POLICEMEN'S ANNUITY AND BENEFIT FUND OF CHICAGO (A Component Unit of the City of Chicago)

Financial Statements and Supplementary Information For the Years Ended December 31, 2021 and 2020 With Independent Auditor's Report



(A Component Unit of the City of Chicago) Years Ended December 31, 2021 and 2020

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INDEPENDENT AUDITOR'S REPORT

Board of Trustees
Policemen's Annuity and Benefit Fund of Chicago

Opinion

We have audited the accompanying financial statements of the Policemen's Annuity and Benefit Fund of Chicago (the Fund), a component unit of the City of Chicago (City), as of and for the years ended December 31, 2021 and 2020, and the related notes to the financial statements, which collectively comprise the Fund's basic financial statements as listed in the table of contents.

In our opinion, the accompanying financial statements present fairly, in all material respects, the fiduciary net position of the Fund as of December 31, 2021 and 2020, and the changes in its fiduciary net position for the years then ended, in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section in our report. We are required to be independent of the Fund and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Responsibilities of Management for the Financial Statements

The Fund's management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Fund's ability to continue as a going concern for one year after the date that the financial statements are issued.



Management is also responsible for maintaining a current Fund instrument, including all Fund amendments, administering the Fund, and determining that the Fund's transactions as presented and disclosed in the financial statements are in conformity with the Fund's provisions, including maintaining sufficient records with respect to each of the participants, to determine the benefits due or which may become due to such participants.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but it is not absolute assurance and, therefore, is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud it higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit
 procedures that are appropriate in the circumstances, but not for the purpose of
 expressing an opinion on the effectiveness of the Plan's internal control. Accordingly, no
 such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Fund's ability to continue as a going concern for a reasonable period of time.



We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audits, significant audit findings, and certain internal control-related matters that we identified during the audits.

Other Matters

Required Supplementary Information

Mitchell: Titus, LLP

Accounting principles generally accepted in the United States of America require that management's discussion and analysis and the required supplementary information as listed in the table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board which considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with GAAS, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audits of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

June 29, 2022

The Management's Discussion and Analysis section of this report is intended to serve as an introduction to the financial statements of the Policemen's Annuity and Benefit Fund of Chicago (the Fund) and to supplement the information contained therein.

Overview of Financial Statements and Accompanying Information

The basic financial statements are prepared in accordance with accounting principles generally accepted in the United States of America as established by the Governmental Accounting Standards Board (GASB) and are described below:

- Statements of Fiduciary Net Position report the Fund's assets, liabilities, deferred outflows and inflows of resources and the resultant net position where assets and deferred outflows minus liabilities and deferred inflows equal net position held in trust for pension benefits at the end of the year.
- Statements of Changes in Fiduciary Net Position show the sources and uses of funds during the calendar year, where additions minus deductions equal the net increase or decrease in net position held in trust for pension benefits for the year.
- Notes to the Financial Statements are an integral part of the financial statements and include important information and schedules to provide a more comprehensive understanding of the data provided in the financial statements. Information contained in the note disclosures includes the Fund's accounting policies, descriptions of pension and health benefits and related liabilities, detail of investments and related risks, fund reserves, and various other relevant topics.
- Required Supplementary Information presents detailed required historical information, and it is presented after the Notes to the Financial Statements. This required supplementary information includes data on the employer's net pension liability and changes thereof, employer's contribution and money-weighted rate of return for the pension plan; and information on total OPEB liability for the Staff Retiree Health Plan; along with the other information useful in evaluating the fiduciary net position of the Fund.
- Supplementary Information presents the details on administrative costs of maintaining a
 defined benefit pension plan.

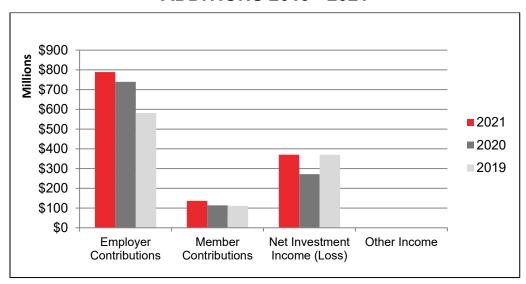
Financial Highlights

• The fiduciary net position of the Fund increased by \$404.8 million, or 11.8%, to \$3,846.7 million at December 31, 2021. At December 31, 2020, the fiduciary net position of the Fund increased by \$279.5 million, or 8.8%, to \$3,441.9 million.

Financial Highlights (continued)

- Additions to the Fund are received from investment income and contributions from the employer and plan members. These are the primary funding sources for benefit payments. In 2021, these additions totaled \$1,295.2 million versus \$1,125.4 million in 2020, which is a 15.1% increase. The Fund experienced a net gain on investment activity in calendar year 2021 of \$396.6 million, or 13.80%, which compares to the net gain on investment of \$271.5 million, or 12.29% in 2020. Global stocks were a mixed bag in the fourth guarter. Domestic equities led the charge with the S&P 500 Index hitting a new record high in December and ending the quarter up 11%. Outside the United States, international developed markets gained 2.7%, while emerging market equities lost 1.3%, dragged down by Brazil and China, U.S. and developed international small-cap stocks underperformed large caps, while emerging market small-cap equities outperformed large-cap stocks. In the United States, within large-cap equites, growth outperformed value, while in small-cap stocks, value trumped growth; within sectors, energy, financials, materials and industrials led the market, while real estate, utilities and consumer staples lagged. In the fourth quarter, fixed-income markets experienced continued volatility amid concerns around inflation and the new surge in Coronavirus infections, leading to the overall flattening of the Treasury yield curve. Yields pushed higher in the shorter maturities with the two-year note increasing 46 basis points to 0.74%, while the long-end saw 30-year yields rally 12 basis points to finish the quarter at 1.9%. U.S. investment-grade debt spreads continue to hover around the low-end of their historical ranges, finishing the guarter at 92 basis points, modestly wider by eight basis points. Agency pass-throughs felt the weight of future tapering by the Federal Reserve and widened four basis points. Spreads on high-yield credit—a bright spot within fixed income—tightened six basis points to finish the quarter at 283 basis points over comparable Treasuries. The Fund's portfolio return of 13.80% for the year is primarily attributed to the total equity portfolio, which returned 15.57% (net of fees) and made up 52% of the Fund's investments as of December 31, 2021.
- An increase in employer contributions was a major factor in the additions to the Fund. Effective May 30, 2016, with the passing of Public Act 099-0506 (PA 99-0506), the contributions were adjusted in accordance with the Illinois Pension Statutes. For financial reporting purposes, the 2021 employer contributions increased by \$49.4 million. In 2020, the employer contributions significantly increased by \$157.4 million.

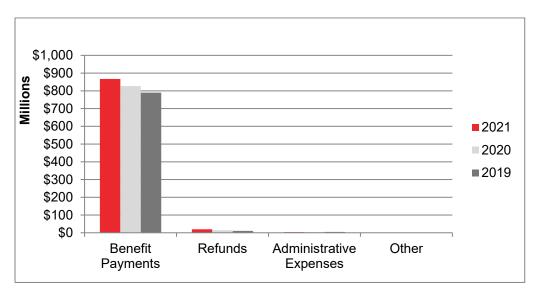
ADDITIONS 2019 - 2021



Financial Highlights (continued)

- Deductions to the Fund are incurred primarily for the purpose for which the Policemen's Annuity and Benefit Fund of Chicago was created, to provide benefits to the police officers of the City and their surviving spouses and children. Deductions consist primarily of pension and disability benefits, death benefits, refunds of employee deductions, and administrative expenses. In 2021, these deductions totaled \$890.4 million and were \$845.9 million in 2020, which is a 5.3% increase. This increase is attributable primarily to the number of retirees and beneficiaries receiving higher benefit payments. The net number of benefit recipients increased in 2021 by 360 members to 14,260 the highest beneficiary count in Fund history.
- Also contributing to the increase in deductions and benefit payments is the enactment of Public Act 99-0905 (PA 99-0905) on November 29, 2016, which provided a statutory 3% automatic increase annually to members born between January 1, 1955, and January 1, 1966. The legislature also provided increased benefits to qualifying annuitants such that the minimum annuity paid cannot be less than 125% of the Federal poverty level.

DEDUCTIONS 2019 - 2021



- Benefit payments, excluding death benefits and refunds, increased by approximately \$40.4 million in 2021 to \$867.2 million from \$826.8 million in 2020. Death benefits and refunds of employee deductions increased 34.3% from 2020 to 2021 by approximately \$5.0 million, from \$14.8 million to \$19.8 million, respectively.
- Administrative expenses decreased by approximately \$0.9 million, or 20.9%, from \$4.3 million in 2020 to \$3.4 million in 2021.

Financial Highlights (continued)

- The primary objective of the Fund is to meet its long-term defined pension benefit obligations. The funding ratio of the Fund on a fair value basis, for purposes of statutory funding, was 24.86% at December 31, 2021 and 23.41% at December 31, 2020. The increase reflects higher-than-expected investment return. In addition, the Fund experienced a favorable actuarial gain due fewer new disabled participants during 2021 than expected. For the year ended December 31, 2021, the Fund's 13.80% investment return was significantly higher than the Fund's underlying investment return assumption of 6.75%.
- For accounting and financial reporting pursuant to GASB No. 67 and 68, which uses a Single Discount Rate that reflects: (1) a long-term expected rate of return on pension plan investments (to the extent that the Fund's fiduciary net position is projected to be sufficient to pay benefits) and (2) a tax-exempt municipal bond rate as of the measurement date (to the extent that the contributions for use with the long-term expected rate of return are not met), the Fund's net pension liability increased by \$440,453,590 from \$12,052,890,831 as of December 31, 2020, to \$12,493,344,421 at December 31, 2021. Changes in the actuarial assumptions and methods led to the change in the Single Discount Rate from 6.28% to 6.26% (based on the long-term expected rate of return on investments of 6.75% used in the December 31, 2020, and 6.75% used in the December 31, 2021, actuarial valuations and the long-term municipal bond rate of 2.00% as of December 31, 2020, and 1.84% as of December 31, 2021, respectively.
- In compliance with GASB No. 75, the Fund is required to recognize a liability for other postemployment benefits (OPEB), which represents health insurance coverage for retired Fund employees. Expenses of \$(0.9) million and \$0.2 million were recognized in 2021 and 2020, respectively, resulting in a total accrued liability of \$1.5 million and \$2.3 million as of December 31, 2021 and 2020, respectively.

Fiduciary Net Position

A summary of fiduciary net position is presented below:

Fiduciary Net Position (In millions)
As of December 31, 2021, 2020 and 2019

				2021–2 Char	
	2021	2020	2019	\$	<u>%</u>
Receivables Brokers–unsettled trades Investments, at fair value Invested securities lending	\$ 845.5 89.9 3,032.5	\$ 765.2 76.0 2,707.5	\$ 605.5 104.2 2,596.5	\$ 80.3 13.9 325.0	10.5 % 18.3 12.0
cash collateral	76.7	109.2	76.8	(32.5)	(29.8)
Total assets	4,044.6	3,657.9	3,383.0	386.7	10.6
Deferred outflow of resources	0.4			0.4	
Brokers–unsettled trades Securities lending payable OPEB liability Refunds and accounts payable	113.7 76.7 1.5 <u>6.1</u>	97.8 109.2 2.3 6.6	134.3 76.8 2.6 6.8	15.9 (32.5) (0.8) (0.5)	16.3 (29.8) (34.8) (7.6)
Total liabilities	198.0	215.9	220.5	(17.9)	(8.3)
Deferred inflow of resources	0.3	0.1	0.1	0.2	200.0
Net position	<u>\$ 3,846.7</u>	<u>\$ 3,441.9</u>	<u>\$ 3,162.4</u>	<u>\$ 404.8</u>	<u>11.8</u> %

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Overall, the fiduciary net position increased by \$404.8 million in 2021, primarily due to the positive investment performance of the Fund's portfolio. The Fund's investment portfolio earned and investment return of 13.80% in 2021.

As of December 31, 2021 and 2020, the amount recorded as receivables includes the employer contributions receivable under the provisions of PA 99-0506. The funding provisions of PA 99-0506 are significantly different than PA-1495, which was in effect at December 31, 2015. Pursuant to PA 99-0506, the funding policy requires City contributions to be equal to \$737.5 million in payment year 2021. Required funding in the 2022 payment year is \$786.8 million. For the payment years 2022 through 2055, the employer is required to make percent of pay contributions that, along with member contributions and investment earnings, are expected to generate a projected funded ratio of 90% by plan year-end 2055.

Changes in Fiduciary Net Position

The following table reflects a comparative summary of various changes in fiduciary net position:

Changes in Fiduciary Net Position (In millions)
Years Ended December 31, 2021, 2020 and 2019

						2021–2020 <u>Change</u>			
	2	021		2020		2019		\$	<u>%</u>
ADDITIONS									
Member contributions Employer contributions Net investment gain	т	136.2 788.8	\$	113.6 739.4	\$	110.8 582.0	\$	22.6 49.4	19.9 % 6.7
and investment income		369.6		271.5		369.3		98.1	(36.1)
Securities lending income Miscellaneous income		0.5 <u>0.1</u>		0.4 0.5		0.6 		0.1 <u>(.04</u>)	25.0
Total additions	1,	<u> 295.2</u>		<u>1,125.4</u>		1,062.7		169.8	<u>15.1</u>
DEDUCTIONS Annuity, disability, and death									
benefits		869.2		828.9		791.9		40.3	4.9
Refunds of contributions Administrative expenses		17.8 3.4		12.7 4.3		8.8 4.7		5.1 (0.9)	40.2 (20.9)
Total deductions		<u>890.4</u>		845.9		805.4		<u>44.5</u>	5.3
Net increase (decrease)		<u>404.8</u>		279.5		257.3		125.3	(44.8)
Net position restricted for pension benefits									
Beginning of year	3,	<u>441.9</u>		<u>3,162.4</u>		<u>2,905.1</u>		279.5	8.8
Ending of year	<u>\$ 3,</u>	<u>846.7</u>	<u>\$</u> :	<u>3,441.9</u>	\$	<u>3,162.4</u>	\$	404.8	<u>11.8</u> %

The Fund experienced an increase in fiduciary net position of \$404.8 million in 2021. While an overall increase in the net fiduciary position was experienced, benefit payments continue to increase each year. The Fund experienced an increase in retirements of active members in 2021.

Contractual terms between the employer and the Fraternal Order of Police, Chicago Lodge No. 7, provided that police officers of at least 60 years of age, with over 20 years of service, receive free healthcare in the City-sponsored healthcare program until the age of Medicare eligibility. Police officers of at least 55 years of age, indicating their intent to retire prior to October 1, 2021, with over 20 years of service, can participate in the City-sponsored healthcare program at a cost of 2% of their retirement annuity until the age of Medicare eligibility.

Investment Activities

The Fund continues to prudently implement the strategic allocation approved by the Board of Trustees. In 2021, the Board voted to hire one new domestic equity investment manager, two private debt investment managers, and two private equity investment managers.

Investment Returns Years Ended December 31, 2021, 2020 and 2019

	2021	2020	2019
Total fund	13.80%	12.29%	16.31%
Equities	15.60	16.50	25.79
Fixed income	(1.30)	6.60	7.12
Real estate	28.60	(0.21)	7.43
Infrastructure	20.10	(7.28)	10.21
Private equity	85.30	16.69	3.20
Private debt	13.80	(1.82)	9.38
Opportunistic debt	14.70	15.30	4.21
Hedge fund	19.90	0.05	0.35
Global asset allocation	-	8.32	11.91
Cash and cash equivalents	1.00	1.67	2.26

Plan Membership

The following table reflects the Plan membership as of December 31, 2021, 2020 and 2019.

Plan Membership As of December 31, 2021, 2020 and 2019

			<u> 2021–2</u> 0	020	
	2021	2020	2019	Change	%
Retirees and beneficiaries	44.000	10.000	40 == 4		0.50.0/
receiving benefits Active employees	14,260 12,126	13,900 12,715	13,771 13,353	360 (589)	2.59 % (4.63)
Terminated (inactive members) employees entitled to benefits	12,120	12,713	13,333	(369)	(4.03)
or refunds of contributions	940	<u>801</u>	707	<u>138</u>	17.21
Total	<u>27,326</u>	<u>27,416</u>	27,831	<u>(91</u>)	<u>(0.33</u>)%

Funding Status

The funding ratio of the Fund on a fair value basis, for purposes of market value funding, experienced an increase to 24.86% at December 31, 2021 from 23.41% at December 31, 2020. During 2014, the Fund adopted GASB No. 67, which requires that projected benefit payments are required to be discounted to their actuarial present values using a single discount rate that reflects (1) a long-term expected rate of return on pension plan investments (to the extent that the plan's fiduciary net position is projected to be sufficient to pay benefits) and (2) a tax-exempt municipal bond rate based on an index of 20-year general obligation bonds with an average 'AA' credit rating. Using this methodology, the funding ratios of the Fund at December 31, 2021 and 2020, were 23.54% and 22.2%, respectively. Discount rates used in the GASB No. 67 valuation were 6.26% and 6.28% as of December 31, 2021 and 2020, respectively.

In 2016, certain assumptions were changed, which included the investment return assumption and the inflation rate assumption. Actuarial information presented as of December 31, 2021 and 2020 reflects these assumption changes.

Effective May 30, 2016, the Illinois Pension Statutes regarding employer contributions to the Fund were changed by Public Act 099-0506. In accordance with Public Act 099-0506, the funding policy requires that contributions from the City, as employer, be equal to \$420 million in payment year 2016, \$464 million in payment year 2017, \$500 million in payment year 2018, \$557 million in payment year 2019, and \$579 million in payment year 2020. For payment years after 2020, the City is required to make level percent of pay contributions for plan years 2021 through 2055 that, along with member contributions and investment earnings, are expected to generate a projected funded ratio of 90% by plan year-end 2055.

As currently provided in the applicable provisions of Public Act 099-0506, the funded ratio of the Fund is projected to increase slowly in future years, with required increases from the employer in years into the future in accordance with current legislation. The Fund continues to be heavily dependent upon employer contributions to fund benefit payments to members now and in future years.

Contact Information

This financial report is designed to provide the employer, plan participants, and others with a general overview of the Fund's finances and to show accountability for the monies received. Questions concerning any data provided in this report can be submitted to:

Ms. Erin Keane Executive Director Policemen's Annuity and Benefit Fund of Chicago 221 North LaSalle Street Suite 1626 Chicago, Illinois 60601

(A Component Unit of the City of Chicago) Statements of Fiduciary Net Position As of December 31, 2021 and 2020

	2021	2020
ASSETS		
Cash	\$ 250	\$ 250
Receivables		
Employer - Tax levies, net of allowance for loss of		
\$0 in 2021, \$0 in 2020	811,248,459	755,544,781
Member contributions - December 31, 2021 payroll		
due in January 2022	29,842,251	5,200,155
Interest and dividends	4,541,782	4,453,353
Accounts receivable - due from Brokers	89,873,228	75,964,597
	935,505,720	841,162,886
Investments at fair value		
U.S. common stock and other equity	390,007,064	279,217,903
Collective investment funds, stock	696,561,458	531,043,166
Collective investment funds, international equities	25,588,457	39,167,299
Collective investment funds, fixed income	226,514,113	205,813,955
Collective investment funds, international fixed income	48,649,006	52,592,273
International equity	577,993,853	604,256,498
U.S. bond and notes	315,242,564	331,058,816
International bonds and notes	11,547,738	9,084,901
Short-term instruments	66,044,870	107,381,026
Infrastructure	77,237,291	67,867,535
Forward contracts and swaps	76,065	218,487
Hedge fund-of-funds	240,521,237	223,802,930
Real estate	179,780,088	143,394,621
Venture capital and private equity	176,694,191	112,601,991
	3,032,457,995	2,707,501,401
Invested securities lending cash collateral	76,691,671	109,234,378
Total assets	4,044,655,636	3,657,898,915
Deferred outflow of resources	376,339	
Total assets and deferred outflow of resources	4,045,031,975	3,657,898,915
LIABILITIES		
LIABILITIES	0.440.040	0.040.700
Refunds and accounts payable	6,113,642	6,616,796
Trade accounts payable - due to Brokers	113,730,872	97,765,151
Security lending cash collateral	76,691,671	109,234,378
OPEB obligation	1,476,386	2,265,881
Total liabilities	198,012,571	215,882,206
Deferred inflow of resources	354,948	118,830
Total liabilities and deferred inflow of resources	198,367,519	216,001,036
Net position held in trust for pension benefits	\$ 3,846,664,456	\$ 3,441,897,879

The accompanying notes are an integral part of these financial statements.

(A Component Unit of the City of Chicago) Statements of Changes in Fiduciary Net Position For the Years Ended December 31, 2021 and 2020

	2021	2020
ADDITIONS Contributions		
Employer	\$ 788,769,979	\$ 739,440,979
Plan member salary deductions	136,225,041	113,621,747
Total contributions	924,995,020	853,062,726
Investment income		
Net appreciation in fair value of investments	343,315,879	244,576,579
Interest	11,252,867	10,440,563
Dividends	19,250,671	20,398,839
Real estate income	4,729,096 378,548,513	4,238,061 279,654,042
	370,040,010	219,004,042
Investment activity expenses	(0.000.040)	(7.405.040)
Investment management fees Custodial fees	(8,208,316)	(7,425,643)
Investment consulting fees	(304,305) (426,295)	(302,722) (420,410)
Total investment activity expenses	(8,938,916)	(8,148,775)
Net income from investing activities	369,609,597	271,505,267
Net income from investing activities	309,009,391	271,303,207
From securities lending activities		
Securities lending income	499,256	725,738
Borrower rebates Bank fees	108,319 (75,766)	(287,556) (52,582)
Net income from securities lending activities	531,809	385,600
Total net investment income		
Total fiet investment income	370,141,406	271,890,867
Miscellaneous income	91,594	472,449
Total additions	1,295,228,020	1,125,426,042
DEDUCTIONS		
Pension and disability benefits	867,243,302	826,827,086
Death benefits	2,067,200	2,074,568
Refunds of employee deductions	17,766,049	12,696,058
A distributed for the second	887,076,551	841,597,712
Administrative expenses	3,384,892	4,359,314
Total deductions	890,461,443	845,957,026
Net increase in fiduciary net position	404,766,577	279,469,016
Net position held in trust for pension benefits		
Beginning of year	3,441,897,879	3,162,428,863
End of year	\$3,846,664,456	\$3,441,897,879

The accompanying notes are an integral part of these financial statements.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 1 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Reporting Entity

Accounting principles generally accepted in the United States (U.S. GAAP), as established by the Governmental Accounting Standards Board (GASB), define a financial reporting entity as consisting of the primary government and its component units, for which the primary government is financially accountable. Financial accountability includes appointing a voting majority of a component unit's governing board, the ability of the primary government to impose its will on the component unit, or a potential for the component unit to provide specific financial benefits to or impose specific financial burdens on the primary government. A primary government may also be financially accountable for its component units.

Based on the above criteria, the Policemen's Annuity and Benefit Fund of Chicago (the Fund, or PABF) is considered to be a component unit of the City of Chicago (the City). The Fund is part of the City's financial reporting entity and is included in the City's fiduciary statement of net assets as a pension trust fund.

Basis of Accounting

The Fund's financial statements are prepared on the accrual basis of accounting. Employee and employer contributions are recognized as additions in the period in which employee services are performed. Benefits and refunds are recognized as deductions when payable. Expenses are recorded when the corresponding liabilities are incurred, regardless of when payment is made.

Use of Estimates

The preparation of financial statements in accordance with U.S. GAAP requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results may differ from those estimates.

Investments

The Fund is authorized to invest in bonds, notes, and other direct obligations of the U.S. Government and U.S. Government agencies; corporate bonds, debentures, and notes; certain notes secured by mortgages, including pass-through securities; common and preferred stocks; certain pooled funds; limited partnerships; real estate; derivatives; currencies and other types of investment vehicles as set forth in the Fund's Statement of Investment Policy and in compliance with the Illinois Compiled Statutes.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 1 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)

Method Used to Value Investments

Investments are reported at fair value. Short-term investments are reported at fair value, which approximates costs. Securities traded on a national or international exchange are valued at the last reported sales price at current exchange rates. Fixed-income securities are valued principally using quoted market prices provided by independent pricing services. For collective investments, net asset value (NAV) is determined and certified by the investment managers as of the reporting date. Real estate investments are valued at estimated fair value as determined by the general partner, based upon appraisals provided by the investment manager. Hedge funds, venture capital, private equity, infrastructure, and certain opportunistic investments are reported at estimated fair value as determined by the general partner of the investment vehicle.

Furniture and Office Equipment

Furniture and office equipment are not capitalized as they are immaterial and charged to expenses in the year of purchase.

Administrative Expenses

Administrative expenses are recorded as incurred and budgeted and approved by the Fund's Board of Trustees. Administrative expenses are funded by employer contributions.

Income Taxes

The Fund is a tax-exempt retirement plan as determined by the Internal Revenue Service. As such, income earned by the Fund is not subject to Federal income taxes.

Securities Lending Transactions

Cash received as collateral on securities lending transactions and investments made with that cash are reported as assets in the statements of fiduciary net position at fair value. Securities received as collateral are reported as assets only if the Fund is able to pledge or sell them without a borrower default. Liabilities resulting from these transactions are reported in the statements of fiduciary net position.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 1 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)

Recent Accounting Pronouncements

The following standards were adopted by the Fund during 2020:

GASB Statement No. 95, *Postponement of the Effective Dates of Certain Authoritative Guidance*, was issued in May 2020. The primary objective of this Statement is to provide temporary relief to governments and other stakeholders in light of the COVID-19 pandemic. That objective is accomplished by postponing the effective dates of certain provisions in Statements and Implementation Guides that first became effective or are scheduled to become effective for periods beginning after June 15, 2018, and later. The requirements of this Statement are effective immediately.

Other accounting standards that the Fund is currently reviewing for applicability and potential impact on the financial statements include:

GASB Statement No. 87, *Leases*, was issued in June 2017. The primary objective of this Statement is to improve accounting and financial reporting for leases by government entities. This Statement will require recognition of certain leases that were previously categorized as operating leases. The Fund will adopt GASB No. 87 for its December 31, 2022, financial statements.

NOTE 2 PENSION PLAN

Plan Description and Contribution Information

PABF is the administrator of a defined benefit, single-employer pension plan with a defined contribution minimum for the purpose of providing benefits to the police officers of the City and their widows and children. Any City employee employed under the provisions of the municipal personnel ordinance as police service is covered by the Fund. The defined benefits, as well as the employer and employee contribution levels, are mandated in Illinois Compiled Statutes (40 ILCS Act 5, Article 5) and may be amended only by the Illinois State Legislature. The Fund is governed by an eight-member Board of Trustees (four appointed by the City, three elected by the police officers, and one elected by the annuitants) whose duties are to administer the Fund under the Illinois Pension Code. The City's payrolls for employees covered by the Fund for the years ended December 31, 2021 and 2020 were \$1,258,338,033 and \$1,195,980,486, respectively. At December 31, 2021 and 2020, the Fund's membership consisted of the following:

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 2 PENSION PLAN (continued)

Plan Description and Contribution Information (continued)

	2021	2020
Active employees	12,126	12,715
Retirees and beneficiaries currently receiving benefits Terminated employees entitled to benefits or a refund of contributions,	14,260	13,900
but not yet receiving them	940	<u>801</u>
	<u>27,326</u>	27,416

The Fund provides retirement benefits as well as death, survivor, and disability benefits. Employees age 50 or older with at least 10 years of service are entitled to receive a money purchase annuity if they have completed less than 20 years of service. The mandatory retirement age for a participant is 63. Employees age 50 or older with at least 20 years of service are entitled to receive a minimum formula annuity of 2.5% per year for the first 20 years of service, plus 2.5% per year for each following year or fraction thereof times the final average salary (highest average annual salary for any four consecutive years within the last 10 years of service immediately preceding the date of retirement). The annuity will not exceed 75% of the highest average annual salary.

For members born before January 1, 1966 with at least 20 years of service, the monthly annuity increases by 3% of the original annuity at the first of the month following the later of the attainment of age 55 or the first anniversary of retirement, and by 3% of the original annuity on each January 1 thereafter.

Effective November 29, 2016, Public Act 99-0905 (PA 99-0905) became law. This Act extended the 3% annual automatic increase to participants born after December 31, 1954, but before January 1, 1966, first payable at the later of age 55 or one year from retirement date. In addition, under PA 99-0905, the minimum benefit for annuitants and widows cannot be less than 125% of the Federal poverty level.

If the recipient was born after January 1, 1966, the monthly annuity increases by 1.5% of the original annuity at the first of the month following the later of the attainment of age 60 or the first anniversary of retirement, and 1.5% on each January 1 thereafter, but will not exceed a total of 30%. Members first hired after January 1, 2011, are subject to different provisions within their defined benefit pension plan. The new provisions include a minimum retirement age of 55, a final average salary calculation based upon 96 consecutive months within the last 120 months of employment, an annual salary cap for purposes of calculating a pension benefit, and cost-of-living increases for a pension benefit that include considerations related to the Consumer Price Index for urban consumers.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 2 PENSION PLAN (continued)

Plan Description and Contribution Information (continued)

Covered employees are required to contribute 9.0% of their salary to the Fund. If an employee leaves covered employment without qualifying for an annuity, accumulated contributions are refunded with interest.

Commencing with the City tax levy year beginning in 2016, legislation in place at December 31, 2016, provides for fixed dollar City contributions for payment years 2016 to 2020, and level percent of pay contributions for years 2021 to 2055. Beginning with payment year 2021, the funding policy requires that future employer contributions, employee contributions and other Fund income are sufficient to produce a funding goal of 90% by the fiscal year end 2055, based upon the actuarial value of Fund assets and application of certain required actuarial assumptions and methodologies.

The total pension liability at December 31, 2021 and 2020, was \$16,340,008,877 and \$15,494,788,710, respectively. The plan fiduciary net position at December 31, 2021 and 2020 was \$3,846,664,456 and \$3,441,946,255, respectively. The net pension liability at December 31, 2021 and 2020 was \$12,493,344,421 and \$12,052,842,455, respectively. The Single Discount Rate of 6.26% required by GASB Statement No. 67 as of December 31, 2021, was based on a long-term expected rate of return on pension plan investments of 6.75% and a long-term municipal bond rate of 1.84%. The Single Discount Rate of 6.28% required by GASB Statement No. 67 as of December 31, 2020, was based on a long-term expected rate of return on pension plan investments of 6.75% and a long-term municipal bond rate of 2.00%.

NOTE 3 HEALTH INSURANCE SUPPLEMENT

Plan Description and Contribution Information

The City offered group health benefits, as was provided, to annuitants and their eligible dependents, which expired on December 31, 2016.

Effective January 1, 2017 and thereafter, certain eligible annuitants in the Appellate Court expanded class, as defined in its June 29, 2017 order, and as further defined after remand in the Circuit Court's February 28, 2019 order, are entitled to continue to receive the 1983 statutory provided subsidies (related to the police and fire funds) of \$55 per month if non-Medicare-eligible and \$21 per month if Medicare-eligible. Therefore, this obligation is reflected as an actuarial accrued liability as of December 31, 2021 and 2020. There are currently no assets accumulated in a trust that meets the criteria of GASB codification P22.101 or P52.101 to pay related benefits for the health insurance supplement plan.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 4 CASH AND INVESTMENT RISK

Cash

The bank balance and carrying amount of the Fund's deposits at December 31, 2021, were \$9,644,679 and \$9,542,531, respectively, and \$5,166,581 and \$4,893,355 at December 31, 2020, respectively. These balances excluded \$250 of petty cash. The bank balance at December 31, 2021 and 2020 is on deposit with the City Treasurer and insured or collateralized by securities held by the City Treasurer in the Fund's name.

Investment Policy

The Trustees assume the responsibility for establishing the Fund's investment policy. The Fund's overall investment policy is based on the following principles established by the Trustees:

- Maintain a long-term investment horizon for the Fund
- Diversify investments across several asset classes

The Trustees have indicated interest in developing a risk policy statement in parallel to the Fund's investment policy. The policy would highlight those risks managed at the Fund level and those managed by external managers. The risk policy would also state the types of risks that are monitored and how they are measured. Until such policy is developed by PABF staff and adopted by the Board, there is no formal policy relating to specific investment-related risks.

Money-Weighted Rate of Return

For the years ended December 31, 2021 and 2020, the annual money-weighted rate of return on the Fund's investments, net of investment expense, was 13.80% and 12.29%, respectively. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 4 CASH AND INVESTMENT RISK (continued)

Investment Summary

The following table presents a summary of the Fund's investments by type at December 31, 2021 and 2020:

	2021	2020
U.S. Government and agency fixed income Corporate fixed income U.S. common collective fixed-income funds Global common collective fixed-income funds U.S. equities U.S. common collective stock funds International equity common collective funds Foreign equities Pooled short-term investment funds Infrastructure Real estate Venture capital Forward contracts and swaps Hedge fund-of-funds Cash and cash equivalents	\$ 173,618,692 153,171,610 226,514,113 48,649,006 390,007,064 696,561,458 25,588,457 577,993,853 39,622,279 77,237,291 179,780,088 176,694,191 76,065 240,521,237 26,422,591	\$ 160,661,357 179,482,360 205,813,955 52,592,273 279,217,903 531,043,166 39,167,299 604,256,498 89,489,163 67,867,535 143,394,621 112,601,991 218,487 223,802,930 17,891,863
Total investments at fair value	\$ 3,032,457,995	\$ 2,707,501,401

The Fund's individual investment Northern Trust Collective Russell 1000 Index Fund – Non-Lending, which amounted to \$696,561,458 and \$406,818,834 as of December 31, 2021 and 2020, respectively, represented 5% or more of net position held in trust for pension benefits.

The Fund's investments were managed by approximately 33 external investment managers that managed 50 investment funds/products during 2021, with additional services provided by an external investment consultant. The Fund does not employ any internal investment managers; therefore, its investments are not managed internally. The Fund does not have a formal policy regarding the credit risk of its external managers or investment consultant.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 4 CASH AND INVESTMENT RISK (continued)

Fair Value Measurements

The Fund categorizes the fair value measurements of its investments based on the hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure an asset's fair value. Fair value is the amount that would be received to sell the investment in an orderly transaction between market participants at the measurement date (*i.e.*, exit price). The fair value measurements are determined within a framework that utilizes a three-tier hierarchy, which maximizes the use of observable inputs and minimizes the use of unobservable inputs. Investments measured and reported at fair value are classified and disclosed in one of the following categories:

- <u>Level 1:</u> Unadjusted quoted prices in active markets for identical assets.
- <u>Level 2:</u> Inputs other than quoted prices that are observable for the asset, either directly or indirectly. These inputs include:
 - a. quoted prices for similar assets in active markets;
 - b. quoted prices for identical or similar assets in markets that are not active;
 - c. inputs other than quoted prices that are observable for the asset;
 - d. inputs that are derived principally from or corroborated by observable market data.
- <u>Level 3:</u> Inputs that are unobservable for the asset. The valuation of these investments requires significant judgment due to the absence of quoted market values, inherent lack of liquidity, and changes in market conditions.

The Fund's investments that are valued using the NAV per share (or its equivalent) are not classified in the fair value hierarchy. These investments do not have a readily determinable fair value.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 4 CASH AND INVESTMENT RISK (continued)

Fair Value Measurements (continued)

The recurring fair value measurements for the year ended December 31, 2021, are as follows:

		Fair Value Measurements Using					
	Totals	Level 1	Level 2	Level 3			
Investments by fair value level							
Equities							
U.S. common stock and other equity	\$ 390,007,064	\$ 389,967,874	\$ 26,068	\$ 13,122			
Collective investment funds, stock	696,561,458		696,561,458	-			
International equity	577,988,534	577,970,486	-	18,048			
Fixed income							
U.S. bonds and notes	314,242,559	-	314,242,559	-			
International bonds and notes	11,547,738	-	11,547,738	-			
Cash equivalents and short-term instruments	66,044,870	26,419,693	39,625,177	-			
Forward contracts and swaps	76,065	-	76,065	-			
Venture capital and private equity	13,540,292	<u> </u>		13,540,292			
Subtotal	2,070,008,580	\$ 994,358,053	\$ 1,062,079,065	\$ 13,571,462			
Investments measured at net asset value							
U.S. bonds and notes	1,000,005						
Collective investment funds, international equities	25,588,457						
Collective investment funds, fixed	226,514,113						
Collective investment funds, international fixed	48,649,006						
Infrastructure	77,237,291						
Hedge fund-of-funds	240,521,237						
Real estate	179,780,088						
Venture capital and private equity	163,153,899						
International equity	5,319						
Subtotal	962,449,415						
Total	\$ 3,032,457,995						

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 4 CASH AND INVESTMENT RISK (continued)

Fair Value Measurements (continued)

The recurring fair value measurements for the year ended December 31, 2020, are as follows:

			Fair Value Measurements Using					
	Totals		Level 1		Level 2		Level 3	
Investments by fair value level Equities								
U.S. common stock and other equity	\$ 279,2	217,903	\$	279,174,814	\$	29,967	\$	13,122
Collective investment funds, stock	406,8	318,834		-		406,818,834		-
International equity	604,2	222,350		604,145,908		-		76,442
Fixed income								
U.S. bonds and notes	330,8	320,610		-		330,820,610		-
International bonds and notes	9,0	084,901		-		9,084,901		-
Cash equivalents and short-term instruments	107,3	381,026		17,406,834		89,974,192		-
Forward contracts and swaps	2	218,487		-		218,487		-
Venture capital and private equity	6,4	133,762						6,433,762
Subtotal	1,744,1	197,873	\$	900,727,556	\$	836,946,991	\$	6,523,326
Investments measured at net asset value								
Collective investment funds, stock	124,2	224,332						
Collective investment funds, international equities	39,2	201,448						
Collective investment funds, fixed	206,0	052,160						
Collective investment funds, international fixed	52,5	592,273						
Infrastructure	67,8	367,535						
Hedge fund-of-funds	223,8	302,930						
Real estate	,	394,621						
Venture capital and private equity	106,1	168,229						
Subtotal	963,3	303,528						
Total	\$ 2,707,5	501,401						

Equity investments classified in Level 1 of the fair value hierarchy are valued using prices quoted in active markets issued by pricing vendors.

Equity, fixed-income securities, and investment derivative instruments classified in Level 2 of the fair market hierarchy are valued using either a bid evaluation or a matrix-pricing technique maintained by various pricing vendors. Bid evaluations may include market quotations, yields, maturities, call features and ratings. Matrix pricing is used to value securities based on the securities' relationship to benchmark quoted prices.

Equity classified in Level 3 of the fair value hierarchy is securities whose stated market price is unobservable by the market place. Many of these securities are priced by the issuers of industry groups. These prices are obtained from various pricing sources by the Fund's custodian bank.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 4 CASH AND INVESTMENT RISK (continued)

Fair Value Measurements (continued)

Investments measured at net asset value (NAV) for fair value are not subject to level classification. The following tables summarize the Fund's investments in certain entities that measure NAV per share as fair value measurement as of December 31, 2021 and 2020:

2021	Fair Value					unded nitments	Redemption Frequency (if Currently Eligible)	Redemption Notice Period
Collective investment funds, stock	\$ 1,00	0,005	\$ -		\$ -		Daily	5 days
Collective investment funds, international equities	25,58	8,457		-	Daily	5 days		
Collective investment funds, fixed	226,51	4,113	28,	500,776	Daily	5 days		
Collective investment funds, international fixed	48,64	9,006	5,	952,985	Daily	5 days		
Infrastructure	77,23	7,291	29,	303,754	Illiquid	N/A		
Hedge fund-of-funds	240,52	1,237	2,	448,751	Quarterly	90 days		
Venture capital and private equity	163,15	3,899	55,	815,653	Illiquid	N/A		
Real estate	179,78		24,	252,152	Illiquid	N/A		
International equity		5,319		-	Illiquid	N/A		
	\$ 962,44	9,415						
2020	_ Fair Va	ılue		unded nitments	Redemption Frequency (if Currently Eligible)	Redemption Notice Period		
Collective investment funds, stock	\$ 124,22	4,332	\$	_	Daily	5 days		
Collective investment funds, international equities	39,16	7,299		-	Daily	5 days		
Collective investment funds, fixed	205,81	3,954	15	,811,350	Daily	5 days		
Collective investment funds, international fixed	52,59	2,273	4	,261,320	Daily	5 days		
Infrastructure	67,86	7,535	27	,260,011	Illiquid	N/A		
Hedge fund-of-funds	223,80	2,930		-	Quarterly	90 days		
Venture capital and private equity	106,16			,553,102	Illiquid	N/A		
Real estate	143,39		48	,658,710	Illiquid	N/A		
U.S. bonds and notes		8,206		-	Illiquid	N/A		
International equity		4,149		-	Illiquid	N/A		
	\$ 963,30	3,528						

Collective investment funds, stock and international equities: There are four funds at December 31, 2021 and six funds at December 31, 2020, which invest in equities diversified across all geographies, sectors, and capitalization.

Collective investment funds, fixed and international fixed: There are three funds at December 31, 2021 and 2020, which invest in a variety of fixed-income markets through various investments.

Infrastructure: There are five funds at December 31, 2021 and 2020, which invest in a variety of infrastructure assets through various investments. These funds are not eligible for redemption.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 4 CASH AND INVESTMENT RISK (continued)

Fair Value Measurements (continued)

Hedge fund-of-funds: There are four funds at December 31, 2021 and 2020, which invest in a select group of underlying managers that implement a number of different alternative investment strategies and invest in a variety of markets through limited partnerships, limited liability companies and other investment entities. None of the funds are available for redemption as of December 31, 2021 and two of these funds were available for redemption as of December 31,2020.

Real estate, venture capital and private equity: The real estate investments consist of 10 and 25 real estate funds as of December 31, 2021 and 2020, respectively. As of December 31, 2021, the Fund held investments in one core fund, one core plus funds, three debt funds, two opportunistic funds, and three value-add funds. As of December 31, 2020 the Fund held investments in five core funds, two core plus funds, four debt funds, 10 opportunistic funds, and four value-add funds. The private equity partnerships consists of six and two limited partnership interests as of December 31, 2021 and 2020, respectively. The private debt partnerships consists of six limited partnership interests as of December 31, 2021 and eight limited partnership interests as of December 31, 2020. These funds invest in equity or debt securities of privately held companies. Private equity and debt closed-end funds are not eligible for redemption.

Investment Risks

The Fund's investments are subject to certain types of risks, including interest rate risk, credit risk, custodial credit risk and foreign currency risk. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the value of investment securities will occur in the near term. The changes could materially affect the amounts reported in the statements of fiduciary net position.

Interest rate risk—Interest rate risk is the risk that the fair value of debt securities decreases due to increases in the prevailing market interest rate. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair value to changes in market interest rates. The Fund does not have a formal policy regarding interest rate risk. The Fund attempts to mitigate its exposure to fair value loss arising from increasing interest rates by diversifying its fixed-income investment strategy and by allocation to several investment managers. The Fund engaged eight such managers in 2021 and six such managers in 2020. Each investment manager is required to determine the maturities of all fixed-income securities in their portfolio. Additionally, guidelines are provided to the external investment managers, including a target duration range that is consistent with each investment manager's respective strategy.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 4 CASH AND INVESTMENT RISK (continued)

<u>Investment Risks</u> (continued)

The following tables show the segmented time distribution of the Fund's investments into time periods of maturities based on the investments' cash flows.

At December 31, 2021, the Fund had the following investments and maturities related to certain fixed-income securities (bonds and notes):

		Investment Maturities						
	Fair	Less than	1 to 6	7 to 10	More than 10 Years			
Investment Type	Value	1 Year	Years	Years				
Asset-backed securities	\$ 18,546,477	\$ -	\$ 2,486,580	\$ 1,377,655	\$ 14,682,242			
Bank loans	3,838,472	-	710,634	3,127,838	-			
Commercial mortgage-backed								
securities	23,709,744	-	1,791,856	2,940,645	18,977,243			
Corporate bonds	97,394,276	969,603	34,766,026	40,188,869	21,469,778			
Corporate convertible bonds	634,517	-	286,123	-	348,394			
Government agency securities	17,973,166	731,532	2,435,486	3,066,739	11,739,409			
Government bonds	73,454,084	13,936,279	8,702,025	9,556,572	41,259,208			
Government mortgage-backed								
securities	73,974,731	-	5,478,729	2,142,921	66,353,081			
Index-linked bonds	875,114	-	-	29,850	845,264			
Municipal/provincial bonds	8,959,682	-	811,185	921,607	7,226,890			
Non-government-backed								
collateralized mortgage obligations	7,430,039		1,545,562	589,083	5,295,394			
	\$ 326,790,302	\$ 15,637,414	\$ 59,014,206	\$ 63,941,779	\$ 188,196,903			

At December 31, 2020, the Fund had the following investments and maturities related to certain fixed-income securities (bonds and notes):

		Investment Maturities					
	Fair	Less than	1 to 6	7 to 10	More than		
Investment Type	Value	1 Year	Years	Years	10 Years		
Asset-backed securities	\$ 21,540,704	\$ 58,216	\$ 3,164,500	\$ 4,026,661	\$ 14,291,327		
Commercial mortgage-backed							
securities	22,194,976	-	1,675,997	3,551,723	16,967,256		
Corporate bonds	131,180,213	1,619,994	40,276,657	66,969,112	22,314,450		
Corporate convertible bonds	334,549	-	187,733	-	146,816		
Government agency securities	45,945,763	22,040,140	9,044,713	2,126,512	12,734,398		
Government bonds	50,749,028	831,024	7,056,484	28,061,206	14,800,314		
Government mortgage-backed							
securities	54,728,629	1,714	5,470,045	3,691,317	45,565,553		
Index Linked Bonds	918,356	-	-	118,528	799,828		
Municipal/provincial bonds	7,798,134	115,873	820,106	675,210	6,186,945		
Non-government-backed							
collateralized mortgage obligations	4,753,365	16,390	954,963	981,711	2,800,301		
	\$ 340,143,717	\$ 24,683,351	\$ 68,651,198	\$ 110,201,980	\$ 136,607,188		

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 4 CASH AND INVESTMENT RISK (continued)

Investment Risks (continued)

Credit risk—Credit risk is the risk that the issuer or other counterparty to an investment will not fulfill its obligations. One measure of credit risk is the quality ratings issued by national ratings agencies, such as Moody's Investors Services (Moody's) and Standard & Poor's Financial Services. The Fund does not have a formal policy in regard to aggregate credit quality of fixed-income holdings. The Fund utilizes external investment management firms to invest in fixed-income securities and credit quality is addressed within the guidelines of the mandate for each of the managers. If a holding falls below specific guideline requirements, the manager will either sell the security or will inform the Fund of the lower rating and why the manager believes that it is prudent to continue to hold the security as they believe that the security will return to minimum constraints.

The following table provides information on the credit ratings associated with the Fund's investments in debt securities. Ratings were obtained from Moody's:

	Fair Value			
		2021		2020
Quality Rating				
Aaa	\$	77,042,509	\$	81,399,594
Aa		7,424,424		6,219,662
A		52,175,563		77,784,950
Baa		29,429,260		35,392,226
Ва		15,376,647		11,465,160
В		3,088,074		3,015,698
Not rated		35,528,933		29,187,302
Caa through C		1,244,795		1,338,104
Total credit risk of U.S. corporate fixed income		221,310,205		245,802,696
U.S. Govt. fixed-income				
securities - explicitly guaranteed		102,977,278		90,938,134
U.S. Govt. agency securities-not rated		2,502,819		3,402,887
	\$	326,790,302	\$	340,143,717

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 4 CASH AND INVESTMENT RISK (continued)

Investment Risks (continued)

Custodial credit risk—Custodial credit risk applies to investments, cash, and certificates of deposit. For an investment, custodial credit risk is the risk that, in the event of the failure of the counterparty, the Fund will not be able to recover the value of its investments or collateral securities that are in the possession of an outside party. For cash and certificates of deposit, custodial credit risk is the risk that in the event of a bank failure, the Fund's deposits may not be returned. As of December 31, 2021 and 2020, cash deposits of \$569,098 and \$668,447, respectively, were exposed to custodial credit risk as uninsured and uncollateralized. The Fund does not have a formal policy regarding custodial credit risk.

Foreign currency risk—Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment.

The Fund does not have a formal investment policy governing foreign currency risk, but does manage its exposure to loss in the fair value of investments by requiring managers of foreign investments to maintain diversified portfolios. The Fund's equity and fixed-income portfolios include investments that are subject to foreign currency risk. Such investments include non-U.S. equities, non-U.S. government bonds, corporate bonds, and derivative instruments. Additionally, some of the Fund's investment managers at least partially hedge foreign currency exchange risk. The Fund's exposure to foreign currency risk is as follows:

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 4 CASH AND INVESTMENT RISK (continued)

Investment Risks (continued)

	Fair Value		
	2021	2020	
Currency			
Argentine Peso	\$ -	\$ 31,332	
Australian Dollar	11,679,243	12,119,291	
Brazilian Real	7,649,984	12,228,985	
British Pound Sterling	42,902,334	39,280,493	
Canadian Dollar	18,116,576	13,539,744	
Chilean Peso	2,711,345	1,361,292	
HK offshore Chinese Yuan Reminbi	233,312	-	
Chinese Yuan Renminbi	3,201,989	1,621,662	
Colombian Peso	3,385,017	4,110,910	
Czech Koruna	3,131,635	2,029,433	
Danish Krone	8,514,484	15,078,677	
Egyptian Pound	76,333	24,845	
Euro Currency Unit	122,526,949	106,242,007	
Hong Kong Dollar	42,043,173	61,111,384	
Hungarian Forint	750,089	141	
Indian Rupee	11,723,245	9,326,564	
Indonesian Rupiah	8,544,017	8,734,337	
Japanese Yen	60,167,745	67,407,569	
Malaysian Ringgit	1,576,041	1,560,120	
Mexican Peso	5,540,832	6,059,229	
New Israeli Shekel	944,609	628,888	
New Taiwan Dollar	39,207,899	41,332,390	
New Zealand Dollar	701,416	430,530	
Norwegian Krone	5,378,359	6,824,781	
Philippine Peso	1,703,061	1,779,149	
Polish Zloty	2,143,063	72,376	
Qatari Riyal	337,998	-	
Russian Ruble	1,104,048	1,905,048	
Singapore Dollar	879,031	1,202,641	
South African Rand	12,073,552	13,079,791	
South Korean Won	24,734,449	32,853,628	
Swedish Krona	19,019,756	19,437,226	
Swiss Franc	29,893,100	27,354,457	
Thai Baht	3,732,649	3,811,543	
Turkish Lira	388	143,871	
United Arab Emirates dirham	238,870		
Total investments in foreign currency	\$ 496,566,591	\$ 512,724,334	

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 4 CASH AND INVESTMENT RISK (continued)

Derivatives

The Fund's investment managers may enter into derivative transactions as permitted by their quidelines. A derivative financial instrument is an investment whose payoff depends on the value of an underlying instrument such as bond or stock prices, a market index, or commodity prices. Derivative financial instruments involve, to varying degrees, credit risk and market risk. Credit risk is the possibility that a loss may occur because a party to a transaction fails to perform according to terms. Market risk is the possibility that a change in the underlying element of the derivative will cause the value of a financial instrument to decrease or become more costly to settle. Most of the derivative transactions executed by the Fund's investment managers are related to currency through foreign exchange contracts, the vast majority of which is for hedging purposes, and interest rates through interest rate futures and forward contracts, the purpose of which is mostly duration management. In addition to derivative transactions executed directly by the Fund's investment managers, the Fund also holds interests in collective funds, hedge funds, and private equity funds, which may engage in derivative transactions. The Fund does not directly purchase derivatives with borrowed funds.

Futures contracts—The Fund's external investment managers enter into futures contracts in the normal course of investing activities to manage market risk associated with the Fund's fixed-income investments and to achieve overall investment portfolio objectives. These contracts involve elements of market risk in excess of amounts recognized in the statements of fiduciary net position. The credit risk associated with these contracts is minimal, as they are traded on organized exchanges and settled daily.

At December 31, 2021, the Fund had interest rate futures contracts to purchase U.S. Treasury bonds and notes with notional costs of \$5,415,334 and \$15,236,960, respectively. At December 31, 2021, the Fund also had interest rate futures contracts to (sell) U.S. Treasury bonds, an Italian bond, and German bonds with notional amounts of \$(15,851,596), \$2,009,223 and \$(1,950,654), respectively. At December 31, 2020, the Fund had interest rate futures contracts to purchase U.S. Treasury bonds and notes and an Australian Treasury bond with notional costs of \$4,701,750, \$12,870,361 and \$331,309, respectively. At December 31, 2020, the Fund also had interest rate futures contracts to (sell) U.S. Treasury bonds and notes and a U.K. bond with notional amounts of \$(3,514,413), \$(7,709,695) and \$(724,551), respectively.

The fair value of futures contracts in the statements of fiduciary net position was zero at December 31, 2021 and 2020, as settlements are by cash daily.

The Fund had net investment earnings of \$123,775 and \$841,274 on futures contracts in 2021 and 2020, respectively. These earnings are accounted for as net appreciation in fair value of investments.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 4 CASH AND INVESTMENT RISK (continued)

<u>Derivatives</u> (continued)

Interest rate and credit default swaps—The Fund's external investment managers utilize interest rate and credit default swaps in the management of the Fund's fixed-income portfolio. Swap agreements are contractual agreements between two or more parties in which each party agrees to exchange sets of cash flows based on certain agreed-upon parameters. The holder is exposed to credit risk for nonperformance and market risk for changes in interest rates. Gains and losses on swaps are determined based on fair values and are recorded in the statements of changes in fiduciary net position. The notional value of credit default swaps was \$358,833 and \$7,413,001 as of December 31, 2021 and 2020, respectively. The notional value of inflation and interest rate swaps was \$0 and \$1,994,333 as of December 31, 2021 and 2020, respectively. The fair value of swaps outstanding at December 31, 2021 and 2020 was a net liability of \$31,589 and \$379,505, respectively. Investment gain (loss) from holdings and sales of interest rate and credit default swaps was \$(164,519) and \$(1,562,219) in 2021 and 2020, respectively. These gains and losses are included in net appreciation (depreciation) in the fair value of investments in the statements of changes in fiduciary net position.

Foreign exchange contracts—The Fund's external investment managers utilize foreign currency forward contracts, primarily for hedging purposes. Foreign currency forward contracts are contractual agreements to buy or sell a specific amount of a foreign currency at a certain date for an agreed price. As the fair value of the underlying foreign currency varies from the contractual agreed price, the Fund records an unrealized gain or loss. The holder is exposed to credit risk for nonperformance and to market risk for changes in exchange rates. The Fund had pending foreign currency purchases and sales that included positions with various currencies primarily including, Australian dollar, Brazilian real, British pound sterling, Canadian dollar, Chinese yuan renminbi, Colombian peso. Danish krone, Euro currency unit, Hong Kong dollar, Indian rupee, Indonesian rupiah, Japanese yen, Malaysian ringgit, Mexican peso, New Israeli shekel, New Taiwan dollar, New Zealand dollar, Norwegian krone, Philippine peso, Polish zloty, Russian ruble, Singapore dollar, South African rand, South Korean won, Swedish krona, Swiss franc, Thai baht, and United States dollar at December 31, 2021 and 2020. Total pending foreign currency forward purchases and (sales) had notional values of \$72.839.399 and \$(72.974.949), respectively, at December 31, 2021, and \$65,213,164 and \$(65,068,510), respectively, at December 31, 2020.

The Fund had a net unrealized gain (loss) on pending foreign currency forward contracts of \$(135,551) and \$144,655 at December 31, 2021 and 2020, respectively, which is reflected in the fair value of the investments on the statements of fiduciary net position. Investment gain (loss) from holdings and sales of foreign currency forward contracts was \$344,868 and \$(563,020) in 2021 and 2020, respectively.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 4 CASH AND INVESTMENT RISK (continued)

Derivatives (continued)

Forward interest rate contracts—The Fund's external investment managers entered into forward contracts to purchase or sell bond securities during 2021 and 2020. Forward contracts are contracts for delayed delivery of securities in which the seller agrees to make delivery at a specified future date of a specified instrument, at a specified price or yield. The holder is exposed to credit risk for nonperformance and to market risk for changes in interest rates.

These instruments involve, to varying degrees, elements of credit risk in excess of the amount recognized in the statements of fiduciary net position. The Fund's external investment managers attempt to mitigate this credit risk through structured trading with reputable parties.

At December 31, 2021 and 2020, the Fund did not hold forward interest rate contracts.

Investment Management Fees

Investment management fees from equity and fixed-income managers, including one of the collective funds, one of the private equity managers, and the cash manager, are included in investment management fees on the statements of changes in fiduciary net position. Investment management fees from all other collective funds, short-term investments, infrastructure, hedge, real estate, venture capital and private equity are reflected in the net investment income from such investment products. Such investment management fees are not significant to the financial statements.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 5 SECURITIES LENDING PROGRAM

State statutes and the Fund's Statement of Investment Policy permit the Fund to lend certain of its liquid securities to broker/dealers and other entities with a simultaneous agreement to return the collateral for the same securities in the future. The Fund's securities lending agent, Deutsche Bank AG, New York Branch (Deutsche Bank), lends securities of the type on loan at year end for collateral in the form of U.S. dollars cash, securities issued by or guaranteed as to principal and interest by the U.S. Government, its agencies, instrumentalities and establishment, and non-U.S. sovereign debt securities representing obligations of an Organization for Economic Cooperation and Development (OECD) country having a fair value equal to or exceeding 102% of the value of the loaned securities and 105% for non-U.S. securities. The contract with Deutsche Bank provides for indemnification for the Fund with respect to any shortfall between liquidation proceeds and the fair market value of: (1) in respect to lending transactions, the securities subject to such transaction, or (2) in the case of reverse transactions, the amount of cash deposited with a counterparty with respect to such transaction. The terms of liquidation proceeds, fair market value and reverse transactions are more specifically defined in the agency securities lending agreement.

Any of the loans of the Fund's securities can be terminated on demand by either the Fund or the borrower. The average terms of the Fund's loans were approximately 5.7 days and 2.2 days as of December 31, 2021 and 2020, respectively. At December 31, 2021 and 2020, cash collateral was reinvested in indemnified repurchase agreements which had an interest sensitivity of one day. The Fund cannot pledge or sell collateral securities received unless the borrower defaults.

Loans outstanding as of December 31, 2021 and 2020, were as follows:

	 2021	2020
Fair value of securities loaned	\$ 74,906,707	\$ 106,966,413
Fair value reinvested of cash collateral from borrowers Fair value of non-cash collateral from borrowers	76,691,671	109,234,378
	11,367,909	192,463

As of December 31, 2021 and 2020, the Fund had limited credit risk exposure to borrowers because the amounts owed to the borrowers exceeded the amounts owed to the Fund.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 6 UNFUNDED INVESTMENT COMMITMENTS

The Fund had unfunded commitments of approximately \$146 million and \$157 million at December 31, 2021 and 2020, respectively, in connection with real estate, infrastructure, private equity and collective commingled fund investments.

NOTE 7 POSTEMPLOYMENT BENEFITS OF THE FUND—STAFF RETIREE HEALTHCARE PLAN

Plan Description

PABF, as an employer, administers a single-employer defined benefit postemployment healthcare plan (Staff Retiree Healthcare Plan). The Staff Retiree Health Plan provides health and dental insurance for eligible retirees and their spouses through PABF's group health insurance plan, which covers both active and retired members. As of December 31, 2021, 11 retirees were in the Staff Retiree Healthcare Plan and 19 active employees could be eligible at retirement. As of December 31, 2020, 10 retirees were in the Staff Retiree Healthcare Plan and 21 active employees could be eligible at retirement. Benefit subsidy provisions have been established by PABF's Board of Trustees. The amount of the subsidy varies according to a retiree's years of service with PABF and the coverages elected. These benefit subsidy provisions can be modified or terminated at the sole discretion of the PABF Board. As of December 31, 2021, the Fund changed the plan provisions for medical benefits for retirees from a solely Preferred Provider Organization (PPO) model to a model that includes a PPO, a Supplemental Plan G, and a Prescription Drug Plan. The effect of this current period benefit change was to reduce total OPEB expense for 2021 by \$1,040,799.

Funding Policy

The required contribution is based on projected pay-as-you-go financing requirements. Accordingly, the Plan does not accumulate assets in a trust for OPEB. For 2021 and 2020, PABF contributed approximately \$110,269 and \$106,433, respectively, to the Staff Retiree Healthcare Plan for current premiums, inclusive of an implicit subsidy of \$23,548 and \$19,135, for 2021 and 2020, respectively. For 2021 and 2020, members receiving benefits contributed approximately \$87,726 and \$88,309, respectively, to the Staff Retiree Healthcare Plan for current premiums.

GASB Statement No. 75 Valuation

As of December 31, 2021 and 2020, the Fund's total OPEB liability was \$1,467,386 and \$2,265,881, respectively. Total OPEB liability as of December 31, 2021, was based on the requirements of GASB Statement No. 75, using census, plan provisions, methods and assumptions as of December 31, 2021.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 7 POSTEMPLOYMENT BENEFITS OF THE FUND—STAFF RETIREE HEALTHCARE PLAN (continued)

GASB Statement No. 75 Valuation (continued)

Total OPEB liability as of December 31, 2020, was based on the requirements of GASB Statement No. 75, using census, plan provisions, methods and assumptions as of December 31, 2019.

The following methods and assumptions were used in the OPEB valuation for 2021:

Actuarial valuation date December 31, 2021

Measurement date December 31, 2021

Fiscal year end date December 31, 2021

Methods and actuarial assumptions used to measure total OPEB liability:

Actuarial cost method Entry age normal

GASB Statement No. 75 discount

rate, beginning of year 2.00% per year

GASB Statement No.75 discount

rate, end of year 1.84% per year Wage inflation 3.00% per year

Retirement age Experience-based table of rates that are

specific to the type of eligibility condition

Post-retirement mortality The mortality rates are from the PUB-2010

Amount-weighted Below-median income Healthy Retiree Mortality Table with twodimensional, fully generational improvements using the MP-2020 Mortality Improvement

Scale

Healthcare trend rates Medical trend rates for plan years beginning

on and after January 1, 2023, based on 7.00% per year graded down in 0.25%

increments to an ultimate trend rate of 4.25% per year. Prescription Drug Plan trend rates for plan years beginning on and after January 1, 2023, based on 8.00% per year graded down in 0.25% increments to an ultimate trend rate of 4.25% per year. Dental and vision trend rate of 4.25% per year beginning

on January 1, 2023.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 7 POSTEMPLOYMENT BENEFITS OF THE FUND—STAFF RETIREE HEALTHCARE PLAN (continued)

GASB Statement No. 75 Valuation (continued)

The following methods and assumptions were used in the OPEB valuation for 2020:

Actuarial valuation date December 31, 2019

Measurement date December 31, 2020

Fiscal year end date December 31, 2020

Methods and actuarial assumptions used to measure total OPEB liability:

GASB Statement No. 75 discount

rate, beginning of year 2.75% per year

GASB Statement No.75 discount

rate, end of year 2.00% per year Wage inflation 3.00% per year

Retirement age Experience-based table of rates that are

specific to the type of eligibility condition

Post-retirement mortality The mortality rates are from the PUB-2010

Amount-weighted Below-median income Healthy Retiree Mortality Table with twodimensional, fully generational improvements using the MP-2020 Mortality Improvement

Scale

Healthcare trend rates Pre-Medicare trend rate of 0.93%, and Post-

Medicare trend rate of 2.43% for plan year beginning after January 1, 2021. Trend rates for plan years beginning on and after January 1. 2022, based on 7.00% for Pre-Medicare and 7.50% for Post-Medicare per year graded down in 0.25% increments to an ultimate trend rate of 4.25% per year. Dental and vision trend rate of -0.63% for plan year beginning on January 1, 2021, and 4.25%

thereafter.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 7 POSTEMPLOYMENT BENEFITS OF THE FUND—STAFF RETIREE HEALTHCARE PLAN (continued)

<u>Total OPEB Liability and Sensitivity to Changes in the Discount and Healthcare Cost Trend Rates</u>

	2021	2020
 Total OPEB liability Service cost Interest on the total OPEB liability Changes in benefit terms Difference between expected and actual experience of the total OPEB liability Changes of assumptions 	\$ 95,032 45,221 (1,040,799) 169,830 45,990	\$ 101,259 70,229 - (304,583 (53,712
 Benefit payments Net change in total OPEB liability Total OPEB liability – beginning of year Total OPEB liability – end of year 	(104,769) (789,495) 2,265,881 \$ 1,476,386	(100,933) (287,740) 2,553,621 \$ 2,265,881
Covered-employee payroll	\$ 1,690,071	\$ 1,639,092
Total OPEB liability as a percentage of Covered-employee payroll	87.36%	138.24%

Discount Rate

The following presents the Fund's total OPEB liability, calculated using a discount rate of 1.84% and 2.00% as of December 31, 2021 and 2020, respectively, as well as what the Fund's total OPEB liability would be if it were calculated using a discount rate that is 1% lower or 1% higher:

Net OPEB Liability for Year Ended	Current 1% Decrease Assumption		•			1	% Increase
December 31, 2021 December 31, 2020	\$	1,649,291 2,533,772	\$	1,476,386 2,265,881	\$	1,328,826 2,039,874	

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 7 POSTEMPLOYMENT BENEFITS OF THE FUND—STAFF RETIREE HEALTHCARE PLAN (continued)

Healthcare Cost Trend Rate

The following presents the Funds' OPEB liability, calculated using the assumed trend rates as well as what the Fund's total OPEB liability would be if it were calculated using a trend rate that is 1% lower or 1% higher:

Net OPEB Liability for Year Ended 1	% Decrease	He: Co:	current althcare st Trend Rate sumption	1%	increase
December 31, 2021 \$ December 31, 2020	1,358,609 2,189,408	-	1,476,386 2,265,881	\$	1,615,674 2,361,868
Staten	nent of OPEB	Expen	ıse		
		_	2021		2020
Expense 1. Service cost 2. Interest on the total OPEB	liability	\$	95,032 45.221	\$	101,259 70.229

1.	Service cost	\$	95,032	\$	101,259
2.	Interest on the total OPEB liability		45,221		70,229
3.	Current-period benefit changes		(1,040,799)		-
4.	OPEB plan administrative expense		5,500		5,500
5.	Recognition of outflow (inflow) of resources				
	due to non-investment experience		(14,216)		(31,451)
6.	Recognition of outflow (inflow) of resources				
	due to assumption changes	_	16,88 <u>6</u>		12,219
7.	Total OPEB expense	\$	(892,376)	\$	<u> 157,756</u>
Rece	onciliation of total OPEB liability				
	Net OPEB liability, beginning of year	\$	2,265,881	\$	2,553,621
2.	OPEB expense	Ψ	(892,376)	Ψ	157,756
3.	Employer contributions		(110,269)		(106,433)
4.	Change in deferred outflow/(inflow) due		(:::,===)		(100,100)
	to non-investment experience		184,046		(273, 132)
5.	Change in deferred outflow/(inflow) due		,		, , ,
	to assumption changes	_	29,104		(65,931)
6	Net OPEB liability, end of year	\$	1,476,386	\$	2,265,881

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 7 POSTEMPLOYMENT BENEFITS OF THE FUND—STAFF RETIREE HEALTHCARE PLAN (continued)

The following table presents the components of total deferred outflows and inflows of resources related to OPEB at December 31:

<u>Deferred Outflows of Resources</u>	 2021	 2020
Differences between expected and actual non-investment experience Assumption changes	\$ 152,595 223,744	\$ - -
Total deferred outflows of resources	\$ 376,339	\$
<u>Deferred Inflows of Resources</u>	 2021	 2020
Deferred Inflows of Resources Differences between expected and actual non-investment experience Assumption changes	\$ 251,855 103,093	\$ - 118,830

Amounts reported as deferred outflows and inflows of resources related to OPEB will be recognized in OPEB expense over 9.8537 years as follows:

	Ou	Deferred atflows of esources	(Ir	Deferred offlows) of desources	Oı (Int	Deferred utflows flows) of sources
2022	\$	49,858	\$	(47,188)	\$	2,670
_	Ψ	•	Ψ	, ,	Ψ	•
2023		49,858		(47,188)		2,670
2024		49,858		(47,188)		2,670
2025		49,858		(47,188)		2,670
2026		49,858		(47,188)		2,670
Thereafter		127,049		(119,008)		8,041
	\$	376,339	\$	(354,948)	\$	21,391

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 8 RESERVES

The Fund maintains several reserves, as required by the Illinois Pension Code and Board policy. The following are brief descriptions of the reserves:

City Contribution Reserve

		2021		2020		
Balances, at December 31	<u>\$</u>	2,434,444,101	<u>\$</u>	2,311,279,968		

The City Contribution Reserve is maintained for the payment of the City's portion of future retirement benefits for active and inactive participants. Interest at 3% is credited to this reserve annually. When the amount of annuity for a policeman or widow is fixed, the City Contribution Reserve is charged with the amount of the present value of retirement benefit and the Annuity Payment Reserve is credited with such amount.

The City Contribution Reserve does not equal the present value of expected retirement benefits. The reserve is maintained on a cost basis, in accordance with the Illinois Pension Code.

Salary Deduction Reserve

		2021		2020
Balances, at December 31	<u>\$</u>	1,645,058,291	\$	1,637,462,981

The Illinois Pension Code requires the Fund to maintain separate accounts for each policeman for the amounts of salary deductions with interest at 3% per year. When a policeman retires, the amount of his annuity is charged to the Salary Deduction Reserve and credited to the Annuity Payment Reserve. If a policeman takes a separation refund, his salary deductions are refunded to him and charged to the Salary Deduction Reserve. This reserve is fully funded.

Annuity Payment Reserve

		2021		2020		
Balances, at December 31	<u>\$</u>	3,175,809,910	\$	2,962,163,182		

When the amount of annuity has been fixed, the present value of expected benefit is transferred from the City Contribution Reserve and the Salary Deduction Reserve to the Annuity Payment Reserve for the payment of annuity. All age and service annuities, widow's annuities, and refunds are charged to this reserve.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 8 RESERVES (continued)

Annuity Payment Reserve (continued)

Annually, the actuary calculates the present value of all annuities. The Investment and Interest Reserve will transfer amounts to the Annuity Payment Reserve to ensure that the balance in the Annuity Payment Reserve equals the present value of annuities. This reserve is fully funded.

Prior Service Annuity Reserve

	2021	 2020			
Balances, at December 31	\$ (778,386,780)	\$ (1,079,492,916)			

The Prior Service Annuity Reserve is increased by the City's contributions for policemen and widows' prior service annuities and all prior service annuities payable to policemen and widows are charged to this reserve. This reserve included an unfunded liability of \$11,761,260,336 and \$11,303,130,514 as of December 31, 2021 and 2020, respectively.

Gift Reserve

	 2021		2020		
Balances, at December 31	\$ 13,633,180	\$	13,619,153		

The Gift Reserve is maintained for gifts, grants, bequests, or other amounts received by the Fund. The Board of Trustees determines the use of these funds. Interest is credited to the Gift Reserve annually.

Investment and Interest Reserve

All gains and losses from investments and investment earnings are recorded in the investment and interest reserve. Interest due to the City Contribution Reserve, Salary Deduction Reserve, Prior Service Annuity Reserve, Gift Reserve, and Supplementary Payment Reserve is transferred from the Investment and Interest Reserve to those reserves.

Ordinary Death Benefit Reserve

	2021		2020	
Balances, at December 31	\$	(52,068,449)	\$	(47,729,855)

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 8 RESERVES (continued)

Ordinary Death Benefit Reserve (continued)

Amounts contributed by policemen and the City for death benefits are credited to the Ordinary Death Benefit Reserve. Death benefit payments are charged to this reserve. At December 31, 2021 and 2020, the Ordinary Death Benefit Reserve had a deficit.

Automatic Increase Reserve

	 2021	 2020
Balances, at December 31	\$ (2,592,273,199)	\$ (2,356,124,198)

The Automatic Increase Reserve is credited with amounts deducted from the salaries of police officers and matching contributions by the City for automatic increase in annuity. Payments of increased annuities and salary deduction refunds, for increase in annuity, are charged to this reserve. At December 31, 2021 and 2020, the Automatic Increase Reserve had a deficit.

Supplementary Payment Reserve

	2021		 2020
Balances, at December 31	\$	447,402	\$ 447,402

The Supplementary Payment Reserve receives amounts transferred from the Investment and Interest Reserve for supplemental increases in annuity for certain eligible retirees. This reserve is fully funded.

Additional Reserves

The following reserves - Child's Annuity Reserve, Duty Disability Reserve, Ordinary Disability Reserve and Expense Reserve - have a \$0 balance at December 31, 2021 and 2020. City contributions are allocated to these reserve accounts in amounts equal to payments made on an annual basis.

Child's Annuity Reserve

Amounts contributed by the City for child's annuity are credited to the Child's Annuity Reserve, and payments of child's annuity are charged to this reserve.

Duty Disability Reserve

The Duty Disability Reserve is increased by the City's contributions for duty disability benefits, child's disability benefits, and compensation annuities and is decreased by the payments of these benefits.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 8 RESERVES (continued)

Ordinary Disability Reserve

Amounts contributed by the City for ordinary disability benefits are credited to the Ordinary Disability Reserve. Payments of ordinary disability benefits are charged to this reserve.

Expense Reserve

Amounts contributed toward the cost of administration are credited to the Expense Reserve. Expenses of administration are also charged to this reserve.

NOTE 9 NET PENSION LIABILITY OF THE FUND

The components of the net pension liability at December 31, 2021 and 2020, were as follows:

	2021	2020
Total pension liability Less: Plan fiduciary net position	\$ 16,340,008,877 3,846,664,456	\$ 15,494,788,710 3,441,946,255
Fund's net pension liability	<u>\$ 12,493,344,421</u>	<u>\$ 12,052,842,455</u>
Fund fiduciary net position as a percentage of total pension liability	23.54%	22.21%

Actuarial Assumptions

In 2020, the actuarial assumptions were changed from the prior actuarial valuation to reflect the results of an experience study performed for the period January 1, 2014 through December 31, 2019. The total pension liability was determined by an actuarial valuation as of December 31, 2021 and 2020, using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	2.25%
Salary increases	3.50% per year, plus additional percentage related to service
Investment rate of return	6.75%

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 9 NET PENSION LIABILITY OF THE FUND (continued)

Actuarial Assumptions (continued)

Cost-of-living adjustments For members hired before January 1, 2011:

3.0% (1.5% for retirees born on or after January 1, 1966, to a maximum of 30%)

For members hired on or after January 1, 2011: 1/2 of CPI-U, maximum 3.0%, to

begin no earlier than age 60.

Mortality rates were based on the Sex Distinct Pub-2010 amount weighted safety healthy retiree mortality tables weighted 119% for post-retirement males and 102% for females, respectively, and 100% for pre-retirement males and females, respectively, and 129% for disabled males and 112% for females, respectively.

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate arithmetic expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These assumptions are converted into nominal assumptions by adding inflation, then combined by weighing them by the target asset allocation percentages. Finally, the arithmetic portfolio expected return is converted into a geometric expected return using assumed asset class standard deviations and correlations. The pension plan's target allocation as of December 31, 2021 and 2020, is summarized in the following tables:

December 31, 2021

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
U.S. equity	29.5%	7.85%
Non-U.S. equity	19.5	9.65
Fixed income	18.0	3.62
Private markets	15.0	11.20
Hedge funds	7.0	5.48
Real estate	<u>11.0</u>	5.99
Total	<u>100</u> %	

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 9 NET PENSION LIABILITY OF THE FUND (continued)

Actuarial Assumptions (continued)

December 31, 2020

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
U.S. equity	21%	5.68%
Non-U.S. equity	21	6.85
Fixed income	22	1.11
Global asset allocation	5	3.89
Private markets	17	7.41
Hedge funds	7	3.30
Real estate	<u>7</u>	5.42
Total	<u>100</u> %	

Single Discount Rate

A Single Discount Rate of 6.26% and 6.28% as of December 31, 2021 and 2020, respectively, was used to measure the total pension liability. These Single Discount Rates were based on an expected rate of return on pension plan investments of 6.75% for 2021 and 2020, and a municipal bond rate of 1.84% and 2.00%, respectively. The projection of cash flows used to determine this Single Discount Rate assumed that plan member contributions will be made at the current contribution rate and that employer contributions will be made under the statutory funding policy. Based on these assumptions, the pension plan's fiduciary net position and future contributions were sufficient to finance the benefit payments only through the year 2077. As a result, the long-term expected rate of return on pension plan investments was applied to projected benefit payments through the year 2077, and the municipal bond rate was applied to all benefit payments after that date.

Regarding the sensitivity of the net pension liability to changes in the Single Discount Rate, the following presents the plan's net pension liability, calculated using a Single Discount Rate of 6.26% and 6.28% as of December 31, 2021 and 2020, respectively, as well as what the plan's net pension liability would be if it were calculated using a Single Discount Rate that is 1-percentage-point lower or 1-percentage-point higher:

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 9 NET PENSION LIABILITY OF THE FUND (continued)

Single Discount Rate (continued)

Sensitivity of net pension liability to the Single Discount Rate assumption as of December 31, 2021:

	Single Discount	
1% Decrease 5.26%	Rate Assumption 6,26%	1% Increase 7.26%
\$ 14,532,722,298	\$ 12,493,344,421	\$ 10,796,707,547

Sensitivity of net pension liability to the single discount rate assumption as of December 31, 2020:

1% Decrease 5.28%	Single Discount Rate Assumption 6.28%	1% Increase 7.28%
\$ 13,984,309,803	\$ 12,052,842,455	\$ 10,444,664,466

NOTE 10 DEFERRED COMPENSATION PLAN

The Fund offers its employees a deferred compensation plan created in accordance with Internal Revenue Code Section 457. The plan, available to all employees of the Fund, permits them to defer a portion of their salary until future years. Participation in the plan is optional. Accumulated balances within deferred compensation accounts are not available to employees until termination, retirement, death, or unforeseeable emergency. The plan is managed by a third-party administrator.

The assets of the plan are deposited in trust accounts with the plan administrator for the exclusive benefit of participants and their beneficiaries and are not considered assets of the Fund.

NOTE 11 LEASE AGREEMENT

The Fund leases its office facilities under a non-cancelable agreement. The current lease commenced on July 1, 2016, and was renewed for 16 years through 2032. The new lease agreement includes an abatement clause during the term of the new lease.

Office rental expense amounted to \$372,984 and \$355,856 for the years ended December 31, 2021 and 2020, respectively.

(A Component Unit of the City of Chicago) Notes to Financial Statements Years Ended December 31, 2021 and 2020

NOTE 11 LEASE AGREEMENT (continued)

Future minimum rental payments, net of abatement provisions under the office lease at December 31, 2021, are as follows:

<u>Year</u>	A	Amount		
2022	\$	361,600		
2023		368,832		
2024		376,209		
2025		383,733		
2026		391,408		
2027 and thereafter		<u>2,295,853</u>		
	<u>\$</u> 4	<u>,177,635</u>		

NOTE 12 RISK MANAGEMENT

The Fund is exposed to various risks of loss related to tort, theft of, damage to, and destruction of assets; errors and omissions; injuries to employees; and natural disasters. The Fund carries commercial insurance to reduce its exposure to risk of loss. There is no significant change in insurance coverage from year to year. Settled claims resulting from these risks have not exceeded commercial insurance coverage in any of the past three fiscal years.

NOTE 13 CONTINGENCIES

In July 2013, a group of plaintiffs purporting to represent annuitants in four Chicago public pension funds filed a civil action, *Underwood v. City of Chicago* et. al. (13-CH-17450; 1-17-162356), seeking class certification and an order requiring the City and the defendant pension funds to continue subsidizing annuitant healthcare insurance premiums past the June 30, 2013, statutory expiration date. Following years of litigation, on June 29, 2017, the Illinois Appellate Court issued an order which in part affirmed the Circuit Court's dismissal order and held: (i) annuitants did not have a right to lifetime healthcare coverage; and (ii) the subsidies pursuant to the 1983 and 1985 amendments is the sole benefit protected under the pension protection clause of the Illinois Constitution, Accordingly, those eligible annuitants in the Appellate Court expanded class, and as further defined after remand in the Circuit Court's February 28, 2019 order, are entitled to continue to receive the 1983 provided subsidies (related to the police and fire funds) of \$55 per month if non-Medicareeligible and \$21 per month if Medicare-eligible. While the plaintiffs continue to raise certain objections, the pension funds nevertheless, in accordance with the rulings made, have commenced payment of the subsidies to those defined eligible annuitants as of January 1, 2017 and thereafter.



(A Component Unit of the City of Chicago)
Required Supplementary Information
Schedule of Changes in Net Pension Liability
As of December 31 - Last 8 Years
(Unaudited)

	2021	2020	2019	2018	2017	2016	2015	2014
Total pension liability								
Service cost, including pension plan								
administrative expense	\$ 284,707,281	\$ 286,536,580	\$ 240,383,419	\$ 242,998,341	\$ 237,333,255	\$ 220,569,553	\$ 213,584,647	\$ 199,435,084
Interest on the total pension liability	963,417,573	942,623,431	944,738,703	931,731,201	917,720,267	851,098,457	832,972,131	791,693,017
Benefit changes	-	-	24,216,420	-	-	606,249,791	-	-
Difference between expected and actual experience	450,528,053	61,913,883	(68,010,227)	(281,150,986)	(299,923,560)	1,801,353	(105,968,891)	-
Assumption changes	37,028,703	260,021,116	1,140,418,080	(259,051,713)	238,975,508	112,585,241	-	845,070,287
Benefit payments	(869,310,502)	(828,901,654)	(791,839,040)	(764,367,368)	(737,873,928)	(696,491,103)	(668,950,080)	(645,688,934)
Refunds	(17,766,049)	(12,696,058)	(8,828,904)	(6,737,073)	(10,017,655)	(10,704,842)	(7,826,847)	(8,991,636)
Pension plan administrative expense	(3,384,892)	(4,310,938)	(4,734,467)	(4,626,599)	(4,843,012)	(4,749,762)	(4,508,519)	(4,240,625)
Net change in total pension liability	845,220,167	705,186,360	1,476,343,984	(141,204,197)	341,370,875	1,080,358,688	259,302,441	1,177,277,193
Total pension liability – beginning	15,494,788,710	14,789,602,350	13,313,258,366	13,454,462,563	13,113,091,688	12,032,733,000	11,773,430,559	10,596,153,366
Total pension liability – ending (a)	16,340,008,877	15,494,788,710	14,789,602,350	13,313,258,366	13,454,462,563	13,113,091,688	12,032,733,000	11,773,430,559
Plan fiduciary net position								
Employer contributions	788,769,979	739,440,979	581,936,012	588,034,930	494,483,191	272,427,716	572,836,100	177,417,827
Employee contributions	136,225,041	113,621,747	110,791,663	107,186,492	103,011,250	101,475,864	107,626,311	95,675,538
Pension plan net investment (loss)								
income	370,141,406	271,890,867	369,982,655	(137,977,182)	412,190,404	142,699,124	(5,333,795)	181,901,293
Benefit payments	(869,310,502)	(828,901,654)	(791,839,040)	(764,367,368)	(737,873,928)	(696,491,103)	(668,950,080)	(645,688,934)
Refunds	(17,766,049)	(12,696,058)	(8,828,904)	(6,737,073)	(10,017,655)	(10,704,842)	(7,826,847)	(8,991,636)
Pension plan administrative expense	(3,384,892)	(4,310,938)	(4,734,467)	(4,626,599)	(4,843,012)	(4,749,762)	(4,508,519)	(4,240,625)
Other	91,594	472,449	32,359	1,600,348	97,239	1,412,770	3,091,545	740,305
Net change in plan fiduciary								
net position	404,766,577	279,517,392	257,340,278	(216,886,452)	257,047,489	(193,930,233)	(3,065,285)	(203, 186, 232)
Plan fiduciary net position -								
beginning	3,441,946,255	3,162,428,863	2,905,179,841	3,122,066,293	2,865,018,804	3,058,949,037	3,062,014,322	3,265,200,554
Adjustment as of January 1,	(48,376)		(91,256)					
Plan fiduciary net position –								
ending (b)	3,846,664,456	3,441,946,255	3,162,428,863	2,905,179,841	3,122,066,293	2,865,018,804	3,058,949,037	3,062,014,322
Net pension liability – ending (a)-(b)	\$ 12,493,344,421	\$ 12,052,842,455	\$ 11,627,173,487	\$ 10,408,078,525	\$ 10,332,396,270	\$ 10,248,072,884	\$ 8,973,783,963	\$ 8,711,416,237

The above information was required beginning in 2014. Information for the next two years will be presented in future years.

(A Component Unit of the City of Chicago)
Required Supplementary Information
Notes to Schedule of Changes in Net Pension Liability
For the Years Ended December 31, 2021 and 2020
(Unaudited)

Beginning of year total pension liability for 2021 used a Single Discount Rate of 6.28% and the benefit provisions, actuarial assumptions and funding policy in effect as of the December 31, 2020 funding actuarial valuation. The Single Discount Rate of 6.28% was based on a long-term expected rate of return on pension plan investments of 6.75% used in the December 31, 2020, funding actuarial valuation for the years 2020 through 2076 and a long-term municipal bond rate as of December 31, 2020, of 2.00% for subsequent years.

End of year total pension liability for 2021 uses a Single Discount Rate of 6.26% and the benefit provisions, actuarial assumptions and funding policy in effect as of the December 31, 2021, funding actuarial valuation. The Single Discount Rate of 6.26% was based on a long-term expected rate of return on pension plan investments of 6.75% used in the December 31, 2020, funding actuarial valuation for the years 2020 through 2077 and a long-term municipal bond rate as of December 31, 2021, of 1.84% for subsequent years.

The increase in the total pension liability for 2021 due to assumption changes and methods includes the impact of the change in the municipal bond rate from December 31, 2020, to December 31, 2021. Changes in actuarial assumptions and methods led to the change in the Single Discount Rate to 6.26% from 6.28% (based on the long-term expected rate of return on pension plan investments of 6.75% used in the December 31, 2021 and 2020 funding valuations and the long-term municipal bond rate of 1.84% as of December 31, 2021 and 2.00% as of December 31, 2020, respectively.) This change was measured at the end of the year using the benefit provisions in effect as of December 31, 2021.

The increase in the total pension liability for 2020 due to assumption changes and methods includes the impact of change in the municipal bond rate from December 31, 2019, to December 31, 2020. Changes in actuarial assumptions and methods led to the change in the Single Discount Rate to 6.28% from 6.43% (based on the long-term expected rate of return on pension plan investments of 6.75% used in the December 31, 2020 and 2019 funding valuations and the long-term municipal bond rate of 2.00% as of December 31, 2020 and 2.75% as of December 31, 2019, respectively.) This change was measured at the end of the year using the benefit provisions in effect as of December 31, 2020.

(A Component Unit of the City of Chicago)
Required Supplementary Information
Schedule of Net Pension Liability
As of December 31 - Last 8 Years
(Unaudited)

	2021	2020	2019	2018	2017	2016	2015	2014
Total pension liability Plan fiduciary net position	\$ 16,340,008,877 3,846,664,456	\$ 15,494,788,710 3,441,946,255	\$ 14,789,602,350 3,162,428,863	\$ 13,313,258,366 2,905,179,841	\$ 13,454,462,563 3,122,066,293	\$ 13,113,091,688 2,865,018,804	\$ 12,032,733,000 3,058,949,037	\$ 11,773,430,559 3,062,014,322
Net pension liability	\$ 12,493,344,421	\$ 12,052,842,455	\$ 11,627,173,487	\$ 10,408,078,525	\$ 10,332,396,270	\$ 10,248,072,884	\$ 8,973,783,963	\$ 8,711,416,237
Plan fiduciary net position as a percentage of total pension liability	23.54%	22.21%	21.38%	21.82%	23.20%	21.85%	25.42%	26.01%
Covered employee payroll	\$ 1,258,338,033	\$ 1,195,980,486	\$ 1,228,986,864	\$ 1,205,324,445	\$ 1,150,406,094	\$ 1,119,526,987	\$ 1,086,607,979	\$ 1,074,333,319
Net pension liability as a percentage of covered employee payroll	992.84%	1007.78%	946.08%	863.51%	898.15%	915.39%	825.85%	810.87%

The above information is required beginning in 2014. Information for the next two years will be presented in future years.

(A Component Unit of the City of Chicago) Required Supplementary Information Schedule of Contributions—Pension Last 10 Years (Unaudited)

Year Ended	Actuarially Determined Contribution (a)*	Actual Contribution (b)	Contribution Deficiency (Excess) (c) = (b)-(a)	Covered Payroll (d)**	Actual Contribution as a % of Covered Payroll (e) = (b)/(d)	Statutory Contribution (f)	Statutory Contribution Deficiency/ (Excess) (g) = (f)-(b)*
12/31/12	431,010,173	197,885,552	233,124,621	1,015,170,686	19.49%	204,329,314	6,443,762
12/31/13	474,177,604	179,521,259	294,656,345	1,015,426,128	17.68%	182,716,690	3,195,431
12/31/14	491,651,208	178,158,132	313,493,076	1,074,333,318	16.58%	178,773,877	615,745
12/31/15	785,500,836	575,927,645	209,573,191	1,086,607,979	53.00%	410,558,466	(165,369,179)
12/31/16	785,695,084	273,840,486	511,854,598	1,119,526,987	24.46%	454,844,486	181,004,000
12/31/17	910,938,497	494,580,430	416,358,067	1,150,406,094	42.99%	500,000,000	(5,419,570)
12/31/18	924,653,899	589,635,278	335,018,621	1,205,324,445	48.92%	557,000,000	(32,635,278)
12/31/19	933,769,914	581,968,371	351,801,543	1,228,986,864	47.35%	579,000,000	(2,968,371)
12/31/20	1,037,582,236	739,913,428	297,668,808	1,195,980,486	61.87%	737,527,285	(2,386,143)
12/31/21	1,047,839,052	788,861,573	258,977,479	1,258,338,033	62.89	786,792,834	(2,068,739)

^{*} The Fund's Statutory Funding does not conform to Actuarial Standards of Practice; therefore, for 2015 and after, the actuarially determined contribution is equal to the normal cost plus a 30-year level dollar amortization of the unfunded actuarial liability. Prior to 2015, the actuarially determined contribution was equal to the "ARC", which was equal to the normal cost plus a 30-year open level percent amortization of the unfunded actuarial liability.

^{**} Covered payroll shown is the amount in force as of the actuarial valuation date and likely differs from actual payroll paid during the fiscal year.

(A Component Unit of the City of Chicago) Required Supplementary Information Notes to Schedule of Contributions—Pension (Unaudited)

Valuation Date: December 31, 2020

Methods and Assumptions Used for Actuarially Determined Contribution for Fiscal Year 2021:

Actuarial Cost Method: Entry-Age Normal

Amortization Method: 30-year open period

Asset Valuation Method: Five-year smoothed market

Inflation: 2.25%

Salary Increases: Salary increase rates based on wage inflation rate of 3.50% plus

service based increases consistent with bargaining contracts

Postretirement Benefit

Increases:

A retiree born before January 1, 1966, with at least 20 years of service or receiving a mandatory retirement minimum annuity, receives an increase of 3% of the original annuity, starting on the first of the month following the first anniversary of his retirement or the first of the month following attainment of age 55, whichever is later, and shall not be subject to a 30% maximum increase. For retirees born on or after January 1, 1966, automatic increases are 1.5% of the original annuity, commencing at age 60, or the first anniversary of retirement, if later, to a maximum of 30%. For participants that first became members on or after January 1, 2011, increases are equal to the

lesser of 3% and 50% of CPI-U of the original benefit,

commencing at age 60.

Investment Rate of

Return:

6.75%

(A Component Unit of the City of Chicago)
Required Supplementary Information
Notes to Schedule of Contributions—Pension *(continued)*(Unaudited)

Methods and Assumptions Used for Actuarially Determined Contribution for Fiscal Year 2021 (continued):

Retirement Age: Experience-based table of rates that are specific to the type of

eligibility condition. Last updated for the December 31, 2019, actuarial valuation pursuant to an experience study for the period

January 1, 2014 through December 31, 2018.

Mortality: Post-Retirement Healthy mortality rates: Sex Distinct Pub-2010

Amount-weighted Safety Employee Mortality Tables weighted 119% for males and 102% for females, set forward one year for

males.

Pre-Retirement mortality rates: Sex Distinct Pub-2010

Amount-weighted Safety Healthy Retiree Mortality Tables weighted

100% for males and 100% for females.

Disabled Mortality: Sex Distinct Pub-2010

Amount-weighted Safety Healthy Retiree Mortality Tables weighted 129% for males and 112% for females, set forward one year for

males.

Future mortality improvements are reflected by projecting the base

mortality tables forward using the MP-2018 projection scale.

Other: The actuarially determined contribution for fiscal year ending

December 31, 2021 was determined in the funding actuarial valuation as of December 31, 2020 and the statutory contribution (upon which the actual contribution was based) for fiscal year ending December 31, 2021 was determined in the funding actuarial valuation as of December 31, 2019, which were both

based on the assumptions summarized above.

Methods and Assumptions Used for Accounting Purposes as of the Valuation Date:

Actuarial Cost Method: Entry Age Normal

Asset Method: Market value

Discount Rate: 6.26% as of the December 31, 2021 actuarial valuation

6.28% as of the December 31, 2020 actuarial valuation

(A Component Unit of the City of Chicago)
Required Supplementary Information
Schedule of Money-Weighted Rate of Return—Pension
(Unaudited)

Year Ended	Annual Money-Weighted Rate of Return, Net of Investment Expense
12/31/14	6.24 %
12/31/15	(0.41)
12/31/16	6.6
12/31/17	16.7
12/31/18	(5.7)
12/31/19	16.31
12/31/20	12.29
12/31/21	13.80

The above information is required beginning in 2014. Information for the next two years will be presented in future years.

(A Component Unit of the City of Chicago)
Required Supplementary Information
Schedule of Changes in Total OPEB Liability – Staff Retiree Healthcare Plan
As of December 31 – Last 4 Years
(Unaudited)

	 2021	 2020	2019		 2018	
Total OPEB liability						
Service cost	\$ 95,032	\$ 101,259	\$	83,294	\$ 93,951	
Interest on the total pension liability	45,221	70,229		82,713	75,485	
Changes of benefit terms	(1,040,799)	-		-	-	
Difference between expected and actual						
experience of the total OPEB liability	169,830	(304,583)		(11,367)	-	
Changes of assumption	45,990	(53,712)		266,289	(101,657)	
Benefits payments	 (104,769)	 (100,933)		(109,992)	 (117,063)	
Net change in total OPEB liability	\$ (789,495)	\$ (287,740)	\$	310,937	\$ (49,284)	
Total plan assets	\$ 	\$ 	\$		\$ _	
Total OPEB liability - beginning	\$ 2,265,881	\$ 2,553,621	\$	2,242,684	\$ 2,291,968	
Total OPEB liability - ending	\$ 1,476,386	\$ 2,265,881	\$	2,553,621	\$ 2,242,684	
Covered-employee payroll	\$ 1,690,071	\$ 1,639,092	\$	1,492,077	\$ 1,630,338	
Total OPEB liability as a percentage of covered-employee payroll	87.36%	138.24%		171.15%	137.56%	

The above information is required beginning in 2018. Information for the next six years will be presented in future years.



(A Component Unit of the City of Chicago) Schedule of Administrative Expenses For the Years Ended December 31, 2021 and 2020

	2021	2020		
Administrative expenses				
Actuary services	\$ 75,500	\$ 76,050		
Benefits disbursement	294,277	402,858		
Equipment service and rent	54,708	55,722		
External auditors	57,803	40,696		
Fiduciary insurance	208,770	195,849		
Legal services	212,885	176,192		
Medical consultants	342,389	302,457		
Miscellaneous	127,184	118,001		
Penson administration	138,240	134,160		
Occupancy and utilities	378,592	361,405		
Personnel salaries and benefits	1,441,319	2,458,784		
Postage	10,000	10,000		
Supplies	8,438	6,533		
Trustee election	34,787	20,607		
Total administrative expenses	\$ 3,384,892	\$ 4,359,314		

(A Component Unit of the City of Chicago)
Schedule of Consulting Costs
For the Years Ended December 31, 2021 and 2020

	2021			2020		
Payments to consultants						
External auditors	\$	57,803		\$	40,696	
Medical consultants		342,389			302,457	
Legal services		212,885			176,192	
Actuary service		75,500			76,050	
Investment management fees		8,208,316			7,425,643	
Custodial fees		304,305			302,722	
Investment consulting and other fees		426,295	,		420,410	
Total consulting costs	\$	9,627,493	;	\$	8,744,170	

(A Component Unit of the City of Chicago) Schedule of Investment Fees For the Years Ended December 31, 2021 and 2020

	2021		2020			
Investment managers						
Acadian Asset Manager	\$	898,827	\$	871,931		
Ariel Capital Management	,	352,540	•	_		
Artisan Partners		499,784		714,819		
Blackrock		67,342		128,224		
Blueprint Capital		, -		(61,393)		
BMO Asset Management		555,921		572,880		
Chicago Equity Partners		_		52,075		
Earnest Partners		840,297		754,942		
Garcia Hamilton		178,383		182,733		
Great Lakes Advisors		322,780		366,012		
HGK Asset Management		48,856		86,758		
ING Clarion		-		590		
Lazard Asset Management		468,962		426,753		
MacKay Shields LLC		2,110		_		
Manulife Asset Management		93,047		91,446		
National Investment Services		504,564		486,563		
Northern Trust Global Investments - Index Funds		106,907		46,150		
Pluscios Management, LLC		279,841		227,485		
UBS Global Asset Management		569,516		277,835		
UBS Realty Investors		112,297		90,342		
Ullico Infrastructure Fund		754,337		885,919		
Voya Collective Trust		49,797		46,729		
Wellington Management		322,416		193,030		
William Blair & Co.	-	1,179,792		983,820		
Total investment manager fees		8,208,316		7,425,643		
Investment consultants and other						
NEPC LLC		426,295		420,410		
Total investment consultants and other		426,295		420,410		
Master custodian						
The Northern Trust Company		304,305		302,722		
Total investment fees	\$	8,938,916	\$	8,148,775		

