100	\$ 10,229,100	\$ 19,750,000	\$ 3,020,900	\$ 22,770,900	\$ 18,179,128
1-Dec-14	96	\$ 15,000,000	\$ 7,600,000	\$ 6,103,819	\$ 3,843,819	\$ 2,260,000	\$ 1,496,181	\$ 3,756,181	\$ 3,127,426
1-Dec-15	84	\$ 15,000,000	\$ 17,600,000	\$ 14,983,394	\$ 5,655,892	\$ 9,327,502	\$ 2,616,606	\$ 11,944,108	\$ 10,111,544
1-Dec-16	72	\$ 15,000,000	\$ 16,000,000	\$ 12,694,958	\$ 8,384,758	\$ 4,310,200	\$ 3,305,042	\$ 7,615,242	\$ 6,692,628
1-Dec-17	60	Various	\$ 14,000,000	\$ 8,450,932	\$ 2,613,882	\$ 5,837,050	\$ 5,549,068	\$ 11,386,118	\$ 9,999,930
1-Dec-18	48	\$ 20,000,000	\$ 14,000,000	\$ 6,617,685	\$ 2,484,576	\$ 4,133,109	\$ 7,382,315	\$ 11,515,424	\$ 10,122,625
1-Dec-19	36	Various	\$ 33,000,000	\$ 20,526,251	\$ 1,130,800	\$ 19,395,451	\$ 12,473,749	\$ 31,869,200	\$ 27,729,981
1-Dec-20	24	\$ 30,000,000	\$ 25,000,000	\$ 10,269,292	\$ 2,061,792	\$ 8,207,500	\$ 14,730,708	\$ 22,938,208	\$ 19,523,347
1-Dec-21	12	\$ 30,000,000	\$ 21,000,000	\$ 1,604,000	\$ -	\$ 1,604,000	\$ 19,396,000	\$ 21,000,000	\$ 17,251,672
Total			\$ 398,233,424	\$ 314,769,761	\$ 179,160,449	\$ 135,609,312	\$ 83,463,663	\$ 219,072,975	\$ 186,418,653

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 (10) : Column (9) discounted



**Cook County, Illinois
Law Enforcement Liability**

**Law Enforcement Liability Experience @ 11/30/22
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	264	\$ 59,721,734	1.008	\$ 60,194,478	\$ 13,721,734	1.016	\$ 13,934,421	\$ 46,000,000	2.060	\$ 108,476,844																		
1-Dec-01	252	\$ -	1.012	\$ -	\$ -	1.025	\$ -	\$ -	1.938	\$ -																		
1-Dec-02	240	\$ 5,024,401	1.016	\$ 5,104,767	\$ 1,024,401	1.029	\$ 1,054,211	\$ 4,000,000	2.256	\$ 10,048,736																		
1-Dec-03	228	\$ 54,222,303	1.021	\$ 55,365,049	\$ 54,222,303	1.034	\$ 56,079,173	\$ -	2.655	\$ 54,222,303																		
1-Dec-04	216	\$ 1,421,302	1.026	\$ 1,458,513	\$ 1,371,302	1.039	\$ 1,425,354	\$ 50,000	3.056	\$ 1,524,098																		
1-Dec-05	204	\$ 5,158,785	1.031	\$ 5,320,314	\$ 2,658,785	1.045	\$ 2,777,404	\$ 2,500,000	3.459	\$ 11,305,907																		
1-Dec-06	192	\$ 2,403,373	1.036	\$ 2,491,019	\$ 2,403,373	1.050	\$ 2,523,149	\$ -	3.864	\$ 2,403,373																		
1-Dec-07	180	\$ 13,296,710	1.042	\$ 13,850,523	\$ 12,296,710	1.055	\$ 12,974,087	\$ 1,000,000	4.271	\$ 16,567,458																		
1-Dec-08	168	\$ 4,392,748	1.047	\$ 4,598,586	\$ 4,392,748	1.060	\$ 4,657,901	\$ -	4.680	\$ 4,392,748																		
1-Dec-09	156	\$ 6,602,655	1.052	\$ 6,946,607	\$ 6,601,655	1.066	\$ 7,035,142	\$ 1,000	5.091	\$ 6,606,746																		
1-Dec-10	144	\$ 31,268,025	1.057	\$ 33,061,352	\$ 31,168,025	1.071	\$ 33,380,694	\$ 100,000	5.504	\$ 31,718,413																		
1-Dec-11	132	\$ 8,331,958	1.068	\$ 8,897,922	\$ 3,329,458	1.082	\$ 3,601,480	\$ 5,002,500	6.334	\$ 35,016,343																		
1-Dec-12	120	\$ 11,696,334	1.079	\$ 12,615,739	\$ 9,565,334	1.103	\$ 10,553,774	\$ 2,131,000	4.507	\$ 19,170,019																		
1-Dec-13	108	\$ 29,979,100	1.100	\$ 32,982,356	\$ 10,229,100	1.136	\$ 11,624,713	\$ 19,750,000	4.140	\$ 91,993,144																		
1-Dec-14	96	\$ 6,103,819	1.144	\$ 6,983,901	\$ 3,843,819	1.210	\$ 4,652,189	\$ 2,260,000	3.639	\$ 12,068,694																		
1-Dec-15	84	\$ 14,983,394	1.190	\$ 17,829,533	\$ 5,655,892	1.307	\$ 7,392,976	\$ 9,327,502	3.119	\$ 34,748,220																		
1-Dec-16	72	\$ 12,694,958	1.250	\$ 15,865,315	\$ 8,384,758	1.634	\$ 13,699,943	\$ 4,310,200	2.062	\$ 17,272,912																		
1-Dec-17	60	\$ 8,450,932	1.383	\$ 11,691,357	\$ 2,613,882	2.078	\$ 5,430,621	\$ 5,837,050	2.148	\$ 15,149,623																		
1-Dec-18	48	\$ 6,617,685	1.562	\$ 10,337,351	\$ 2,484,576	3.353	\$ 8,331,298	\$ 4,133,109	2.052	\$ 10,966,877																		
1-Dec-19	36	\$ 20,526,251	1.820	\$ 37,354,137	\$ 1,130,800	7.545	\$ 8,531,564	\$ 19,395,451	2.080	\$ 41,481,620																		
1-Dec-20	24	\$ 10,269,292	3.742	\$ 38,423,182	\$ 2,061,792	35.649	\$ 73,500,381	\$ 8,207,500	4.063	\$ 35,409,247																		
1-Dec-21	12	\$ 1,604,000	12.160	\$ 19,504,757	\$ -	374.312	\$ -	\$ 1,604,000	12.535	\$ 20,105,815																		
Total		\$ 314,769,761		\$ 400,876,758	\$ 179,160,449		\$ 283,160,476	\$ 135,609,312		\$ 580,649,142																		

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 @ 11/30/22
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	96	\$ 6,103,819	1.253	1.076	\$ 8,235,136	6,022	1.144	2048	\$ 9,138,962	\$ 7,255,473
1-Dec-15	84	\$ 14,983,394	1.209	1.076	\$ 19,503,172	5,881	1.190	2501	\$ 11,300,562	\$ 16,787,309
1-Dec-16	72	\$ 12,694,958	1.157	1.076	\$ 15,808,466	5,451	1.250	2777	\$ 12,157,418	\$ 15,124,368
1-Dec-17	60	\$ 8,450,932	1.138	1.023	\$ 9,837,460	5,319	1.383	2980	\$ 13,618,259	\$ 12,225,425
1-Dec-18	48	\$ 6,617,685	1.095	1.023	\$ 7,412,210	5,054	1.562	3283	\$ 14,813,696	\$ 11,948,064
1-Dec-19	36	\$ 20,526,251	1.062	1.000	\$ 21,794,168	4,883	1.820	3813	\$ 17,535,906	\$ 28,426,105
1-Dec-20	24	\$ 10,269,292	1.029	1.000	\$ 10,565,426	4,759	3.742	4028	\$ 18,631,657	\$ 23,921,301
1-Dec-21	12	\$ 1,604,000	1.000	1.000	\$ 1,604,000	4,774	12.160	4029	\$ 19,234,596	\$ 19,256,813
Total		\$ 81,250,332			\$ 94,760,038	54,187			\$ 129,272,839	\$ 134,944,859

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	96	\$ 3,843,819	1.253	1.076	\$ 5,185,995	6,022	1.210	1021	\$ 4,557,464	\$ 4,635,730
1-Dec-15	84	\$ 5,655,892	1.209	1.076	\$ 7,362,006	5,881	1.307	1247	\$ 5,632,223	\$ 6,979,263
1-Dec-16	72	\$ 8,384,758	1.157	1.076	\$ 10,441,166	5,451	1.634	1444	\$ 6,319,696	\$ 10,836,619
1-Dec-17	60	\$ 2,613,882	1.138	1.023	\$ 3,042,737	5,319	2.078	1467	\$ 6,703,511	\$ 6,090,840
1-Dec-18	48	\$ 2,484,576	1.095	1.023	\$ 2,782,877	5,054	3.353	1536	\$ 6,932,889	\$ 7,349,925
1-Dec-19	36	\$ 1,130,800	1.062	1.000	\$ 1,200,650	4,883	7.545	1616	\$ 7,430,628	\$ 7,576,550
1-Dec-20	24	\$ 2,061,792	1.029	1.000	\$ 2,121,248	4,759	35.649	1737	\$ 8,034,693	\$ 9,871,100
1-Dec-21	12	\$ -	1.000	1.000	\$ -	4,774	374.312	1735	\$ 8,283,405	\$ 8,261,275
Total		\$ 26,175,520			\$ 32,136,679	54,187			\$ 60,083,112	\$ 61,601,302

Column (3) : supplied by Cook County, Illinois
 Column (4) : Masterson 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 @ 11/30/22
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	264	108	1.001	108	1.007	\$ 552,979	\$ 556,744	0	\$ 204,165	\$ 60,128,337
1-Dec-01	252	1	1.001	1	1.011	\$ -	\$ -	0	\$ 166,775	\$ -
1-Dec-02	240	98	1.001	98	1.015	\$ 51,269	\$ 52,032	0	\$ 143,299	\$ 5,099,158
1-Dec-03	228	105	1.001	105	1.020	\$ 516,403	\$ 526,707	0	\$ 135,808	\$ 55,304,215
1-Dec-04	216	104	1.001	104	1.025	\$ 13,666	\$ 14,009	0	\$ 103,054	\$ 1,456,910
1-Dec-05	204	140	1.001	140	1.030	\$ 36,848	\$ 37,960	0	\$ 82,477	\$ 5,314,468
1-Dec-06	192	183	1.001	183	1.035	\$ 13,133	\$ 13,597	0	\$ 70,054	\$ 2,488,282
1-Dec-07	180	192	1.001	192	1.041	\$ 69,254	\$ 72,059	0	\$ 64,057	\$ 13,835,304
1-Dec-08	168	243	1.003	244	1.044	\$ 18,077	\$ 18,866	1	\$ 58,256	\$ 4,642,620
1-Dec-09	156	228	1.005	229	1.047	\$ 28,959	\$ 30,313	1	\$ 53,413	\$ 6,964,714
1-Dec-10	144	210	1.007	211	1.050	\$ 148,895	\$ 156,322	1	\$ 54,243	\$ 32,881,908
1-Dec-11	132	370	1.009	373	1.058	\$ 22,519	\$ 23,831	3	\$ 48,309	\$ 8,962,321
1-Dec-12	120	445	1.011	450	1.067	\$ 26,284	\$ 28,037	5	\$ 48,854	\$ 12,720,878
1-Dec-13	108	625	1.014	634	1.085	\$ 47,967	\$ 52,034	9	\$ 48,527	\$ 32,957,802
1-Dec-14	96	393	1.017	400	1.125	\$ 15,531	\$ 17,470	7	\$ 48,543	\$ 7,205,429
1-Dec-15	84	348	1.020	355	1.166	\$ 43,056	\$ 50,216	7	\$ 51,334	\$ 17,834,493
1-Dec-16	72	307	1.028	316	1.215	\$ 41,352	\$ 50,249	9	\$ 55,128	\$ 15,922,719
1-Dec-17	60	255	1.041	265	1.329	\$ 33,141	\$ 44,052	10	\$ 61,679	\$ 11,850,031
1-Dec-18	48	167	1.056	176	1.479	\$ 39,627	\$ 58,596	9	\$ 70,111	\$ 10,416,502
1-Dec-19	36	153	1.104	169	1.649	\$ 134,159	\$ 221,202	16	\$ 84,637	\$ 35,198,096
1-Dec-20	24	65	1.400	91	2.673	\$ 157,989	\$ 422,237	26	\$ 93,492	\$ 29,876,223
1-Dec-21	12	18	3.360	60	3.619	\$ 89,111	\$ 322,503	42	\$ 97,209	\$ 9,887,850
Total		4,758		4,904				146		\$ 380,948,260

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 @ 11/30/22
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	\$ 6,103,819	1.144	3,412	1.076	3,170	\$ 19,088,763	0.126	\$ 2,405,486	\$ 8,509,305
1-Dec-15	\$ 15,000,000	\$ 14,983,394	1.190	3,537	1.076	3,286	\$ 19,322,456	0.160	\$ 3,084,455	\$ 18,067,849
1-Dec-16	\$ 15,000,000	\$ 12,694,958	1.250	3,697	1.076	3,434	\$ 18,720,780	0.200	\$ 3,740,963	\$ 16,435,921
1-Dec-17	Various	\$ 8,450,932	1.383	3,758	1.023	3,674	\$ 19,541,498	0.277	\$ 5,416,202	\$ 13,867,134
1-Dec-18	\$ 20,000,000	\$ 6,617,685	1.562	3,905	1.023	3,818	\$ 19,297,446	0.360	\$ 6,943,756	\$ 13,561,441
1-Dec-19	Various	\$ 20,526,251	1.820	4,028	1.000	4,028	\$ 19,668,094	0.450	\$ 8,860,396	\$ 29,386,647
1-Dec-20	\$ 30,000,000	\$ 10,269,292	3.742	4,157	1.000	4,157	\$ 19,782,238	0.733	\$ 14,495,076	\$ 24,764,369
1-Dec-21	\$ 30,000,000	\$ 1,604,000	12.160	4,276.67	1.000	4,276.67	\$ 20,416,844	0.918	\$ 18,737,837	\$ 20,341,837
Total		\$ 81,250,332					\$ 191,860,711		\$ 66,640,685	\$ 144,934,503

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 @ 11/30/22
Paid Bornhuetter/Ferguson Method
Losses Limited to Retentions**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy 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	\$ 3,843,819	1.210	3,412	1.076	3,170	\$ 19,088,763	0.174	\$ 3,316,888	\$ 7,160,707
1-Dec-15	\$ 15,000,000	\$ 5,655,892	1.307	3,537	1.076	3,286	\$ 19,322,456	0.235	\$ 4,540,084	\$ 10,195,976
1-Dec-16	\$ 15,000,000	\$ 8,384,758	1.634	3,697	1.076	3,434	\$ 18,720,780	0.388	\$ 7,263,125	\$ 15,647,883
1-Dec-17	Various	\$ 2,613,882	2.078	3,758	1.023	3,674	\$ 19,541,498	0.519	\$ 10,135,727	\$ 12,749,609
1-Dec-18	\$ 20,000,000	\$ 2,484,576	3.353	3,905	1.023	3,818	\$ 19,297,446	0.702	\$ 13,542,523	\$ 16,027,099
1-Dec-19	Various	\$ 1,130,800	7.545	4,028	1.000	4,028	\$ 19,668,094	0.867	\$ 17,061,223	\$ 18,192,023
1-Dec-20	\$ 30,000,000	\$ 2,061,792	35.649	4,157	1.000	4,157	\$ 19,782,238	0.972	\$ 19,227,318	\$ 21,289,110
1-Dec-21	\$ 30,000,000	\$ -	374.312	4,276.67	1.000	4,276.67	\$ 20,416,844	0.997	\$ 20,362,299	\$ 20,362,299
Total		\$ 26,175,520					\$ 191,860,711		\$ 99,304,030	\$ 121,624,707

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 @ 11/30/22 Assumptions & Factors Used in the Actuarial Analysis

(1) Policy Period Inception	(2) Incurred CDF	(3) Paid CDF	(4) Claim CDF	(5) Trend Factors		(6) Sworn Officers
				Loss	Exposure	
Prior	1.008	1.016	1.001	1.985	1.000	-
1-Dec-01	1.012	1.025	1.001	1.922	1.000	-
1-Dec-02	1.016	1.029	1.001	1.837	1.000	-
1-Dec-03	1.021	1.034	1.001	1.764	1.000	-
1-Dec-04	1.026	1.039	1.001	1.685	1.000	-
1-Dec-05	1.031	1.045	1.001	1.618	1.000	-
1-Dec-06	1.036	1.050	1.001	1.540	1.000	-
1-Dec-07	1.042	1.055	1.001	1.479	1.000	-
1-Dec-08	1.047	1.060	1.003	1.429	1.000	-
1-Dec-09	1.052	1.066	1.005	1.471	1.000	-
1-Dec-10	1.057	1.071	1.007	1.422	1.000	-
1-Dec-11	1.068	1.082	1.009	1.384	1.000	-
1-Dec-12	1.079	1.103	1.011	1.344	1.000	6,022
1-Dec-13	1.100	1.136	1.014	1.313	1.000	6,022
1-Dec-14	1.144	1.210	1.017	1.253	1.000	6,022
1-Dec-15	1.190	1.307	1.020	1.209	1.000	5,881
1-Dec-16	1.250	1.634	1.028	1.157	1.000	5,451
1-Dec-17	1.383	2.078	1.041	1.138	1.000	5,319
1-Dec-18	1.562	3.353	1.056	1.095	1.000	5,054
1-Dec-19	1.820	7.545	1.104	1.062	1.000	4,883
1-Dec-20	3.742	35.649	1.400	1.029	1.000	4,759
1-Dec-21	12.160	374.312	3.360	1.000	1.000	4,774

Methods Included in Analysis : **Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity**
 Source Used for LDFs : **Company Exclusively**

LDF Annual Decay Rate (Incurred/F **0.75** **0.75**
 ELR for B/F Method : **4,400**
 Generalized Cape Cod Decay Factor **0.75**
 Loss Limitation : **Exhibit 10, Column (5)**
 Discount Rates : **4.13%**

Column (2) : Company Exclusively
Column (3) : Company Exclusively
Column (4) : Company Exclusively

Column (5) : Masterson Indices
Column (6) : Flat 0.00%
Column (7) : supplied by Cook County, Illinois



**Cook County, Illinois
Law Enforcement Liability**

**Law Enforcement Liability Experience @ 11/30/22
Limited Loss Calculations**

(1) Policy Period Inception	(2)		(3)	(4)	(5)	(6)				(7)	(8)	(9)	(10)		(11)	(12)
	Unlimited			Case O/S	Retention	Claims valued over the Retention				Incurred	Paid	Limited		Incurred	Paid	Case O/S
	Incurred	Paid				No.	Incurred	No.	Paid			Incurred	Paid			
Prior	\$ 59,721,734	\$ 13,721,734	\$ 46,000,000	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 59,721,734	\$ 13,721,734	\$ 46,000,000	-	-
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	\$ 1,421,302	\$ 1,371,302	\$ 50,000	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,421,302	\$ 1,371,302	\$ 50,000	-	-
1-Dec-05	\$ 5,158,785	\$ 2,658,785	\$ 2,500,000	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 5,158,785	\$ 2,658,785	\$ 2,500,000	-	-
1-Dec-06	\$ 2,403,373	\$ 2,403,373	\$ -	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 2,403,373	\$ 2,403,373	\$ -	-	-
1-Dec-07	\$ 13,296,710	\$ 12,296,710	\$ 1,000,000	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 13,296,710	\$ 12,296,710	\$ 1,000,000	-	-
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	\$ 8,331,958	\$ 3,329,458	\$ 5,002,500	\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 8,331,958	\$ 3,329,458	\$ 5,002,500	-	-
1-Dec-12	\$ 11,696,334	\$ 9,565,334	\$ 2,131,000	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 11,696,334	\$ 9,565,334	\$ 2,131,000	-	-
1-Dec-13	\$ 29,979,100	\$ 10,229,100	\$ 19,750,000	\$ 15,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 29,979,100	\$ 10,229,100	\$ 19,750,000	-	-
1-Dec-14	\$ 6,103,819	\$ 3,843,819	\$ 2,260,000	\$ 15,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 6,103,819	\$ 3,843,819	\$ 2,260,000	-	-
1-Dec-15	\$ 14,983,394	\$ 5,655,892	\$ 9,327,502	\$ 15,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 14,983,394	\$ 5,655,892	\$ 9,327,502	-	-
1-Dec-16	\$ 12,694,958	\$ 8,384,758	\$ 4,310,200	\$ 15,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 12,694,958	\$ 8,384,758	\$ 4,310,200	-	-
1-Dec-17	\$ 8,450,932	\$ 2,613,882	\$ 5,837,050	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 8,450,932	\$ 2,613,882	\$ 5,837,050	-	-
1-Dec-18	\$ 6,617,685	\$ 2,484,576	\$ 4,133,109	\$ 20,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 6,617,685	\$ 2,484,576	\$ 4,133,109	-	-
1-Dec-19	\$ 20,526,251	\$ 1,130,800	\$ 19,395,451	Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 20,526,251	\$ 1,130,800	\$ 19,395,451	-	-
1-Dec-20	\$ 10,269,292	\$ 2,061,792	\$ 8,207,500	\$ 30,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 10,269,292	\$ 2,061,792	\$ 8,207,500	-	-
1-Dec-21	\$ 1,604,000	\$ -	\$ 1,604,000	\$ 30,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,604,000	\$ -	\$ 1,604,000	-	-
	\$ 314,769,761	\$ 179,160,449	\$ 135,609,312		-	\$ -	-	\$ -	-	\$ -	-	\$ 314,769,761	\$ 179,160,449	\$ 135,609,312		

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 @ 11/30/22 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	1.017	400	1.000	400	6.63850%		400	400	6.63850%
1-Dec-15	5,881	348	1.020	355	1.000	355	6.03736%		355	355	6.03736%
1-Dec-16	5,451	307	1.028	316	1.000	316	5.79217%		316	316	5.79217%
1-Dec-17	5,319	255	1.041	265	1.000	265	4.98965%		265	265	4.98965%
1-Dec-18	5,054	167	1.056	176	1.000	176	3.49066%		176	176	3.49066%
1-Dec-19	4,883	153	1.104	169	1.000	169	3.45830%		169	169	3.45830%
1-Dec-20	4,759	65	1.400	91	1.000	91	1.91215%		91	91	1.91215%
1-Dec-21	4,774	18	3.360	60	1.000	60	1.26685%		60	60	1.26685%
Total	54,187	1,706		1,833		1,833	3.38222%		1,833	1,832	3.38222%

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 239
 Column (10) : Selected Trended Ultimate Claims
 Column (11) : Column (10) / Column (6)
 Column (12) : Column (10) / Column (2)

Selected Bornhuetter-Ferguson Claim Count for Policy Period 1-Dec-21						
<u>Weighted Averages excluding Policy Period 1-Dec-21</u>						
Last 5 Policies	24,789			762	3.07461%	762 3.07461%
Last 3 Policies	14,416			320	2.22216%	320 2.22216%
Last 2 Policies	9,533			151	1.58899%	151 1.58899%
Last 7 Policies	37,369			1,772	4.74255%	1,772 4.74255%
Selected Bornhuetter-Ferguson Frequency Rate					5.00000%	
Sworn Officers for 1-Dec-21					4,774	
Apriori Expected Count for 1-Dec-21					239	



**Cook County, Illinois
Law Enforcement Liability
Law Enforcement Liability Experience @ 11/30/22
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	Sworn Officers	Exposure Trend Factor	Trended Sworn Officers	Trended Loss Rate
1-Dec-12	11,696,334	12,700,000	1.383	1.076	18,905,551	6,022	1.000	6,022	3,139
1-Dec-13	29,979,100	33,000,000	1.351	1.076	47,982,768	6,022	1.000	6,022	7,968
1-Dec-14	6,103,819	7,600,000	1.289	1.076	10,549,436	6,022	1.000	6,022	1,752
1-Dec-15	14,983,394	17,600,000	1.244	1.076	23,569,708	5,881	1.000	5,881	4,008
1-Dec-16	12,694,958	16,000,000	1.190	1.076	20,498,633	5,451	1.000	5,451	3,761
1-Dec-17	8,450,932	14,000,000	1.171	1.023	16,766,903	5,319	1.000	5,319	3,152
1-Dec-18	6,617,685	14,000,000	1.127	1.023	16,133,037	5,054	1.000	5,054	3,192
1-Dec-19	20,526,251	33,000,000	1.092	1.000	36,048,822	4,883	1.000	4,883	7,383
1-Dec-20	10,269,292	25,000,000	1.059	1.000	26,462,628	4,759	1.000	4,759	5,561
1-Dec-21	1,604,000	21,000,000	1.029	1.000	21,605,572	4,774	1.000	4,774	4,526
All Year Weighted Average					238,523,058			54,187	4,402
Latest 5-Year Weighted Average					117,016,962			24,789	4,721
Latest 3-Year Weighted Average					84,117,022			14,416	5,835
SELECTED									4,400

Column (1) : from Exhibit 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)
Policy Period Inception	Retention	Sworn Officers	Claim Count	Loss Rate	Loss Amount	
1-Dec-22	30,000,000	4,609	230	4,400	20,300,000	
1-Dec-23	30,000,000	4,609	230	4,516	20,800,000	
1-Dec-24	30,000,000	4,609	230	4,657	21,500,000	

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



**Cook County, Illinois
Law Enforcement Liability
Projected Losses Paid 12/1/2022 to 11/30/2023**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/22	Percent Losses Paid	Months of Development 11/30/23	Percent Losses Paid	Estimated Outstanding Losses 11/30/22	Projected Losses Paid	Estimated Outstanding Losses 11/30/23	Discount Factor	Discounted Outstanding Losses 11/30/23
Prior	264	98.5%	276	98.9%	\$ 56,178,266	\$ 8,426,740	\$ 47,751,526	0.875	\$ 41,799,676
1-Dec-01	252	97.6%	264	98.5%	\$ -	\$ -	\$ -	0.875	\$ -
1-Dec-02	240	97.2%	252	97.6%	\$ 4,075,599	\$ 560,220	\$ 3,515,379	0.893	\$ 3,137,903
1-Dec-03	228	96.7%	240	97.2%	\$ -	\$ -	\$ -	0.874	\$ -
1-Dec-04	216	96.2%	228	96.7%	\$ 58,698	\$ 7,446	\$ 51,252	0.860	\$ 44,074
1-Dec-05	204	95.7%	216	96.2%	\$ 2,651,215	\$ 297,129	\$ 2,354,086	0.845	\$ 1,990,132
1-Dec-06	192	95.3%	204	95.7%	\$ -	\$ -	\$ -	0.831	\$ -
1-Dec-07	180	94.8%	192	95.3%	\$ 1,268,290	\$ 115,119	\$ 1,153,171	0.816	\$ 941,036
1-Dec-08	168	94.3%	180	94.8%	\$ -	\$ -	\$ -	0.801	\$ -
1-Dec-09	156	93.8%	168	94.3%	\$ 8,345	\$ 635	\$ 7,709	0.787	\$ 6,068
1-Dec-10	144	93.4%	156	93.8%	\$ 231,975	\$ 16,338	\$ 215,637	0.773	\$ 166,680
1-Dec-11	132	92.4%	144	93.4%	\$ 6,670,542	\$ 816,452	\$ 5,854,089	0.759	\$ 4,443,549
1-Dec-12	120	90.6%	132	92.4%	\$ 3,134,666	\$ 470,200	\$ 2,664,466	0.760	\$ 2,024,119
1-Dec-13	108	88.0%	120	90.6%	\$ 22,770,900	\$ 3,415,635	\$ 19,355,265	0.778	\$ 15,058,641
1-Dec-14	96	82.6%	108	88.0%	\$ 3,756,181	\$ 563,427	\$ 3,192,754	0.798	\$ 2,548,932
1-Dec-15	84	76.5%	96	82.6%	\$ 11,944,108	\$ 1,791,616	\$ 10,152,492	0.833	\$ 8,453,043
1-Dec-16	72	61.2%	84	76.5%	\$ 7,615,242	\$ 1,142,286	\$ 6,472,956	0.847	\$ 5,479,821
1-Dec-17	60	48.1%	72	61.2%	\$ 11,386,118	\$ 1,707,918	\$ 9,678,200	0.879	\$ 8,505,651
1-Dec-18	48	29.8%	60	48.1%	\$ 11,515,424	\$ 1,727,314	\$ 9,788,110	0.878	\$ 8,596,470
1-Dec-19	36	13.3%	48	29.8%	\$ 31,869,200	\$ 4,780,380	\$ 27,088,820	0.879	\$ 23,812,409
1-Dec-20	24	2.8%	36	13.3%	\$ 22,938,208	\$ 2,466,027	\$ 20,472,181	0.870	\$ 17,813,224
1-Dec-21	12	0.3%	24	2.8%	\$ 21,000,000	\$ 534,405	\$ 20,465,595	0.851	\$ 17,418,837
1-Dec-22	0	0.0%	12	0.3%	\$ 20,300,000	\$ 54,233	\$ 20,245,767	0.822	\$ 16,632,064
Total					\$ 239,372,975	\$ 28,893,521	\$ 210,479,454		\$ 178,872,330

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 4.13% 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 12/1/2023 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	98.9%	288	99.1%	\$ 42,295,091	\$ 6,344,264	\$ 35,950,827	0.876	\$ 31,478,426
1-Dec-01	264	98.5%	276	98.9%	\$ -	\$ -	\$ -	0.875	\$ -
1-Dec-02	252	97.6%	264	98.5%	\$ 3,515,379	\$ 527,307	\$ 2,988,072	0.875	\$ 2,614,810
1-Dec-03	240	97.2%	252	97.6%	\$ -	\$ -	\$ -	0.893	\$ -
1-Dec-04	228	96.7%	240	97.2%	\$ 51,252	\$ 7,483	\$ 43,769	0.874	\$ 38,258
1-Dec-05	216	96.2%	228	96.7%	\$ 2,354,086	\$ 298,615	\$ 2,055,471	0.860	\$ 1,767,599
1-Dec-06	204	95.7%	216	96.2%	\$ -	\$ -	\$ -	0.845	\$ -
1-Dec-07	192	95.3%	204	95.7%	\$ 1,153,171	\$ 115,695	\$ 1,037,477	0.831	\$ 861,839
1-Dec-08	180	94.8%	192	95.3%	\$ -	\$ -	\$ -	0.816	\$ -
1-Dec-09	168	94.3%	180	94.8%	\$ 7,709	\$ 639	\$ 7,071	0.801	\$ 5,667
1-Dec-10	156	93.8%	168	94.3%	\$ 215,637	\$ 16,420	\$ 199,217	0.787	\$ 156,808
1-Dec-11	144	93.4%	156	93.8%	\$ 5,854,089	\$ 412,308	\$ 5,441,781	0.773	\$ 4,206,324
1-Dec-12	132	92.4%	144	93.4%	\$ 2,527,969	\$ 309,415	\$ 2,218,554	0.759	\$ 1,683,995
1-Dec-13	120	90.6%	132	92.4%	\$ 17,763,946	\$ 2,664,592	\$ 15,099,354	0.760	\$ 11,470,548
1-Dec-14	108	88.0%	120	90.6%	\$ 2,595,234	\$ 389,285	\$ 2,205,949	0.778	\$ 1,716,256
1-Dec-15	96	82.6%	108	88.0%	\$ 8,832,937	\$ 1,324,941	\$ 7,507,996	0.798	\$ 5,994,002
1-Dec-16	84	76.5%	96	82.6%	\$ 4,611,962	\$ 691,794	\$ 3,920,167	0.833	\$ 3,263,962
1-Dec-17	72	61.2%	84	76.5%	\$ 8,516,835	\$ 1,277,525	\$ 7,239,310	0.847	\$ 6,128,595
1-Dec-18	60	48.1%	72	61.2%	\$ 8,510,934	\$ 1,276,640	\$ 7,234,294	0.879	\$ 6,357,833
1-Dec-19	48	29.8%	60	48.1%	\$ 25,782,381	\$ 3,867,357	\$ 21,915,024	0.878	\$ 19,247,009
1-Dec-20	36	13.3%	48	29.8%	\$ 20,472,181	\$ 3,070,827	\$ 17,401,354	0.879	\$ 15,296,648
1-Dec-21	24	2.8%	36	13.3%	\$ 20,465,595	\$ 2,200,203	\$ 18,265,392	0.870	\$ 15,893,056
1-Dec-22	12	0.3%	24	2.8%	\$ 20,245,767	\$ 515,212	\$ 19,730,556	0.851	\$ 16,793,225
1-Dec-23	0	0.0%	12	0.3%	\$ 20,800,000	\$ 55,569	\$ 20,744,431	0.822	\$ 17,041,721
Total					\$ 216,572,154	\$ 25,366,089	\$ 191,206,064		\$ 162,016,581

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 4.13% 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	99.1%	300	99.4%	\$ 31,812,712	\$ 4,771,907	\$ 27,040,805	0.876	\$ 23,682,806
1-Dec-01	276	98.9%	288	99.1%	\$ -	\$ -	\$ -	0.876	\$ -
1-Dec-02	264	98.5%	276	98.9%	\$ 2,199,925	\$ 329,989	\$ 1,869,936	0.875	\$ 1,636,863
1-Dec-03	252	97.6%	264	98.5%	\$ -	\$ -	\$ -	0.875	\$ -
1-Dec-04	240	97.2%	252	97.6%	\$ 43,769	\$ 6,016	\$ 37,753	0.893	\$ 33,699
1-Dec-05	228	96.7%	240	97.2%	\$ 2,055,471	\$ 300,108	\$ 1,755,362	0.874	\$ 1,534,352
1-Dec-06	216	96.2%	228	96.7%	\$ -	\$ -	\$ -	0.860	\$ -
1-Dec-07	204	95.7%	216	96.2%	\$ 1,037,477	\$ 116,273	\$ 921,203	0.845	\$ 778,781
1-Dec-08	192	95.3%	204	95.7%	\$ -	\$ -	\$ -	0.831	\$ -
1-Dec-09	180	94.8%	192	95.3%	\$ 7,071	\$ 642	\$ 6,429	0.816	\$ 5,246
1-Dec-10	168	94.3%	180	94.8%	\$ 199,217	\$ 16,502	\$ 182,715	0.801	\$ 146,445
1-Dec-11	156	93.8%	168	94.3%	\$ 5,441,781	\$ 414,370	\$ 5,027,411	0.787	\$ 3,957,197
1-Dec-12	144	93.4%	156	93.8%	\$ 2,218,554	\$ 156,255	\$ 2,062,299	0.773	\$ 1,594,092
1-Dec-13	132	92.4%	144	93.4%	\$ 14,325,837	\$ 1,753,435	\$ 12,572,401	0.759	\$ 9,543,087
1-Dec-14	120	90.6%	132	92.4%	\$ 2,024,584	\$ 303,688	\$ 1,720,896	0.760	\$ 1,307,316
1-Dec-15	108	88.0%	120	90.6%	\$ 6,102,884	\$ 915,433	\$ 5,187,451	0.778	\$ 4,035,903
1-Dec-16	96	82.6%	108	88.0%	\$ 3,410,649	\$ 511,597	\$ 2,899,052	0.798	\$ 2,314,456
1-Dec-17	84	76.5%	96	82.6%	\$ 5,157,986	\$ 773,698	\$ 4,384,289	0.833	\$ 3,650,393
1-Dec-18	72	61.2%	84	76.5%	\$ 6,366,193	\$ 954,929	\$ 5,411,264	0.847	\$ 4,581,023
1-Dec-19	60	48.1%	72	61.2%	\$ 19,055,498	\$ 2,858,325	\$ 16,197,173	0.879	\$ 14,234,828
1-Dec-20	48	29.8%	60	48.1%	\$ 16,562,121	\$ 2,484,318	\$ 14,077,803	0.878	\$ 12,363,920
1-Dec-21	36	13.3%	48	29.8%	\$ 18,265,392	\$ 2,739,809	\$ 15,525,583	0.879	\$ 13,647,753
1-Dec-22	24	2.8%	36	13.3%	\$ 19,730,556	\$ 2,121,181	\$ 17,609,375	0.870	\$ 15,322,243
1-Dec-23	12	0.3%	24	2.8%	\$ 20,744,431	\$ 527,902	\$ 20,216,530	0.851	\$ 17,206,851
1-Dec-24	0	0.0%	12	0.3%	\$ 21,500,000	\$ 57,439	\$ 21,442,561	0.822	\$ 17,615,240
Total					\$ 198,262,106	\$ 22,113,814	\$ 176,148,292		\$ 149,192,493

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 4.13% Interest Rate
 Column (10): Column (8) x Column (9)
 * - Limited to a maximum of 15% per actuarial judgement



Large Claims Listing

**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
Prior	5/28/1988	1,000,000	-	1,000,000
Prior	8/22/1990	1,000,000	-	1,000,000
Prior	6/9/1993	4,850,000	4,850,000	-
Prior	6/28/1993	4,850,000	4,850,000	-
Prior	4/1/1994	3,000,000	-	3,000,000
Prior	7/18/1997	10,000,000	-	10,000,000
Prior	1/1/1998	1,000,000	-	1,000,000
Prior	1/1/1998	1,000,000	-	1,000,000
Prior	1/1/1998	1,000,000	-	1,000,000
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	2,000,000	-	2,000,000
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	1,000,000	-	1,000,000
12/1/2009	4/27/2010	3,214,250	3,214,250	-
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	-
12/1/2010	11/16/2011	7,990,000	7,990,000	-
12/1/2011	10/2/2012	5,000,000	-	5,000,000
12/1/2012	9/1/2013	3,750,000	3,750,000	-
12/1/2012	9/19/2013	1,500,000	1,500,000	-
12/1/2013	12/23/2013	15,000,000	-	15,000,000



Large Claims Listing

**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
12/1/2013	1/7/2014	3,500,000	-	3,500,000
12/1/2013	10/12/2014	4,750,000	4,750,000	-
12/1/2014	6/22/2015	1,000,000	-	1,000,000
12/1/2014	11/15/2015	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	8/10/2017	1,000,000	-	1,000,000
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	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	3/20/2020	5,000,000	-	5,000,000
12/1/2019	6/4/2020	1,500,000	-	1,500,000
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	9/16/2021	3,000,000	-	3,000,000
12/1/2020	10/21/2021	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
Prior	4/1/1996	3,000,000	-	3,000,000

Cook County, Illinois
Law Enforcement Liability
Occurrence
Indemnity and Expense
Incurred Development Triangle
Data Limited to Retentions (000s)
As of 11/30/2022

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	
Prior																				16,697	38,697	39,622	56,822
12/1/2001															0	0	0	0	0	0	0	0	
12/1/2002														1,024	1,024	1,024	1,024	5,024	5,024	5,024			
12/1/2003													51,374	51,377	51,374	51,374	51,374	51,374	54,222	54,222			
12/1/2004												2,371	1,871	1,373	1,371	1,421	1,421	1,421					
12/1/2005											2,599	2,699	3,599	4,099	4,159	5,159	5,159						
12/1/2006										2,360	2,378	2,403	2,403	2,403	2,403	2,403							
12/1/2007									11,734	12,234	12,297	13,297	13,297	13,297	13,297								
12/1/2008								4,397	4,387	4,387	4,393	4,393	4,393	4,393									
12/1/2009						5,446	5,606	5,726	6,603	6,603	6,603	6,603											
12/1/2010						41,667	14,926	27,523	31,243	31,243	31,268												
12/1/2011					3,127	3,377	3,339	3,332	4,176	8,332	8,332												
12/1/2012				10,078	10,232	10,097	10,509	11,559	11,696	11,696													
12/1/2013			11,995	10,353	15,377	22,768	27,234	27,485	29,979														
12/1/2014		3,011	3,614	6,837	9,740	6,044	6,194	6,104															
12/1/2015	842	2,642	10,408	13,413	12,196	13,808	14,983																
12/1/2016	3,946	10,334	17,927	18,658	12,154	12,695																	
12/1/2017	1,222	8,240	8,321	8,294	8,451																		
12/1/2018	2,214	6,074	19,637	6,618																			
12/1/2019	3,052	18,595	20,526																				
12/1/2020	2,169	10,269																					
12/1/2021	1,604																						

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-Ult	
Prior																				2,318	1,024	1,434	
12/1/2001																							
12/1/2002														1,000	1,000	1,000	4,905	1,000	1,000				
12/1/2003													1,000	1,000	1,000	1,000	1,055	1,000					
12/1/2004											0,789	0,734	0,999	1,036	1,000	1,000							
12/1/2005										1,008	1,011	1,000	1,000	1,000	1,000	1,000							
12/1/2006									1,043	1,005	1,081	1,000	1,000	1,000									
12/1/2007								0,998	1,000	1,001	1,000	1,000	1,000										
12/1/2008							1,030	1,021	1,153	1,000	1,000	1,000											
12/1/2009						0,358	1,244	1,135	1,000	1,001	1,000												
12/1/2010					1,080	0,989	0,989	1,253	1,995	1,000													
12/1/2011				1,015	0,987	1,041	1,100	1,012	1,000														
12/1/2012			0,863	1,485	1,481	1,196	1,009	1,091															
12/1/2013		1,200	1,892	1,425	0,620	1,025	0,986																
12/1/2014	3,138	3,939	1,289	0,909	1,132	1,085																	
12/1/2015	2,619	1,735	1,041	0,651	1,045																		
12/1/2016	6,745	1,010	0,997	1,019																			
12/1/2017	2,743	3,233	0,337																				
12/1/2018	6,093	1,104																					
12/1/2019	4,735																						
12/1/2020																							
12/1/2021																							

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-Ult
All Year Average	4.345	2.037	1.070	1.084	1.057	0.949	1.161	1.085	1.198	1.002	1.022	1.020	0.979	1.002	1.055	1.000	2.320	1.000	1.659	1.024	1.434	
3 Yr Average	4.524	1.782	0.792	0.860	0.932	1.102	1.032	1.119	1.332	1.000	1.000	1.000	1.000	1.005	1.092	1.000	2.320	NA	NA	NA	NA	
5 Yr Average	4.587	2.204	1.111	1.098	1.053	1.067	1.187	1.103	1.230	1.001	1.018	1.067	0.975	1.003	1.055	NA	NA	NA	NA	NA	NA	
3 Yr Wtd Average	4.699	1.473	0.732	0.813	0.955	1.136	1.028	1.082	1.088	1.001	1.000	1.000	1.000	1.003	1.132	1.000	1.127	1.000	2.013	NA	NA	
5 Yr Wtd Average	4.246	1.674	0.898	1.006	1.096	1.110	1.222	1.097	1.088	1.001	1.018	1.031	1.001	1.017	1.000	NA	NA	NA	NA	NA	NA	
Avg X Hi-Lo (3yr X 2)	4.735	1.104	0.997	0.909	1.045	1.085	1.009	1.091	1.000	1.000	1.000	1.000	1.000	1.000	1.036	1.000	1.055	NA	NA	NA	NA	
Avg X Hi-Lo (5yr X 2)	4.524	2.024	1.109	1.118	1.055	1.050	1.036	1.082	1.051	1.001	1.004	1.000	1.000	1.000	1.012	NA	NA	NA	NA	NA	NA	
Prior	2.800	2.056	1.165	1.141	1.107	1.040	1.040	1.040	1.020	1.010	1.010	1.010	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.004	1.002	1.003
Initial Selected	3.250	2.056	1.165	1.129	1.107	1.050	1.040	1.040	1.020	1.010	1.010	1.010	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.004	1.004	1.008

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-Ult
Inverse Power Curve Fit																						1.02290
Exponential Curve Fit																						1.00792
Weibull Curve Fit																						1.01015
Manual Entry																						
Selected Tail Method:	Exponential																					
Final Link Ratio	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	1.008
Final CDF	12.160	3.742	1.820	1.562	1.383	1.250	1.190	1.144	1.100	1.079	1.068	1.057	1.052	1.047	1.042	1.036	1.031	1.026	1.021	1.016	1.012	1.008

Industry Factor Source: AM Bests GL Occ

Cook County, Illinois
 Law Enforcement Liability
 Occurrence
 Indemnity and Expense
 Paid Development Triangle
 Data Limited to Retentions (000s)
 As of 11/30/2022

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	
Prior																				1,697	1,697	2,522	13,722
12/1/2001															0	0	0	0	0	0	0	0	0
12/1/2002														51,374	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	51,374	54,222	54,222	
12/1/2004													1,371	1,371	1,371	1,371	1,371	1,371	1,371	1,371			
12/1/2005													2,599	2,599	2,599	2,599	2,659	2,659	2,659	2,659			
12/1/2006													2,335	2,338	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			
12/1/2008													4,187	4,387	4,387	4,393	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	31,168	31,168	31,168			
12/1/2011													3,159	3,259	3,329	3,329	3,329	3,329	3,329	3,329			
12/1/2012													3,259	7,292	9,539	9,558	9,558	9,558	9,558	9,558			
12/1/2013													7,864	8,761	9,263	9,972	9,975	10,229	10,229				
12/1/2014													1,507	1,957	1,926	2,884	2,894	3,544	3,844				
12/1/2015													340	1,145	1,623	2,848	4,299	4,339	5,656				
12/1/2016													1	373	1,227	3,589	4,299	4,339	8,385				
12/1/2017													3,272	3,662	4,602	4,800	8,081	8,385					
12/1/2018													12	819	1,078	1,419	2,614						
12/1/2019													11	68	254	2,485							
12/1/2020													4	44	1,131								
12/1/2021													0	2,062									

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-Ult	
Prior																					1,000	1,486	5,441
12/1/2001																							
12/1/2002																							
12/1/2003																							
12/1/2004																							
12/1/2005																							
12/1/2006																							
12/1/2007																							
12/1/2008																							
12/1/2009																							
12/1/2010																							
12/1/2011																							
12/1/2012																							
12/1/2013																							
12/1/2014																							
12/1/2015																							
12/1/2016																							
12/1/2017																							
12/1/2018																							
12/1/2019																							
12/1/2020																							
12/1/2021																							

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-Ult
All Year Average	166.659	6.404	3.615	1.543	1.333	1.779	1.020	1.574	1.029	1.138	1.005	1.000	1.000	1.004	1.000	1.000	1.018	1.000	1.000	1.486	5.441	
3 Yr Average	28.644	10.169	4.044	1.575	1.021	1.202	1.029	1.009	1.000	1.000	1.000	1.000	1.000	1.008	1.000	1.000	1.018	NA	NA	NA	NA	NA
5 Yr Average	166.659	7.011	3.295	1.519	1.272	1.189	1.022	1.679	1.035	1.166	1.006	1.000	1.000	1.005	1.000	NA	NA	NA	NA	NA	NA	NA
3 Yr Wtd Average	154.187	2.646	1.467	1.529	1.026	1.162	1.014	1.011	1.000	1.001	1.000	1.000	1.000	1.003	1.000	1.000	1.053	1.000	1.000	NA	NA	NA
5 Yr Wtd Average	2.017	1.670	1.675	1.379	1.181	1.186	1.012	1.687	1.018	1.107	1.001	1.000	1.000	1.001	1.000	1.000	NA	NA	NA	NA	NA	NA
Avg X Hi-Lo (3yr X 2)	12.700	3.750	1.316	1.684	1.016	1.225	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	NA	NA	NA	NA	NA
Avg X Hi-Lo (5yr X 2)	28.644	2.786	1.886	1.545	1.037	1.202	1.008	1.018	1.000	1.001	1.000	1.000	1.000	1.000	1.000	NA	NA	NA	NA	NA	NA	NA
Prior	10.500	4.725	2.200	1.600	1.277	1.250	1.080	1.070	1.030	1.020	1.010	1.005	1.005	1.005	1.003	1.003	1.003	1.003	1.002	1.002	1.009	1.016
Initial Selected	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	1.005	1.004	1.009	1.016

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-Ult
Inverse Power Curve Fit																						1.01518
Exponential Curve Fit																						1.00434
Weibull Curve Fit																						1.00152
Manual Entry																						
Selected Tail Method:	Manual Entry																					Tail
Final Link Ratio	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	1.005	1.004	1.009	1.016
Final CDF	374.312	35.649	7.545	3.353	2.078	1.634	1.307	1.210	1.136	1.103	1.082	1.071	1.066	1.060	1.055	1.050	1.045	1.039	1.034	1.029	1.025	1.016

Industry Factor Source: AM Bests GL Occ

Cook County, Illinois
 Law Enforcement Liability
 Occurrence
 Indemnity and Expense
 Reported Claim Count Triangle
 Data Limited to Retentions
 As of 11/30/2022

		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	
Prior																				103	105	106	108
12/1/2001																1	1	1	1				
12/1/2002															97	97	97	97	98				
12/1/2003														104	105	105	105	105	105	105			
12/1/2004													102	102	103	103	104	104	104				
12/1/2005												136	137	137	138	140	140	140					
12/1/2006											183	183	183	183	183	183	183						
12/1/2007									191	191	191	192	192	192	192	192							
12/1/2008								241	241	241	242	242	242	242	243								
12/1/2009								226	228	228	228	228	228	228									
12/1/2010							207	208	210	210	210	210	210	210									
12/1/2011						365	369	369	369	370	370	370											
12/1/2012				428	438	441	443	445	445	445	445												
12/1/2013				582	616	622	624	625	625	625													
12/1/2014		285	372	382	386	390	390	393															
12/1/2015	98	251	330	343	346	346	348																
12/1/2016	100	227	288	303	304	307																	
12/1/2017	78	205	244	253	255																		
12/1/2018	58	131	160	167																			
12/1/2019	59	116	153																				
12/1/2020	14	65																					
12/1/2021	18																						

		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-Ult	
Prior																				1.019	1.010	1.019	
12/1/2001															1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2002															1.000	1.000	1.000	1.010	1.000	1.000	1.000	1.000	
12/1/2003														1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2004												1.000	1.010	1.000	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2005										1.000	1.007	1.000	1.007	1.014	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2006									1.000	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	
12/1/2007									1.000	1.000	1.004	1.000	1.000	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2008									1.009	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
12/1/2009									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	
12/1/2010									1.011	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	
12/1/2011									1.011	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	
12/1/2012					1.023	1.007	1.005	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	
12/1/2013				1.058	1.010	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	
12/1/2014		1.305	1.027	1.010	1.010	1.010	1.008	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	
12/1/2015	2.561	1.315	1.039	1.009	1.000	1.006																	
12/1/2016	2.270	1.269	1.052	1.003	1.010																		
12/1/2017	2.628	1.190	1.037	1.008																			
12/1/2018	2.259	1.221	1.044																				
12/1/2019	1.966	1.319																					
12/1/2020	4.643																						
12/1/2021																							

		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-Ult
All Year Average	2.721	1.270	1.043	1.011	1.007	1.003	1.005	1.000	1.000	1.001	1.002	1.000	1.005	1.002	1.002	1.000	1.003	1.000	1.006	1.005	1.019	
3 Yr Average	2.956	1.244	1.044	1.007	1.007	1.002	1.004	1.001	1.000	1.000	1.000	1.000	1.001	1.005	1.003	1.000	1.003	1.000	1.006	NA	NA	
5 Yr Average	2.753	1.263	1.040	1.008	1.006	1.002	1.004	1.001	1.000	1.001	1.001	1.000	1.004	1.003	1.002	1.000	NA	NA	NA	NA	NA	
3 Yr Wtd Average	2.382	1.232	1.045	1.007	1.007	1.002	1.003	1.001	1.000	1.000	1.000	1.000	1.002	1.004	1.002	1.000	1.003	1.000	1.010	NA	NA	
5 Yr Wtd Average	2.408	1.263	1.039	1.008	1.006	1.002	1.003	1.001	1.000	1.001	1.001	1.000	1.004	1.003	1.002	1.000	NA	NA	NA	NA	NA	
Avg X Hi-Lo (3yr X 2)	2.259	1.221	1.044	1.008	1.010	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	1.000	1.000	1.000
Avg X Hi-Lo (5yr X 2)	2.386	1.268	1.040	1.009	1.007	1.002	1.004	1.000	1.000	1.000	1.000	1.000	1.004	1.000	1.000	1.000	NA	NA	NA	NA	NA	1.001
Prior	2.400	1.268	1.050	1.018	1.012	1.008	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.001
Initial Selected	2.400	1.268	1.045	1.015	1.012	1.008	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	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	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-252	252-264	264-Ult	
Inverse Power Curve Fit																							1.00000
Exponential Curve Fit																							1.00000
Weibull Curve Fit																							1.00000
Manual Entry																							
Selected Tail Method:	Manual Entry																						
Final Link Ratio	2.400	1.268	1.045	1.015	1.012	1.008	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.001	Tail
Final CDF	3.360	1.400	1.104	1.056	1.041	1.028	1.020	1.017	1.014	1.011	1.009	1.007	1.005	1.003	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001

Industry Factor Source: AM Bests GL Occ



**Cook County, Illinois
Other Liability Experience @ 11/30/22
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	1,593	-	96,113,455	96,113,455	-	-	-	96,113,455	
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	2	11,043,636	10,843,636	200,000	66,364	266,364	11,110,000	9.34
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	96,840	3,718,840	10,690,000	8.60
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	84	4	8,013,304	7,558,703	454,601	186,696	641,297	8,200,000	6.34
1-Dec-11	1,331,769	10,000,000	54	4	2,765,791	2,729,791	36,000	234,209	270,209	3,000,000	2.25
1-Dec-12	1,285,791	Various	69	8	5,929,378	1,249,378	4,680,000	270,622	4,950,622	6,200,000	4.82
1-Dec-13	1,362,902	15,000,000	54	7	6,178,531	951,531	5,227,000	521,469	5,748,469	6,700,000	4.92
1-Dec-14	1,509,150	15,000,000	67	12	17,329,499	16,319,499	1,010,000	1,670,501	2,680,501	19,000,000	12.59
1-Dec-15	1,699,156	15,000,000	68	28	10,131,879	2,091,879	8,040,000	1,838,121	9,878,121	11,970,000	7.04
1-Dec-16	1,753,287	15,000,000	68	35	6,856,747	287,747	6,569,000	1,943,253	8,512,253	8,800,000	5.02
1-Dec-17	1,675,248	Various	50	32	11,681,980	6,325,980	5,356,000	2,818,021	8,174,021	14,500,000	8.66
1-Dec-18	1,719,805	20,000,000	49	23	3,146,386	1,477,286	1,669,100	4,853,614	6,522,714	8,000,000	4.65
1-Dec-19	1,547,010	Various	44	30	6,065,866	329,766	5,736,100	4,934,134	10,670,234	11,000,000	7.11
1-Dec-20	1,881,172	30,000,000	23	15	1,276,627	51,627	1,225,000	11,723,373	12,948,373	13,000,000	6.91
1-Dec-21	1,979,429	30,000,000	12	8	1,092,500	850,000	242,500	14,707,500	14,950,000	15,800,000	7.98
Total	29,971,293		3,116	212	244,724,162	200,556,861	44,167,301	45,952,849	90,120,150	290,677,012	6.49

Full Policy Period Projections

1-Dec-22	1,944,279	30,000,000								16,400,000	8.41
1-Dec-23	1,962,100	30,000,000								16,700,000	8.50



**Cook County, Illinois
Other Liability**

**Other Liability Experience @ 11/30/22
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	\$ 96,345,178	\$ 96,371,372	\$ 96,113,455	N/A	N/A	N/A	N/A	\$ 96,345,178	\$ 96,113,455
1-Dec-01	\$ 12,191,275	\$ 12,200,643	\$ 12,153,693	\$ 12,168,735	\$ 12,172,470	\$ 12,178,266	\$ 12,183,472	\$ 12,191,275	\$ 12,153,693
1-Dec-02	\$ 5,241,762	\$ 5,251,031	\$ 5,220,383	\$ 5,241,570	\$ 5,250,701	\$ 5,252,895	\$ 5,265,267	\$ 5,241,762	\$ 5,220,383
1-Dec-03	\$ 17,055,084	\$ 17,085,241	\$ 16,951,620	\$ 16,987,838	\$ 16,998,312	\$ 17,006,508	\$ 17,019,372	\$ 17,055,084	\$ 16,951,620
1-Dec-04	\$ 11,133,262	\$ 10,961,898	\$ 11,631,657	\$ 11,092,999	\$ 10,909,789	\$ 11,110,832	\$ 10,928,299	\$ 11,133,262	\$ 11,110,000
1-Dec-05	\$ 4,064,275	\$ 4,079,593	\$ 4,023,510	\$ 4,095,894	\$ 4,122,717	\$ 4,109,232	\$ 4,130,841	\$ 4,064,275	\$ 4,023,510
1-Dec-06	\$ 10,721,890	\$ 7,089,535	\$ 19,863,697	\$ 10,675,682	\$ 7,085,924	\$ 10,682,919	\$ 7,080,768	\$ 10,721,890	\$ 10,690,000
1-Dec-07	\$ 1,306,210	\$ 1,313,751	\$ 1,287,951	\$ 1,384,279	\$ 1,423,283	\$ 1,379,739	\$ 1,399,885	\$ 1,306,210	\$ 1,287,951
1-Dec-08	\$ 5,143,466	\$ 5,177,114	\$ 5,056,400	\$ 5,185,299	\$ 5,233,952	\$ 5,171,059	\$ 5,191,217	\$ 5,143,466	\$ 5,056,400
1-Dec-09	\$ 1,848,597	\$ 1,761,501	\$ 2,051,010	\$ 1,955,633	\$ 1,915,750	\$ 1,933,687	\$ 1,854,540	\$ 1,848,597	\$ 1,900,000
1-Dec-10	\$ 8,232,969	\$ 7,816,741	\$ 9,929,541	\$ 8,211,890	\$ 7,804,401	\$ 8,183,797	\$ 7,726,276	\$ 8,232,969	\$ 8,200,000
1-Dec-11	\$ 2,861,500	\$ 2,851,210	\$ 2,897,558	\$ 3,026,707	\$ 3,061,991	\$ 2,986,986	\$ 2,938,916	\$ 2,861,500	\$ 3,000,000
1-Dec-12	\$ 6,177,503	\$ 1,331,048	\$ 14,799,523	\$ 6,257,409	\$ 1,750,482	\$ 6,218,253	\$ 1,550,117	\$ 6,177,503	\$ 6,200,000
1-Dec-13	\$ 6,609,300	\$ 1,044,143	\$ 20,662,570	\$ 6,750,449	\$ 1,729,842	\$ 6,707,700	\$ 1,426,261	\$ 6,609,300	\$ 6,700,000
1-Dec-14	\$ 19,483,010	\$ 18,892,806	\$ 21,677,981	\$ 18,443,377	\$ 17,692,092	\$ 18,429,164	\$ 17,239,371	\$ 19,483,010	\$ 19,000,000
1-Dec-15	\$ 11,980,305	\$ 2,591,254	\$ 42,413,528	\$ 11,929,894	\$ 4,337,703	\$ 11,856,696	\$ 3,444,420	\$ 11,954,945	\$ 11,970,000
1-Dec-16	\$ 8,345,205	\$ 438,970	\$ 13,909,152	\$ 9,074,610	\$ 4,571,450	\$ 8,899,444	\$ 2,729,679	\$ 8,402,114	\$ 8,800,000
1-Dec-17	\$ 15,281,469	\$ 13,379,776	\$ 16,007,624	\$ 14,576,317	\$ 12,804,077	\$ 14,306,447	\$ 10,193,376	\$ 15,080,068	\$ 14,500,000
1-Dec-18	\$ 4,715,540	\$ 4,999,257	\$ 4,640,491	\$ 7,465,783	\$ 10,621,983	\$ 6,811,926	\$ 6,800,616	\$ 4,853,673	\$ 8,000,000
1-Dec-19	\$ 10,545,575	\$ 2,455,105	\$ 11,592,615	\$ 11,283,729	\$ 10,963,143	\$ 10,406,544	\$ 6,457,178	\$ 10,448,528	\$ 11,000,000
1-Dec-20	\$ 4,882,744	\$ 1,705,880	\$ 5,189,876	\$ 12,538,960	\$ 14,839,511	\$ 10,330,876	\$ 8,694,556	\$ 5,280,506	\$ 13,000,000
1-Dec-21	\$ 10,802,975	\$ 294,906,179	\$ 3,311,148	\$ 15,784,679	\$ 17,148,046	\$ 12,849,593	\$ 10,745,330	\$ 8,862,185	\$ 15,800,000
Total	\$ 274,969,094	\$ 513,704,047	\$ 341,384,983	\$ 194,131,732	\$ 172,437,620	\$ 186,812,564	\$ 144,999,757	\$ 273,297,300	\$ 290,677,012

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 @ 11/30/22
Unpaid Liabilities at Various Discount Rates
Losses Limited to Retentions

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Evaluation in Months	Retention	Selected Ultimate	Incurred Loss	Paid Loss	Case Reserves	Estimated IBNR	Undiscounted	Disc Rate 4.13%
Prior	264	Various	\$ 96,113,455	\$ 96,113,455	\$ 96,113,455	\$ -	\$ -	\$ -	\$ -
1-Dec-01	252	\$ 9,500,000	\$ 12,153,693	\$ 12,153,693	\$ 12,153,693	\$ -	\$ -	\$ -	\$ -
1-Dec-02	240	\$ 9,500,000	\$ 5,220,383	\$ 5,220,383	\$ 5,220,383	\$ -	\$ -	\$ -	\$ -
1-Dec-03	228	Various	\$ 16,951,620	\$ 16,951,620	\$ 16,951,620	\$ -	\$ -	\$ -	\$ -
1-Dec-04	216	\$ 10,000,000	\$ 11,110,000	\$ 11,043,636	\$ 10,843,636	\$ 200,000	\$ 66,364	\$ 266,364	\$ 236,613
1-Dec-05	204	\$ 10,000,000	\$ 4,023,510	\$ 4,023,510	\$ 4,023,510	\$ -	\$ -	\$ -	\$ -
1-Dec-06	192	\$ 10,000,000	\$ 10,690,000	\$ 10,593,160	\$ 6,971,160	\$ 3,622,000	\$ 96,840	\$ 3,718,840	\$ 3,232,538
1-Dec-07	180	\$ 10,000,000	\$ 1,287,951	\$ 1,287,951	\$ 1,287,951	\$ -	\$ -	\$ -	\$ -
1-Dec-08	168	\$ 10,000,000	\$ 5,056,400	\$ 5,056,400	\$ 5,056,400	\$ -	\$ -	\$ -	\$ -
1-Dec-09	156	\$ 10,000,000	\$ 1,900,000	\$ 1,811,869	\$ 1,711,869	\$ 100,000	\$ 88,131	\$ 188,131	\$ 158,487
1-Dec-10	144	\$ 10,000,000	\$ 8,200,000	\$ 8,013,304	\$ 7,558,703	\$ 454,601	\$ 186,696	\$ 641,297	\$ 534,877
1-Dec-11	132	\$ 10,000,000	\$ 3,000,000	\$ 2,765,791	\$ 2,729,791	\$ 36,000	\$ 234,209	\$ 270,209	\$ 227,305
1-Dec-12	120	Various	\$ 6,200,000	\$ 5,929,378	\$ 1,249,378	\$ 4,680,000	\$ 270,622	\$ 4,950,622	\$ 4,260,079
1-Dec-13	108	\$ 15,000,000	\$ 6,700,000	\$ 6,178,531	\$ 951,531	\$ 5,227,000	\$ 521,469	\$ 5,748,469	\$ 5,022,576
1-Dec-14	96	\$ 15,000,000	\$ 19,000,000	\$ 17,329,499	\$ 16,319,499	\$ 1,010,000	\$ 1,670,501	\$ 2,680,501	\$ 2,380,864
1-Dec-15	84	\$ 15,000,000	\$ 11,970,000	\$ 10,131,879	\$ 2,091,879	\$ 8,040,000	\$ 1,838,121	\$ 9,878,121	\$ 8,793,724
1-Dec-16	72	\$ 15,000,000	\$ 8,800,000	\$ 6,856,747	\$ 287,747	\$ 6,569,000	\$ 1,943,253	\$ 8,512,253	\$ 7,746,250
1-Dec-17	60	Various	\$ 14,500,000	\$ 11,681,980	\$ 6,325,980	\$ 5,356,000	\$ 2,818,021	\$ 8,174,021	\$ 7,443,841
1-Dec-18	48	\$ 20,000,000	\$ 8,000,000	\$ 3,146,386	\$ 1,477,286	\$ 1,669,100	\$ 4,853,614	\$ 6,522,714	\$ 5,877,500
1-Dec-19	36	Various	\$ 11,000,000	\$ 6,065,866	\$ 329,766	\$ 5,736,100	\$ 4,934,134	\$ 10,670,234	\$ 9,461,141
1-Dec-20	24	\$ 30,000,000	\$ 13,000,000	\$ 1,276,627	\$ 51,627	\$ 1,225,000	\$ 11,723,373	\$ 12,948,373	\$ 11,204,238
1-Dec-21	12	\$ 30,000,000	\$ 15,800,000	\$ 1,092,500	\$ 850,000	\$ 242,500	\$ 14,707,500	\$ 14,950,000	\$ 12,484,335
Total			\$ 290,677,012	\$ 244,724,162	\$ 200,556,861	\$ 44,167,301	\$ 45,952,849	\$ 90,120,150	\$ 79,064,368

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 (10) : Column (9) discounted



**Cook County, Illinois
Other Liability**

**Other Liability Experience @ 11/30/22
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	264	\$ 96,113,455	1.002	\$ 96,345,178	\$ 96,113,455	1.003	\$ 96,371,372	\$ -	9.870	\$ 96,113,455
1-Dec-01	252	\$ 12,153,693	1.003	\$ 12,191,275	\$ 12,153,693	1.004	\$ 12,200,643	\$ -	5.027	\$ 12,153,693
1-Dec-02	240	\$ 5,220,383	1.004	\$ 5,241,762	\$ 5,220,383	1.006	\$ 5,251,031	\$ -	3.320	\$ 5,220,383
1-Dec-03	228	\$ 16,951,620	1.006	\$ 17,055,084	\$ 16,951,620	1.008	\$ 17,085,241	\$ -	4.458	\$ 16,951,620
1-Dec-04	216	\$ 11,043,636	1.008	\$ 11,133,262	\$ 10,843,636	1.011	\$ 10,961,898	\$ 200,000	3.940	\$ 11,631,657
1-Dec-05	204	\$ 4,023,510	1.010	\$ 4,064,275	\$ 4,023,510	1.014	\$ 4,079,593	\$ -	3.699	\$ 4,023,510
1-Dec-06	192	\$ 10,593,160	1.012	\$ 10,721,890	\$ 6,971,160	1.017	\$ 7,089,535	\$ 3,622,000	3.560	\$ 19,863,697
1-Dec-07	180	\$ 1,287,951	1.014	\$ 1,306,210	\$ 1,287,951	1.020	\$ 1,313,751	\$ -	3.470	\$ 1,287,951
1-Dec-08	168	\$ 5,056,400	1.017	\$ 5,143,466	\$ 5,056,400	1.024	\$ 5,177,114	\$ -	3.649	\$ 5,056,400
1-Dec-09	156	\$ 1,811,869	1.020	\$ 1,848,597	\$ 1,711,869	1.029	\$ 1,761,501	\$ 100,000	3.391	\$ 2,051,010
1-Dec-10	144	\$ 8,013,304	1.027	\$ 8,232,969	\$ 7,558,703	1.034	\$ 7,816,741	\$ 454,601	5.215	\$ 9,929,541
1-Dec-11	132	\$ 2,765,791	1.035	\$ 2,861,500	\$ 2,729,791	1.044	\$ 2,851,210	\$ 36,000	4.660	\$ 2,897,558
1-Dec-12	120	\$ 5,929,378	1.042	\$ 6,177,503	\$ 1,249,378	1.065	\$ 1,331,048	\$ 4,680,000	2.895	\$ 14,799,523
1-Dec-13	108	\$ 6,178,531	1.070	\$ 6,609,300	\$ 951,531	1.097	\$ 1,044,143	\$ 5,227,000	3.771	\$ 20,662,570
1-Dec-14	96	\$ 17,329,499	1.124	\$ 19,483,010	\$ 16,319,499	1.158	\$ 18,892,806	\$ 1,010,000	5.305	\$ 21,677,981
1-Dec-15	84	\$ 10,131,879	1.182	\$ 11,980,305	\$ 2,091,879	1.239	\$ 2,591,254	\$ 8,040,000	5.015	\$ 42,413,528
1-Dec-16	72	\$ 6,856,747	1.217	\$ 8,345,205	\$ 287,747	1.526	\$ 438,970	\$ 6,569,000	2.074	\$ 13,909,152
1-Dec-17	60	\$ 11,681,980	1.308	\$ 15,281,469	\$ 6,325,980	2.115	\$ 13,379,776	\$ 5,356,000	1.808	\$ 16,007,624
1-Dec-18	48	\$ 3,146,386	1.499	\$ 4,715,540	\$ 1,477,286	3.384	\$ 4,999,257	\$ 1,669,100	1.895	\$ 4,640,491
1-Dec-19	36	\$ 6,065,866	1.739	\$ 10,545,575	\$ 329,766	7.445	\$ 2,455,105	\$ 5,736,100	1.964	\$ 11,592,615
1-Dec-20	24	\$ 1,276,627	3.825	\$ 4,882,744	\$ 51,627	33.043	\$ 1,705,880	\$ 1,225,000	4.194	\$ 5,189,876
1-Dec-21	12	\$ 1,092,500	9.888	\$ 10,802,975	\$ 850,000	346.948	\$ 294,906,179	\$ 242,500	10.149	\$ 3,311,148
Total		\$ 244,724,162		\$ 274,969,094	\$ 200,556,861		\$ 513,704,047	\$ 44,167,301		\$ 341,384,983

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 @ 11/30/22
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	252	\$ 12,153,693	1.922	1.136	\$ 26,528,513	1,289,837	1.003	13.49	\$ 7,971,263	\$ 12,178,266
1-Dec-02	240	\$ 5,220,383	1.837	1.136	\$ 10,895,094	1,312,886	1.004	12.67	\$ 7,971,386	\$ 5,252,895
1-Dec-03	228	\$ 16,951,620	1.764	1.126	\$ 33,665,672	1,435,885	1.006	12.51	\$ 9,047,766	\$ 17,006,508
1-Dec-04	216	\$ 11,043,636	1.685	1.126	\$ 20,955,685	1,409,073	1.008	11.24	\$ 8,346,990	\$ 11,110,832
1-Dec-05	204	\$ 4,023,510	1.618	1.126	\$ 7,329,547	1,592,036	1.010	9.78	\$ 8,546,366	\$ 4,109,232
1-Dec-06	192	\$ 10,593,160	1.540	1.126	\$ 18,367,713	1,443,251	1.012	8.98	\$ 7,476,002	\$ 10,682,919
1-Dec-07	180	\$ 1,287,951	1.479	1.126	\$ 2,144,394	1,389,483	1.014	7.87	\$ 6,566,427	\$ 1,379,739
1-Dec-08	168	\$ 5,056,400	1.429	1.126	\$ 8,136,300	1,483,860	1.017	7.35	\$ 6,773,524	\$ 5,171,059
1-Dec-09	156	\$ 1,811,869	1.471	1.126	\$ 3,000,861	1,451,335	1.020	7.00	\$ 6,131,374	\$ 1,933,687
1-Dec-10	144	\$ 8,013,304	1.422	1.126	\$ 12,825,572	1,442,647	1.027	7.09	\$ 6,390,026	\$ 8,183,797
1-Dec-11	132	\$ 2,765,791	1.384	1.126	\$ 4,310,492	1,472,317	1.035	7.00	\$ 6,613,306	\$ 2,986,986
1-Dec-12	120	\$ 5,929,378	1.344	1.058	\$ 8,430,700	1,406,251	1.042	7.27	\$ 7,192,054	\$ 6,218,253
1-Dec-13	108	\$ 6,178,531	1.313	1.058	\$ 8,580,754	1,475,828	1.070	7.64	\$ 8,119,049	\$ 6,707,700
1-Dec-14	96	\$ 17,329,499	1.253	1.058	\$ 22,975,792	1,618,013	1.124	8.15	\$ 9,948,766	\$ 18,429,164
1-Dec-15	84	\$ 10,131,879	1.209	1.058	\$ 12,959,862	1,805,179	1.182	7.92	\$ 11,179,153	\$ 11,856,696
1-Dec-16	72	\$ 6,856,747	1.157	1.058	\$ 8,390,578	1,842,722	1.217	7.61	\$ 11,452,609	\$ 8,899,444
1-Dec-17	60	\$ 11,681,980	1.138	1.029	\$ 13,685,374	1,743,270	1.308	7.49	\$ 11,142,058	\$ 14,306,447
1-Dec-18	48	\$ 3,146,386	1.095	1.029	\$ 3,546,626	1,771,917	1.499	7.01	\$ 11,015,491	\$ 6,811,926
1-Dec-19	36	\$ 6,065,866	1.062	1.000	\$ 6,440,558	1,579,409	1.739	6.87	\$ 10,218,285	\$ 10,406,544
1-Dec-20	24	\$ 1,276,627	1.029	1.000	\$ 1,313,440	1,899,984	3.825	6.64	\$ 12,259,607	\$ 10,330,876
1-Dec-21	12	\$ 1,092,500	1.000	1.000	\$ 1,092,500	1,979,429	9.888	6.61	\$ 13,079,852	\$ 12,849,593
Total		\$ 148,610,707			\$ 235,576,027	32,844,613			\$ 187,441,352	\$ 186,812,564

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	252	\$ 12,153,693	1.922	1.136	\$ 26,528,513	1,289,837	1.004	13.10	\$ 7,738,548	\$ 12,183,472
1-Dec-02	240	\$ 5,220,383	1.837	1.136	\$ 10,895,094	1,312,886	1.006	12.22	\$ 7,690,174	\$ 5,265,267
1-Dec-03	228	\$ 16,951,620	1.764	1.126	\$ 33,665,672	1,435,885	1.008	11.98	\$ 8,663,006	\$ 17,019,372
1-Dec-04	216	\$ 10,843,636	1.685	1.126	\$ 20,576,178	1,409,073	1.011	10.57	\$ 7,847,606	\$ 10,928,299
1-Dec-05	204	\$ 4,023,510	1.618	1.126	\$ 7,329,547	1,592,036	1.014	8.93	\$ 7,807,504	\$ 4,130,841
1-Dec-06	192	\$ 6,971,160	1.540	1.126	\$ 12,087,447	1,443,251	1.017	7.89	\$ 6,564,469	\$ 7,080,768
1-Dec-07	180	\$ 1,287,951	1.479	1.126	\$ 2,144,394	1,389,483	1.020	6.83	\$ 5,699,802	\$ 1,399,885
1-Dec-08	168	\$ 5,056,400	1.429	1.126	\$ 8,136,300	1,483,860	1.024	6.27	\$ 5,781,943	\$ 5,191,217
1-Dec-09	156	\$ 1,711,869	1.471	1.126	\$ 2,835,238	1,451,335	1.029	5.78	\$ 5,063,569	\$ 1,854,540
1-Dec-10	144	\$ 7,558,703	1.422	1.126	\$ 12,097,967	1,442,647	1.034	5.63	\$ 5,076,277	\$ 7,726,276
1-Dec-11	132	\$ 2,729,791	1.384	1.126	\$ 4,254,385	1,472,317	1.044	5.20	\$ 4,910,764	\$ 2,938,916
1-Dec-12	120	\$ 1,249,378	1.344	1.058	\$ 1,776,431	1,406,251	1.065	4.96	\$ 4,901,388	\$ 1,550,117
1-Dec-13	108	\$ 951,531	1.313	1.058	\$ 1,321,488	1,475,828	1.097	5.04	\$ 5,352,268	\$ 1,426,261
1-Dec-14	96	\$ 16,319,499	1.253	1.058	\$ 21,636,714	1,618,013	1.158	5.53	\$ 6,753,553	\$ 17,239,371
1-Dec-15	84	\$ 2,091,879	1.209	1.058	\$ 2,675,758	1,805,179	1.239	4.97	\$ 7,018,327	\$ 3,444,420
1-Dec-16	72	\$ 287,747	1.157	1.058	\$ 352,115	1,842,722	1.526	4.71	\$ 7,088,419	\$ 2,729,679
1-Dec-17	60	\$ 6,325,980	1.138	1.029	\$ 7,410,850	1,743,270	2.115	4.93	\$ 7,335,752	\$ 10,193,376
1-Dec-18	48	\$ 1,477,286	1.095	1.029	\$ 1,665,206	1,771,917	3.384	4.81	\$ 7,556,193	\$ 6,800,616
1-Dec-19	36	\$ 329,766	1.062	1.000	\$ 350,136	1,579,409	7.445	4.76	\$ 7,078,137	\$ 6,457,178
1-Dec-20	24	\$ 51,627	1.029	1.000	\$ 53,115	1,899,984	33.043	4.83	\$ 8,912,661	\$ 8,694,556
1-Dec-21	12	\$ 850,000	1.000	1.000	\$ 850,000	1,979,429	346.948	5.01	\$ 9,923,933	\$ 10,745,330
Total		\$ 104,443,406			\$ 178,642,548	32,844,613			\$ 144,764,296	\$ 144,999,757

Column (3) : supplied by Cook County, Illinois

Column (4) : Masterson 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 @ 11/30/22
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	264	1,593	1.000	1,593	1.002	\$ 60,335	\$ 60,480	0	\$ 63,678	\$ 96,345,178
1-Dec-01	252	162	1.000	162	1.003	\$ 75,023	\$ 75,255	0	\$ 67,702	\$ 12,191,275
1-Dec-02	240	87	1.000	87	1.004	\$ 60,004	\$ 60,250	0	\$ 73,078	\$ 5,241,762
1-Dec-03	228	74	1.000	74	1.006	\$ 229,076	\$ 230,474	0	\$ 80,712	\$ 17,055,084
1-Dec-04	216	61	1.000	61	1.008	\$ 181,043	\$ 182,512	0	\$ 83,264	\$ 11,133,262
1-Dec-05	204	94	1.000	94	1.010	\$ 42,803	\$ 43,237	0	\$ 81,150	\$ 4,064,275
1-Dec-06	192	140	1.000	140	1.012	\$ 75,665	\$ 76,585	0	\$ 80,815	\$ 10,721,890
1-Dec-07	180	78	1.000	78	1.014	\$ 16,512	\$ 16,746	0	\$ 79,067	\$ 1,306,210
1-Dec-08	168	87	1.000	87	1.017	\$ 58,120	\$ 59,120	0	\$ 79,594	\$ 5,143,466
1-Dec-09	156	98	1.000	98	1.020	\$ 18,488	\$ 18,863	0	\$ 76,322	\$ 1,848,597
1-Dec-10	144	84	1.000	84	1.027	\$ 95,396	\$ 98,012	0	\$ 83,449	\$ 8,232,969
1-Dec-11	132	54	1.000	54	1.035	\$ 51,218	\$ 52,991	0	\$ 89,941	\$ 2,861,500
1-Dec-12	120	69	1.000	69	1.042	\$ 85,933	\$ 89,529	0	\$ 106,769	\$ 6,177,503
1-Dec-13	108	54	1.000	54	1.070	\$ 114,417	\$ 122,394	0	\$ 120,883	\$ 6,609,300
1-Dec-14	96	67	1.000	67	1.124	\$ 258,649	\$ 290,791	0	\$ 140,959	\$ 19,483,010
1-Dec-15	84	68	1.002	68	1.180	\$ 148,998	\$ 175,808	0	\$ 149,173	\$ 11,954,945
1-Dec-16	72	68	1.012	69	1.202	\$ 100,835	\$ 121,251	1	\$ 157,025	\$ 8,402,114
1-Dec-17	60	50	1.025	51	1.276	\$ 233,640	\$ 298,204	1	\$ 169,845	\$ 15,080,068
1-Dec-18	48	49	1.046	51	1.433	\$ 64,212	\$ 92,030	2	\$ 172,110	\$ 4,853,673
1-Dec-19	36	44	1.107	49	1.570	\$ 137,861	\$ 216,491	5	\$ 184,582	\$ 10,448,528
1-Dec-20	24	23	1.444	33	2.648	\$ 55,506	\$ 146,982	10	\$ 189,992	\$ 5,280,506
1-Dec-21	12	12	3.416	41	2.895	\$ 91,042	\$ 263,557	29	\$ 196,535	\$ 8,862,185
Total		3,116		3,164				48		\$ 273,297,300

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 @ 11/30/22
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	5.24	1.136	4.62	\$ 4,879,544	0.003	\$ 15,042	\$ 12,168,735
1-Dec-02	\$ 9,500,000	\$ 5,220,383	1.004	5.43	1.136	4.78	\$ 5,194,546	0.004	\$ 21,186	\$ 5,241,570
1-Dec-03	Various	\$ 16,951,620	1.006	5.60	1.126	4.98	\$ 5,970,253	0.006	\$ 36,218	\$ 16,987,838
1-Dec-04	\$ 10,000,000	\$ 11,043,636	1.008	5.80	1.126	5.15	\$ 6,131,867	0.008	\$ 49,364	\$ 11,092,999
1-Dec-05	\$ 10,000,000	\$ 4,023,510	1.010	5.98	1.126	5.32	\$ 7,216,556	0.010	\$ 72,384	\$ 4,095,894
1-Dec-06	\$ 10,000,000	\$ 10,593,160	1.012	6.22	1.126	5.53	\$ 6,873,240	0.012	\$ 82,522	\$ 10,675,682
1-Dec-07	\$ 10,000,000	\$ 1,287,951	1.014	6.42	1.126	5.71	\$ 6,891,235	0.014	\$ 96,328	\$ 1,384,279
1-Dec-08	\$ 10,000,000	\$ 5,056,400	1.017	6.58	1.126	5.84	\$ 7,614,764	0.017	\$ 128,899	\$ 5,185,299
1-Dec-09	\$ 10,000,000	\$ 1,811,869	1.020	6.33	1.126	5.62	\$ 7,235,986	0.020	\$ 143,764	\$ 1,955,633
1-Dec-10	\$ 10,000,000	\$ 8,013,304	1.027	6.48	1.126	5.76	\$ 7,442,930	0.027	\$ 198,586	\$ 8,211,890
1-Dec-11	\$ 10,000,000	\$ 2,765,791	1.035	6.59	1.126	5.86	\$ 7,800,867	0.033	\$ 260,916	\$ 3,026,707
1-Dec-12	Various	\$ 5,929,378	1.042	6.72	1.058	6.35	\$ 8,166,904	0.040	\$ 328,031	\$ 6,257,409
1-Dec-13	\$ 15,000,000	\$ 6,178,531	1.070	6.81	1.058	6.44	\$ 8,774,947	0.065	\$ 571,918	\$ 6,750,449
1-Dec-14	\$ 15,000,000	\$ 17,329,499	1.124	7.06	1.058	6.68	\$ 10,077,356	0.111	\$ 1,113,878	\$ 18,443,377
1-Dec-15	\$ 15,000,000	\$ 10,131,879	1.182	7.26	1.058	6.86	\$ 11,653,570	0.154	\$ 1,798,015	\$ 11,929,894
1-Dec-16	\$ 15,000,000	\$ 6,856,747	1.217	7.50	1.058	7.09	\$ 12,434,694	0.178	\$ 2,217,863	\$ 9,074,610
1-Dec-17	Various	\$ 11,681,980	1.308	7.55	1.029	7.33	\$ 12,287,778	0.236	\$ 2,894,337	\$ 14,576,317
1-Dec-18	\$ 20,000,000	\$ 3,146,386	1.499	7.77	1.029	7.55	\$ 12,980,427	0.333	\$ 4,319,397	\$ 7,465,783
1-Dec-19	Various	\$ 6,065,866	1.739	7.94	1.000	7.94	\$ 12,283,245	0.425	\$ 5,217,863	\$ 11,283,729
1-Dec-20	\$ 30,000,000	\$ 1,276,627	3.825	8.11	1.000	8.11	\$ 15,249,390	0.739	\$ 11,262,334	\$ 12,538,960
1-Dec-21	\$ 30,000,000	\$ 1,092,500	9.888	8.26	1.000	8.26	\$ 16,345,158	0.899	\$ 14,692,179	\$ 15,784,679
Total		\$ 148,610,707					\$ 193,505,256		\$ 45,521,025	\$ 194,131,732

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 @ 11/30/22
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	1.004	5.24	1.136	4.62	\$ 4,879,544	0.004	\$ 18,777	\$ 12,172,470
1-Dec-02	\$ 9,500,000	\$ 5,220,383	1.006	5.43	1.136	4.78	\$ 5,194,546	0.006	\$ 30,318	\$ 5,250,701
1-Dec-03	Various	\$ 16,951,620	1.008	5.60	1.126	4.98	\$ 5,970,253	0.008	\$ 46,692	\$ 16,998,312
1-Dec-04	\$ 10,000,000	\$ 10,843,636	1.011	5.80	1.126	5.15	\$ 6,131,867	0.011	\$ 66,154	\$ 10,909,789
1-Dec-05	\$ 10,000,000	\$ 4,023,510	1.014	5.98	1.126	5.32	\$ 7,216,556	0.014	\$ 99,208	\$ 4,122,717
1-Dec-06	\$ 10,000,000	\$ 6,971,160	1.017	6.22	1.126	5.53	\$ 6,873,240	0.017	\$ 114,763	\$ 7,085,924
1-Dec-07	\$ 10,000,000	\$ 1,287,951	1.020	6.42	1.126	5.71	\$ 6,891,235	0.020	\$ 135,332	\$ 1,423,283
1-Dec-08	\$ 10,000,000	\$ 5,056,400	1.024	6.58	1.126	5.84	\$ 7,614,764	0.023	\$ 177,552	\$ 5,233,952
1-Dec-09	\$ 10,000,000	\$ 1,711,869	1.029	6.33	1.126	5.62	\$ 7,235,986	0.028	\$ 203,881	\$ 1,915,750
1-Dec-10	\$ 10,000,000	\$ 7,558,703	1.034	6.48	1.126	5.76	\$ 7,442,930	0.033	\$ 245,698	\$ 7,804,401
1-Dec-11	\$ 10,000,000	\$ 2,729,791	1.044	6.59	1.126	5.86	\$ 7,800,867	0.043	\$ 332,200	\$ 3,061,991
1-Dec-12	Various	\$ 1,249,378	1.065	6.72	1.058	6.35	\$ 8,166,904	0.061	\$ 501,104	\$ 1,750,482
1-Dec-13	\$ 15,000,000	\$ 951,531	1.097	6.81	1.058	6.44	\$ 8,774,947	0.089	\$ 778,311	\$ 1,729,842
1-Dec-14	\$ 15,000,000	\$ 16,319,499	1.158	7.06	1.058	6.68	\$ 10,077,356	0.136	\$ 1,372,593	\$ 17,692,092
1-Dec-15	\$ 15,000,000	\$ 2,091,879	1.239	7.26	1.058	6.86	\$ 11,653,570	0.193	\$ 2,245,825	\$ 4,337,703
1-Dec-16	\$ 15,000,000	\$ 287,747	1.526	7.50	1.058	7.09	\$ 12,434,694	0.344	\$ 4,283,703	\$ 4,571,450
1-Dec-17	Various	\$ 6,325,980	2.115	7.55	1.029	7.33	\$ 12,287,778	0.527	\$ 6,478,097	\$ 12,804,077
1-Dec-18	\$ 20,000,000	\$ 1,477,286	3.384	7.77	1.029	7.55	\$ 12,980,427	0.704	\$ 9,144,698	\$ 10,621,983
1-Dec-19	Various	\$ 329,766	7.445	7.94	1.000	7.94	\$ 12,283,245	0.866	\$ 10,633,377	\$ 10,963,143
1-Dec-20	\$ 30,000,000	\$ 51,627	33.043	8.11	1.000	8.11	\$ 15,249,390	0.970	\$ 14,787,884	\$ 14,839,511
1-Dec-21	\$ 30,000,000	\$ 850,000	346.948	8.26	1.000	8.26	\$ 16,345,158	0.997	\$ 16,298,046	\$ 17,148,046
Total		\$ 104,443,406					\$ 193,505,256		\$ 67,994,214	\$ 172,437,620

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 @ 11/30/22
Assumptions & Factors Used in the Actuarial Analysis**

(1) Policy Period Inception	(2) Incurred CDF	(3) Paid CDF	(4) Claim CDF	(5) Trend Factors		(6) Revenue (in 000s)
				Loss	Exposure	
Prior	1.002	1.003	1.000	1.985	1.227	-
1-Dec-01	1.003	1.004	1.000	1.922	1.220	1,057,079
1-Dec-02	1.004	1.006	1.000	1.837	1.208	1,086,728
1-Dec-03	1.006	1.008	1.000	1.764	1.197	1,199,434
1-Dec-04	1.008	1.011	1.000	1.685	1.184	1,189,789
1-Dec-05	1.010	1.014	1.000	1.618	1.173	1,357,723
1-Dec-06	1.012	1.017	1.000	1.540	1.161	1,243,144
1-Dec-07	1.014	1.020	1.000	1.479	1.150	1,207,801
1-Dec-08	1.017	1.024	1.000	1.429	1.138	1,303,812
1-Dec-09	1.020	1.029	1.000	1.471	1.127	1,287,986
1-Dec-10	1.027	1.034	1.000	1.422	1.116	1,293,078
1-Dec-11	1.035	1.044	1.000	1.384	1.106	1,331,769
1-Dec-12	1.042	1.065	1.000	1.344	1.094	1,285,791
1-Dec-13	1.070	1.097	1.000	1.313	1.083	1,362,902
1-Dec-14	1.124	1.158	1.000	1.253	1.072	1,509,150
1-Dec-15	1.182	1.239	1.002	1.209	1.062	1,699,156
1-Dec-16	1.217	1.526	1.012	1.157	1.051	1,753,287
1-Dec-17	1.308	2.115	1.025	1.138	1.041	1,675,248
1-Dec-18	1.499	3.384	1.046	1.095	1.030	1,719,805
1-Dec-19	1.739	7.445	1.107	1.062	1.021	1,547,010
1-Dec-20	3.825	33.043	1.444	1.029	1.010	1,881,172
1-Dec-21	9.888	346.948	3.416	1.000	1.000	1,979,429

Methods Included in Analysis : **Chain Ladder Inc. Cape Cod Paid Cape Cod Inc. B/F Paid B/F Freq/Severity**
 Source Used for LDFs : **Company Exclusively**

LDF Annual Decay Rate (Incurred/Pai **0.75** **0.75**
 ELR for B/F Method : **8.41**
 Generalized Cape Cod Decay Factor: **0.75**
 Loss Limitation : **Exhibit 10, Column (5)**
 Discount Rates : **4.13%**

Column (2) : Company Exclusively **Column (5) : Masterson Indices**
Column (3) : Company Exclusively **Column (6) : Flat 1.00%**
Column (4) : Company Exclusively **Column (7) : supplied by Cook County, Illinois**



**Cook County, Illinois
Other Liability**

**Other Liability Experience @ 11/30/22
Limited Loss Calculations**

(1) Policy Period Inception	(2)			(3)	(4)	(5)	(6)			(7)	(8)	(9)	(10)			(11)	(12)
	Unlimited			Case O/S	Retention	Claims valued over the Retention			No.	Incurred	No.	Paid	Limited			Paid	Case O/S
	Incurred	Paid				No.							Incurred	Paid	Incurred		
Prior	\$ 96,113,455	\$ 96,113,455	\$ -		Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 96,113,455	\$ 96,113,455	\$ -		
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	\$ 11,043,636	\$ 10,843,636	\$ 200,000		\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 11,043,636	\$ 10,843,636	\$ 200,000		
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	\$ 8,013,304	\$ 7,558,703	\$ 454,601		\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 8,013,304	\$ 7,558,703	\$ 454,601		
1-Dec-11	\$ 2,765,791	\$ 2,729,791	\$ 36,000		\$ 10,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 2,765,791	\$ 2,729,791	\$ 36,000		
1-Dec-12	\$ 5,929,378	\$ 1,249,378	\$ 4,680,000		Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 5,929,378	\$ 1,249,378	\$ 4,680,000		
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	\$ 18,923,031	\$ 17,913,031	\$ 1,010,000		\$ 15,000,000	1	\$ 16,593,532	1	\$ 16,593,532		\$ 16,593,532		\$ 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	\$ 6,856,747	\$ 287,747	\$ 6,569,000		\$ 15,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 6,856,747	\$ 287,747	\$ 6,569,000		
1-Dec-17	\$ 11,681,980	\$ 6,325,980	\$ 5,356,000		Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 11,681,980	\$ 6,325,980	\$ 5,356,000		
1-Dec-18	\$ 3,146,386	\$ 1,477,286	\$ 1,669,100		\$ 20,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 3,146,386	\$ 1,477,286	\$ 1,669,100		
1-Dec-19	\$ 6,065,866	\$ 329,766	\$ 5,736,100		Various	-	\$ -	-	\$ -	-	\$ -	-	\$ 6,065,866	\$ 329,766	\$ 5,736,100		
1-Dec-20	\$ 1,276,627	\$ 51,627	\$ 1,225,000		\$ 30,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,276,627	\$ 51,627	\$ 1,225,000		
1-Dec-21	\$ 1,092,500	\$ 850,000	\$ 242,500		\$ 30,000,000	-	\$ -	-	\$ -	-	\$ -	-	\$ 1,092,500	\$ 850,000	\$ 242,500		
	\$ 246,317,694	\$ 202,150,393	\$ 44,167,301			1	\$ 16,593,532	1	\$ 16,593,532		\$ 16,593,532		\$ 244,724,162	\$ 200,556,861	\$ 44,167,301		

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 @ 11/30/22
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	1,289,837	162	1.000	162	1.000	162	0.01256%		162	162	0.01256%
1-Dec-02	1,312,886	87	1.000	87	1.000	87	0.00663%		87	87	0.00663%
1-Dec-03	1,435,885	74	1.000	74	1.000	74	0.00515%		74	74	0.00515%
1-Dec-04	1,409,073	61	1.000	61	1.000	61	0.00433%		61	61	0.00433%
1-Dec-05	1,592,036	94	1.000	94	1.000	94	0.00590%		94	94	0.00590%
1-Dec-06	1,443,251	140	1.000	140	1.000	140	0.00970%		140	140	0.00970%
1-Dec-07	1,389,483	78	1.000	78	1.000	78	0.00561%		78	78	0.00561%
1-Dec-08	1,483,860	87	1.000	87	1.000	87	0.00586%		87	87	0.00586%
1-Dec-09	1,451,335	98	1.000	98	1.000	98	0.00675%		98	98	0.00675%
1-Dec-10	1,442,647	84	1.000	84	1.000	84	0.00582%		84	84	0.00582%
1-Dec-11	1,472,317	54	1.000	54	1.000	54	0.00367%		54	54	0.00367%
1-Dec-12	1,406,251	69	1.000	69	1.000	69	0.00491%		69	69	0.00491%
1-Dec-13	1,475,828	54	1.000	54	1.000	54	0.00366%		54	54	0.00366%
1-Dec-14	1,618,013	67	1.000	67	1.000	67	0.00414%		67	67	0.00414%
1-Dec-15	1,805,179	68	1.002	68	1.000	68	0.00377%		68	68	0.00377%
1-Dec-16	1,842,722	68	1.012	69	1.000	69	0.00374%		69	69	0.00374%
1-Dec-17	1,743,270	50	1.025	51	1.000	51	0.00294%		51	51	0.00294%
1-Dec-18	1,771,917	49	1.046	51	1.000	51	0.00289%		51	51	0.00289%
1-Dec-19	1,579,409	44	1.107	49	1.000	49	0.00308%		49	49	0.00308%
1-Dec-20	1,899,984	23	1.444	33	1.000	33	0.00175%		33	33	0.00175%
1-Dec-21	1,979,429	12	3.416	41	1.000	41	0.00207%		41	41	0.00207%
Total	32,844,613	1,523		1,571		1,571	0.00478%		1,571	1,571	0.00478%

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 61
 Column (10) : Selected Trended Ultimate Claims
 Column (11) : Column (10) / Column (6)
 Column (12) : Column (10) / Column (2)

Selected Bornhuetter-Ferguson Claim Count for Policy Period 1-Dec-21											
Weighted Averages excluding Policy Period 1-Dec-21											
Last 5 Policies	8,974,009					225	0.00251%			225	0.00251%
Last 3 Policies	5,458,823					123	0.00225%			123	0.00225%
Last 2 Policies	3,879,413					74	0.00191%			74	0.00191%
Last 20 Policies	30,865,183					1,530	0.00496%			1,530	0.00496%
Selected Bornhuetter-Ferguson Frequency Rate							0.00309%				
Revenue for 1-Dec-21							1,979,429				
Apriori Expected Count for 1-Dec-21							61				



**Cook County, Illinois
Other Liability
Other Liability Experience @ 11/30/22
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	12,153,693	12,153,693	1.977	1.136	27,293,510	1,057,079	1.232	1,302,735	20.95
1-Dec-02	5,220,383	5,220,383	1.890	1.136	11,209,274	1,086,728	1.220	1,326,015	8.45
1-Dec-03	16,951,620	16,951,620	1.815	1.126	34,636,482	1,199,434	1.209	1,450,244	23.88
1-Dec-04	11,043,636	11,110,000	1.734	1.126	21,689,539	1,189,789	1.196	1,423,163	15.24
1-Dec-05	4,023,510	4,023,510	1.665	1.126	7,540,907	1,357,723	1.184	1,607,957	4.69
1-Dec-06	10,593,160	10,690,000	1.585	1.126	19,070,133	1,243,144	1.173	1,457,684	13.08
1-Dec-07	1,287,951	1,287,951	1.521	1.126	2,206,232	1,207,801	1.162	1,403,378	1.57
1-Dec-08	5,056,400	5,056,400	1.470	1.126	8,370,925	1,303,812	1.149	1,498,699	5.59
1-Dec-09	1,811,869	1,900,000	1.514	1.126	3,237,569	1,287,986	1.138	1,465,848	2.21
1-Dec-10	8,013,304	8,200,000	1.463	1.126	13,502,850	1,293,078	1.127	1,457,073	9.27
1-Dec-11	2,765,791	3,000,000	1.424	1.126	4,810,334	1,331,769	1.117	1,487,040	3.23
1-Dec-12	5,929,378	6,200,000	1.383	1.058	9,069,694	1,285,791	1.105	1,420,314	6.39
1-Dec-13	6,178,531	6,700,000	1.351	1.058	9,573,296	1,362,902	1.094	1,490,586	6.42
1-Dec-14	17,329,499	19,000,000	1.289	1.058	25,916,991	1,509,150	1.083	1,634,193	15.86
1-Dec-15	10,131,879	11,970,000	1.244	1.058	15,752,556	1,699,156	1.073	1,823,231	8.64
1-Dec-16	6,856,747	8,800,000	1.190	1.058	11,079,061	1,753,287	1.062	1,861,149	5.95
1-Dec-17	11,681,980	14,500,000	1.171	1.029	17,476,510	1,675,248	1.051	1,760,702	9.93
1-Dec-18	3,146,386	8,000,000	1.127	1.029	9,277,692	1,719,805	1.041	1,789,636	5.18
1-Dec-19	6,065,866	11,000,000	1.092	1.000	12,016,274	1,547,010	1.031	1,595,203	7.53
1-Dec-20	1,276,627	13,000,000	1.059	1.000	13,760,566	1,881,172	1.020	1,918,983	7.17
1-Dec-21	1,092,500	15,800,000	1.029	1.000	16,255,621	1,979,429	1.010	1,999,224	8.13
All Year Weighted Average					293,746,016			33,173,057	8.85
Latest 5-Year Weighted Average					68,786,663			9,063,748	7.59
Latest 3-Year Weighted Average					42,032,461			5,513,410	7.62
SELECTED									8.41

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)					
	(11)	(12)	(13)	(14)	(15)
Policy Period Inception	Retention	Revenue (in 000s)	Claim Count	Loss Rate	Loss Amount
1-Dec-22	30,000,000	1,944,279	55	8.41	16,400,000
1-Dec-23	30,000,000	1,962,100	55	8.50	16,700,000
1-Dec-24	30,000,000	1,983,359	55	8.58	17,000,000

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



**Cook County, Illinois
Other Liability
Projected Losses Paid 12/1/2022 to 11/30/2023**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period Inception	Months of Development 11/30/22	Percent Losses Paid	Months of Development 11/30/23	Percent Losses Paid	Estimated Outstanding Losses 11/30/22	Projected Losses Paid	Estimated Outstanding Losses 11/30/23	Discount Factor	Discounted Outstanding Losses 11/30/23
Prior	264	99.7%	276	99.8%	\$ -	\$ -	\$ -	0.876	\$ -
1-Dec-01	252	99.6%	264	99.7%	\$ -	\$ -	\$ -	0.876	\$ -
1-Dec-02	240	99.4%	252	99.6%	\$ -	\$ -	\$ -	0.883	\$ -
1-Dec-03	228	99.2%	240	99.4%	\$ -	\$ -	\$ -	0.893	\$ -
1-Dec-04	216	98.9%	228	99.2%	\$ 266,364	\$ 26,636	\$ 239,728	0.889	\$ 213,064
1-Dec-05	204	98.6%	216	98.9%	\$ -	\$ -	\$ -	0.888	\$ -
1-Dec-06	192	98.3%	204	98.6%	\$ 3,718,840	\$ 371,884	\$ 3,346,956	0.880	\$ 2,946,618
1-Dec-07	180	98.0%	192	98.3%	\$ -	\$ -	\$ -	0.869	\$ -
1-Dec-08	168	97.7%	180	98.0%	\$ -	\$ -	\$ -	0.857	\$ -
1-Dec-09	156	97.2%	168	97.7%	\$ 188,131	\$ 18,813	\$ 169,318	0.847	\$ 143,476
1-Dec-10	144	96.7%	156	97.2%	\$ 641,297	\$ 64,130	\$ 577,167	0.842	\$ 486,222
1-Dec-11	132	95.7%	144	96.7%	\$ 270,209	\$ 27,021	\$ 243,188	0.834	\$ 202,833
1-Dec-12	120	93.9%	132	95.7%	\$ 4,950,622	\$ 495,062	\$ 4,455,560	0.841	\$ 3,748,097
1-Dec-13	108	91.1%	120	93.9%	\$ 5,748,469	\$ 574,847	\$ 5,173,622	0.861	\$ 4,451,974
1-Dec-14	96	86.4%	108	91.1%	\$ 2,680,501	\$ 268,050	\$ 2,412,451	0.874	\$ 2,107,816
1-Dec-15	84	80.7%	96	86.4%	\$ 9,878,121	\$ 987,812	\$ 8,890,309	0.888	\$ 7,896,516
1-Dec-16	72	65.6%	84	80.7%	\$ 8,512,253	\$ 851,225	\$ 7,661,028	0.890	\$ 6,820,018
1-Dec-17	60	47.3%	72	65.6%	\$ 8,174,021	\$ 817,402	\$ 7,356,618	0.910	\$ 6,694,609
1-Dec-18	48	29.6%	60	47.3%	\$ 6,522,714	\$ 652,271	\$ 5,870,443	0.911	\$ 5,346,041
1-Dec-19	36	13.4%	48	29.6%	\$ 10,670,234	\$ 1,067,023	\$ 9,603,210	0.901	\$ 8,653,279
1-Dec-20	24	3.0%	36	13.4%	\$ 12,948,373	\$ 1,294,837	\$ 11,653,536	0.887	\$ 10,333,021
1-Dec-21	12	0.3%	24	3.0%	\$ 14,950,000	\$ 410,538	\$ 14,539,462	0.865	\$ 12,581,008
1-Dec-22	0	0.0%	12	0.3%	\$ 16,400,000	\$ 47,269	\$ 16,352,731	0.835	\$ 13,655,717
Total					\$ 106,520,150	\$ 7,974,822	\$ 98,545,328		\$ 86,280,307

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 4.13% 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 12/1/2023 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	99.8%	288	99.8%	\$ -	\$ -	\$ -	0.876	\$ -
1-Dec-01	264	99.7%	276	99.8%	\$ -	\$ -	\$ -	0.876	\$ -
1-Dec-02	252	99.6%	264	99.7%	\$ -	\$ -	\$ -	0.876	\$ -
1-Dec-03	240	99.4%	252	99.6%	\$ -	\$ -	\$ -	0.883	\$ -
1-Dec-04	228	99.2%	240	99.4%	\$ 193,094	\$ 19,309	\$ 173,785	0.893	\$ 155,223
1-Dec-05	216	98.9%	228	99.2%	\$ -	\$ -	\$ -	0.889	\$ -
1-Dec-06	204	98.6%	216	98.9%	\$ 3,061,827	\$ 306,183	\$ 2,755,644	0.888	\$ 2,447,858
1-Dec-07	192	98.3%	204	98.6%	\$ -	\$ -	\$ -	0.880	\$ -
1-Dec-08	180	98.0%	192	98.3%	\$ -	\$ -	\$ -	0.869	\$ -
1-Dec-09	168	97.7%	180	98.0%	\$ 155,687	\$ 15,569	\$ 140,118	0.857	\$ 120,012
1-Dec-10	156	97.2%	168	97.7%	\$ 547,369	\$ 54,737	\$ 492,632	0.847	\$ 417,444
1-Dec-11	144	96.7%	156	97.2%	\$ 209,460	\$ 20,946	\$ 188,514	0.842	\$ 158,809
1-Dec-12	132	95.7%	144	96.7%	\$ 3,435,948	\$ 343,595	\$ 3,092,353	0.834	\$ 2,579,194
1-Dec-13	120	93.9%	132	95.7%	\$ 3,976,618	\$ 397,662	\$ 3,578,956	0.841	\$ 3,010,682
1-Dec-14	108	91.1%	120	93.9%	\$ 1,745,540	\$ 174,554	\$ 1,570,986	0.861	\$ 1,351,855
1-Dec-15	96	86.4%	108	91.1%	\$ 6,981,564	\$ 698,156	\$ 6,283,408	0.874	\$ 5,489,964
1-Dec-16	84	80.7%	96	86.4%	\$ 4,761,866	\$ 476,187	\$ 4,285,679	0.888	\$ 3,806,609
1-Dec-17	72	65.6%	84	80.7%	\$ 5,341,287	\$ 534,129	\$ 4,807,158	0.890	\$ 4,279,440
1-Dec-18	60	47.3%	72	65.6%	\$ 4,881,149	\$ 488,115	\$ 4,393,034	0.910	\$ 3,997,712
1-Dec-19	48	29.6%	60	47.3%	\$ 8,683,529	\$ 868,353	\$ 7,815,176	0.911	\$ 7,117,052
1-Dec-20	36	13.4%	48	29.6%	\$ 11,558,985	\$ 1,155,899	\$ 10,403,087	0.901	\$ 9,374,033
1-Dec-21	24	3.0%	36	13.4%	\$ 14,539,462	\$ 1,453,946	\$ 13,085,516	0.887	\$ 11,602,736
1-Dec-22	12	0.3%	24	3.0%	\$ 16,352,731	\$ 449,058	\$ 15,903,673	0.865	\$ 13,761,461
1-Dec-23	0	0.0%	12	0.3%	\$ 16,700,000	\$ 48,134	\$ 16,651,866	0.835	\$ 13,905,516
Total					\$ 103,126,114	\$ 7,504,530	\$ 95,621,584		\$ 83,575,600

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 4.13% 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	99.8%	300	99.9%	\$ -	\$ -	\$ -	0.876	\$ -
1-Dec-01	276	99.8%	288	99.8%	\$ -	\$ -	\$ -	0.876	\$ -
1-Dec-02	264	99.7%	276	99.8%	\$ -	\$ -	\$ -	0.876	\$ -
1-Dec-03	252	99.6%	264	99.7%	\$ -	\$ -	\$ -	0.876	\$ -
1-Dec-04	240	99.4%	252	99.6%	\$ 144,101	\$ 14,410	\$ 129,691	0.883	\$ 114,566
1-Dec-05	228	99.2%	240	99.4%	\$ -	\$ -	\$ -	0.893	\$ -
1-Dec-06	216	98.9%	228	99.2%	\$ 2,402,843	\$ 240,284	\$ 2,162,559	0.889	\$ 1,922,023
1-Dec-07	204	98.6%	216	98.9%	\$ -	\$ -	\$ -	0.888	\$ -
1-Dec-08	192	98.3%	204	98.6%	\$ -	\$ -	\$ -	0.880	\$ -
1-Dec-09	180	98.0%	192	98.3%	\$ 131,124	\$ 13,112	\$ 118,012	0.869	\$ 102,580
1-Dec-10	168	97.7%	180	98.0%	\$ 452,972	\$ 45,297	\$ 407,675	0.857	\$ 349,176
1-Dec-11	156	97.2%	168	97.7%	\$ 178,781	\$ 17,878	\$ 160,903	0.847	\$ 136,345
1-Dec-12	144	96.7%	156	97.2%	\$ 2,663,464	\$ 266,346	\$ 2,397,118	0.842	\$ 2,019,401
1-Dec-13	132	95.7%	144	96.7%	\$ 2,759,946	\$ 275,995	\$ 2,483,952	0.834	\$ 2,071,754
1-Dec-14	120	93.9%	132	95.7%	\$ 1,207,512	\$ 120,751	\$ 1,086,760	0.841	\$ 914,202
1-Dec-15	108	91.1%	120	93.9%	\$ 4,546,387	\$ 454,639	\$ 4,091,749	0.861	\$ 3,521,007
1-Dec-16	96	86.4%	108	91.1%	\$ 3,365,546	\$ 336,555	\$ 3,028,991	0.874	\$ 2,646,502
1-Dec-17	84	80.7%	96	86.4%	\$ 2,987,986	\$ 298,799	\$ 2,689,187	0.888	\$ 2,388,579
1-Dec-18	72	65.6%	84	80.7%	\$ 3,189,571	\$ 318,957	\$ 2,870,614	0.890	\$ 2,555,485
1-Dec-19	60	47.3%	72	65.6%	\$ 6,498,153	\$ 649,815	\$ 5,848,338	0.910	\$ 5,322,056
1-Dec-20	48	29.6%	60	47.3%	\$ 9,406,802	\$ 940,680	\$ 8,466,122	0.911	\$ 7,709,849
1-Dec-21	36	13.4%	48	29.6%	\$ 12,979,346	\$ 1,297,935	\$ 11,681,412	0.901	\$ 10,525,908
1-Dec-22	24	3.0%	36	13.4%	\$ 15,903,673	\$ 1,590,367	\$ 14,313,305	0.887	\$ 12,691,399
1-Dec-23	12	0.3%	24	3.0%	\$ 16,651,866	\$ 457,273	\$ 16,194,593	0.865	\$ 14,013,195
1-Dec-24	0	0.0%	12	0.3%	\$ 17,000,000	\$ 48,999	\$ 16,951,001	0.835	\$ 14,155,316
Total					\$ 102,470,074	\$ 7,388,092	\$ 95,081,982		\$ 83,159,343

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 4.13% 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	16,593,532	16,593,532	-



Large Claims Listing

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

Cook County, Illinois
Other Liability & Law Enforcement Liability
Occurrence
Indemnity and Expense
Incurred Development Triangle
Data Limited to Retentions (000s)
As of 11/30/2022

		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		
Prior																									
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	112,810	134,810	135,735	152,935			
12/1/2002	1,043	2,841	4,744	5,223	11,305	8,930	7,654	6,254	6,284	6,184	6,184	6,184	6,184	6,184	6,245	6,245	6,245	10,245	10,245	10,245	12,154	12,154			
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	71,174	71,174						
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							
12/1/2005	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	8,182	9,182	9,182								
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								
12/1/2007	1,328	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										
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	11,594	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													
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													
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														
12/1/2012	1,364	3,956	17,420	11,910	13,338	12,892	13,068	17,758	17,896	21,626															
12/1/2013	4,235	13,094	13,326	12,117	20,649	36,286	33,432	33,864	40,158																
12/1/2014	753	3,635	24,266	23,922	27,016	23,415	23,533	25,027																	
12/1/2015	1,148	4,038	19,075	25,224	25,525	27,095	25,115																		
12/1/2016	9,908	16,275	26,500	25,601	18,978	19,552																			
12/1/2017	7,359	17,154	17,656	17,633	20,133																				
12/1/2018	4,253	9,103	22,643	9,764																					
12/1/2019	3,412	19,435	26,592																						
12/1/2020	2,914	11,546																							
12/1/2021	2,697																								

		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-Ult		
Prior																									
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	1,127		
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	1,000	1,641	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	1,000	1,042	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	1,000							
12/1/2005	1,947	0,821	0,739	0,832	0,956	2,100	0,790	1,083	0,994	1,018	1,075	1,126	1,059	1,007	1,122	1,000									
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										
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											
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												
12/1/2009	3,671	1,824	0,666	1,870	2,402	0,390	1,041	0,954	1,120	0,997	1,000	1,000													
12/1/2010	5,103	1,977	1,071	3,913	0,736	1,451	1,453	1,124	1,083	1,001	1,071														
12/1/2011	1,415	2,568	0,487	0,892	1,257	1,069	0,892	1,104	1,466	0,847															
12/1/2012	2,901	4,404	0,684	1,120	0,967	1,014	1,359	1,008	1,208																
12/1/2013	3,092	1,018	0,909	1,704	1,757	0,921	1,007	1,193																	
12/1/2014	4,830	6,676	0,986	1,129	0,867	1,005	1,063																		
12/1/2015	3,517	4,724	1,322	1,012	1,061	0,927																			
12/1/2016	1,643	1,628	0,966	0,741	1,030																				
12/1/2017	2,331	1,029	0,999	1,142																					
12/1/2018	2,140	2,487	0,431																						
12/1/2019	5,696	1,368																							
12/1/2020	3,962																								
12/1/2021																									

		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-Ult		
All Yr Average		2,858	2,326	1,037	1,400	1,220	1,041	1,082	1,089	1,062	1,047	1,019	1,065	0,970	0,980	1,014	1,000	1,171	1,000	1,065	1,003	1,127			
3 Yr Average		3,933	1,628	0,799	0,965	0,986	0,951	1,143	1,102	1,253	0,948	1,013	0,938	1,000	1,002	1,040	1,000	1,227	1,000	1,065	NA	NA			
5 Yr Average		3,154	2,247	0,941	1,146	1,136	0,987	1,155	1,077	1,160	1,124	1,018	1,053	0,984	0,969	1,024	1,000	NA	NA	NA	NA	NA			
3 Yr Wtd Average		3,789	1,464	0,793	0,944	0,960	0,946	1,092	1,126	1,176	0,966	1,039	0,938	1,000	1,002	1,029	1,000	1,079	1,000	1,163	NA	NA			
5 Yr Wtd Average		2,640	1,704	0,927	1,075	1,130	0,963	1,148	1,111	1,146	1,041	1,037	1,037	0,968	0,980	1,009	1,000	NA	NA	NA	NA	NA			
Avg X Hi-Lo (3yr X 2)		3,962	1,368	0,966	1,012	1,030	0,927	1,063	1,104	1,208	0,997	1,000	1,000	1,000	1,000	1,000	1,000	1,042	1,000	1,000	NA	NA			
Avg X Hi-Lo (5yr X 2)		2,811	1,828	0,984	1,094	1,019	0,982	1,143	1,079	1,137	0,999	1,017	1,042	1,000	1,000	1,000	1,000	NA	NA	NA	NA	NA			
Prior		2,531	2,200	1,160	1,153	1,080	1,029	1,040	1,040	1,015	1,007	1,007	1,007	1,003	1,003	1,002	1,002	1,002	1,002	1,002	1,001	1,001			
Initial Selected		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	1,001	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	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-252	252-264	264-Ult		
Inverse Power Curve Fit																							1.00708		
Exponential Curve Fit																							1.00160		
Weibull Curve Fit																							1.00241		
Manual Entry																									
Selected Tail Method:	Weibull																								
Final Link Ratio		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	1.001	1.001	Tail		
Final CDF		9.888	3.825	1.739	1.499	1.308	1.217	1.182	1.124	1.070	1.042	1.035	1.027	1.020	1.017	1.014	1.012	1.010	1.008	1.006	1.004	1.003	1.002		

Industry Factor Source: AM Best's GL Occ

Cook County, Illinois
 Other Liability & Law Enforcement Liability
 Occurrence
 Indemnity and Expense
 Reported Claim Count Triangle
 Data Limited to Retentions
 As of 11/30/2022

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	
Prior																				1,696	1,698	1,699	1,701
12/1/2001																163	163	163	163	163	163	163	163
12/1/2002															184	184	184	184	185	185	185	185	
12/1/2003														178	179	179	179	179	179	179	179	179	
12/1/2004													159	161	163	164	165	165	165				
12/1/2005											229	230	231	232	234	234	234						
12/1/2006										268	269	269	270	270	270	270							
12/1/2007									323	326	327	329	329	329	329	330							
12/1/2008									285	289	292	294	294	294	294								
12/1/2009								323	325	325	325	326	326	326									
12/1/2010								413	420	421	422	423	424	424									
12/1/2011					484	500	507	511	514	514													
12/1/2012				623	659	672	679	679	679														
12/1/2013				415	436	448	454	457	460														
12/1/2014			304	384	405	412	412	416															
12/1/2015	107		280	345	367	371	375																
12/1/2016	114	266	345	367	371	375																	
12/1/2017	94	237	283	301	305																		
12/1/2018	89	171	206	216																			
12/1/2019	82	154	197																				
12/1/2020	28	88																					
12/1/2021	30																						

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-Ult
Prior																				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															1.000	1.000	1.000	1.005	1.000	1.000		
12/1/2003													1.006	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				
12/1/2005											1.004	1.004	1.004	1.009	1.000	1.000						
12/1/2006										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								
12/1/2008								1.009	1.003	1.006	1.000	1.000	1.003									
12/1/2009							1.006	1.000	1.000	1.003	1.000	1.000										
12/1/2010						1.014	1.010	1.007	1.000	1.000	1.000											
12/1/2011					1.017	1.002	1.002	1.002	1.002	1.000												
12/1/2012				1.033	1.014	1.008	1.006	1.000	1.000													
12/1/2013			1.058	1.020	1.010	1.000	1.000	1.000														
12/1/2014		1.365	1.051	1.028	1.013	1.007																
12/1/2015	2.617	1.371	1.055	1.017	1.000	1.010																
12/1/2016	2.333	1.297	1.064	1.011	1.011																	
12/1/2017	2.521	1.194	1.064	1.013																		
12/1/2018	1.921	1.205	1.049																			
12/1/2019	1.878	1.279																				
12/1/2020	3.143																					
12/1/2021																						

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-Ult
All Year Average	2.402	1.285	1.056	1.020	1.011	1.007	1.005	1.003	1.002	1.002	1.001	1.003	1.004	1.002	1.001	1.000	1.001	1.000	1.000	1.000	1.000	1.001
3 Yr Average	2.314	1.226	1.059	1.014	1.008	1.005	1.004	1.001	1.001	1.001	1.000	1.000	1.001	1.003	1.002	1.000	1.002	1.000	1.000	NA	NA	NA
5 Yr Average	2.359	1.269	1.056	1.018	1.010	1.005	1.005	1.002	1.001	1.002	1.001	1.001	1.004	1.003	1.001	1.000	NA	NA	NA	NA	NA	NA
3 Yr Wtd Average	2.075	1.221	1.060	1.014	1.008	1.005	1.004	1.001	1.001	1.001	1.000	1.000	1.001	1.002	1.001	1.000	1.002	1.000	1.001	NA	NA	NA
5 Yr Wtd Average	2.251	1.277	1.056	1.018	1.010	1.005	1.004	1.001	1.001	1.002	1.001	1.001	1.003	1.003	1.001	1.000	NA	NA	NA	NA	NA	NA
Avg X Hi-Lo (3yr X 2)	1.921	1.205	1.064	1.013	1.011	1.007	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	NA	NA
Avg X Hi-Lo (5yr X 2)	2.259	1.260	1.056	1.017	1.012	1.006	1.005	1.001	1.001	1.001	1.000	1.000	1.002	1.002	1.000	1.000	NA	NA	NA	NA	NA	NA
Prior	2.365	1.324	1.059	1.022	1.013	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
Initial Selected	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

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-Ult	
Inverse Power Curve Fit																							1.00000
Exponential Curve Fit																							1.00000
Weibull Curve Fit																							1.00000
Manual Entry																							
Selected Tail Method:	Manual Entry																						
Final Link Ratio	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	Tail
Final CDF	3.416	1.444	1.107	1.046	1.025	1.012	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

Industry Factor Source: AM Bests GL Occ