County Employees' and Officers' Annuity and Benefit Fund of Cook County

A Component Unit of Cook County, Illinois



COMPREHENSIVE ANNUAL FINANCIAL REPORT

For the Fiscal Years Ended December 31, 2014 and 2013

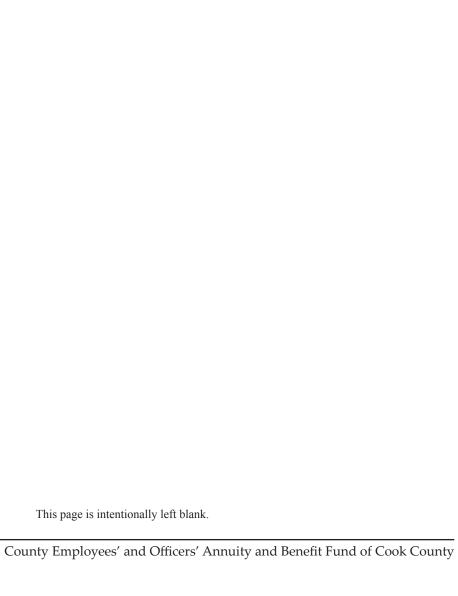
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A Component Unit of Cook County, Illinois

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For the Fiscal Years Ended December 31, 2014 and 2013

Prepared by the staff of the County Employees' and Officers' Annuity and Benefit Fund of Cook County



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This section provides information regarding the County Employees' and Officers' Annuity and Benefit Fund of Cook County's Certificate of Achievement, Board of Trustees, consultants, and organizational structure, as well as a letter of transmittal.

Certificate of Achievement



Government Finance Officers Association

Certificate of Achievement for Excellence in Financial Reporting

Presented to

County Employees' and Officers' Annuity and Benefit Fund of Cook County, Illinois

For its Comprehensive Annual
Financial Report
for the Fiscal Year Ended

December 31, 2013

Executive Director/CEO

Kray K. Emer

Principal Officials

Retirement Board

Alexis Herrera

President

Elected Cook County Employee

Brent Lewandowski

Vice-President

Elected Cook County Employee

John E. Fitzgerald

Elected Cook County Annuitant

Diahann Goode

Elected Cook County Employee

Robert Janura

Elected Forest Preserve District Annuitant (resigned July 9, 2015)

Patrick J. McFadden

Secretary

Elected Cook County Annuitant

Patrick Nester

Ex Officio Cook County Treasurer (Designee)

Samuel Richardson, Jr.

Elected Forest Preserve District Employee

Lawrence L. Wilson, CPA

Ex Officio Cook County Comptroller

Professional Consultants

Legal Counsel

Burke Burns & Pinelli, Ltd.

Investment Consultant

Callan Associates, Inc.

Master Custodian

BNY Mellon

Auditor

Legacy Professionals, LLP

Consulting Actuary

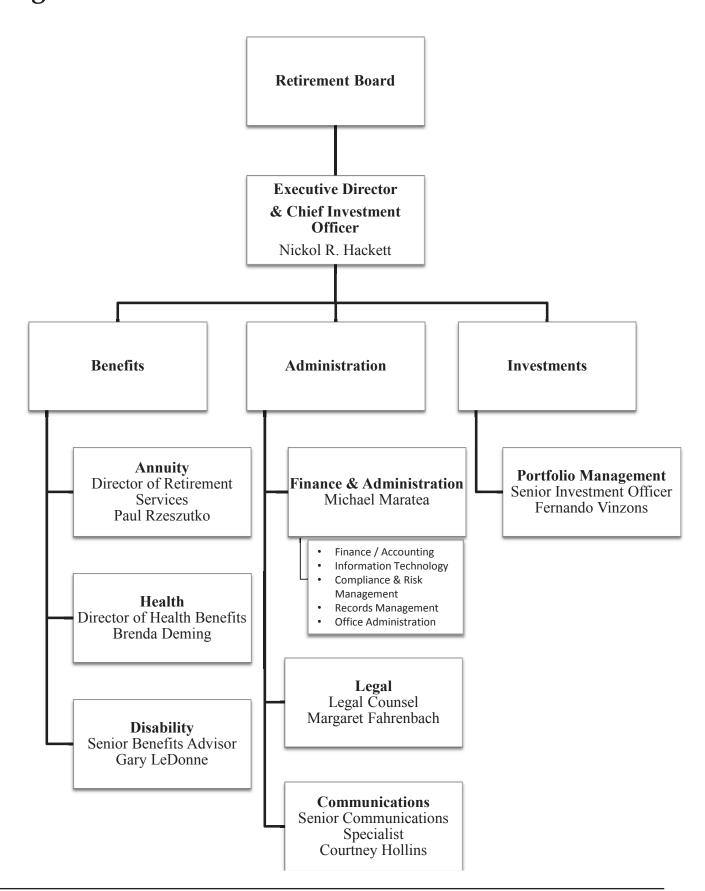
Buck Consultants, LLC

Custodian

Cook County Treasurer

Investment Managers are listed on page 70-71. Brokers used by Investment Managers are listed on pages 72-73.

Organizational Chart



Letter of Transmittal



October 2, 2015

Retirement Board
County Employees and Officers' Annuity and Benefit Fund of Cook County
and *ex officio* for the Forest Preserve District Employees' Annuity and Benefit Fund of Cook County
33 N Dearborn St, Suite 1000
Chicago, IL 60602

To the Retirement Board and Members of the Fund:

We are pleased to submit to you the Comprehensive Annual Financial Report ("CAFR") of the County Employees' and Officers' Annuity and Benefit Fund of Cook County ("the Fund") for the calendar year ended December 31, 2014. The contents of this report, including the financial, investment, actuarial, and statistical information contained herein, are the responsibility of the management of the Fund.

To the best of our knowledge and belief, the information contained in this report is complete and accurate in all material respects. This report is provided to allow the reader to gain an understanding of the Fund's financial position and operational activities. Readers should review this report in conjunction with the Management's Discussion and Analysis (MD&A) found in the Financial Section.

Fund Profile

As of December 31, 2014, the Fund consisted of 21,656 active employees, 14,437 retirement annuitants, 2,639 survivor annuitants, and 13,194 inactive members.

The Fund was established in 1926 by an act of the Illinois General Assembly and is administered in accordance with 40 ILCS 5/9-101, et seq. It is a defined benefit pension plan that provides retirement, survivor, death, health, and disability benefits to qualified employees and retirees of Cook County and their eligible dependents and beneficiaries. The Fund is considered to be a component unit of Cook County, Illinois, and is included in the County's financial statements as a pension trust fund.

The Fund is governed by a nine-member Retirement Board ("Board"). The Comptroller and Treasurer of Cook County, or their designees, serve as *ex officio* Trustees. The remaining Trustees are elected as follows: three from among the active employees of Cook County, two from the annuitants of the Fund, one from the active employees of the Forest Preserve District, and one from the annuitants of the Forest Preserve District Employees' Annuity and Benefit Fund of Cook County ("Forest Preserve Fund"). Elected Trustees serve staggered three-year terms, so that not more than three positions are up for election each year.

The Board's authority to invest the Fund's assets is governed by 40 ILCS 5/1-101 et seq. and 40 ILCS 5/9-101 et seq. The Fund's Investment Policy, which provides additional strategies and safeguards for the Fund's investment objectives, can be found at CookCountyPension.com.

The Fund has common trustees and shares office space and administrative services with the Forest Preserve Fund.

County Employees' and Officers' Annuity and Benefit Fund of Cook County
Forest Preserve District Employees' Annuity and Benefit Fund of Cook County
33 N Dearborn St, Suite 1000 | Chicago, IL 60602 | 312.603.1200 | 312.603.9760 fax | www.cookcountypension.com

Letter of Transmittal (continued)

Summary of Financial Experience

The following table summarizes the changes in the Fund's net position between December 31, 2013 and December 31, 2014 (numbers in millions):

	2014	2013	Cha	nge
Total additions	\$818.0	\$1,503.4	(\$685.4)	(45.6%)
Total deductions	\$677.0	\$ 636.0	\$ 41.0	6.4%
Change in net position from prior year	\$141.0	\$ 867.4	(\$726.4)	(83.7%)

Investments

At year-end, the total invested assets of the Fund were valued at \$8.8 billion compared to \$8.7 billion at the end of 2013. The investment portfolio's net rate of return for the year ended December 31, 2014 was 5.9% compared to 15.1% for the previous year. For the sixth consecutive year, the Cook County Fund generated positive absolute returns for its members by returning approximately \$516 million in investment income before benefit payments in 2014. For the second consecutive year, strong performance from domestic equity strategies was the largest contributor to performance, led by outperformance by all of the small/mid cap strategies. Domestic markets across all asset classes positively contributed to portfolio performance.

The Board works to maintain a diversified asset allocation designed to exceed the Fund's 7.5% long-term actuarial rate of return within acceptable risk parameters. The Fund continues to review the asset allocation for 2014 and rebalanced approximately \$1.8 billion among domestic equities, core fixed income, global fixed income, private equity, international equity, and real estate.

Additional information regarding performance and investment professionals who provide services to the Fund can be found in the Investment Section.

Funding

The Fund engages an independent actuary, Buck Consultants, LLC, to perform an actuarial valuation on an annual basis pursuant to the provisions of the Illinois Pension Code. As of December 31, 2014, the Fund's combined actuarial accrued liability for pension and retiree health benefits was \$15.3 billion and the actuarial value of assets was \$8.8 billion, resulting in an unfunded actuarial accrued liability of \$6.5 billion. The funded ratio (the ratio of assets to liabilities) for pension and retiree health benefits combined was 57.5% (vs. 56.6% in 2013). The Fund's actuarial accrued liability for pension benefits only was \$14.1 billion and the actuarial value of assets was \$8.8 billion, resulting in an unfunded liability of \$5.3 billion and a funded ratio of 62.3%. The Fund's actuarial accrued liability for retiree health benefits was \$2.0 billion. Because there are no dedicated assets for retiree health benefits, the actuarial value of assets was \$0, resulting in an unfunded liability of \$2.0 billion and a funded ratio of 0.0%.

The increase in unfunded liability in 2014 was due to employer contributions plus interest being less than normal cost and interest on unfunded liability. The employer contribution did not meet the Fund's actuarial needs in 2014. The employer contribution is determined as a multiple of employee contributions from two years earlier. As identified by the actuary, in the absence of action by the legislature to establish an actuarially based funding policy, the funded ratio is expected to trend downward until the Fund's assets are exhausted in 2039.

Additional information regarding funding can be found in the Actuarial Section.

2014 Initiatives

Key initiatives in 2014 continued to center on enhancing communications to stakeholder groups, member services, organizational flexibility, systems and performance measurement, and liability and risk management. As the annuitant membership grows, the Fund continually reviews its strategic and operating imperatives to maintain quality member service.

Benefits Administration

Approximately 50% of annuitants utilize the Fund's health benefits offering and pharmacy coverage. In the absence of dedicated funding, the Board and Fund staff developed a strategy in 2013 for cost management and member engagement, designed to reduce the cost of the program with minimal member disruption. A result of this strategy, effective January 1, 2015, the United Healthcare Choice and Choice Plus plans replaced the prior plan options. Successful contract renegotiation and a change in the funding methodology are projected to reduce expenses in 2015.

The Fund maintains its commitment to delivering high-touch customer service amid high volumes of benefit requests, processing over 900 retirement applications in the past year. Member engagement remains a primary focus as the Fund implemented targeted stakeholder campaigns and enhanced member communications to address issues ranging from retiree health benefits to local pension reform efforts.

The Fund continued to transition from paper to electronic document management in 2014. Systems enhancements improved workflow and collaboration between departments, leading to increased efficiency of benefits administration and enhanced information security.

Legislation

The Cook County administration introduced a pension reform bill, HB1154 (Senate Amendment 2), in the Illinois Senate on May 27, 2014. HB1154 passed the Senate, however was not called for a vote in the House before the end of the 2014 legislative session. As a result, no changes to benefits or funding related to the bill moved forward in 2014. The County's pension reform proposal aims to return the Cook County and Forest Preserve District Funds to 100% funding in 30 years. Under current conditions, the Fund receives insufficient contributions to meet cumulative benefit obligations and are projected to become insolvent in 2039. The new proposal would provide for increased employer and employee contributions.

Throughout 2014, the Board and Fund staff continued to allocate resources to tracking and analysis of legislation that would impact public pensions, particularly with respect to pension reform efforts at the Illinois General Assembly.

Accounting System & Internal Control

This report and the financial statements included within were prepared to conform to the principles of governmental accounting and reporting pronounced by the Governmental Accounting Standards Board and the American Institute of Certified Public Accountants.

The financial statements were prepared using the accrual basis of accounting. Under the accrual basis, revenues are recognized in the accounting period in which they are earned, without regard to the date of collection, and expenses are recognized when the corresponding liabilities are incurred, regardless of when payment is made.

The Fund maintains a system of internal controls to adequately safeguard its assets and assure the reliability of its

Letter of Transmittal (continued)

financial records. The controls are designed to provide reasonable, but not absolute, assurance that these objectives are met. The concept of reasonable assurance recognizes that first, the cost of the control should not exceed the benefits likely to be derived, and second, the valuation of the cost and benefits requires estimates and judgments by management. Management and the outside auditor continually review the controls for adequacy.

The financial statements included in this report were audited by Legacy Professionals, LLP, who have issued an unqualified opinion for calendar year ended December 31, 2014. A copy of their report is contained in the Financial Section.

Awards

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the Fund for its CAFR for the fiscal year ended December 31, 2013. This was the fifth year that the Fund has earned this prestigious award. In order to be awarded a Certificate of Achievement, the Fund must publish an easily readable and efficiently organized comprehensive annual financial report. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of one year only. We believe that this current CAFR continues to meet the Certificate of Achievement Program's requirements, and we are submitting it to the GFOA to determine its eligibility for another certificate.

Acknowledgments

This report was prepared through the combined efforts of the Fund's staff under the direction of the Board. On behalf of the Board, I would like to thank the staff and professional consultants for their efforts in compiling this report.

Respectfully submitted,

Niche R. Harboll

Nickol R. Hackett

Executive Director and Chief Investment Officer



This section contains the report of the independent auditors, financial statements, analysis, and supplemental financial information.

Report of Independent Auditors



REPORT OF INDEPENDENT AUDITORS

To the Board of Trustees of County Employees' and Officers' Annuity and Benefit Fund of Cook County

Report on the Financial Statements

We have audited the accompanying financial statements of County Employees' and Officers' Annuity and Benefit Fund of Cook County (the Plan), a component unit of Cook County, Illinois, which comprise the combining statements of pension plan fiduciary net position and postemployment healthcare plan net position as of December 31, 2014 and 2013, and the related combining statements of changes in pension plan fiduciary net position and postemployment healthcare plan net position for the years then ended, and the related notes to the financial statements, which collectively comprise the Plan's basic financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes 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.

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement.

An audit includes performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Plan's preparation and fair presentation of the financial statements 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, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to in the first paragraph present fairly, in all material respects, the plan net position of County Employees' and Officers' Annuity and Benefit Fund of Cook County as of December 31, 2014 and 2013, and the changes in plan net position for the years then ended, in conformity with accounting principles generally accepted in the United States of America.

Emphasis of Matter

As discussed in Note 1, the Plan implemented GASB Statement No. 67, *Financial Reporting for Pension Plans*. As a result, the financial statements now include substantially different note disclosures and required supplementary information. Our opinion is not modified with respect to this matter.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the Management's Discussion and Analysis and the required supplementary information, consisting of the schedule of changes in the employer's net pension liability and related ratios, schedule of employer contributions, schedule of investment returns, schedule of funding progress, schedule of employer contributions and notes to schedule of funding progress and schedule of employer contributions, 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, who 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 auditing standards generally accepted in the United States of America, which consisted of inquires 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 audit 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.

Supplementary Information

Our audits were conducted for the purpose of forming an opinion on the Plan's basic financial statements as a whole. The accompanying supplementary information, consisting of the schedules of net administrative expenses and professional and consulting fees, schedules of investment expenses, additions by source, deductions by type and schedule of employer contributions receivable, is presented for purposes of additional analysis and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audits of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated in all material respects in relation to the basic financial statements as a whole.

Report of Independent Auditors (continued)

Other Matters (continued)

Previously Audited Information

We also have previously audited the basic financial statements for the years ended December 31, 2012, 2011, 2010, and 2009 (which are not presented herein), and we expressed unmodified opinions on those financial statements. In our opinion, the previously audited information presented on the additions by source and deductions by type is fairly stated in all material respects in relation to the basic financial statements from which it has been derived.

Legacy Professionals LLP
Chicago, Illinois

October 2, 2015



Management's Discussion and Analysis (Unaudited)

This section presents Management's Discussion and Analysis of the financial position and performance of the County Employees' and Officers' Annuity and Benefit Fund of Cook County (Plan) for the years ended December 31, 2014 and 2013. This discussion is presented as an overview of the financial activities of the Plan and should be read in conjunction with the Plan's financial statements.

Overview of the Basic Financial Statements

The following discussion and analysis is intended to serve as an introduction to the Plan's basic financial statements. The financial statements are prepared on an economic sources focus and accrual basis of accounting in accordance with Governmental Accounting Standards Board (GASB) pronouncements. The basic components of the financial package are described below:

Combining Statements of Pension Plan Fiduciary Net Position and Postemployment Healthcare Plan Net Position provides a snapshot of account balances and net position held in trust for future benefit payments and any liabilities as of the Plan's year end. Over time increases and decreases in net position may serve as a useful indicator of whether the financial position of the Plan is improving or deteriorating.

Combining Statements of Changes in Pension Plan Fiduciary Net Position and Postemployment Healthcare Plan Net Position shows the revenues (additions) and expenses (deductions) during the year, where additions less deductions equal net increase (decrease) in net position. The net increase (decrease) in net position reports the change in net position as reported in the combining Statements of Changes in Pension Plan Fiduciary Net Position and Postemployment Healthcare Plan Net Position of the prior year and the current year.

Notes to the Financial Statements provides additional information that is essential to achieving a better understanding of the data provided in the basic financial statements.

Required Supplementary Information provides schedules and related notes concerning actuarial information, funding progress and employer contributions.

Supplementary Information includes schedules of net administrative expenses, professional and consulting fees, investment expenses, additions by source, deductions by type and employer contributions receivable.

Financial Highlights

Net position increased by \$141,032,124 or 1.6% from \$8,927,366,656 at December 31, 2013 to \$9,068,398,780 at December 31, 2014. Comparatively, net position increased by \$867,431,028 or 10.8% from \$8,059,935,628 at December 31, 2012 to \$8,927,366,656 at December 31, 2013. The change in net position for both years was primarily due to the increase in the fair market value of the investments.

The rate of return of the Plan's investment portfolio was 5.9% for 2014, 15.1% for 2013 and 12.5% for 2012.

Net Position

The condensed Combining Statements of Pension Plan Fiduciary Net Position and Postemployment Healthcare Plan Net Position reflects the resources available to pay benefits to members. A summary of the Combining Statements of Pension Plan Fiduciary Net Position and Postemployment Plan Net Position is as follows

	Plan Net Position as of December 31,			Current Year	
	<u>2014</u>	<u>2013</u>	<u>2012</u>	Dollars	Percent
Total assets	\$10,527,247,093	\$10,317,067,570	\$8,660,955,128	\$210,179,523	2.0%
Total liabilities	1,458,848,313	1,389,700,914	601,019,500	69,147,399	5.0%
Net position	\$ 9,068,398,780	\$ 8,927,366,656	\$8,059,935,628	\$141,032,124	1.6%

Changes in Plan Net Position

The condensed combining Statements of Changes in Pension Plan Fiduciary Net Position and Postemployment Healthcare Plan Net Position reflects the changes in the resources available to pay benefits to members. A summary of the Changes in Pension Plan Fiduciary Net Position and Postemployment Healthcare Plan Net Position is as follows:

	Chan	ges in Plan Net Posit	Current Year		
	Y	ears Ended Decemb	Increase/(Decrease) in		
	<u>2014</u>	<u>2013</u>	<u>2012</u>	Dollars	Percent
Additions					
Employer contributions	\$ 190,032,872	\$ 187,817,644	\$ 190,720,776	\$ 2,215,228	1.2%
Employee contributions	129,325,318	127,593,220	128,869,508	1,732,098	1.4%
Investment income					
(includes securities lending activities) 488,890,897	1,179,440,119	887,687,519	(690,549,222)	-58.5%
Other	9,742,062	8,547,729	10,190,689	1,194,333	14.0%
Total additions	817,991,149	1,503,398,712	1,217,468,492	(685,407,563)	-45.6%
Deductions					
Benefits	645,601,458	601,770,020	561,391,035	43,831,438	7.3%
Refunds	26,347,361	29,873,030	33,081,726	(3,525,669)	-11.8%
Administrative expenses	5,010,206	4,324,634	4,303,353	685,572	15.9%
Total deductions	676,959,025	635,967,684	598,776,114	40,991,341	6.4%
Net increase	141,032,124	867,431,028	618,692,378	(726,398,904)	-83.7%
Net position					
Beginning of year	8,927,366,656	8,059,935,628	7,441,243,250	867,431,028	10.8%
End of year	\$9,068,398,780	\$8,927,366,656	\$8,059,935,628	\$ 141,032,124	1.6%

Management's Discussion and Analysis (continued)

Additions to Plan Net Position

Total additions were \$817,991,149 in 2014, \$1,503,398,712 in 2013 and \$1,217,468,492 in 2012.

Employer contributions increased to \$190,032,872 in 2014 from \$187,817,644 in 2013 and decreased from \$190,720,776 in 2012. Employer contributions are statutorily set at 1.54 times employee contributions collected two years prior.

Employee contributions, including permissive service credit purchases, increased to \$129,325,318 in 2014 from \$127,593,220 in 2013 and \$128,869,508 in 2012. The majority of members contribute 8.5% of covered wages.

Net investment income totaled \$488,890,897 for 2014 compared to \$1,179,440,119 for 2013 and \$887,687,519 for 2012. Investment earnings fluctuate primarily from the overall performance of the financial markets from year to year.

Deductions to Plan Net Position

Total deductions were \$676,959,025 in 2014, \$635,967,684 in 2013 and were \$598,776,114 in 2012.

Benefits increased to \$645,601,458 in 2014 from \$601,770,020 in 2013 and \$561,391,035 in 2012 due primarily to the 3% annual cost of living increases for annuitants and an increase in the number of retirees.

Refunds decreased to \$26,347,361 in 2014 from \$29,873,030 in 2013 and \$33,081,726 in 2012. These changes are due to fluctuations in refund applications.

The cost to administer the Plan increased by 15.9% to \$5,010,206 in 2014 from \$4,324,634 in 2013. Comparatively, the cost to administer the Plan increased by .5% to \$4,324,634 in 2013 from \$4,303,353 in 2012.

Actuarial Information

Pension Benefits

The Plan's funding for pension benefits is as follows:

	Funding for Pension Benefits
	For the Years Ended December 31,
<u>2014</u>	<u>2013</u>

	<u>2014</u>	<u>2013</u>	<u>2012</u>
GASB Statement No. 67:			
Employer's net pension liability	\$ 12,877,563,086	\$ 12,190,277,287	N/A
Plan fiduciary net position as a percentage			
of the total pension liability	<u>41.32%</u>	<u>42.27%</u>	N/A
GASB Statement No. 25:			
Unfunded actuarial accrued liability	\$ 5,330,038,283	\$ 5,255,131,890	\$ 5,584,604,017
Funded ratio	<u>62.31%</u>	61.46%	58.38%

The Plan adopted GASB Statement No. 67, *Financial Reporting for Pension Plans* during the year ended December 31, 2014. See Note 1 in the financial statements for further information.

For the purposes of comparability in this year of transition, the funding information for pension benefits reflects both GASB Statement No. 67 and the previously adopted GASB Statement No. 25, *Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans*. The employer's net pension liability and plan fiduciary net position as a percentage of the total pension liability as of December 31, 2012 is not available.

The primary difference between the employer's net pension liability (GASB Statement No. 67) and the unfunded actuarial accrued liability (GASB Statement No. 25) is the use of a blended investment rate of return as required under GASB Statement No. 67. This has significantly increased the liability.

Management's Discussion and Analysis (continued)

Actuarial Information (continued)

Postemployment Healthcare Benefits

Under GASB Statement No. 43, *Financial Reporting for Postemployment Benefit Plans OtherThan Pension Plans*, the Plan's funding for postemployment healthcare benefits is as follows:

Funding for Postemployment Healthcare Benefits For the Years Ended December 31,

	<u>2014</u>	<u>2013</u>	<u>2012</u>
Unfunded actuarial accrued liability	\$ 1,980,088,617	<u>\$ 1,978,767,490</u>	\$ 1,845,609,132
Funded ratio	0.00%	0.00%	0.00%

Contributions for postemployment healthcare benefits are made on a "pay-as-you-go" basis, resulting in a 0.00% funded ratio.

Combined

The Plan actuary has performed a combined valuation of the pension and postemployment healthcare benefits provided by the Plan to measure the overall funded status and contribution requirements of the Plan. Such a valuation is required under Chapter 40, Article 5/9-199 of the Illinois Pension Code which provides that the Plan shall submit a report each year containing a detailed statement of the affairs of the Plan, its income and expenditures, and assets and liabilities. The combined valuation reflects the actuarial assumptions adopted by the Board based on the results of an actuarial experience study. These assumptions conform to the actuarial standards recommended by the Plan's actuary and were used by the Plan's actuary to present the combined funding status in accordance with Section 9-199. The Plan's funding under the combined actuarial valuation is as follows:

Funding for Combined Pension and Postemployment Healthcare Benefits For the Years Ended December 31,

	<u>2014</u>	<u>2013</u>	<u>2012</u>
Unfunded actuarial accrued liability	\$ 6,508,281,618	\$ 6,430,643,390	\$ 6,796,368,029
Funded ratio	<u>57.51%</u>	<u>56.59%</u>	<u>53.55%</u>

Management's Discussion and Analysis (continued)

Contact Information

This financial report is designed to provide the employer, Plan participants and others with a general overview of the Plan's finances and show accountability for money it receives. Questions concerning any data provided in the report or requests for additional information should be addressed to:

County Employees' and Officers' Annuity and Benefit Fund of Cook County Attention: Executive Director 33 North Dearborn Street Suite 1000 Chicago, IL 60602

Combining Statements of Pension Plan Fiduciary Net Position and Postemployment Healthcare Plan Net Position

Year Ended December 31, 2014				
<u>ASSETS</u>	<u>Total</u>	<u>Pension</u>	Postemployment <u>Healthcare</u>	
Receivables				
Employer contributions less allowance of				
+ - · , · - · , - · · · · · · · · · · · ·	\$ 199,576,926	\$ 189,773,898	\$ 9,803,028	
Employee contributions	1,995,317	1,995,317	-	
Accrued investment income	22,205,338	22,205,338	-	
Receivable for securities sold	162,275,218	162,275,218	-	
Due from Forest Preserve District Employees' Annu	•	5.40.065		
and Benefit Fund of Cook County	542,267	542,267	-	
Medicare Part D subsidy	1,286,803	1,286,803	-	
Other Total massivables	505,003	505,003	0.002.020	
Total receivables	388,386,872	378,583,844	9,803,028	
Investments				
U.S. and international equities	4,110,040,451	4,110,040,451	-	
U.S. Government and government agency obligations	1,109,668,190	1,109,668,190	-	
Corporate bonds	857,209,577	857,209,577	-	
Collective international equity fund	57,477,592	57,477,592	-	
Commingled fixed income fund	25,893,428	25,893,428	-	
Private global fixed fund limited partnership	199,275,761	199,275,761	-	
Exchange traded funds	607,454,824	607,454,824	-	
Private equities	86,623,407	86,623,407	-	
Hedge funds	800,093,500	800,093,500	-	
Real estate	388,902,521	388,902,521	-	
Short-term investments	587,544,323	587,544,323		
Total investments	8,830,183,574	8,830,183,574		
Collateral held for securities on loan	1,308,676,647	1,308,676,647	_	
	10,527,247,093	10,517,444,065	9,803,028	
<u>LIABILITIES</u>				
Accounts payable	5,031,192	5,031,192		
Healthcare insurance payable	9,803,028	3,031,192	9,803,028	
Payable for securities purchased	135,337,446	135,337,446	7,003,020	
Securities lending collateral	1,308,676,647	1,308,676,647	_	
Total liabilities	1,458,848,313	1,449,045,285	9,803,028	
Networking				
Net position	0.069.209.790	0.060.200.700		
Net position held in trust for	9,068,398,780	9,068,398,780	-	
Net position held in trust for postemployment healthcare benefits				
	<u>+0.069.209.790</u>	<u>\$0,069,209,790</u>	<u>-</u>	
Total	\$9,068,398,780	\$9,068,398,780	<u> </u>	
See accompanying notes to financial statements.				

Combining Statements of Pension Plan Fiduciary Net Position and Postemployment Healthcare Plan Net Position (continued)

Year Ende	ed December 31,	, 2013	
<u>ASSETS</u>	<u>Total</u>	<u>Pension</u>	Postemployment <u>Healthcare</u>
Receivables			
Employer contributions less allowance of			
\$10,596,808 in 2013	\$ 209,311,706	\$ 199,986,316	\$ 9,325,390
Employee contributions	2,145,420	2,145,420	-
Accrued investment income	22,451,594	22,451,594	-
Receivable for securities sold	80,795,327	80,795,327	-
Due from Forest Preserve District Employees' Annu	•	460.000	
and Benefit Fund of Cook County	462,893	462,893	-
Medicare Part D subsidy	947,659	947,659	-
Other	818,644	818,644	
Total receivables	316,933,243	307,607,853	9,325,390
Investments			
U.S. and international equities	4,233,234,375	4,233,234,375	-
U.S. Government and government agency obligations		1,238,436,393	-
Corporate bonds	823,905,648	823,905,648	-
Collective international equity fund	56,828,124	56,828,124	-
Commingled fixed income fund	25,540,920	25,540,920	-
Private global fixed fund limited partnership	-	-	-
Exchange traded funds	526,730,533	526,730,533	-
Private equities	61,576,550	61,576,550	-
Hedge funds	756,879,345	756,879,345	-
Real estate	425,123,417	425,123,417	-
Short-term investments	555,524,046	555,524,046	
Total investments	8,703,779,351	8,703,779,351	
Collateral held for securities on loan	1,296,354,976	1,296,354,976	_
Total assets	10,317,067,570	10,307,742,180	9,325,390
<u>LIABILITIES</u>			
Accounts payable	4,694,086	4,694,086	_
Healthcare insurance payable	9,325,390	4,094,000	9,325,390
Payable for securities purchased	79,326,462	79,326,462	7,525,570
Securities lending collateral	1,296,354,976	_1,296,354,976	_
Total liabilities	1,389,700,914	1,380,375,524	9,325,390
Not resition			
Net position	9 027 266 656	0 007 266 656	
Net position restricted for pensions Net position held in trust for	8,927,366,656	8,927,366,656	-
postemployment healthcare benefits			
Total	\$8,927,366,656	\$8,927,366,656	-
			*
See accompanying notes to financial statements.			

Combining Statements of Changes in Pension Plan Fiduciary Net Position and Postemployment Healthcare Plan Net Position

Voon	Endad	December	21	2014
rear	Luaea	December	31.	4 014

Additions	<u>Total</u>	<u>Pension</u>	Postemployment <u>Healthcare</u>
Employer contributions	\$ 190,032,872	\$ 146,075,414	\$ 43,957,458
Employee contributions	·	 	<u> </u>
Salary deductions	124,443,943	124,443,943	-
Refund repayments	2,386,762	2,386,762	-
Former and miscellaneous service payments	630,942	630,942	-
Optional payments and deductions	44,042	44,042	-
Deductions in lieu of disability	1,819,629	1,819,629	<u>-</u> _
Total employee contributions	129,325,318	129,325,318	
Investment income			
Net appreciation in			
fair value of investments	325,036,291	325,036,291	-
Dividends	117,138,325	117,138,325	-
Interest	73,642,376	73,642,376	<u>-</u> _
	515,816,992	515,816,992	-
Less investment expenses	(31,791,345)	(31,791,345)	
Net investment income	484,025,647	484,025,647	
Securities lending			
Income	5,833,409	5,833,409	-
Expenses	(968,159)	(968,159)	_ _
Net securities lending income	4,865,250	4,865,250	
Other			
Employer federal subsidized programs	3,538,369	3,538,369	-
Medicare Part D subsidy	4,529,585	-	4,529,585
Prescription plan rebates	1,458,517	-	1,458,517
Employee transfers (to) from Forest Preserve D	District		
Employees' Annuity and Benefit Fund of Cook	County 175,370	175,370	-
Miscellaneous	40,221	40,221	
Total other additions	9,742,062	3,753,960	5,988,102
Total additions	817,991,149	768,045,589	49,945,560

Combining Statements of Changes in Pension Plan Fiduciary Net Position and Postemployment Healthcare Plan Net Position (continued)

Year Ended December 31, 2013

Additions	<u>Total</u>	<u>Pension</u>	Postemployment <u>Healthcare</u>
Employer contributions	\$ 187,817,644	\$ 147,720,014	\$ 40,097,630
Employee contributions		4 - 11,1,1 - 1,1 - 1	4 10,000,,000
Salary deductions	123,092,018	123,092,018	-
Refund repayments	2,082,804	2,082,804	-
Former and miscellaneous service payments	445,646	445,646	-
Optional payments and deductions	44,125	44,125	-
Deductions in lieu of disability	1,928,627	1,928,627	<u> </u>
Total employee contributions	127,593,220	127,593,220	
Investment income			
Net appreciation in			
fair value of investments	1,022,073,991	1,022,073,991	-
Dividends	97,300,750	97,300,750	-
Interest	83,220,221	83,220,221	-
	1,202,594,962	1,202,594,962	-
Less investment expenses	(27,523,480)	(27,523,480)	<u>-</u>
Net investment income	1,175,071,482	1,175,071,482	
Securities lending			
Income	5,264,954	5,264,954	-
Expenses	(896,317)	(896,317)	-
Net securities lending income	4,368,637	4,368,637	
Other			
Employer federal subsidized programs	3,707,091	3,707,091	-
Medicare Part D subsidy	3,851,625	, , , <u>-</u>	3,851,625
Prescription plan rebates	654,959	-	654,959
Employee transfers (to) from Forest Preserve Di	istrict		
Employees' Annuity and Benefit Fund of Cook		(106,012)	-
Miscellaneous	440,066	440,066	
Total other additions	8,547,729	4,041,145	4,506,584
Total additions	1,503,398,712	1,458,794,498	44,604,214

Combining Statements of Changes in Pension Plan Fiduciary Net Position and Postemployment Healthcare Plan Net Position (continued)

Year Ended December 31, 2014			
Deductions Benefits	<u>Total</u>	<u>Pension</u>	Postemployment <u>Healthcare</u>
Annuity			
Employee	\$ 543,274,840	\$ 543,274,840	\$ -
Spouse and children	41,865,298	41,865,298	· -
Disability	, ,	, ,	
Ordinary	9,988,572	9,988,572	-
Duty	527,188	527,188	-
Healthcare	49,945,560	_	49,945,560
Total benefits	645,601,458	595,655,898	49,945,560
Refunds	26,347,361	26,347,361	-
Net administrative expenses	5,010,206	5,010,206	<u>-</u>
Total deductions	676,959,025	627,013,465	49,945,560
Net increase	141,032,124	141,032,124	-
Net position			
Beginning of year	8,927,366,656	8,927,366,656	-
End of year	\$9,068,398,780	\$9,068,398,780	\$ -

Combining Statements of Changes in Pension Plan Fiduciary Net Position and Postemployment Healthcare Plan Net Position (continued)

Year Ended December 31, 2013

Deductions	<u>Total</u>	<u>Pension</u>	Postemployment <u>Healthcare</u>
Benefits			
Annuity			
Employee	\$ 507,494,409	\$ 507,494,409	\$ -
Spouse and children	38,761,919	38,761,919	-
Disability	,,	2 0,1 0 2,5 25	
Ordinary	10,224,555	10,224,555	_
Duty	684,923	684,923	_
Healthcare	44,604,214	-	44,604,214
Total benefits	601,770,020	557,165,806	44,604,214
Refunds	29,873,030	29,873,030	-
Net administrative expenses	4,324,634	4,324,634	-
Total deductions	635,967,684	591,363,470	44,604,214
Net increase	867,431,028	867,431,028	-
Net position			
Beginning of year	8,059,935,628	8,059,935,628	-
End of year	\$8,927,366,656	\$8,927,366,656	\$ -

Notes to Financial Statements

Note 1: Summary of Significant Accounting Policies

The County Employees' and Officers' Annuity and Benefit Fund of Cook County (the Plan) is administered in accordance with Chapter 40, Article 5/9 of the Illinois Compiled Statutes (the Statutes), formerly Chapter 108-1/2, Article 9 of the Illinois Revised Statutes.

Reporting Entity - Accounting principles generally accepted in the United States of America 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 a primary government to impose its will on the component unit, or a potential for a component unit to provide specific financial benefits to or impose specific financial burdens on the primary government.

Based on the above criteria, the Plan is considered to be a component unit of Cook County, Illinois (the County) and is included in the County's financial statements as a pension trust fund.

New Accounting Pronouncement - In June 2012, GASB issued Statement No. 67, *Financial Reporting for Pension Plans*. This Statement replaces the requirements of Statement No. 25, *Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans* and Statement No. 50, Pension Disclosures, as they relate to pension plans that are administered through trusts or similar arrangements meeting certain criteria. For defined benefit plans, Statement No. 67 establishes standards of financial reporting for separately issued financial reports and specifies the required approach to measuring the pension liability of employer and non-employer contributing entities for benefits provided through the pension plan. This Statement also enhances footnote disclosures and required supplementary information for pension funds.

Method of Accounting - The financial statements are prepared using the accrual basis of accounting. Employer contributions are recognized as income pursuant to legal requirements as specified by the Illinois Compiled Statutes. Employee contributions are recognized in the period in which the contributions are due. Benefits and refunds are recognized when due and payable in accordance with the terms of the Plan.

Investments - Investments are reported at fair value, which generally represents reported market value as of the last business day of the year. The hedge fund and real estate investments are carried at fair value as estimated by each investment manager. Short-term investments are carried at cost which approximates fair value. Where less than an entire investment holding is sold, average value is used to determine realized gain or loss.

Allocated Expenses - Administrative expenses are initially paid by the Plan. These expenses are allocated between the Plan and the Forest Preserve District Employees' Annuity and Benefit Fund of Cook County (the Forest Fund) on a pro rata basis, as applicable.

Capital Assets - The Plan has set a capitalization threshold of \$100,000 for all capital asset types. As of December 31, 2014, the Plan does not have any capital assets.

Estimates - The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect certain reported amounts and disclosures in the financial statements. Actual results could differ from those estimates.

Subsequent Events - Subsequent events have been evaluated through October 2, 2015, which is the date the financial statements were available to be issued.

Note 2: Plan Description

The County Employees' and Officers' Annuity and Benefit Fund of Cook County was established on January 1, 1926, and is governed by legislation contained in Illinois Compiled Statutes (the Statutes), particularly Chapter 40, Article 5/9 (the Article). Effective with the signing of Public Act 96-0889 into law on April 14, 2010, participants that first became contributors on or after January 1, 2011 are Tier 2 participants. All other participants that were contributing prior to January 1, 2011 are Tier 1 participants. The Plan can be amended only by the Illinois Legislature. The County Employees' and Officers' Annuity and Benefit Fund of Cook County is a single employer defined benefit pension plan with a defined contribution minimum. The Plan was created for the purpose of providing retirement, death and disability benefits for full-time employees of Cook County (the County) and the dependents of such employees. The Plan is considered to be a component unit of Cook County, Illinois and is included in the County's financial statements as a pension trust fund.

The Statutes authorize a Board of Trustees (the Board) of nine members to carry out the provisions of the Article. According to the Article, two members of the Board are ex officio, four are elected by the employee members of the Plan and three are elected by the annuitants of the Plan. The two ex officio members are the Comptroller of Cook County, or someone chosen by the Comptroller, and the Treasurer of Cook County, or someone chosen by the Treasurer. All members of the Board are fiduciaries with respect to the Plan and are statutorily mandated to discharge their duties, as such, solely in the interest of the Plan's participants and beneficiaries.

The Board has the powers and duties required in the Article to collect all contributions due to the Plan, to invest the Plan's reserves, to have an annual audit, to appoint employees, to authorize or suspend payment of any benefit and to have exclusive original jurisdiction in all matters relating to or affecting the Plan. The Board approves its own budget which is prepared by the administrative staff of the Plan. The Board is required annually to submit to the County Board of Cook County a detailed report of the financial affairs and status of the Plan. Provisions in other articles of Chapter 40 require the Board to submit its annual audit and actuarial valuation reports to the State of Illinois Department of Insurance, as well as another detailed annual report, the form and content of which is specified by the Department of Insurance.

Covered employees are required to contribute 8.5% (9% for sheriffs) of their salary to the Plan, subject to the salary limitations for Tier 2 participants in Article 5/1-160. If an employee leaves covered employment without qualifying for an annuity, accumulated contributions are refunded with interest (3% or 4% depending on when the employee became a participant). The County's total contribution is the amount of contributions made by the employees to the Plan in the calendar year two years prior to the year for which annual applicable tax is levied, multiplied by 1.54%. The source of funds for the County's contributions has been designated by State Statute as the County's annual property tax levy. The County's payroll for employees covered by the Plan for 2014 and 2013 was \$1,514,550,023 and \$1,484,269,715 respectively.

The Plan provides retirement as well as death and disability benefits. Tier 1 employees age 50 or older and Tier 2 employees age 62 or older are entitled to receive a minimum formula annuity of 2.4% for each year of credited service if they have at least 10 years of service. The maximum benefit is 80% of the final average monthly salary. For Tier 1 employees under age 60 and Tier 2 employees under age 67, the monthly retirement benefit is reduced by ½% for each month the participant is below that age. The reduction is waived for Tier 1 participants having 30 or more years of credited service.

Participants should refer to the applicable State Statutes for more complete information.

Notes to Financial Statements (continued)

Note 2: Plan Description (continued)

At December 31, 2014 and 2013, participants consisted of the following:

	<u>2014</u>	<u>2013</u>
Active Members	21,656	21,287
Retired Members	14,437	14,080
Beneficiaries	2,639	2,597
Inactive Members	13,194	12,747
Total	51,926	50,711

Note 3: Employer's Pension Liability

Net Pension Liability

The components of the net pension liability of the Plan for the years ended December 31, 2014 and 2013 are as follows:

	<u>2014</u>	<u>2013</u>
Total pension liability	\$21,945,961,866	\$21,117,643,943
Plan fiduciary net position	9,068,398,780	8,927,366,656
Employer's net pension liability	\$12,877,563,086	\$12,190,277,287
Plan fiduciary net position as a percentage		
of the total pension liability	<u>41.32%</u>	<u>42.27%</u>

See the Schedule of Changes in the Employer's Net Pension Liability and Related Ratios in the required supplementary information for additional information related to the funded status of the Plan.

Note 3: Employers's Pension Liability (continued)

The net pension liability was determined by an actuarial valuation performed as of December 31, 2014 using the following actuarial methods and assumptions:

Actuarial valuation date December 31, 2014

Actuarial cost method Entry Age Normal

Amortization method Level Dollar - Open

Remaining amortization period 30 years

Asset valuation method Five Year Smoothed Average Market

Actuarial assumptions:

Inflation 3.25% per year, compounded annually

Salary increases 3.75% to 8.00%, based on age

Investment Rate of Return 7.50% per year, compounded annually

Retirement age Rates of retirement for each age from 50 to 75 based

on recent experience of the Plan where all employees

are assumed to retire by age 75

Mortality RP-2000 Blue Collar Mortality Table, base year 2000,

fully generational based on Scale BB

Postretirement annuity increase Tier 1 participants - 3.0% compounded annually

Tier 2 participants - the lesser of 3.0% or one half of

the increase in the Consumer Price Index

The actuarial assumptions used in the December 31, 2014 valuation were based on the results of an actuarial experience study conducted by Buck Consultants, LLC dated January 2014.

Notes to Financial Statements (continued)

Note 3: Employers's Pension Liability (continued)

Discount Rate

The blended discount rate used to measure the total pension liability was 4.50%. The projection of cash flows used to determine the discount rate assumed that the employer's contributions will continue to follow the current funding policy. Based on this assumption, the Plan's fiduciary net position was projected to be insufficient to make all projected future benefit payments of current plan members. A municipal bond rate of 3.34% was used in the development of the blended discount rate after that point. The 3.34% rate is based on the S&P Municipal Bond 20 Year High Grade Rate Index as of December 31, 2014. Based on the long-term investment rate of return of 7.50% and the municipal bond rate of 3.34%, the blended discount rate is 4.50%.

Discount Rate Sensitivity

The following is an analysis of the net pension liability's sensitivity to changes in the discount rate. The following table presents the net pension liability of the employer using the discount rate of 4.50% as well as the employer's net pension liability calculated using a discount rate 1 percent lower (3.50%) and 1 percent higher (5.50%) than the current discount rate:

		Current Discount	
	1% Decrease 3.50%	Rate 4.50%	1% Increase 5.50%
Net Pension Liability	\$16,898,354,682	\$12,877,563,086	\$ 9,717,606,697

Note 4: Summary of Employer Funding Policies

Employer contributions are funded primarily through a tax levied by Cook County, Illinois. The tax levy, when extended, is limited to an amount not to exceed an amount equal to the total contributions by the employees to the Plan made in the calendar year two years prior to the year for which the annual applicable tax is levied, multiplied by 1.54.

The combined funding information of the pension and postemployment healthcare benefits of the Plan as of December 31, 2014 and 2013 are as follows:

2014

	<u>2014</u>			
		Postemployment	Assumption	
	Pension	Healthcare	<u>Adjustment</u>	Combined
Employer normal cost	\$101,247,203	\$ 66,437,678	\$(39,465,561)	\$128,219,320
Amortization of UAAL	413,914,894	116,248,411	(23,660,493)	506,502,812
Interest cost	-	7,221,113	(7,221,113)	
Actuarially determined contribution	515,162,097	189,907,202		634,722,132
Expected net employer contribution	(146,075,414)	(43,957,458)	(5,013,489)	(195,046,361)
Expected employer contribution short-fall	\$369,086,683	\$145,949,744		\$439,675,771
Actuarially determined multiplier				5.01
Present authorized multiplier				1.54

	<u>2013</u>			
		Postemployment	Assumption	
	Pension	Healthcare	<u>Adjustment</u>	Combined
Employer normal cost	\$155,504,629	\$ 63,535,361	\$(34,458,658)	\$184,581,332
Amortization of UAAL	439,865,417	108,425,638	(12,982,330)	535,308,725
Interest cost		6,737,966	(6,737,966)	
Actuarially determined contribution	595,370,046	178,698,965		719,890,057
Expected net employer contribution	(147,720,014)	(40,097,630)	(2,757,585)	(190,575,229)
Expected employer contribution short-fall	\$447,650,032	\$138,601,335		\$529,314,828
Actuarially determined multiplier				5.82
Present authorized multiplier				1.54

The assumption adjustment is due to a change in the interest rate assumptions, which is 7.5% for the pension and combined valuations and 4.5% for the postemployment healthcare benefits valuation.

Note 5: Investments

The Board of Trustees is responsible for establishing reasonable and consistent investment objectives, policies and guidelines governing the investment of Plan assets in accordance with the Illinois Compiled Statutes. The Plan is authorized to invest in bonds, notes, certificates of indebtedness, mortgage notes, real estate, stocks, shares, debentures, or other obligations or securities as set forth in the "prudent person" provisions of the State Statutes. All of the Plan's financial instruments are consistent with the permissible investments outlined in the State Statutes and any index-linked financial instruments are limited to those indices that replicate the permissible investments outlined in the State Statutes. During the year ended December 31, 2014 and 2013, there were no changes to the investment policy.

The Plan's investment policy in accordance with the Illinois Compiled Statutes establishes the following target allocation across asset classes:

	Target	Long-term
	Allocation	Expected
Asset Class	<u></u>	Rate of Return
Domestic equities	25.00%	9.36%
International equities	20.00%	7.66%
Fixed income	32.00%	2.00%
Real estate	8.00%	6.83%
Hedge funds	9.00%	12.41%
Private equity	6.00%	4.72%
Total investments	100.00%	

Long-term expected rate of return

The long-term expected rate of return on the Plan's investments was determined based on the results of an experience study performed by Buck Consultants. The results of the experience study were adopted by the Board in January 2014. The investment return assumption was based on the current asset allocation of the Plan. In the experience study, Buck Consultants developed best estimate ranges of expected future real rates of return (net of pension plan investment expense and inflation) for each major asset class. These ranges were combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates or geometric real rates of return for each major asset class included in the Plan's target asset allocation as of December 31, 2014 are listed in the table above.

Annual Money-Weighted Rate of Return

The annual money-weighted rate of return on pension plan investments, net of pension plan investment expense, was 6.23% for the year ended December 31, 2014. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

Note 5: Investments (continued)

Investment Summary

The following table presents a summarization of the aggregate fair value (carrying amount) of the Plan's investments as of December 31, 2014 and 2013. Investments that represent 5% or more of the Plan's net position are separately identified.

	<u>2014</u>	<u>2013</u>
<u>Investments</u>		
U.S and international equities	\$4,110,040,451	\$4,233,234,375
U.S. Government and government agency obligations	1,109,668,190	1,238,436,393
Corporate bonds	857,209,577	823,905,648
Collective international equity fund	57,477,592	56,828,124
Commingled fixed income fund	25,893,428	25,540,920
Private global fixed fund limited partnership	199,275,761	-
Exchange traded funds	607,454,824	526,730,533
Private equities	86,623,407	61,576,550
Hedge funds	800,093,500	756,879,345
Real estate		
Limited partnerships	388,902,521	425,123,417
Short-term investments		
EB Temporary Investment Fund	585,088,974	552,299,189
Other	2,455,349	3,224,857
Total investments	\$8,830,183,574	\$8,703,779,351

Investment Risk

GASB Statement No. 40, Deposit and Investment Risk Disclosures, specifies various disclosure requirements.

Custodial Credit Risk

Custodial credit risk is the risk that, in the event of the failure of the counterparty, the Plan will not be able to recover the value of its investments or collateral securities in the possession of an outside party.

The Plan had no investments that were uninsured and unregistered, with securities held by the counterparty, or by its trust department or agent, but not held in the Plan's name, as of December 31, 2014 and 2013.

Note 5: Investments (continued)

Investment Risk (continued)

Credit Risk

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. The Plan's investment policy is an average credit quality for each manager's total fixed income portfolio (corporate and U.S. Government holdings) of not less than A- by two out of three credit agencies (Moody's Investor Service, Standard & Poor's and/or Fitch). The following table presents a summarization of the Plan's credit quality ratings of investments at December 31, 2014 and 2013 valued by Moody's Investors Service and/or Standard & Poor's and/or Fitch:

Type of Investment	Rating	<u>2014</u>	<u>2013</u>
U.S. Government and			
government agency obligations	Aa/AA	\$1,015,205,277	\$1,209,297,481
	Not Rated	94,462,913	29,138,912
		\$1,109,668,190	\$1,238,436,393
Corporate bonds	Aaa/AAA	\$ 62,891,457	\$ 53,348,040
	Aa/AA	37,418,471	35,626,688
	A/A	206,170,324	168,184,965
	Baa/BBB	354,985,380	371,966,435
	Ba/BB	91,019,797	94,085,501
	B/B	54,425,799	49,725,291
	Caa/CCC	10,785,181	10,604,000
	Ca/CC	30	30
	D/D	247,796	160,107
	Not Rated	39,265,342	40,204,591
		\$ 857,209,577	\$ 823,905,648
Commingled fixed income fund	A/A	\$ 25,893,428	\$ 25,540,920
Short-term investments	Not Rated	\$ 587,544,323	\$ 555,524,046

Note 5: Investments (continued)

Investment Risk (continued)

Interest Rate Risk

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. Investments held for longer periods are subject to increased risk of adverse interest rate changes. The Plan's investment policy for duration for each manager's total fixed income portfolio is within plus or minus 30% of the duration for the fixed income performance benchmark (Barclays Capital Aggregate Fixed Income, which was 5.55 years at December 31, 2014 and 5.55 years at December 31, 2013). The following table presents a summarization of the Plan's debt investments at December 31, 2014 and 2013, using the segmented time distribution method:

Type of Investment	Maturity	<u>2014</u>	<u>2013</u>
U.S. Government and government agency	Less than 1 year 1 - 5 years	\$ 20,307,593 337,059,785	\$ 23,980,353 391,353,559
obligations	6 - 10 years	186,525,528	250,626,869
	Over 10 years	565,775,285	572,475,612
		\$1,109,668,190	\$1,238,436,393
Corporate bonds	Less than 1 year 1 - 5 years 6 - 10 years Over 10 years	\$ 70,779,443 201,547,638 342,338,742 242,543,755 \$ 857,209,577	\$ 62,771,344 195,435,536 341,280,369 224,418,399 \$ 823,905,648
Commingled fixed incon	ne 1 - 5 years	\$ 25,893,428	\$ 25,540,920
Short-term investments	Less than 1 year	\$ 587,544,323	\$ 555,524,046

Note 5: Investments (continued)

Investment Risk (continued)

Foreign Currency Risk

Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment or a deposit. The Plan's investment policy limits the amount of investments in foreign equities to 20% of total Plan assets and foreign fixed income obligations to 2.5% of the total Plan assets. The Plan's exposure to foreign currency risk at December 31, 2014 and 2013 is as follows:

	Fair Value (USD)	Fair Value (USD)
Type of Investment	<u>2014</u>	<u>2013</u>
U.S. and international equities		
Australian dollar	\$ 78,719,386	\$ 68,566,259
Brazilian real	22,787,891	24,939,257
British pound sterling	310,585,893	347,166,377
Canadian dollar	79,080,044	74,607,490
Chilean peso	2,301,572	1,065,372
Colombian peso	783,224	139,323
Czech koruna	417,393	314,807
Danish krone	17,806,342	24,464,447
Egyptian pound	261,423	-
European euro	397,005,393	429,948,424
Hong Kong dollar	120,414,087	136,891,273
Hungarian fornit	406,489	517,167
Indian rupee	8,911,786	5,049,842
Indonesian rupiah	6,301,082	3,966,815
Israeli shekel	5,080,245	1,952,805
Japanese yen	266,333,255	257,287,591
Malaysian ringgit	7,439,038	7,135,342
Mexican peso	12,044,327	12,584,191
New Taiwan dollar	33,495,677	25,984,928
New Turkish lira	1,227,993	2,054,061
New Zealand dollar	6,863,110	5,039,721
Norwegian krone	15,627,486	11,320,045
Philippines peso	6,012,595	5,144,675
Polish zloty	2,967,480	2,800,878
Russian ruble	318,206	-
Singapore dollar	22,737,009	22,467,090
South African rand	17,832,068	14,478,975
South Korean won	50,399,004	52,477,834
Swedish krona	39,994,815	48,186,702
Swiss franc	129,100,613	125,664,922
Thailand baht	12,057,123	9,579,609
United Arab Emirates dirham	1,494,666	-
U.S. dollar	2,433,233,736	2,511,438,153
Total U.S. and international equities	\$4,110,040,451	\$4,233,234,375

Note 5: Investments (continued)

Investment Risk (continued)

Foreign Currency Risk (continued)

Type of Investment	Fair Value (USD) <u>2014</u>	Fair Value (USD) 2013
		
Corporate bonds		
Brazilian real	\$ 8,670,503	\$ -
British pound sterling	3,962,173	4,039,262
European euro	2,335,997	26,291,344
Mexican peso	13,999,411	12,546,072
Philippines peso	2,273,582	2,226,788
U.S. dollar	825,967,911	778,802,182
Total corporate bonds	\$857,209,577	\$823,905,648
Private equities		
European euro	\$ 1,806,596	\$ 1,039,066
U.S dollar	84,816,811	60,537,484
Total private equities	\$ 86,623,407	\$ 61,576,550

For the years ended December 31, 2014 and 2013, net realized gain on investments sold, reflecting the difference between the proceeds received and cost value of securities sold, was \$357,866,673 and \$325,150,696 respectively. These amounts are included in the net appreciation (depreciation) in fair value of investments as reported on the Combining Statements of Changes in Pension Plan Fiduciary Net Position and Postemployment Healthcare Plan Net Position. The calculation of realized gains and losses is independent of the calculation of net appreciation (depreciation) in the fair value of plan investments. Investments purchased in a previous year and sold in the current year result in their realized gains and losses being reported in the current year and their net appreciation (depreciation) in Plan assets being reported in both the current year and the previous years.

Note 6: When-Issued Transactions

The Plan may purchase securities on a when-issued basis, that is, obligate itself to purchase securities with delivery and payment to occur at a later date. At the time the Plan enters into a commitment to purchase the security, the transaction is recorded at purchase price which equals value. The value at delivery may be more or less than the purchase price. No interest accrues to the Plan until delivery and payment takes place. As of December 31, 2014 and 2013, the Plan contracted to acquire securities on a when-issued basis with a total principal amount of \$89,770,000 and \$28,700,000 respectively.

Note 7: Derivatives

The Plan's investment policy permits the use of financial futures for hedging purposes only. Speculation and leveraging of financial futures within the portfolio is prohibited. The Plan uses derivative financial instruments to gain exposure to an asset class, manage portfolio risk or to facilitate international portfolio trading.

A derivative security is a financial contract whose value is based on, or "derived" from, a traditional security, an asset, or a market index. Derivative instruments include forward currency contracts and futures contracts as part of the Plan's investment portfolio.

Derivative transactions involve, to varying degrees, credit risk, interest rate 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 the previously agreed upon terms. Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. Market risk is the possibility that a change in interest or currency rates will cause the value of a financial instrument to decrease or become more costly to settle.

Forward currency contracts are used to hedge against fluctuations in foreign currency- denominated assets used primarily in portfolio trade settlements. These contracts are a cash contract in which a seller agrees to deliver a specific cash commodity to a buyer sometime in the future. Forward agreements are subject to the creditworthiness of the counterparties, which are principally large financial institutions. Forward currency contracts are reported at fair value in the receivable for securities sold and payable for securities purchased on the Combining Statement of Pension Plan Fiduciary Net Position and Postemployment Healthcare Plan Net Position included in investments. The gain or loss on forward currency contracts is recognized and recorded on the Combining Statement of Changes in Pension Plan Fiduciary Net Position and Postemployment Healthcare Plan Net Position as part of investment income. The foreign currency contracts are short-term in nature, typically ranging from one week to three months.

The Plan uses futures contracts as an investment vehicle to gain exposure to an asset class with minimal market entry costs to the Plan. At December 31, 2014, the Plan had futures contracts with a fair value of \$13,566,225 a notional value of \$341,238,940 and a maturity date of March 20, 2015 for all contracts. Comparatively, at December 31, 2013, the Plan had futures contracts with a fair value of \$17,692,797 and a notional value of \$365,862,258 with a maturity date of March 21, 2014 for all contracts.

Futures contracts are reported at fair value in the equity investments on the Combining Statement of Pension Plan Fiduciary Net Position and Postemployment Healthcare Plan Net Position. The gain or loss on futures contracts is reported as part of investment income on the Combining Statement of Changes in Pension Plan Fiduciary Net Position and Postemployment Healthcare Plan Net Position. See Note 5 for investment risk for the Plan's equity investments.

Note 7: Derivatives (continued)

The Plan's portfolio includes the following derivative instruments at December 31, 2014 and 2013:

	<u>2014</u>	<u>2013</u>
Hedging derivative instruments		
Forward currency contract receivables	\$20,662,823	\$89,384,634
Forward currency contract payable	(20,407,274)	(88,987,015)
Total hedging derivative instruments	255,549	397,619
Investment derivative instruments		
U.S. Equity Index Futures Contracts	13,566,225	17,530,027
International Equity Index Futures Contracts	<u>-</u> _	162,770
Total investment derivative instruments	13,566,225	17,692,797
Total	\$13,821,774	\$18,090,416

For the years ended December 31, 2014 and 2013, the change in fair value of the deferred inflows and outflows of the foreign currency contracts was not material to these financial statements.

Note 8: Securities Lending

State Statutes and the investment policy permit the Plan to lend its securities to broker-dealers and other entities with a simultaneous agreement to return collateral for the same securities in the future. The Plan's custodian, acting as the lending agent, lends securities for collateral in the form of cash, U.S. Government obligations and irrevocable letters of credit equal to 102% of the fair value of domestic securities plus accrued interest and 105% of the fair value of foreign securities plus accrued interest.

The Plan does not have the right to sell or pledge securities received as collateral unless the borrower defaults. The average term of securities loaned was 108 days for 2014 and 120 days for 2013; however, any loan may be terminated on demand by either the Plan or the borrower. Cash collateral was invested in a separately managed portfolio, which had an average weighted maturity at December 31, 2014 and 2013 of 57 and 68 days, respectively.

As of December 31, 2014 and 2013, the fair value (carrying amount) of loaned securities was \$1,386,654,050 and \$1,460,678,145 respectively. As of December 31, 2014 and 2013, the fair value (carrying amount) of cash collateral received by the Plan was \$1,308,676,647 and \$1,296,354,976 respectively. The cash collateral is included as an asset and a corresponding liability on the combining statements of pension plan and postemployment healthcare plan net position. As of December 31, 2014 and 2013, the fair value (carrying amount) of non-cash collateral received by the Plan was \$114,258,432 and \$200,236,534 respectively.

Note 8: Securities Lending (continued)

Although the Plan's securities lending activities are collateralized as described above, they involve both market and credit risk. In this context, market risk refers to the possibility that the borrower of securities will be unable to collateralize the loan upon a sudden material change in the fair value of the loaned securities. Credit risk refers to the possibility that counterparties involved in the securities lending program may fail to perform in accordance with the terms of their contracts.

Indemnification deals with the situation in which a client's securities are not returned due to the insolvency of a borrower. The contract with the lending agent requires indemnification to the Plan if borrowers fail to return the securities or fail to pay the Plan for income distributions by the issuers of securities while the securities are on loan.

During 2014 and 2013, there were no losses due to default of a borrower or the lending agent.

A summary of securities loaned at fair value as of December 31, 2014 and 2013 is as follows:

	<u>2014</u>	<u>2013</u>
Securities loaned - cash collateral		
U.S. and international equities	\$ 778,694,618	\$ 558,921,925
U.S. Government and government agency obligations	214,759,009	348,629,295
Exchange traded funds	176,699,691	267,097,397
Corporate bonds	104,884,614	89,869,602
Total securities loaned - cash collateral	1,275,037,932	1,264,518,219
Securities loaned - non-cash collateral		
U.S. Government and government agency obligations	111,616,118	196,159,926
Total	<u>\$1,386,654,050</u>	<u>\$1,460,678,145</u>

Note 9: Commitments

As of December 31, 2014, the Plan had capital commitments of approximately \$405,000,000 for various limited partnership and private equity investments.

Note 10: Postemployment Group Healthcare Benefit Plan

Plan Description

The Plan administers a Postemployment Group Healthcare Benefit Plan (PGHBP), which is a single-employer defined benefit postemployment health plan. PGHBP provides a healthcare premium subsidy to annuitants who elect to participate in PGHBP. The Plan is currently allowed, in accordance with State Statutes, to pay all or a portion of medical insurance premiums for the annuitants. Presently, the Plan subsidizes approximately 52% and 67% of the monthly premiums for employee and spouse annuitants, respectively. The remaining premium cost is borne by the annuitant.

PGHBP is administered in accordance with Chapter 40, Article 5/9 of the Illinois Compiled Statutes, which assigns the authority to establish and amend benefit provisions to the Plan's Board of Trustees.

At December 31, 2014 and 2013, the number of annuitants and surviving spouses whose cost to participate in the program was subsidized, totaled 8,591 and 8,536 respectively.

The Plan's employees are also participants in the PGHBP. The Plan had 27 and 29 employees at December 31, 2014 and 2013, respectively. During years ended December 31, 2014 and 2013, the Plan paid healthcare premiums for 9 and 8 retired Plan employees, respectively. For active and retired Plan employees, the actuarially determined liability under GASB Statement No. 45, *Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions*, is included in the total actuarial liability and related GASB Statement No. 43 disclosure.

Summary of Significant Accounting Policies

Method of Accounting - PGHBP's financial statements have been combined with the Plan's financial statements and are presented using the accrual basis of accounting. The Plan considers the premium subsidy an additional retirement benefit, with no contribution rate or asset allocation associated with it. The cost for postemployment group healthcare benefits is approximately equal to the premium subsidy. Actual costs may differ based on claims experience. Healthcare premium subsidies are recognized when due and payable.

Contributions - The Plan funds PGHBP on a "pay-as-you-go" basis.

Administrative Costs - Administrative costs associated with PGHBP are paid by the Plan's employer contributions.

Health Care Cost Trend Rates -

2014 - 8.0% in the first year, decreasing by .25% per year until an ultimate rate of 4.75% is reached for pre-medicare and 6.50% in the first year, decreasing by .25% until an ultimate rate of 4.75% is reached for post-medicare.

2013 - 7.0% in the first year, decreasing by .5% per year until an ultimate rate of 5.0% is reached.

Inflation Rate Assumption - 3.25% per year.

Note 10: Postemployment Group Healthcare Benefit Plan (continued)

Actuarial Valuations - Actuarial valuations of the Plan involve estimates of the value of reported amounts and assumptions about the probability of events far into the future. Actuarially determined amounts are subject to continual revision as results are compared to past expectations and new estimates are made about the future. Actuarial calculations of the Plan reflect a long-term perspective and are based on the benefits provided under the terms of the Plan in effect at the time of each valuation and on the historical pattern of sharing of costs between the employer and Plan members to that point.

Funded Status and Funding Progress

As of December 31, 2014, the most recent actuarial valuation date, the PGHBP was 0% funded on an actuarial basis. The actuarial accrued liability for benefits was \$1,980,088,617 and the actuarial value of assets was \$0, resulting in an unfunded actuarial accrued liability (UAAL) of \$1,980,088,617. The covered payroll (annual payroll of active employees covered by the Plan) was \$1,514,550,023 and the ratio of the UAAL to the covered payroll was 130.74%.

The Schedule of Funding Progress, presented as Required Supplementary Information (RSI) following the notes to the financial statements, presents multi-year trend information about whether the actuarial values of the Plan assets are increasing or decreasing over time relative to the actuarial accrued liability for benefits.

Note 11: Related Party Transactions

The Plan has common Trustees and shares office space with the Forest Preserve District Employees' Annuity and Benefit Fund of Cook County (the Forest Fund) who reimburses the Plan for shared administrative services provided by the Plan. During the years ended December 31, 2014 and 2013, the Plan allocated administrative expenditures of \$90,660 and \$77,799 respectively to the Forest Fund.

As of December 31, 2014 and 2013, the Forest Fund owes the Plan \$542,267 and \$462,893 respectively. These amounts include plan transfers of Plan members transferring from one plan to another.

Note 12: Lease Agreements

The Plan leases its office facility under a fifteen year lease arrangement in effect through June 1, 2022. The lease calls for annual adjustments on the anniversary date of the commencement of the lease. Rent expense under this lease, net of rent abatements for the years ended December 31, 2014 and 2013, was \$371,173 and \$381,013 respectively.

The following is a schedule by year of the future minimum rental payments required under the noncancelable lease terms of this operating lease:

Year Ending December 31,		
2015	\$	404,372
2016		414,482
2017		424,844
2018		435,465
2019		446,352
2020		457,510
2021		468,948
2022		197,401
	\$ 3	3,249,374

Note 13: Pronouncements Issued Not Yet Effective

In June 2012, GASB issued Statement No. 68, *Accounting and Financial Reporting for Pensions*. This Statement replaces the requirements of Statement No. 27, *Accounting for Pensions by State and Local Governmental Employers*, and Statement No. 50, *Pension Disclosures*, as they relate to pensions that are provided through pension plans administered as trusts or similar arrangements that meet certain criteria. Statement No. 68 details the recognition and disclosure requirements for employers with liabilities to a defined benefit pension plan and for employer whose employees are provided with defined contribution pensions. Statement No. 68 is effective for the Plan's fiscal year ending December 31, 2015.

In November 2013, GASB issued Statement No. 71, Pension Transition for Contributions made Subsequent to the Measurement Date - an Amendment of GASB Statement No. 68. This standard requires that, at transition, a government recognize a beginning deferred outflow of resources for its pension contributions, if any, made subsequent to the measurement date of the beginning net pension liability. Statement No. 71 is effective for the Plan's fiscal year ending December 31, 2015.

In March 2015, GASB issued Statement No. 72, Fair Value Measurement and Application, which provides guidance for fair value measurement and application. The Statement defines fair value, provides guidance for determining fair value measurement for financial reporting purposes and specifies required disclosures related to fair value measurements. Statement No. 72 is effective for the Plan's fiscal year ending December 31, 2016.

The Plan is currently evaluating the impact of adopting the above GASB Statements.

Required Supplementary Information - Pension

Schedule of Changes in the Employer's Net Pension Liability and Related Ratios

	December 31, 2014
Total pension liability	
Service cost	\$ 491,887,347
Interest	958,433,835
Changes of benefit terms	-
Difference between expected and actual experience	-
Changes of assumptions	-
Expected benefit payments, including refunds of employee contributions	(622,003,259)
Net change in total pension liability	828,317,923
Total pension liability	
Beginning of year	21,117,643,943
End of year	\$21,945,861,866
Plan fiduciary net position	
Contributions - employer	\$ 146,075,414
Contributions - employee	129,325,318
Net investment income	488,890,897
Expected benefit payments, including refunds of employee contributions	(622,003,259)
Administrative expenses	(5,010,206)
Other	3,753,960
Net change in plan fiduciary net position	141,032,124
Plan fiduciary net position	
Beginning of year	8,927,366,656
End of year	\$ 9,068,398,780
	· , , , ,
Employer's net pension liability	\$12,877,563,086
Plan fiduciary net position as a percentage of the total pension liability	<u>41.32%</u>
Covered-employee payroll	\$ 1,514,550,023
Employer's net pension liability as a percentage of covered-employee payroll	<u>850.26%</u>

See Report of Independent Auditors.

Schedule of Employer Contributions - Last Ten Fiscal Years

	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	<u>2010</u>
Actuarially determined contribution	\$ 515,162,097	\$ 595,370,046	\$ 540,218,287	\$ 493,724,370	\$ 454,327,461
Contributions in relation to the actuarially determined contribution Contribution deficiency	(146,075,414) \$ 360,086,683 \$1,514,550,023	(147,720,014) \$ 447,650,032	(152,734,539) \$\frac{387,483,748}{}\$	(160,652,118) \$ 333,072,252 \$1,456,444,123	(144,539,577) \$ 309,787,884 \$1,494,093,569
Covered employee payroll Contributions as a percentage of covered employee payroll	9.64%	\$1,484,269,715 9.95%	\$1,478,253,368 <u>10.33%</u>	<u>11.03%</u>	\$1,494,093,569 <u>9.67%</u>

See Report of Independent Auditors.

Notes to Schedule of Employer Contributions

Valuation Date: Actuarially determined contribution rates are calculated as of December 31,

one year prior to the fiscal year in which contributions are reported.

Methods and assumptions used to determine contribution rates

Actuarial cost method Entry Age Normal Amortization method Level Dollar - Open

Remaining amortization period 30 years

Asset valuation method Five Year Smoothed Average Market Inflation 3.25% per year, compounded annually

Salary increases 3.75% to 8%, based on age

Investment rate of return 7.5% per year, compounded annually

Retirement age Based on actual past experience, assume all employees retire by age 75

Mortality RP-2000 Blue Collar Mortality Table, base year 2000, fully generational

based on Scale BB.

Postretirement annuity increases Tier 1 participants - 3.0% compounded annually.

Tier 2 participants - the lesser of 3.0% or one half of the increase in the

Consumer Price Index.

Schedule of Employer Contributions - Last Ten Fiscal Years (continued)

	2009	<u>2008</u>	<u>2007</u>	<u>2006</u>	2005
Actuarially determined contribution	\$ 352,850,988	\$ 283,892,734	\$ 287,061,532	\$ 282,223,686	\$ 428,971,126
Contributions in relation to the actuarially determined contribution Contribution deficiency	(152,506,089) \$ 200,344,899	(150,227,360) \$ 133,665,374	(230,114,335) \$ 56,947,197	(198,619,984) \$ 83,603,702	(218,292,478) \$ 210,678,648
Covered employee payroll	\$1,498,161,713	\$1,463,372,408	\$1,370,844,734	\$1,412,878,627	\$1,387,459,142
Contributions as a percentage of covered employee payroll	10.18%	10.27%	<u>16.79%</u>	14.06%	<u>15.73%</u>

See Report of Independent Auditors.

Schedule of Investment Returns

December 31, 2014

Annual money-weighted rate of return, net of investment expense

6.23%

Required Supplementary Information - Postemployment Healthcare

Schedule of Funding Progress

Year End December		Actu Value o	of Assets	Actuarial Accrued Liability (AAL) (b)	Unfunded AAL (UAAL) (b-a)	Funded Ratio <u>(a/b)</u>	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll (b-a)/(c)
2009 ((1)	\$	-	\$1,686,872,018	\$1,686,872,018	0.00%	\$1,498,161,713	112.60%
2010		\$	-	\$1,724,622,462	\$1,724,622,462	0.00%	\$1,494,093,569	115.43%
2011		\$	-	\$1,678,571,388	\$1,678,571,388	0.00%	\$1,456,444,123	115.25%
2012		\$	-	\$1,845,609,132	\$1,845,609,132	0.00%	\$1,478,253,368	124.85%
2013 ((1)	\$	-	\$1,978,767,490	\$1,978,767,490	0.00%	\$1,484,269,715	133.32%
2014		\$	-	\$1,980,088,617	\$1,980,088,617	0.00%	\$1,514,550,023	130.74%

⁽¹⁾ = Change in actuarial assumptions.

See Notes to Schedule of Funding Progress and Schedule of Employer Contributions.

Schedule of Employer Contributions

Year Ended December 31,	Annual Required Contribution (ARC) <u>(a)</u>	Required Statutory Basis <u>(b)</u>	Employer Contributions <u>(c)</u>	Percent of ARC Contributed (c/a)
2009	\$157,964,519	\$ -	\$35,779,228	22.65%
2010	\$163,823,488	\$ -	\$40,183,057	24.53%
2011	\$165,176,771	\$ -	\$38,185,306	23.12%
2012	\$156,700,388	\$ -	\$37,986,237	24.24%
2013	\$178,698,965	\$ -	\$40,097,630	22.44%
2014	\$189,907,202	\$ -	\$43,957,458	23.15%

See Notes to Schedule of Funding Progress and Schedule of Employer Contributions.

Required Supplementary Information - Postemployment Healthcare (continued)

Notes to Schedule of Funding Progress and Schedule of Employer Contributions

The information presented in the required supplementary schedules was determined as part of the actuarial valuation at the date indicated. Additional information as of the latest actuarial valuation follows:

Valuation date December 31, 2014

Actuarial cost method Entry age actuarial cost as a percentage of earnings

Amortization method Level Dollar - Open

Amortization period 30 years

Actuarial assumptions

Discount rate 4.5% per year Inflation 3.25% per year

Health care cost trend rate 2014 - 8.0% in the first year, decreasing by .25%

per year until an ultimate rate of 4.75% is reached for pre-medicare and 6.50% in the first year decreasing by .25% per year until an ultimate rate

of 4.75% is reached for post-medicare

2013 - 7.0% in the first year, decreasing by .5% per year until an ultimate rate of 5.0% is reached

Mortality rates RP-2000 Blue Collar Mortality Table,

base year 2000, fully generational based on Scale BB

Retirement age assumptions Based on actual past experience

assume all employees retire by age 75

Supplementary Information

Schedules of Net Administrative Expenses and Professional and Consulting Fees

Years Ended December 31, 2014 and 2013

	<u>2014</u>	<u>2013</u>
Administrative expenses		
Bank charges	\$ 31,028	\$ 29,692
Document imaging	264,855	227,989
Election expense	103,151	109,796
Employee benefits	466,979	417,175
Insurance - fidelity, fiduciary and liability	102,517	114,761
Maintenance of equipment, systems, software and support	442,963	271,338
Membership, conference and training	45,578	19,495
Office buildout expense	90,144	-
Office expense	71,948	97,840
Postage	92,933	104,996
Printing and stationery	63,003	73,556
Professional and consulting fees	706,976	389,285
Recovery site expense	40,591	35,359
Regulatory filing fees	8,000	8,000
Rent	371,173	381,013
Salaries	2,183,661	2,108,679
Utilities	15,366	13,459
Total	5,100,866	4,402,433
Less administrative expenses allocated to Forest Preserve		/ ·
District Employees' Annuity and Benefit Fund of Cook County	(90,660)	(77,799)
Net administrative expenses	\$5,010,206	<u>\$4,324,634</u>
Professional and consulting fees		
Actuarial service	\$ 107,345	\$ 126,182
Audit	68,446	40,183
Consulting	130,400	122,583
Legal	97,185	76,509
Lobbyist	26,771	23,828
Pension information systems advisory services	276,829	- -
Total	\$ 706,976	\$ 389,285

Schedules of Investment Expenses

Years Ended December 31, 2014 and 2013

	<u>2014</u>	<u>2013</u>
Investment manager expense		
American Realty Advisors	\$ 723,666	\$ 682,476
Ariel Investments	286,491	-
Blackstone Alternative Asset Management	4,157,108	3,802,596
Capri Capital Partners	244,939	330,021
CastleArk Management	468,586	-
CBRE Global Investors	355,630	182,206
Channing Capital Management	1,262,093	961,801
Chicago Equity Partners	329,173	406,030
Cozad Asset Management, Inc.	348,224	255,077
Credit Suisse Securities	57,642	65,696
Diversified Global Asset Management	2,032,829	1,950,095
Evergreen Venture Partners	3,921	11,030
Fiduciary Management Associates	645,070	572,866
Fortaleza Asset Management, Inc.	117,893	108,027
Franklin Templeton Investments	2,326,377	1,712,470
Frontier Capital Management	922,650	755,609
Great Lakes Advisors, Inc.	370,534	331,871
Herndon Capital Management	375,111	332,443
J.P. Morgan Asset Management	2,062,141	1,530,764
John Buck Company	90,260	96,728
Killian Capital Management	232,647	173,437
LaSalle Investment Management	300,000	583,767
Lazard Asset Management, LLC	583,706	542,307
Lightspeed Venture Partners	9,429	19,815
LM Capital Group, LLC	497,803	444,018
Lombardia Capital	125,396	-
Loomis Sayles & Company, LP	789,040	764,351
MacKay Shields	822,394	784,301
Mellon Capital	121,818	143,276
Mesirow Financial	913,031	351,073
Mondrian Investment Partners, Ltd.	919,035	849,296

(continued)

Supplementary Information (continued)

Schedules of Investment Expenses (continued)

Years Ended December 31, 2014 and 2013

		<u>2014</u>		2013
Investment manager expense (continued)				
Muller and Monroe Asset Management	\$	11,742	\$	15,610
NCM Capital		294,627		345,036
New Century Investment Management		411,532		397,841
Opus Capital Group		1,631		7,455
Pacific Venture Group		28,306		25,601
Progress Investment Management		1,627,372		1,407,683
Prudential Real Estate Investors		677,304		671,845
RhumbLine Advisers		114,546		105,543
Robeco Investment Management		-		96,650
Russell Implementation Services, Inc.		765,530		831,660
SPC Capital Management		94,167		100,000
State Street Global Advisors		314,418		312,374
The Rock Creek Group		1,267,862		1,196,907
Thornburg Investment Management		706,025		1,133,340
TIAA-CREF		714,956		682,615
Trident Capital		-		42,029
Wells Capital Management		870,372		151,440
William Blair & Company		847,206		734,527
	3	1,242,233	2	7,001,603
Investment consulting fees				
Callan Associates Inc.		375,568		370,154
Investment custodian fees				
BNY Mellon		173,544		151,723
Total investment expenses	\$3	1,791,345	\$2	7,523,480

Additions By Source

Year Ended December 31,	Employer Contributions	Employee <u>Contributions</u>	Net Investment and Net Securities Lending Income (Loss) (1)	Other (<u>2)</u>	Total <u>Additions</u>
2009	\$183,713,870	\$127,795,881	\$1,013,615,250	\$11,741,894	\$1,336,866,895
2010	\$181,509,323	\$129,449,866	\$ 832,882,639	\$12,966,051	\$1,156,807,879
2011	\$195,337,621	\$127,577,473	\$ 82,701,033	\$17,614,316	\$ 423,230,443
2012	\$190,720,776	\$128,869,508	\$ 887,687,519	\$10,190,689	\$1,217,468,492
2013	\$187,817,644	\$127,593,220	\$1,179,440,119	\$ 8,547,729	\$1,503,398,712
2014	\$190,032,872	\$129,325,318	\$ 488,890,897	\$ 9,742,062	\$ 817,991,149

^{(1) -} Includes realized and unrealized net gain or loss on investments and net securities lending income.

Deductions By Type

			Net	
Year Ended			Administrative	Total
December 3	1, Benefits	Refunds	Expenses	Deductions
2009	\$452,007,855	\$20,404,911	\$4,248,287	\$476,661,053
2010	\$482,523,408	\$25,041,818	\$4,074,955	\$511,640,181
2011	\$523,396,627	\$26,165,335	\$4,078,843	\$556,640,805
2012	\$561,391,035	\$33,081,726	\$4,303,353	\$598,776,114
2013	\$601,770,020	\$29,873,030	\$4,324,634	\$635,967,684
2014	\$645,601,458	\$26,347,361	\$5,010,206	\$676,959,025

Schedule of Employer Contributions Receivable

December 31, 2014

<u>Levy Year</u>	Contributions <u>Receivable</u>	Uncollected <u>Balance</u>	Reserved	Contributions <u>Receivable</u>
2013	\$192,969,505	\$ 15,731,927	\$ 5,399,609	\$ 10,332,318
2014	\$194,668,229	194,668,229	5,423,621	189,244,608
		\$210,400,156	\$10,823,230	\$199,576,926

Notes: Employer contributions are funded primarily through a County tax levy.

Uncollected employer contributions for the 2012 and prior levy years are fully reserved.

^{(2) -} Includes employer federal subsidized programs, Medicare Part D, prescription/repayment plan rebates and miscellaneous income. Early Retirement Reinsurance Program is included in 2011 and 2012.





This section includes an investment report, Investment Consultant's Commentary, the Master Custodian's Certification, a summary of investment policy, and summary tables of investment data.

Investment Report



June 4, 2015

To the Retirement Board and Members of the Fund:

The County Employees' and Officers' Annuity and Benefit Fund of Cook County ("the Fund") employs a prudent investment strategy to meet its long-term actuarial objective of growing the assets to support member benefits. Together with Fund staff and the investment consultant, Callan Associates, the Retirement Board oversees the investment strategy through ongoing study of the portfolio structure, return assumptions, and projected funding needs to support member benefits.

For the sixth consecutive year, the Cook County Fund generated positive absolute returns for its members by returning 5.9% net of investment management fees over the previous 12-month period. As of December 31, 2014, the Fund's investment portfolio was valued at \$8.8 billion and reached peak market valuation in 2014.

Results for 2014 reflected strength in the domestic markets across all asset classes. Strong performance from domestic equity was the largest contributor to performance, led by outperformance by all of the small/mid cap strategies. Real estate also contributed positively due to strength in commercial and residential sectors. Hedge funds and fixed income all contributed favorably to 2014 results.

Results for the year reflect restructuring initiatives undertaken since 2011 to enhance the portfolio's risk-adjusted return through broader diversification of investment strategies to enhance performance through various market conditions. By year-end, rebalancing activities brought 96% of the portfolio in line with strategic allocation targets of 32% in fixed income, 25% in domestic equities, 20% in international equities, 9% in hedge funds, 8% in real estate, and 6% in private equity.

The Consultant's Commentary; Master Custodian's certification letter; a summary of the Fund's goals, objectives, and guidelines; and selected investment schedules follow for your review.

Sincerely,

Nickol R. Hackett

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Executive Director and Chief Investment Officer

Investment Consultant's Commentary



Callan Associates Inc. 120 North LaSalle Street Suite 2400 Chicago, IL 60602 Main 312.346.3536 Fax 312.346.1356

June 4, 2015

Board of Trustees
County Employees' and Officers' Annuity and Benefit Fund of Cook County
33 North Dearborn Street, Suite 1000
Chicago, IL 60602

Dear Trustees,

Callan Associates, Inc. is pleased to present the County Employees' and Officers' Annuity and Benefit Fund of Cook County ("Fund") results for fiscal year ended December 31, 2014. As of December 31, 2014, the Fund's market value totaled \$8.83 billion, an approximate \$126 million increase since December 31, 2013.

The S&P 500 Index posted a solid annual return of 13.69%. Tailwinds included low inflation, low interest rates, and low energy prices. The U.S. bond markets pushed forward as Treasuries, investment-grade corporates, and securitized bonds all posted positive returns. The Barclays Aggregate Index climbed 5.97% in 2014. The NCREIF Property Index advanced 11.82% during this same time.

As noted in the Schedule of Investment Results, the Fund generated a total return of 5.89% net-of-fees for the year ended December 31, 2014, which trailed the 6.40% return of the Fund's target benchmark (the Policy Benchmark). This follows a strong 2013 in which the Fund outperformed the target by 1.60%, on a net-of-fees basis. In aggregate, the Fund's public domestic equity, fixed income, and international equity managers fell behind their benchmarks, while the Fund's real estate and hedge funds generated returns that exceeded their respective benchmarks.

Sincerely,

Michael J. Joecken Senior Vice President

Master Custodian's Certification



Asset Servicing

Michael J. Beggy Vice President

June 4, 2015

To the Board of Trustees and the Executive Director of the County Employees' and Officers' Annuity & Benefit Fund of Cook County:

BNY Mellon as custodian of the County Employees' and Officers' Annuity & Benefit Fund of Cook County (the "client") has established an "Account" that holds the clients property in safekeeping facilities of the Custodian (or other custodian banks or clearing operations), provided the recordkeeping of certain property of the client and completed the annual accounting certification for the year January 1, 2014 through December 31, 2014.

In addition, in accordance with the terms of the Custody Agreement dated, November 1, 2007, BNY Mellon also provides the following services as Custodian:

- Market settlement of purchases and sales and engage in other transactions, including free receipts and deliveries, exchanges and other voluntary corporate actions, with respect to securities or property received by the Custodian
- Take actions necessary to settle transactions in futures and/or options contracts, short selling programs, foreign exchange or foreign exchange contracts, swaps and other derivative investments with third parties
- Lend the assets of the Account in accordance with a separate Securities Lending Agreement.
- Invest available cash in any collective fund, including a collective investment fund maintained by the Custodian or and affiliate of the Custodian for collective investment of employee benefit trusts or deposit in an interest bearing account of banking department of Custodian.
- Appoint subcustodians, including affiliates of the custodian, as to part or all of the Account.
- Hold property in nominee name, in bearer form or in book entry form, in a clearinghouse corporation or in a depository.
- Take all action necessary to pay for, and settle authorized transactions.
- Collect income payable to and distributions due to the Account.
- Collect all proceeds from securities, certificates of deposit or other investments which may mature or be called.
- Forward to the authorized party as designated by the client, proxies or ballots that are to be a voted by the authorized party.
- Attend to corporate actions that have no discretionary decision requirement
- Report the value of the Account as agreed upon by the client and custodian.
- Credit the account with income and maturity proceeds on securities contractual payment date.

Sincerely,

Michael J. Beggy Service Director

Will J. Bys

Asset Servicing

Room 410 ~ One Mellon Center ~ Pittsburgh, PA 15258-0001

(412) 234-6933 ~ (412) 236-1928 Fax

The Bank of New York Mellon

Summary of Investment Policy

Overview

Under the guidance and direction of the Board and governed by the "prudent man rule," it is the mission of the County Employees' and Officers' Annuity Fund of Cook County ("the Fund") and the Investment Staff to optimize the total return of the Fund's investment portfolio through a policy of diversified investments using parameters of prudent risk management as measured on the total portfolio, acting at all times in the exclusive interest of the participants and beneficiaries of the Fund.

To accomplish this mission, the Board and Investment Staff understand and accept their fiduciary obligations to the members of the Fund. These obligations are legal in nature and are outlined in the Illinois Pension Code [40 ILCS 5]. Investments made by the Fund shall satisfy the conditions of the Illinois Pension Code and applicable Illinois law and, in particular, the prudent man rule set forth in the Illinois Pension Code [40 ILCS 5/1-109].

Subject to these fiduciary standards, the Board and Investment Staff shall endeavor at all times to implement the Statement of Investment Policy in a manner consistent with the stated mission of the Fund, while ensuring transparency and compliance with all applicable laws and regulations.

The Policy is set forth by the Board in order to:

- Establish a clear understanding of all involved parties of the investment goals and objectives of the Fund.
- Define and assign the responsibilities of all involved parties.
- Establish the relevant investment horizon for which the Fund assets will be managed.
- Establish risk parameters governing assets of the Fund.
- Establish target asset allocation and re-balancing procedures.
- Establish a methodology and criteria for selecting, retaining and terminating Investment Professionals.
- Offer specific guidance to and define limitations for all Investment Managers regarding the investment of Fund assets.

In summary, the purpose of the Statement of Investment Policy is to formalize the Board's investment objectives, policies and procedures and to define the duties and responsibilities of the various entities involved in the investment process. The Statement of Investment Policy is intended to serve as a guide, reference tool and communication link between the Board, Investment Staff and Investment Professionals.

Summary of Investment Policy (continued)

Investment Objectives

The primary return objectives of the Fund are to:

- Preserve the safety of principal.
- · Exceed, after investment management fees, a customized blended benchmark consistent with prudent levels of risk.
- Create a stream of investment returns to ensure the systematic and adequate funding of actuarially determined benefits through contributions and professional management of Fund assets.

To achieve these objectives, the assets of the Fund have been allocated to meet its actuarial assumed rate of return of 7.5%. To evaluate success, the Board compares the performance of the Fund to the actuarial assumed rate of return and its custom benchmark. This benchmark represents a passive implementation of the historical investment policy targets and it is re-balanced regularly.

While achieving the return objectives, the Fund is able to tolerate certain levels of risk, which are:

- To accept prudent levels of short-term and long-term volatility consistent with the near-term cash flow needs, funding level, and long-term liability structure of the Fund.
- To tolerate appropriate levels of downside risk relative to the Fund's actuarial assumed rate of return of 7.5%. In doing so, the Board will attempt to minimize the probability of underperforming the Fund's actuarial assumed rate of return over the long-term and to minimize the shortfall in the event such underperformance occurs.
- To accept certain variances in the asset allocation structure of the Fund relative to the broad financial markets and peer groups.
- To tolerate certain levels of short-term underperformance by the Fund's Investment Managers.

The investment objectives of the Fund are constrained by applicable law, time, taxes and liquidity. The Fund will operate in accordance with applicable law, as amended. The Fund has a long-term time horizon as the assets are used to pay qualified participant pension benefits. The Fund is a tax-exempt entity, but can be subject to taxes involving unrelated business taxable income ("UBTI"). UBTI is income earned by a tax-exempt entity that does not result from tax-exempt activities. The Fund will attempt to minimize or to avoid incurring UBTI. The liquidity needs of the Fund are to meet the regular cash flow requirements of the Fund.

Summary of Investment Policy (continued)

Asset Allocation and Rebalancing Procedures

The Board reviews the target asset allocation of the Fund at least once every three years. It will take into consideration applicable statutes, the actuarial rate of return of the Fund, the long term nature of the asset pool, the cash flow needs of the Fund and the general asset allocation structure of the Fund's peers. It will make assumptions on the capital markets over the long term and optimize the asset allocation to best meet the actuarial and cash flow needs of the Fund at prudent levels of risk.

The Board establishes the asset allocation targets and ranges and reviews them periodically. To ensure that the allocations meet the risk/return objectives of the Fund, the target allocations will be reviewed annually for reasonableness relative to significant economic market changes or changes to the long-term goals and objectives. Proper implementation of this guideline may require that a periodic adjustment or rebalancing be made to ensure conformance with asset allocation targets. Rebalancing requirements shall be reviewed on a continual basis. Rebalancing may also occur in the event of a change in the allocation percentages by asset class by the Board or as a result of extraordinary market events. Rebalancing shall take place as soon as practical after said change or amendment has been approved.

Schedule of Investment Results

For Year Ended December 31, 2014

		Annualized Returns		
	<u>1 year</u>	3 Years	5 Years	
Total Fund	5.9%	11.1%	9.3%	
Policy Benchmark *	6.4%	10.5%	9.1%	
Domestic Equity	10.6%	19.5%	14.8%	
Russell 3000	12.6%	20.5%	15.7%	
International Equity	-4.5%	10.4%	6.1%	
MSCI ACWI ex. U.S.	-4.9%	11.1%	5.3%	
Fixed Income	5.6%	3.1%	4.7%	
Barclays Aggregate	6.0%	2.8%	4.5%	
Real Estate	17.6%	12.4%	12.9%	
NCREIF	11.8%	11.1%	12.1%	
Private Equity	3.7%	15.0%	14.1%	
Wilshire 5000	12.7%	20.3%	15.6%	
Hedge Funds	6.0%	N/A	N/A	
Libor-3 Month+4%	4.2%	4.3%	4.3%	

^{*}The Policy Benchmark is as follows:

- As of December 31, 2013: 32% Barclays Aggregate Index, 31% Russell 3000 Index, 20% MSCI ACWI ex. U.S. Index, 9% Libor-3 Month+ 4.0% Index and 8% NCREIF Total Index.
- As of December 31, 2011: 25% Barclays Aggregate Index, 38% Russell 3000 Index, 17% MSCI ACWI ex. U.S. Index, 10% BarCap Int. Gov./Credit Inter, 5% Barclays US TIPS Index, 3% S&P Global ex. U.S. <\$2B. and 2% NCREIF Total Index.
- Prior to December 31, 2011: 17% S&P 500, 7% Russell Midcap Growth, 7% Russell 2000 Value, 6% Russell 1000 Value, 6% Russell 1000 Growth, 12% MSCI ACWI ex. U.S., 25% BarCap Aggregate, 10% BarCap Int. Gov./Cred., 5% BarCap U.S. TIPS, 3% S&P Global ex. U.S. <\$2B. and 2% NCREIF Total Index.
- Prior to August 31, 2010: 20% S&P 500, 7% Russell Midcap Growth, 7% Russell 2000 Value, 6% Russell 1000 Value, 6% Russell 1000 Growth, 12% MSCI ACWI ex. U.S., 25% BarCap Aggregate, 10% BarCap Int. Gov./Cred., 5% BarCap U.S. TIPS, and 2% NCREIF Total Index.
- Prior to February 28, 2010: 25% S&P 500, 7% Russell Midcap Growth, 7% Russell 2000 Value, 6% Russell 1000 Value, 6% Russell 1000 Growth, 12% MSCI ACWI ex. U.S., 30% BarCap Aggregate, 5% BarCap Int. Gov./Cred., and 2% NCREIF Total Index.

N/A - Not Available. Investments not held during that time period.

Note: Returns are calculated using geometrically-linked, time and asset-weighted returns. Returns are calculated net of investment manager fees.

Schedule of Investment Summary and Asset Allocation

	For Year Ended December 31, 2014			For Year Ended December 31, 2013		
	Percent of			Percent of		
Asset Class	<u>Fair Value</u>	<u>Total</u>	Target	<u>Fair Value</u>	<u>Total</u>	Target
Domestic Equity	\$2,699,034,603	31%	25%	\$2,749,455,019	32%	25%
International Equity	1,739,412,415	20%	20%	1,782,509,022	20%	20%
Fixed Income	2,192,046,956	25%	32%	2,087,882,961	24%	32%
Real Estate	725,428,369	8%	8%	709,952,408	8%	8%
Hedge Funds-of-Funds	800,093,500	9%	9%	756,879,345	9%	9%
Private Equity	86,623,407	1%	6%	61,576,550	1%	6%
Short Term Investments	587,544,324	7%	0%	555,524,046	6%	0%
Total Investments	\$8,830,183,574	100%	100%	\$8,703,779,351	100%	100%

Schedule of Top Ten Largest Holdings - Excludes Commingled Funds

	For year ended December 31, 2014						
Top 10 Domestic Equity Holdings	<u>Sector</u>	Shares	Fair Value	% of Total			
Apple Inc.	Technology	322,118	\$ 35,555,385	1.5%			
Microsoft Corp.	Technology	554,385	25,751,183	1.1%			
Berkhsire Hathaway Inc.	Financial Services	170,905	25,661,386	1.1%			
Exxon Mobil Corp.	Energy	275,158	25,438,357	1.0%			
General Electric Co.	Capital Goods	833,015	21,050,289	0.9%			
Intel Corp.	Technology	484,357	17,577,316	0.7%			
Chevron Corp.	Energy	142,966	16,037,926	0.7%			
Wells Fargo & Co.	Financial Services	283,416	15,536,865	0.6%			
3M Co.	Industrial Goods	92,074	15,129,600	0.6%			
Merck & Co. Inc.	Health Care	260,010	14,765,968	0.6%			
Total Top 10 Domestic Equity Holdings		3,418,404	\$ 212,504,275	8.7%			
Total Domestic Equity			\$2,433,233,735	100.0%			
T 1014 C 15 W H 15		GI.	F . X/ I	0/ CTF / 1			
Top 10 International Equity Holdings	Sector	<u>Shares</u>	Fair Value	% of Total			
Novartis (Switzerland)	Health Care	301,136	\$ 27,987,631	1.7%			
Roche Holding AG (Switzerland)	Health Care	75,587	20,531,305	1.2%			
Nestle (Switzerland)	Consumer Goods	270,625	19,868,257	1.2%			
British American Tobacco (United Kingdom)	Tobacco	301,091	16,431,665	1.0%			
Cie Financiere Richemont SA (Switzerland)	Retail	179,756	16,064,341	1.0%			
Prudential (United Kingdom)	Financial Services	667,223	15,522,283	0.9%			
HSBC Holdings (United Kingdom)	Financial Services	1,606,993	15,249,714	0.9%			
ASICS Corp. (Japan)	Retail	463,400	11,189,315	0.7%			
Vodafone Group PLC (United Kingdom)	Telecommunications	3,077,171	10,682,923	0.6%			
Samsung Electronics Co. Ltd. (South Korea)	Technology	8,724	10,532,456	0.6%			
Total Top 10 International Equity Holdings		6,951,706	\$ 164,059,890	9.8%			
Total International Equity	7		\$1,676,806,716	100.0%			

Schedule of Top Ten Largest Holdings (continued)

For year ended December 31, 2014

Top 10 Fixed Income Holdings	Sector	<u>Par</u>		Fair Value	% of Total
U.S. Treasury Note 2.500% 05/15/2024	U.S. Governments	34,010,000	\$	35,035,742	1.8%
Commitment to Purchase FNMA Pools 4.000% 01/01/2045	U.S. Agencies	18,500,000		19,744,125	1.0%
U.S. Treasury Note .875% 02/28/2017	U.S. Governments	19,542,000		19,589,292	1.0%
U.S. Treasury Note .625% 08/31/2017	U.S. Governments	14,190,000		14,054,769	0.7%
Commitment to Purchase FNMA Pools 3.500% 01/01/2045	U.S. Agencies	13,240,000		13,801,641	0.7%
Commitment to Purchase GNMA Pools 3.500% 01/20/2045	U.S. Agencies	12,500,000		13,121,125	0.7%
U.S. Treasury Note 3.125% 05/15/2019	U.S. Governments	11,200,000		11,939,424	0.6%
Morgan Stanley 4.875% 11/01/2022	Financial Services	11,155,000		11,847,502	0.6%
U.S. Treasury Note .375% 01/15/2016	U.S. Governments	11,071,000		11,077,975	0.6%
Mexican Bonos 6.500% 06/10/2021	Non-U.S.				
	Government Bonds	154,925,000		11,038,436	0.6%
Total Top 10 Fixed Income Holdings		300,333,000	\$	161,250,031	8.2%
Total Fixed Income			\$1	,966,877,767	100.0%

A complete list of the portfolio holdings is available for review upon request.

Schedule of Investment Manager Fees and Assets Under Management

For year ended December 31, 2014

Asset Category	Manager Fees	Assets Under Management
Global Equity		
Ariel Investments	\$ 286,491	\$ 46,960,699
CastleArk Management	468,586	155,756,873
Channing Capital Management	1,262,093	203,223,318
Fiduciary Management Associates	645,070	109,690,095
Fortaleza Asset Management, Inc.	117,893	30,595,187
Franklin Templeton Investments	1,869,623	242,073,416
Frontier Capital Management	922,650	126,796,545
Great Lakes Advisors, Inc.	370,534	255,103,459
Herndon Capital Management	375,111	70,196,875
J.P. Morgan Asset Management	1,208,709	253,172,891
Killian Capital Management	232,647	165,783,581
Lazard Asset Management, LLC	583,706	265,487,369
Lombardia Capital Partners	125,396	21,177,318
Mondrian Investment Partners, Ltd.	919,035	114,653,697
Progress Investment Management	1,627,372	248,322,847
RhumbLine Advisers	114,546	717,009,087
Russell Implementation Services, Inc.	765,530	510,082,580
State Street Global Advisors	314,418	692,340,173
Thornburg Investment Management	706,025	-
Wells Capital Management	870,372	89,473,037
William Blair & Company	847,206	120,547,971
Total Global Equity	14,633,013	4,438,447,018
Fixed Income		
Chicago Equity Partners	329,173	101,291,992
Franklin Templeton Investments	456,754	199,275,761
LM Capital Group, LLC	497,803	375,915,614
Loomis Sayles & Company, LP	789,040	323,971,652
MacKay Shields	822,394	308,146,057
Mellon Capital	121,818	557,357,367
NCM Capital	294,627	114,395,083
New Century Investment Management	411,532	210,936,925
Russell Implementation Services, Inc.		756,505
Total Fixed Income	3,723,141	2,192,046,956

Schedule of Investment Manager Fees and Assets Under Management (continued)

For year ended December 31, 2014

Asset Category	Manager Fees	Assets Under Management
Real Estate		
American Realty Advisors	723,666	-
Capri Capital Partners	244,939	15,554,031
CBRE Global Investors	355,630	42,764,936
Cozad Asset Management, Inc.	348,224	30,258,526
J.P. Morgan Asset Management	853,432	89,098,905
John Buck Company	90,260	4,624,327
LaSalle Investment Management	300,000	32,302,958
Prudential Real Estate Investors	677,304	91,890,643
Russell Implementation Services, Inc.	-	336,525,849
TIAA-CREF	714,956	82,408,194
Total Real Estate	4,308,411	725,428,369
Hedge Funds of Funds		
Blackstone Alternative Asset Management	4,157,108	424,100,631
Diversified Global Asset Management	2,032,829	207,731,503
The Rock Creek Group	1,267,862	168,261,366
Total Hedge Funds	7,457,799	800,093,500
Private Equity		
Arch Venture Partners	-	2,056,779
Credit Suisse Securities	57,642	2,362,215
Evergreen Venture Partners	3,921	5,706,501
Frontenac VIII	-	20,724
Lightspeed Venture Partners	9,429	1,765,404
Mesirow Financial	913,031	55,045,454
Muller and Monroe Asset Management	11,742	2,161,185
Opus Capital Group	1,631	328,726
Pacific Venture Group	28,306	1,968,381
SPC Capital Management	94,167	7,688,390
Trident Capital	-	4,248,313
William Blair & Company	-	310,354
Wind Point Partners	-	2,960,981
Total Private Equity	1,119,869	86,623,407
Short-Term Investments		
BNY Mellon	-	587,544,324
Total Investment Manager Expense	<u>\$31,242,233</u>	\$8,830,183,574

Schedule of Brokerage Commissions

For year ended December 31, 2014

Broker Name	Number of Shares	Commissions	Cost per Share
Domestic Equity Commissions			
Loop Capital Markets, LLC*	7,448,375	\$ 180,024	\$ 0.024
Merrill Lynch Securities	4,248,367	80,136	0.019
Cabrera Capital Markets*	3,051,104	76,480	0.025
Pershing LLC	6,929,398	68,956	0.010
Cheevers & Co., Inc.*	3,249,855	61,608	0.019
Credit Suisse	2,158,082	57,370	0.027
Williams Capital Group, LP*	2,517,658	41,048	0.016
UBS Securities	3,431,957	33,023	0.010
Robert W. Baird & Co., Inc.	883,149	31,083	0.035
Stifel, Nicolaus & Co.	985,273	29,839	0.030
Goldman Sachs	967,305	29,239	0.030
Liquidnet Inc.	1,291,865	28,487	0.022
Investment Technology Group	1,948,291	27,447	0.014
William Blair & Co.	795,327	25,329	0.032
J.P. Morgan Securities	885,933	24,873	0.028
Brokers with < \$24,000 of Commission	ons 16,827,069	451,476	0.027
Total Domestic Equity Commissions	57,619,008	\$1,246,418	\$ 0.022

^{*}Women/minority-owned brokerage firm. The Retirement Board's brokerage policy encourages investment manager, as they search for best possible trade execution, to utilize women/minority-owned enterprises, specifically firms headquartered in the State of Illinois.

Schedule of Brokerage Commissions (continued)

For year ended December 31, 2014

Broker Name	Number of Shares	Commissions	Cost per Share
International Equity Commissions			
UBS Securities	19,210,345	\$ 164,473	\$ 0.009
Merrill Lynch Securities	37,832,053	128,577	0.003
G-Trade Services, LTD	10,246,972	120,715	0.012
Citigroup Global Markets, Inc.	17,819,781	97,189	0.005
J.P. Morgan Securities	6,867,981	51,002	0.007
Morgan Stanley & Co.	4,763,967	50,749	0.011
Credit Suisse	4,666,638	47,645	0.010
Goldman Sachs	7,236,362	45,934	0.006
Instinet Corp.	23,904,544	45,383	0.002
Pershing, LLC	4,253,961	37,614	0.009
Deutsche Bank Securities, Inc.	3,768,080	29,755	0.008
Macquarie Securities	13,283,470	27,848	0.002
Barclays Capital	1,341,335	24,459	0.018
Cabrera Capital Markets*	3,229,047	21,141	0.007
Brokers with < \$21,000 of Commission	ons 42,257,554	299,621	0.007
Total International Equity Commission	<u>200,682,090</u>	\$1,192,105	\$ 0.006

^{*}Women/minority-owned brokerage firm. The Retirement Board's brokerage policy encourages investment manager, as they search for best possible trade execution, to utilize women/minority-owned enterprises, specifically firms headquartered in the State of Illinois.





This section includes the actuarial reports and summarizes actuarial liability and unfunded actuarial liability. Schedules of data summarizing information about members and beneficiaries, actuarial assumptions, principal provisions, and a glossary of terms are also included.

Actuarial Certification - Pension Benefits

buckconsultants



September 2015

Board of Trustees County Employees' and Officers' Annuity and Benefit Fund of Cook County Chicago, Illinois

Certification of Actuarial Valuation

Ladies and Gentlemen:

This report summarizes the annual actuarial valuation results of the County Employees' and Officers' Annuity and Benefit Fund of Cook County ("CEABF" or "the Fund") as of December 31, 2014 performed by Buck Consultants, LLC.

The actuarial valuation is based on audited financial and member data provided by the CEABF staff and summarized in this report. The benefits and funding policy considered are those delineated in the Plan, the CEABF was established on January 1, 1926 and is governed by legislation contained in the Illinois Compiled statutes, particularly Chapter 40, as amended and restated effective December 31, 2014. The Plan benefits and funding policy can only be changed by the Illinois State Legislature. The actuary did not verify the data submitted, but did perform tests for consistency and reasonableness.

All costs, liabilities and other factors under the Plan were determined in accordance with generally accepted actuarial principles and procedures. An actuarial cost method is used to measure the actuarial liabilities which we believe is reasonable. Certain historical information with respect to costs, liabilities, assets, accounting disclosure information, etc. has been derived from the prior actuary's reports and information provided by the Plan sponsor. That information is presented for comparison purposes and Buck Consultants has not verified the validity of any of those calculations or data. Buck Consultants, LLC is solely responsible for the actuarial data and actuarial results presented in this report, excluding the historical information and data just described. This report fully and fairly discloses the actuarial position of the Plan.

The CEABF is funded by Employer and Member Contributions. The County levies a tax annually equal to the total amount of contributions made by the members in the calendar year 2 years prior to the year of the levy, multiplied by 1.54. This funding mechanism is insufficient to meet the needs of the CEABF. We project that the CEABF will become insolvent in 2039. We recommend that a funding policy be legislated that is sufficient to pay the Normal Costs of active Plan members, Plan expenses, and amortize the Unfunded Actuarial Accrued Liability as a level percent of payroll (or salary) over a period no longer than 30 years.

The economic and demographic assumptions used in the valuation were adopted by the Board in consultation with Buck Consultants. The Board's established practice is to review the experience of the CEABF at least once every five years to determine if any changes to the valuation assumptions are warranted. The assumptions used in the valuation are based on recommendations made and approved by the Board as part of an Experience Study covering plan years from January 1, 2009 through December 31, 2012. This experience study was performed by Buck in January, 2014 and resulted in changes in the following assumptions:

- · Permanent Withdrawal from Active Status
- Retirement
- Salary Increase
- Inflation
- · Mortality and future mortality improvement

Actuarial Certification - Pension Benefits (continued)

In selecting economic assumptions, the interest rate of 7.50% is based upon a review of the existing portfolio structure, a review of recent experience, and information from the Board. The salary increase assumption is based on actual experience and future expectations of inflation, merit, and productivity components. In our opinion, the actuarial assumptions used are appropriate for purposes of the valuation and are reasonably related to the experience of the CEABF and to reasonable long-term expectations. The mortality improvement assumption was selected in accordance with Actuarial Standard of Practice No. 35. A summary of the actuarial assumptions and methods used in this actuarial valuation are shown on pages 103-107.

The assumptions and methods used to determine the Annual Determined Contributions (ADC) of the CEABF as outlined in this report and all supporting schedules meet the parameters and requirements for disclosure of Governmental Accounting Standards Board (GASB) Statement No. 67, Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans. Based on member data and asset information provided by the CEABF staff, we have prepared the Schedule of Funding Progress and Schedule of Employer Contributions that are included in the Financial Section of the Comprehensive Annual Financial Report.

No one may make any representations or warranties based on any statements or conclusions contained in this report without the written consent of Buck.

Future actuarial measurements may differ significantly from the current measurement presented in this report due to such factors as: plan experience different from that anticipated by the economic and demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements; and changes in plan provisions or applicable law. Due to the limited scope of this report, an analysis of the potential range of such future measurements has not been performed.

Please note that GASB Statement No. 25 (Financial Reporting for Defined Benefit Pension Plans) is applicable for fiscal years ending prior to 2014 and has been replaced by GASB Statement No. 67 (Financial Reporting for Pension Plans) for fiscal years ending 2014 and later. Similarly, GASB Statement No. 27 (Accounting for Pensions by State and Local Governmental Employers) is applicable for fiscal years ending prior to 2015 and has been replaced by GASB Statement No. 68 (Accounting and Financial Reporting for Pensions) for fiscal years ending 2015 and later. We have prepared the required accounting information for Governmental Accounting Standards Board (GASB) Statement No. 67 for the fiscal year ending December 31, 2014 based on a valuation date of December 31, 2013.

The undersigned is an Enrolled Actuary, an Associate of the Society of Actuaries and Member of the American Academy of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained in this report. This report has been prepared in accordance with all Applicable Actuarial Standards of Practice. He is available to answer any questions on the material contained in the report, or to provide explanations or further details as may be appropriate.

Respectfully submitted, BUCK CONSULTANTS, LLC

Larry Langer, EA, ASA, MAAA, FCA

Emily Urbaniak

Principal, Retirement

CC.

Actuarial Valuation - Pension Benefits

Overview

The County Employees' and Officers' Annuity and Benefit Fund of Cook County ("CEABF" or "the Fund) provides pension and ancillary benefit payments to the active, retired and separated employees of Cook County. A Retirement Board comprised of retiree, employee, and appointed representatives is responsible for administering the Plan and providing oversight of the investment policy. This report presents the results of the actuarial valuation of the Plan benefits as of the valuation date of December 31, 2014.

Purpose

An actuarial valuation is performed on the Plan annually as of the end of the fiscal year. The main purposes of the actuarial valuation detailed in this report are:

- 1. To determine the employer contribution necessary to fund the CEABF in an actuarially sound manner;
- 2. To disclose the funding assets and liability measures as of the valuation date;
- 3. To disclose the accounting measures for the Plan required by GASB No. 67 as of the end of the last fiscal year;
- 4. To review the current funded status of the Plan;
- 5. To compare actual and expected experience under the Plan during the last fiscal year;
- 6. And to report trends in contributions, assets, liabilities, and funded status over the last several years.

No one may make any representations or warranties based on any statements or conclusions contained in this report without the written consent of Buck. This actuarial valuation provides a "snapshot" of the funded position of the Plan based on the Plan provisions, membership, assets, and actuarial assumptions as of the valuation date.

Membership

Actives: As of December 31, 2014, there were 21,656 employees in active service (including 189 on disability) covered under the provisions of the Plan. The significant age, service, salary and accumulated contribution information for these employees is summarized below, along with comparative figures from the last actuarial valuation one year earlier.

	December 31, 2014	December 31, 2013
Number of active employees	21,656	21,287
Average age	47.2	47.5
Average years of service	13.7	14.0
Total annual valuation salary	\$1,514,550,023	\$1,484,269,715
Average annual salary	\$ 69,937	\$ 69,727
Total accumulated contributions	\$1,738,182,146	\$1,705,119,471
Average accumulated contributions	\$ 80,263	\$ 80,101

The number of active members increased by 1.7% from the previous valuation date. The average age and service of the active members decreased slightly. The total annual valuation salary increased by 2.0%. The average salary increased by 0.3% from the previous valuation.

Disabilities: There were 189 disabled members (included in the active data). There were 208 disabilities in the prior year.

Retirees and Beneficiaries: In addition to the active members, there were 14,437 retired members and 2,639 beneficiaries who are receiving monthly benefit payments on the valuation date. The significant age and annual benefit information for these members are summarized below with comparative figures from the last actuarial valuation performed one year earlier.

	December 31, 2014	<u>December 31, 2013</u>
Number of members receiving payments		
Retirees	14,437	14,080
Beneficiaries	2,639	2,597
Total	17,076	16,677
Average age	71.6	71.4
Annual benefit amounts		
Retirees	\$ 564,016,560	\$ 526,890,789
Beneficiaries	\$ 43,348,872	\$ 39,895,185
Total	\$ 607,365,432	\$ 566,785,974
Average annual benefit payments	\$ 35,568	\$ 33,986

The number of retired members and beneficiaries increased by 2.4% from the previous valuation date. The average age of the retired members increased by 0.2 years. The total annual benefit payments for these members increased by 7.2% from the previous valuation date.

Membership (continued)

Inactives: In addition to the active and retired members, there were 13,194 inactive members who did not elect to receive their accumulated contributions when they left covered employment. The age information for these inactive members is summarized below with comparative figures from the last actuarial valuation one year earlier.

	<u>December 31, 2014</u>	<u>December 31, 2013</u>
Number of inactive members	13,194	12,747
Average age	46.6	46.1

The number of inactive members increased by 3.5% from the previous valuation. The average age of the inactive members increased by 0.5 years.

In our opinion, the membership data collected and prepared for use in this actuarial valuation meets the data quality standards required under Actuarial Standards of Practice No. 23.

Plan Assets

The Plan's assets are held in trust and invested for the exclusive benefit of Plan members. The trust is funded by member and employer contributions, and pays benefits directly to eligible members in accordance with Plan provisions. The assets are audited annually and are reported at fair value. On a fair value basis, the Plan has Net Assets Available for Benefits of \$9.07 billion as of December 31, 2014. This includes an increase of \$141.0 million over the Net Assets Available for Benefits of \$8.93 billion as of December 31, 2013. During 2014, the fair value of assets experienced an investment rate of return of 5.89% (net of investment expenses), as reported by the investment consultant.

In order to reduce the volatility investment gains and losses can have on the Plan's actuarially required contribution and funded status, the Board has adopted a five-year smoothing method to determine the actuarial value of assets used for funding purposes. This method recognizes gains and losses, i.e. the difference between actual investment return during the year and the expected return based on the valuation interest rate, on a level basis over a five year period. In our opinion, this method complies with Actuarial Standards of Practice No. 44. As of December 31, 2014, the assets available for benefits on an actuarial value basis were \$8.81 billion. This includes an increase of \$429.1 million over the actuarial value of assets of \$8.38 billion as of December 31, 2013. During 2014, the actuarial value of assets experienced an actuarial rate of return of 8.9%.

A summary of the assets held for investment, a summary of changes in assets, and the development of the actuarial value of assets is shown on pages 90-92.

Actuarial Experience

Differences between the expected experience based on the actuarial assumptions and the actual experience create changes in the actuarial accrued liability, actuarial value of assets, and the unfunded actuarial accrued liability from one year to the next. These changes create an actuarial gain if the experience is favorable and an actuarial loss if the experience is unfavorable. The Plan experienced a total net actuarial gain of \$279.0 million during the prior year. This net gain is about 2.1% of the Plan's prior year actuarial accrued liability. The net gain is a combination of two principal factors, demographic experience and investment performance under actuarial smoothing. Below is a more detailed discussion.

The demographic experience tracks actual changes in the Plan's population compared to the assumptions for decrements such as mortality, turnover, and retirement, as well as pay increases. The Plan experienced a demographic gain of \$117.8 million during the year ending December 31, 2014. This gain decreased the unfunded actuarial accrued liability by \$117.8 million and increased the funded ratio by 0.5%.

There were 19,574 active members who were also reported active in the December 31, 2013 actuarial valuation. The total salary for this group increased by 2.0%, which was lower than the 4.0% increase we expected for the group.

Continued tracking of the demographic experience is warranted in order to confirm the appropriateness of the actuarial assumptions. Details of the demographic, economic, and other assumptions used to value the Plan liabilities and normal cost can be found on pages 105-107. In our opinion, the economic assumptions comply with Actuarial Standards of Practice No. 27 and the demographic assumptions comply with Actuarial Standards of Practice No. 35.

On the asset side, the Plan experienced a gain on an actuarial value of assets basis. The actual rate of return on the actuarial value of Plan assets for the year ending December 31, 2014 was approximately 8.9% compared to the assumption of 7.5%, resulting in an asset gain of \$161.1 million. This gain decreased the unfunded actuarial accrued liability by \$161.1 million and increased the funded ratio by 1.1%.

The rate of return on the fair value of assets for the year ending December 31, 2014 was lower than the assumed rate of 7.5%. The actuarial value of the assets recognizes only 20% of the 2014 loss on fair value, delaying the recognition of the remaining 80% over the next four years. Moreover, the actuarial value of assets also recognizes deferred portions of prior years' gains and losses on fair value. The investment gain recognized this year is primarily due to the investment gain in 2013. It should be noted that the Plan's assumed asset return of 7.5% is a long-term rate and short-term performance is not necessarily indicative of expected long-term future returns.

A summary of the actuarial gains and losses experienced during the prior year is shown on page 87.

Actuarial Contributions

The current contribution mechanism is not sufficient to fund the CEABF in an actuarially sound manner. The County levies a tax annually equal to the total amount of contributions made by the members in the calendar year 2 years prior to the year of the levy, multiplied by 1.54. This funding policy is insufficient to meet the needs of the CEABF. We project that the CEABF will become insolvent in 2039. We recommend that a funding policy be legislated that is sufficient to pay the Normal Costs of active Plan members, Plan expenses, and amortize the unfunded actuarial accrued liability as a level percent of payroll (or salary) over a period no longer than 30 years. We summarize those costs in the next paragraph.

The normal cost represents the cost of the benefits that accrue during the year for active members under the Entry Age Actuarial Cost Method. It is determined as a level percentage of pay which, if paid from entry age to the assumed retirement age, assuming all the actuarial assumptions are exactly met by experience, would accumulate to a fund sufficient to pay all benefits provided by the Plan. The expected member contributions are subtracted from this amount to determine the employer normal cost. The employer normal cost for 2015 has been determined to be \$99.8 million, or 6.71% of pay. This represents a decrease in the employer normal cost rate of 0.15% of pay from last year's employer normal cost rate of 6.86%.

The cost method also determines the actuarial accrued liability which represents the value of all accumulated past normal cost payments. This amount is compared to the actuarial value of assets to determine if the Plan is ahead or behind in funding as of the valuation date. The difference between the total actuarial accrued liability and the actuarial value of assets equals the amount of unfunded actuarial accrued liability or surplus (if negative) on the valuation date. This amount is amortized and added to the employer normal cost to determine the annual actuarially required employer contribution for the year.

The unfunded actuarial accrued liability as of December 31, 2014 is \$5.33 billion. This represents an increase of \$74.9 million in the unfunded actuarial accrued liability from last year's amount of \$5.26 billion. The annual payment required to amortize the unfunded actuarial accrued liability of \$5.33 billion as of December 31, 2014 is \$419.8 million, or 28.21% of pay.

The annual actuarially required employer contribution for 2015 is \$519.6 million, or 34.92% of pay. This represents an increase of \$4.5 million in the employer contribution amount of \$515.2 million for 2014, or an increase of 0.03% of pay from last year's employer contribution rate of 34.89%.

The actuarial liabilities and development of the annual actuarial employer contribution is shown on page 85.

In our opinion, the measurement of the benefit obligations and determination of the actuarial cost of the Plan is performed in compliance with Actuarial Standards of Practice No. 4.

Funded Status

The funded status is a measure of the progress that has been made in funding the Plan as of the valuation date. It is determined as a ratio of the actuarial value of assets divided by the total actuarial accrued liability on the valuation date. A ratio of over 100% represents a Plan that is ahead in funding, and a ratio of less than 100% represents a Plan that is behind in funding on the valuation date.

As of December 31, 2014 the funded ratio of the Plan is 62.3%. This represents an increase of 0.8% from last year's funded ratio of 61.5% as of December 31, 2013.

A history of the unfunded actuarial accrued liability and the funded ratio is shown on page 89.

Accounting Information

The Governmental Accounting Standards Board (GASB) issues statements which establish financial reporting standards for defined benefit pension Plans and accounting for the pension expenditures and expenses for governmental employers. The required financial reporting information for the Plan and the Employer under GASB No. 67 can be found on pages 94-97.

Changes in Plan Provisions

There were no changes in benefits or other Plan provisions considered in this actuarial valuation since the last valuation performed as of December 31, 2013.

Changes in Actuarial Assumptions, Methods, or Procedures

There have been no changes in asset valuation method or actuarial assumptions since the last actuarial valuation performed as of December 31, 2013.

Comparative Summary of Key Actuarial Valuation Results

	Actuarial Valuation as of	
	December 31, 2014	December 31, 2013
Summary of Member Data		
Number of Members Included in the Valuation		
Active Members	21,656	21,287
Retirees and Beneficiaries	17,076	16,677
Inactive Members	13,194	12,747
Total	51,926	50,711
Annual Payroll		
Average (actual)	\$69,937	\$69,727
Annual Benefit Payments		
Retirees and Beneficiaries (Average) ¹	\$35,568	\$33,986
Investment Returns		
Fair Value - Rate of Return (net of investment expenses)	5.9%	15.1%
Actuarial Value - Rate of Return	8.9%	11.0%
Summary of Assets and Liabilities		
Total Actuarial Accrued Liability	\$14,140,547,353	\$13,636,576,177
Actuarial Value of Assets	\$ 8,810,509,070	\$ 8,381,444,287
Unfunded Actuarial Accrued Liability	\$ 5,330,038,283	\$ 5,255,131,890
Funded Ratio	62.31%	61.46%
Employer Actuarial Required Contribution		
Employer Normal Cost	\$ 99,828,114	\$ 101,247,203
Amortization of Unfunded Actuarial Accrued Liability (Surplus)	\$ 419,814,817	\$ 413,914,894
Employer Actuarial Required Contribution	\$ 519,642,931	\$ 515,162,097

¹ The average annual benefit payments for retirees only is \$39,067 as of December 31, 2014 and \$37,421 as of December 31, 2013.

Actuarial Liabilities and Normal Cost

For the Fiscal Year ending December 31, 2014

Actuarial Liabilities	Totals
1. Present Value of Projected Benefits	
for Active Members	
Retirement Benefits	\$ 7,245,723,121
Withdrawal Benefits	314,174,481
Death Benefits	151,568,704
Total	7,711,466,306
2. Retired Members and Beneficiaries Receiving Benefits	7,295,515,219
3. Inactive Members with Deferred Benefits	684,751,329
4. Total Present Value of Projected Benefits (1. + 2. + 3.)	15,691,732,854
5. Present Value of Future Normal Costs	1,551,185,501
6. Total Actuarial Accrued Liability (4. – 5.)	\$14,140,547,353

Normal Cost	Totals	% of Pay
1. Active Members		
a. Retirement Benefits	\$ 180,403,562	12.13%
b. Withdrawal Benefits	30,578,609	2.05%
c. Duty Disability Benefits	1,469	0.00%
d. Ordinary Disability Benefits	4,867,616	0.33%
e. Death Benefits	5,417,994	0.36%
f. Administrative Expenses	5,260,716	0.35%
2. Total Normal Cost	226,529,966	15.22%
3. Expected Member Contribution	126,701,852	8.51%
4. Employer Normal Cost (23.)	\$ 99,828,114	6.71%

Actuarial Contributions*

Development of Employer Contribution		ding December 31,
Development of Employer Contribution	<u>2015</u>	<u>2014</u>
1. Valuation Payroll	\$ 1,488,404,826	\$ 1,476,638,324
2. Total Actuarial Accrued Liability		
a. Active Members		
i. Retirement Benefits	5,889,309,065	5,882,103,044
ii. Withdrawal Benefits	158,524,080	162,031,124
iii. Death Benefits	112,447,660	113,321,107
iv. Total	6,160,280,805	6,157,455,275
b. Retired Members and Beneficiaries Receiving Benefits	7,295,515,219	6,822,552,230
c. Inactive Members with Deferred Benefits	684,751,329	656,568,672
d. Total $(2.a.iv. + 2.b. + 2.c.)$	14,140,547,353	13,636,576,177
3. Actuarial Value of Assets	8,810,509,070	8,381,444,287
4. Unfunded Actuarial Accrued Liability (UAAL) (2.d 3.)	5,330,038,283	5,255,131,890
5. Funded Ratio (3. / 2.d.)	62.31%	61.46%
6. UAAL as a Percent of Annual Payroll (4. / 1.)	358.10%	355.88%
7. Amortization Payment for UAAL		
a. Amount	419,814,817	413,914,894
b. As a % of pay	28.21%	28.03%
8. Employer Normal Cost		
a. Amount	99,828,114	101,247,203
b. As a % of pay	6.71%	6.86%
9. Employer Actuarial Required Contribution		
a. Amount	519,642,931	515,162,097
b. As a % of pay	34.92%	34.89%
10. Funding Period (years)	30	30

^{*} The contribution rates above are amounts needed to fund the CEABF in an actuarially responsible manner.

Actuarial (Gain)/Loss

Development of Actuarial (Gain) / Loss	Amount
1. Expected Actuarial Accrued Liability	
a. Actuarial Accrued Liability at December 31, 2013	\$13,636,576,177
b. Normal Cost at December 31, 2013	226,950,841
c. Interest on a. + b. to End of Year	1,039,764,526
d. Benefit Payments and Refunds, with Interest to End of Year	644,906,705
e. Expected Actuarial Accrued Liability Before Changes	
(a. + b. + c d.)	14,258,384,839
f. Change in Actuarial Accrued Liability at December 31, 2014,	
Due to Change in Actuarial Assumptions	0
g. Change in Actuarial Accrued Liability at December 31, 2014,	
Due to Change in Actuarial Methods	0
h. Expected Actuarial Value of Assets at December 31, 2014	
(e. + f. + g.)	14,258,384,839
2. Actuarial Accrued Liability at December 31, 2014	14,140,547,353
3. Liability (Gain) / Loss (2. – 1.h.)	(117,837,486)
4. Expected Actuarial Value of Assets	
a. Actuarial Value of Assets at December 31, 2013	8,381,444,287
b. Interest on a. to End of Year	628,608,322
c. Contributions Made for December 31, 2014	279,154,692
d. Interest on c. to End of Year	10,279,053
e. Benefit Payments and Administrative Expenses	
with Interest to End of Year	650,101,397
f. Change in Actuarial Value of Assets at December 31, 2014	
due to Change in Method	0
g. Expected Actuarial Value of Assets at December 31, 2014	
(a. + b. + c. + d e f.)	8,649,384,957
5. Actuarial Value of Assets as of December 31, 2014	8,810,509,070
6. Actuarial Asset (Gain) / Loss (4.g 5.)	(161,124,113)
7. Actuarial (Gain) / Loss (3. + 6.)	\$ (278,961,599)

Analysis of Experience

Analysis of Actuarial (Gains) and Losses Resulting From Differences Between Assumed Experience and Actual Experience

Type of (Gain) or Loss	Year End December 31, 2014	As % of Last Year's AAL
1. COLA Experience	\$ 0	0.00%
2. Salary Experience	(148,871,075)	-1.09%
3. Investment Experience	(161,124,113)	-1.18%
4. Retiree Mortality Experience	3,192,766	0.02%
5. Contribution Shortfall	369,086,683	2.71%
6. (Gain) or Loss During Year From Experience,		
(1. + 2. + 3. + 4. + 5.)	62,284,261	0.46%
7. Asset Valuation Method	0	0.00%
8. Past Service Amortization Change	0	0.00%
9. Assumption and Method Changes	0	0.00%
10. Coding Changes	0	0.00%
11. Other (turnover, retirement ages, service purchase, etc.)	(341,245,860)	-2.50%
12. Total (Gain) or Loss During Year,	\$(278,961,599)	-2.05%

Actuarial Balance Sheet

Financial Resources	December 31, 2014
1. Actuarial Value of Assets	\$ 8,810,509,070
2. Present Value of Future Contributions	
a. Expected Member Contributions	867,602,990
b. Employer Normal Cost	683,582,511
c. Total	1,551,185,501
3. Unfunded Actuarial Accrued Liability/(Reserve)	5,330,038,283
4. Total Assets (1. + 2.c. + 3.)	15,691,732,854
Benefit Obligations	
1. Present Value of Future Benefits	
a. Active Members	7,711,466,306
b. Retirees and Beneficiaries	7,295,515,219
c. Inactive Members	684,751,329
d. Total	\$15,691,732,854

History of UAAL and Funded Ratio

	Actuarial	Actuarial		Unfunded
Valuation Date	e Accrued	Value	Funded Ratio	Actuarial
December 31,	Liability (AAL)	of Assets (AVA)	(AVA as a % of AAL)	Accrued Liability (UAAL)
2005	\$ 9,269,944,133	\$7,027,508,138	75.81%	\$2,242,435,995
2006	8,826,581,465	7,462,683,122	84.55%	1,363,898,343
2007 1	9,386,287,797	8,059,879,804	85.87%	1,326,407,993
2008 1	10,097,027,865	8,036,074,797	79.59%	2,060,953,068
2009 1	11,489,081,298	7,945,567,096	69.16%	3,543,514,202
2010 1	12,023,222,885	7,982,368,659	66.39%	4,040,854,226
2011 1	12,628,274,561	7,897,102,116	62.54%	4,731,172,445
2012 1	13,418,486,943	7,833,882,926	58.38%	5,584,604,017
2013 1	13,636,576,177	8,381,444,287	61.46%	5,255,131,890
2014 1	14,140,547,353	8,810,509,070	62.31%	5,330,038,283

Reconciliation of Change in Unfunded Actuarial Liability

Development of Unfunded Actuarial Liability	Amount
1. Unfunded Actuarial Accrued Liability as of December 31, 2013	\$5,255,131,890
2. Employer Contribution Requirement of Normal Cost Plus Interest	
on Unfunded Liability for Period January 1, 2014 to December 31, 2014	502,975,635
3. Actual Employer Contribution for the Year, Plus Interest	151,454,213
4. Increase in Unfunded Liability Due to Employer Contribution Plus	
Interest Being Less Than Normal Cost Plus Interest on Unfunded Liability (2 3.)	351,521,422
5. Decrease in Unfunded Liability Due to Investment Return Higher Than Assumed	(161,124,113)
6. Decrease in Unfunded Liability Due to Salary Increases Lower Than Assumed	(148,871,075)
7. Increase in Unfunded Liability Due to Other Sources	33,380,159
8. Net Increase in Unfunded Liability for the Year (4. + 5. + 6. + 7.)	74,906,393
9. Unfunded Actuarial Liability as of December 31, 2014 (1.+ 8.)	\$5,330,038,283

¹ Pension benefits only

Summary of Fair Value of Assets

	Fair Value as of December 31,					
	<u>201</u>	<u>4</u>	<u>2013</u>	<u>2013</u>		
Asset Category	Amount	<u>%</u>	Amount	<u>%</u>		
1. Short-Term Investments	\$ 587,544,323	5.79%	\$ 555,524,046	5.56%		
2. Investments at Fair Value						
a. U.S. and International Equities	4,110,040,451	40.54%	4,233,234,375	42.32%		
b. U.S. Government and Government Agency Obligations	1,109,668,190	10.94%	1,238,436,393	12.38%		
c. Corporate Bonds	857,209,577	8.45%	823,905,648	8.24%		
d. Collective International Equity Fund	57,477,592	0.57%	56,828,124	0.57%		
e. Commingled Fixed Income Fund	25,893,428	0.26%	25,540,920	0.26%		
f. Exchange Traded Funds	607,454,824	5.99%	526,730,533	5.27%		
g. Private Equities	285,899,168	2.82%	61,576,550	0.62%		
h. Hedge Funds	800,093,500	7.89%	756,879,345	7.57%		
i. Real Estate	388,902,521	3.84%	425,123,417	4.25%		
j. Total	8,242,639,251	81.30%	8,148,255,305	81.48%		
3. Collateral Held for Securities Lending	1,308,676,647	12.91%	1,296,354,976	12.96%		
4. Total Assets (1. + 2.j. + 3.)	10,138,860,221	100.00%	10,000,134,327	100.00%		
5. Receivables						
a. Interest and Dividends	22,205,338		22,451,594			
b. Investments Sold	162,275,218		80,795,327			
c. Other Receivables	194,103,288		204,360,932			
d. Total	378,583,844		307,607,853			
6. Payables						
a. Investments Purchased	135,337,446		79,326,462			
b. Securities Lending Collateral	1,308,676,647		1,296,354,976			
c. Other Payables	5,031,192		4,694,086			
d. Total	1,449,045,285		1,380,375,524			
7. Net Assets for Pension Benefits [4. + 5.d. – 6.d.]	\$9,068,398,780		\$8,927,366,656			

Changes in Fair Value of Assets

b. End of Year

Transactions		
	December 31, 2014	<u>December 31, 2013</u>
Additions		
1. Contributions		
a. Contributions from Employers	\$ 146,075,414	\$ 147,720,014
b. Contributions from Plan Members	129,325,318	127,593,220
c. Total	275,400,732	275,313,234
2. Net Investment Income		
a. Interest and Dividends	190,780,701	180,520,971
b. Net Appreciation	325,036,291	1,022,073,991
c. Net Securities Lending Income	4,865,250	4,368,637
d. Total	520,682,242	1,206,963,599
e. Less Investment Expense	31,791,345	27,523,480
f. Net Investment Income	488,890,897	1,179,440,119
g. Miscellaneous	3,578,590	4,147,157
h. Employee Transfers	175,370	(106,012)
3. Total Additions	768,045,589	1,458,794,498
Deductions		
4. Benefits and Expenses		
a. Retirement Benefits	595,655,898	557,165,806
b. Refund of Contributions	26,347,361	29,873,030
c. Administrative Expenses	5,010,206	4,324,634
5. Total Deductions	627,013,465	591,363,470
6. Net Increase	141,032,124	867,431,028
7. Net Assets Held in Trust for Pension Benefits	, ,	, ,
a. Beginning of Year	8,927,366,656	8,059,935,628
	, , , , , , , , , , , , , , , , , , , ,	

\$9,068,398,780

\$8,927,366,656

Actuarial Value of Assets

Development of Actuarial Value	ue of Assets		<u>Amount</u>
1. Actuarial Value of Assets as of December 31, 2013			\$8,381,444,287
2. Unrecognized Return as of D	· ·		545,922,369
3. Fair Value of Assets as of Dec			8,927,366,656
4. Contributions	, , ,		
a. Member (includes purcha	ased service)		129,325,318
b. Employer	,		146,075,414
c. Miscellaneous contribution	ons		3,753,960
d. Total	279,154,692		
5. Distributions			
a. Benefit payments			595,655,898
b. Refund of contributions			26,347,361
c. Administrative expenses			5,010,206
d. Total			627,013,465
6. Expected Return at 7.50% on			
a. Item 1.			628,608,322
b. Item 2.			40,944,178
c. Item 4.d.			10,279,053
d. Item 5.d.			23,087,932
e. Total $(a. + b. + c d.)$			656,743,621 488,890,897
7. Actual Return on Fair Value f	7. Actual Return on Fair Value for Fiscal Year, Net of Investment Expenses		
8. Return to be Spread for Fisca	1 Year (7. – 6.e.)		(167,852,724)
9. Total Fair Value of Assets as	of December 31, 2014		9,068,398,780
10. Return to be Spread			
	Return to	Unrecognized	Unrecognized
Fiscal Year	be Spread	<u>Percent</u>	Return
2014 2013	(167,852,724)	80% 60%	(134,282,179)
2013	586,433,767 339,499,232	40%	351,860,260 135,799,693
2012	(477,440,319)	20%	(95,488,064)
2010	320,259,720	0%	0
	, ,	Total	257,889,710
11. Actuarial Value of Assets (9	- 10.)		\$8,810,509,070
12. Recognized Rate of Return for the Year on Actuarial Value of Assets			8.94%
13. Rate of Return for the Year on Market Value of Assets			
(reported by investment consu	ltant - net of inv. exp.)		5.89%

Schedule of Funding Progress

The liabilities and assets resulting from the last ten actuarial valuations are as follows:

		Actuarial Accrued				UAAL as a
	Actuarial	Liability (AAL)	Unfunded AAL	Funded	Covered	Percentage of
Actuarial	Value of Assets	Entry Age	(UAAL)	Ratio	Payroll	Covered Payroll
Valuation Date	<u>(a)</u>	<u>(b)</u>	<u>(b-a)</u>	<u>(a/b)</u>	<u>(c)</u>	(b-a)/(c)
December 31, 2005	\$7,027,508,138	\$ 9,269,944,133	\$2,242,435,995	75.81%	\$1,387,459,142	2 161.62%
December 31, 2006	7,462,683,122	8,826,581,465	1,363,898,343	84.55%	1,412,878,62	7 96.53%
December 31, 2007 ¹	8,059,879,804	9,386,287,797	1,326,407,993	85.87%	1,370,844,734	96.76%
December 31, 2008 1	8,036,074,797	10,097,027,865	2,060,953,068	79.59%	1,463,372,40	3 140.84%
December 31, 2009 1	7,945,567,096	11,489,081,298	3,543,514,202	69.16%	1,498,161,713	3 236.52%
December 31, 2010 1	7,982,368,659	12,023,222,885	4,040,854,226	66.39%	1,494,093,569	270.46%
December 31, 2011 ¹	7,897,102,116	12,628,274,561	4,731,172,445	62.54%	1,456,444,123	3 324.84%
December 31, 2012 1	7,833,882,926	13,418,486,943	5,584,604,017	58.38%	1,478,253,368	377.78%
December 31, 2013 ¹	8,381,444,287	13,636,576,177	5,255,131,890	61.46%	1,484,269,71	5 354.06%
December 31, 2014 ¹	8,810,509,070	14,140,547,353	5,330,038,283	62.31%	1,514,550,022	351.92%

¹ Pension benefits only

Schedule of Employer Contributions

The required contributions and actual percentages contributed over the last ten years are as follows:

Fiscal Year Ended	Employer Annual Required		Percentage
December 31,	Contribution (ARC)	Employer Contribution	Contributed
2005	\$428,971,126	\$218,292,478	50.89%
2006	282,223,686	198,619,984	70.38%
2007	287,061,532 1	230,114,335 1	80.16%
2008	283,892,734 1	150,227,360 1	52.92%
2009	352,850,988 1	152,506,089 1	43.22%
2010	454,327,461 1	144,539,577 1	31.81%
2011	493,724,370 1	160,652,118 1	32.54%
2012	540,218,287 1	152,734,539 1	28.27%
2013	595,370,046 1	147,720,014 1	24.81%
2014	515,162,097 1	147,075,414 1	28.36%

¹ Pension benefits only

Schedule of Expected Changes in Net Pension Liability as of December 31, 2014

The GASB Statement No. 67 Change in Net Pension Liability

Total Pension Liability

Service Cost Interest Changes of Benefit Terms Difference between Expected and Actual Experience Change of Assumptions	\$	491,887,347 958,433,835 - -
Benefit Payments, including Refund of Member Contributions		(622,003,259)
Net Change in Total Pension Liability		828,317,923
Total Pension Liability - Beginning of Year Total Expected Pension Liability - End of Year Plan Fiduciany Not Position		21,117,643,943 21,945,961,866
Plan Fiduciary Net Position		
Employer Contributions	\$	146,075,414
Member Contributions		129,325,318
Net Investment Income		488,890,897
Benefit Payments, including Refund of Member Contributions		(622,003,259)
Administrative Expenses		(5,010,206)
Other	_	3,753,960
Net Change in Plan Fiduciary Net Position		141,032,124
Plan Fiduciary Net Position - Beginning of Year	\$	8,927,366,656
Expected Plan Fiduciary Net Position - End of Year	\$	9,068,398,780

Net Pension Liability (Asset)

The GASB Statement No. 67 Net Pension Liability

Net Pension Liability (Asset)

	<u>December 31, 2014</u>	<u>December 31, 2013</u>
Total Pension Liability	\$ 21,945,961,866	\$ 21,117,643,943
Plan Fiduciary Net Position	9,068,398,780	8,927,366,656
Net Pension Liability (Asset)	\$ 12,877,563,086	\$ 12,190,277,287
Plan Fiduciary Net Position		
as a Percentage of the Total Pension Liability (Asset)	41.32%	42.27%

Sensitivity

The GASB Statement No. 67 Sensitivity of Net Pension Liability

Sensitivity of the Expected Net Pension Liability to Changes in the Discount Rate

	1% Decrease	Current	1% Increase
Discount Rate	3.50%	4.50%	5.50%
Net Pension Liability (Asset)	\$16,898,354,682	\$12,877,563,086	\$ 9,717,606,697

The discount rate used to measure the total pension liability was 4.50%. The projection of cash flows used to determine the discount rate assumed that CEABF's contributions will continue to follow the current funding policy, which levies a tax annually equal to the total amount of contributions made by the members in the calendar year 2 years prior to the year of the levy, multiplied by 1.54. Based on this assumption, the Plan's fiduciary net position was projected to be insufficient to make all projected future benefit payments of current plan members. A municipal bond rate of 3.34% was used in the development of the blended GASB discount rate after that point. The 3.34% rate is based on the S&P Municipal Bond 20 Year High Grade Rate Index as of December 31, 2014. Based on the long-term rate of return of 7.50% and the municipal bond rate of 3.34%, the blended GASB discount rate would be 4.50%. Please see the supporting exhibits for additional detail.

Pension Expense

The GASB Statement No. 68 Pension Expense for the Fiscal Year Ending December 31, 2014

Pension Expense for The Fiscal Year Ending December 31, 2014

Service Cost	\$ 491,887,347
Interest	958,433,835
Difference between Expected and Actual Experience	-
Change of Assumptions	-
Contributions Member	(129,325,318)
Expected Earnings on Plan Investments	(656,743,621)
Difference between Expected and Actual Earnings	33,570,545
Administrative Expense	5,010,206
Other	(3,753,960)
Changes of Benefit Terms	
Total Pension Expense	699,079,034

GASB Statement No. 67 Actuarial Assumptions and Methods (for accounting purposes)

Valuation date:	12/31/2014
Actuarial cost method:	Entry Age
Asset valuation method:	Market
Actuarial assumptions:	
- Investment Rate of Return	7.50%
- Municipal Bond Rate	3.34%
- Projected Salary Increases	8.00% - 3.75%
- Inflation Assumption	3.25%

The discount rate used to measure the total pension liability was 4.50%. The projection of cash flows used to determine the discount rate assumed that County contributions will continue to follow the current funding policy based on the tax levy. Based on this assumption, the Plan's fiduciary net position was projected to be insufficient to make all projected future benefit payments of current plan members. A municipal bond rate of 3.34% was used in the development of the blended GASB discount rate after that point. The 3.34% rate is based on the S&P Municipal Bond 20 Year High Grade Rate Index as of December 31, 2014. Based on the long-term rate of return of 7.50% and the municipal bond rate of 3.34%, the blended GASB discount rate would be 4.50%. See the preceding exhibits for more detail.

Investment Rate of Return Detail

Investment Rate of Return Detail

		Long-Term	Money
	Target	Expected Real	Weighted Real
	Allocation	Rate of Return	Rate of Return
Domestic Equity	25.00%	9.36%	2.34%
International Equity	20.00%	7.66%	1.53%
Fixed Income	32.00%	2.00%	0.64%
Real Estate	8.00%	6.83%	0.55%
Private Equity	9.00%	4.72%	0.42%
Hedge Funds	6.00%	12.41%	0.74%
	100.00%		6.23%
Inflation			3.25%
Investment Rate of Return			9.48%

The long-term expected rate of return on the Fund's investments was determined based on the results of an experience review performed by Buck Consultants. The results of the experience were presented to the Board by Buck Consultants at the Board's January 9, 2014 Meeting and adopted at the same meeting. The investment return assumption was based on the current asset allocation of the fund. In the experience review, Buck Consultants developed best estimate ranges of expected future real rates of return (net of pension plan investment expense and inflation) were developed for each major asset class. These ranges were combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates or geometric real rates of return for each major asset class included in the Fund's target asset allocation as of December 31, 2013 are listed in the table above.

Brief Summary of Benefit Provisions

<u>Participant.</u> A person employed by the County whose salary or wages is paid in whole or in part by the County. An employee in service on or after January 1, 1984 shall be deemed as a participant regardless of when he or she became an employee.

<u>Service</u>. For all purposes except the minimum retirement annuity and ordinary disability benefit, service during four months in any calendar year constitutes one year of service. For the minimum retirement annuity, all service is computed in whole calendar months. Service for any 15 days in a calendar month shall constitute a month of service.

For purposes of the minimum retirement annuity, service shall include:

- a. Any time during which the employee performed the duties of his or her position and contributed to the County Employees' and Officers' Annuity and Benefit Fund of Cook County (CEABF).
- b. Vacations and leaves of absence with whole or part pay.
- c. Periods during which the employee receives a disability benefit from the CEABF, and
- d. Certain periods of accumulated sick leave.

<u>Retirement Annuity - Eligibility</u>. An employee who withdraws from service with 10 or more years of service is entitled to a retirement annuity upon attainment of age 50.

Retirement Annuity - Amount

Money Purchase Annuity. The amount of annuity based on the sum accumulated from the employee's salary deductions for age and service annuity plus 1/10 of the sum accumulated from the contributions by the County for age and service annuity for each completed year of service after the first 10.

Minimum Formula Annuity. The amount of annuity provided is equal to 2.4% of final average salary for each year of service. Final average salary is the highest average monthly salary for any 48 consecutive months within the last 10 years of service. Salary for pension purposes is actual salary earned exclusive of overtime or extra salary. The maximum amount of annuity is 80% of final average salary.

If an employee retires before age 60, the annuity is reduced by 0.5% for each full month or fraction thereof that the employee is under age 60 when the annuity begins, unless the employee has 30 or more years of service, in which case there is no reduction for retirement before age 60.

If the Minimum Formula Annuity is greater than the Money Purchase Annuity, the employee is entitled to receive the Minimum Formula Annuity.

Automatic Increase in Retirement Annuity. Employees who retire from service having attained age 60 or more, or, if retirement occurs on or after January 1, 1991, with at least 30 years of service, 3% of the annuity beginning January of the year following the year in which the first anniversary of retirement occurs. If retirement is before age 60 with less than 30 years of service, increases begin in January of the year immediately following the year in which age 60 is attained. Beginning January 1, 1998, increases are calculated as 3% of the monthly annuity payable at the time of the increase.

Brief Summary of Benefit Provisions (continued)

Optional Plan of Contributions and Benefits. During the period through June 30, 2005, an employee may establish optional credit for additional benefits by making additional contributions of 3% of salary. The additional benefit is equal to 1% of final average salary for each year of service for which optional contributions have been paid. The additional benefit shall be included in the calculation of the automatic annual increase and the calculation of the survivor's annuity.

Alternate Annuity for County Officers. An alternate annuity is available for county officers elected on or before January 1, 2008. The amount of this alternate annuity is equal to 3% of final salary for the first 8 years of service, 4% for the next 4 years of service, and 5% thereafter, subject to a maximum of 80% of final salary. The elected county officer is required to contribute an additional 3% of salary to be eligible for the alternate annuity. The alternate survivor's annuity for survivors of elected county officers is 66-2/3% of the amount of the elected county officer's earned retirement annuity on the date of death, subject to a minimum payment of 10% of salary.

<u>Annuities for Members of the Cook County Police Department.</u> In lieu of the regular of minimum retirement annuity, a deputy sheriff who is a member of the County Police Department may be entitled to the following annuity:

Upon withdrawal from service after having attained age 50 in service with 20 or more years of service credit as a police officer, the officer shall be entitled to an annuity computed as follows: 50% of final average salary, plus 2% of final average salary for each year of service in excess of 20 years, subject to a maximum of 80% of final average salary.

Surviving Spouse's Annuity - Death in Service

Money Purchase Annuity- Death In Service. The amount of annuity based on the accumulated salary deductions and County contributions for both the employee and the spouse.

Minimum Formula Annuity. A minimum annuity is provided for the eligible surviving spouse of an employee who dies in service with any number of years of service. The amount of such minimum spouse's annuity is equal to 65% of the annuity the employee would have been entitled to as of the date of death, provided the spouse on such date is age 55 or older, or that the employee had 30 or more years of service. If the spouse is under age 55 and the employee had less than 30 years of service, the amount of the spouse's annuity shall be discounted by .5% for each month that the spouse is less than age 55 on the date of the employee's death. The amount of the surviving spouse's annuity shall not be less than 10% of the employee's final average salary as of the date of death.

If the Minimum Formula Annuity is greater than the Money Purchase Annuity, the surviving spouse shall be entitled to receive the Minimum Formula Annuity.

Surviving Spouse's Annuity - Death after Retirement. The amount of the annuity is the greater of the money purchase annuity or the minimum formula annuity. The surviving spouse of an annuitant who dies on or after July 1, 2002 shall be entitled to an annuity of 65% of the employee's annuity at the time of death if the employee had at least 10 years of service, reduced by .5% per month that the spouse is under age 55 at the time of the employee's death. There is no reduction for age if the employee had at least 30 years of service.

Brief Summary of Benefit Provisions (continued)

<u>Automatic Annual Increase in Surviving Spouse's Annuity</u>. On the January 1 occurring on or immediately after the first anniversary of the deceased employee's death, the surviving spouse's annuity shall be increased by 3% of the amount of annuity payable at the time of the increase. On each January 1 thereafter, the annuity shall be increased by an additional 3% of the amount of annuity payable at the time of the increase.

<u>Child's Annuity.</u> Annuities are provided for unmarried children of a deceased employee who are under age 18. An adopted child is entitled to the child's annuity if such child was legally adopted at least one year before the child's annuity becomes payable. The child's annuity is payable under the following conditions:

(a) the death of the employee was a duty related death; or (b) if the death is not a duty related death, the employee died while in service and had completed at least four years of service from the date of his or her original entrance in service and at least two years from the latest re-entrance: or (c) if the employee died while in receipt of an annuity, her or she must have withdrawn from service after attainment of age 50.

The amount of the annuity is the greater of 10% of the employee's final salary at the date of death or \$140 per month for each child.

<u>Duty Disability Benefits</u>. Duty disability benefits are payable to an employee who becomes disabled as a result of an accidental injury incurred while in the performance of an act of duty. Benefits begin on the first regular and normal work date for which the employee does not receive a salary. The amount of the duty disability benefit is equal to 75% of the employee's salary at the date of injury, reduced by the amount the employee receives from Workers' Compensation. However, if the disability, in any measure has resulted from any physical defect or disease that existed at the time such injury was sustained, the duty disability benefit shall be 50% of salary. The CEABF contributes the 8.5% (9% for County Police) of salary normally contributed by the employee for pension purposes.

If the disability commences prior to age 60, duty disability benefits are payable during disability until the employee attains age 65. If the disability begins after age 60, the benefit is payable during disability for a period of 5 years.

Recipients of duty disability benefits also have a right to receive child's disability benefits of \$10 per month on account of each unmarried child less than age 18. Total children's disability benefits shall not exceed 15% of the employee's salary.

Ordinary Disability Benefits. Ordinary disability benefits are provided for employees who become disabled as the result of any cause other than injury incurred in the performance of an act of duty. The amount of the benefit is 50% of the employee's annual salary at the time of disability. The CEABF also contributes the 8.5% (9% for County Police) of salary normally contributed by the employee for pension purposes.

Ordinary disability benefits are payable after the first 30 days of disability provided the employee is not then in receipt of salary. Ordinary disability benefits are payable until the first of the following shall occur:

- (a) the disability ceases; or
- (b) the date that total payments equal the lesser of (1) 1/4 of the total service rendered prior to disability, and (2) five years.

An employee unable to return to work at the expiration of ordinary disability benefit is entitled to an annuity beginning on the date of the employee's withdrawal from service regardless of age on such date.

Brief Summary of Benefit Provisions (continued)

<u>Death Benefit.</u> Upon the death of an active or retired employee, a death benefit of \$1,000 is payable to the employee's designated beneficiary or to the employee's estate if no beneficiary has been designated.

Group Health Benefits. The CEABF may pay all or any portion of the premium for health insurance on behalf of each annuitant who participates in any of the CEABF's health care Plans. As of January 1, 2014, the CEABF is paying 52% of the premiums for retiree annuitants and 67% of the premiums for survivor annuitants.

Refund to Employee Upon Withdrawal From Service. Upon withdrawal from service, an employee under the age of 55, or anyone with less than 10 years of service is eligible for a refund. The employee is entitled to a refund of the amount accumulated to his or her credit for age and service annuity and the survivor's annuity together with the total amount contributed for the automatic annual increase, without interest. Upon receipt of such refund, the employee forfeits all rights to benefits from the CEABF.

<u>Election of Refund in Lieu of Annuity.</u> If an employee's annuity or spouse's annuity is less than \$150.00 per month, such employee or spouse annuitant may elect a refund of the employee's accumulated contributions in lieu of a monthly annuity.

<u>Refund For Surviving Spouse's Annuity.</u> If an employee is unmarried at the time of retirement, all contributions for surviving spouse's annuity will be refunded with interest at the rate of 3% per year, compounded annually.

Refund of Remaining Amounts. In the event that the total amount accumulated to the account of employee from employee contributions for annuity purposes has not been paid to the employee and surviving spouse as a retirement or surviving spouse's annuity before the death of the survivor of the employee and spouse, a refund of any excess amount shall be paid to the children of the employee, in equal parts, or if there are no children, to the beneficiaries of the employee or the administrator of the estate.

Employee Contributions. Employees contribute through salary deductions 8.5% (9% for County Police) of salary to the CEABF, 6.5% (7% for County Police) being for the retirement annuity. 1.5% being for the surviving spouse's annuity, and .5% being for the automatic increase in retirement annuity.

<u>Employer Contributions.</u> The County levies a tax annually equal to the total amount of contributions made by employees in the calendar year 2 years prior to the year of the levy, multiplied by 1.54.

Employer Pick-up of Employee Contributions. Since April 15, 1982, regular employee contributions have been designated for federal income tax purposes as being made by the employer. The employee's W-2 salary is therefore reduced by the amount of contribution. For pension purposes, the salary remains unchanged. For purposes of benefits, refunds, and financing, these contributions are treated as employee contributions.

Brief Summary of Benefit Provisions (continued)

Persons Who First Become Participants On or After January 1, 2011

The following changes to the aforementioned provisions apply to persons who first become participants on or after January 1, 2011 (Tier 2 employees):

- 1. The highest salary for annuity purposes is equal to the average monthly salary obtained by dividing the participant's total salary during the 96 consecutive months of service within the last 120 months of service in which the total compensation was the highest by the number of months in that period.
- 2. For 2011, the annual salary is limited to the Social Security wage base of \$106,800. Limitations for future years shall automatically be increased by the lesser of 3% or one-half of percentage change in the Consumer Price Index-U for the 12 months ending in September.
- 3. A participant is eligible to retire with unreduced benefits at age 67 with at least 10 years of service credit. However, a participant may elect to retire at age 62 with at least 10 years of service credit and receive a retirement annuity reduced by one-half of 1% for each month that his or her age is under 67.
- 4. The initial survivor's annuity is equal to 66-2/3% of the participant's earned retirement annuity at the date of death, subject to automatic annual increases of the lesser of 3% or one-half of the increase in the Consumer Price Index-U for the 12 months ending in September, based on the originally granted survivor's annuity.
- 5. Automatic annual increases in the retirement annuity then being paid are equal to the lesser of 3% or one-half the annual change in the Consumer Price Index-U, whichever is less, based on the originally granted retirement annuity.
- 6. Refund upon withdrawal from service. Upon withdrawal from service, an employee who withdraws from service before age 62 regardless of length of service or withdraws with less than 10 years of service regardless of age is entitled to a refund of total contributions made by the employee without interest.

Description of Actuarial Methods and Valuation Procedures

Actuarial Cost Method

Liabilities and contributions shown in this report are computed using the Entry Age Actuarial Cost Method of funding.

Sometimes called a "funding method," this is a particular technique used by actuaries for establishing the amount and incidence of the annual actuarial cost of pension Plan benefits, or normal cost, and the related unfunded actuarial accrued liability. Ordinarily the annual contribution to the Plan is comprised of (1) the normal cost and (2) an amortization payment on the unfunded actuarial accrued liability.

The actuarial cost method selected for funding purposes should conform to actuarial standards of practice and allocate normal costs over a period beginning no earlier than the date of employment and should not exceed the last assumed retirement age. Moreover, the selected actuarial cost method should be designed to fully fund the long-term costs of promised benefits, consistent with the objective of keeping contributions relatively stable and equitably allocating the costs over the employees' period of active service. While this is not the only method that would satisfy this criterion, the entry age method level percentage of pay normal cost is especially well suited to achieving this purpose.

Under the Entry Age Actuarial Cost Method, the **Normal Cost** is computed as the level percentage of pay which, if paid from the earliest time each Member would have been eligible to join the Plan if it then existed (thus, entry age) until his retirement or termination, would accumulate with interest at the rate assumed in the valuation to a fund sufficient to pay all benefits under the Plan

The Normal Cost for the Plan is determined by summing individual results for each active Member and determining an average normal cost rate by dividing the summed individual normal costs by the total payroll of Members before assumed retirement age.

The **Actuarial Accrued Liability** under this method at any point in time is the theoretical amount of the fund that would have accumulated had annual contributions equal to the Normal Cost been made in prior years (it does not represent the liability for benefits accrued to the valuation date.)

The **Unfunded Actuarial Accrued Liability** is the excess of the Actuarial Accrued Liability over the Actuarial Value of Plan Assets actually on hand on the valuation date. The Unfunded Actuarial Accrued Liability is amortized as a level percent of payroll over an open 30-year period.

Under this method experience gains or losses, i.e. decreases or increases in accrued liabilities attributable to deviations in experience from the actuarial assumptions, adjust the Unfunded Actuarial Accrued Liability.

Description of Actuarial Methods and Valuation Procedures (continued)

Asset Valuation Method

The actuarial value of assets is based on a five-year smoothing method and is determined by spreading the effect of each year's investment return in excess of or below the expected return. The Fair Value of assets at the valuation date is reduced by the sum of the following:

- (i) 80% of the return to be spread during the first year preceding the valuation date,
- (ii) 60% of the return to be spread during the second year preceding the valuation date,
- (iii) 40% of the return to be spread during the third year preceding the valuation date, and
- (iv) 20% of the return to be spread during the fourth year preceding the valuation date.

The return to be spread is the difference between (1) the actual investment return on Fair Value and (2) the expected return on Fair Value.

Valuation Procedures

No actuarial liability is included for members who terminated non-vested prior to the valuation date, except those due a refund of contributions.

No termination or retirement benefits were projected to be greater than the dollar limitation required by the Internal Revenue Code Section 415 for governmental Plans.

Annual increases in salary were limited to the dollar amount defined under Internal Revenue Code Section 401(a)(17) for affected members.

Summary of Actuarial Assumptions and Changes in Assumptions

The actuarial assumptions used for the December 31, 2014 actuarial valuation are summarized below. The mortality rate, termination rate, retirement rate, and salary assumptions are based on an experience analysis of CEABF, over the period 2009 through 2012. These assumptions were adopted by the Board as of December 31, 2013, based on the recommendation from the actuary.

Mortality Rates. RP-2000 Blue Collar Mortality Table, base year 2000, fully generational based on Scale BB.

Termination Rates. Termination rates based on the recent experience of the CEABF were used. The following is a sample of the termination rates used:

Rates of Termination Age at Entrance

Attain	ed	Ma	ales			Fem	ales	
Age	22	27	32	37	22	27	32	37
22	.225				.200			
27	.128	.145			.115	.183		
32	.030	.116	.165		.030	.117	.165	
37	.030	.030	.105	.141	.030	.030	.093	.114
42	.030	.030	.030	.085	.030	.030	.030	.060
47	.030	.030	.030	.030	.030	.030	.030	.030

Summary of Actuarial Assumptions and Changes in Assumptions (continued)

<u>Retirement Rates</u>. For persons who became participants prior to January 1, 2011, rates of retirement for each age from 50 to 75 based on the recent experience of the CEABF. The following are samples of the rates of retirement used:

Less Than 30 Years of Service at Retirement

	Rates of F	Rates of Retirement		
<u>Age</u>	Males	Females		
50-54	.040	.040		
55-58	.080	.060		
59	.150	.100		
60	.150	.150		
61-64	.125	.145		
65-69	.225	.200		
70	.250	.200		
71	.300	.240		
72	.350	.280		
73	.400	.320		
74	.450	.360		
75	1.000	1.000		

30 or More Years of Service at Retirement

	Rates of Retiremen		
<u>Age</u>	Males	Females	
50-54	.350	.300	
55-59	.275	.200	
60	.225	.400	
61-64	.225	.250	
65-69	.270	.200	
70	.450	.200	
71	.540	.240	
72	.630	.280	
73	.720	.320	
74	.810	.360	
75	1.000	1.000	

Retirement Rates for Deputy Sheriffs Who Are Members of the Cook County Police Department With 20 or More Years of Service at Retirement

	Rates of Retirement		
<u>Age</u>	Males	Females	
50-59	.100	.100	
60-64	.200	.200	
65	1.000	1.000	

Summary of Actuarial Assumptions and Changes in Assumptions (continued)

<u>Retirement Rates</u>. For persons who became or will become participants on or after January 1, 2011, rates of retirement for each age from 62 to 75 were used. The following are samples of the rates of retirement that were used:

	Rates of I	Rates of Retirement			
<u>Age</u>	Males	Females			
62	.400	.350			
64	.225	.150			
67	.400	.350			
70	.450	.200			
75	1.000	1.000			

Interest Rate. 7.5% per year, compounded annually.

<u>Inflation Rate.</u> 3.25% per year, compounded annually.

Salary Rate (net of inflation):

<u>Age</u>	Rate:
25	.0375
30	.0275
35	.0175
40	.0075
45+	.0050

<u>Loading for Reciprocal Benefits</u>. Costs and liabilities of active employees were loaded by 1% for reciprocal annuities where the County is the last employer. It was assumed that 50% of inactive members with one or more year of service would receive a reciprocal annuity where the County is not the last employer. These reciprocal annuities were valued as of the member's retirement date as 10 times an inactive member's accumulated contributions.

Marital Status. 85% of participants were assumed to be married.

<u>Spouse's Age</u>. The spouse of a male employee was assumed to be four years younger than the employee. The spouse of a female employee was assumed to be four years older than the age of the employee.

<u>Inactives.</u> Benefits were estimated based on service and pay and valued as deferred to 55 annuities.

Actuarial Valuation - Pension Benefits (continued)

Glossary of Terms

Actuarial Accrued Liability Total accumulated cost to fund pension benefits arising from service

in all prior years.

Actuarial Cost Method Technique used to assign or allocate, in a systematic and consistent

manner, the expected cost of a pension Plan for a group of

Plan members to the years of service that give rise to that cost.

Actuarial Present Value of Future Benefits Amount which, together with future interest, is expected to be sufficient

to pay all future benefits

Actuarial Valuation Study of probable amounts of future pension benefits and the necessary

amount of contributions to fund those benefits.

Actuary Person who performs mathematical calculations pertaining to pension

and insurance benefits based on specific procedures and assumptions.

Annual Required Contribution Disclosure measure of annual pension cost.

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Maturity Ratio The ratio of the actuarial accrued liability for members who are no

longer active to the total actuarial accrued liability. A ratio of over 50% indicates a mature Plan. The higher the maturity ratio, the more volatile the contribution rate will be from year to year given actuarial

gains and losses.

Normal Cost That portion of the actuarial present value of benefits assigned to a

particular year in respect to an individual participant or the plan as

a whole.

Unfunded Actuarial Accrued Liability

(UAAL)

The portion of the actuarial accrued liability not offset by plan assets.

Vested Benefits Which are unconditionally guaranteed regardless of

employment status.

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Actuarial Certification - Postemployment Healthcare

buckconsultants



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tel 312-846-3802 fax 312-846-3999

June 24, 2015

Board of Trustees County Employees' and Officers' Annuity and Benefit Fund of Cook County Chicago, Illinois

Certification of Actuarial Valuation

Ladies and Gentlemen:

This report summarizes the actuarial valuation results of County Employees' and Officers' Annuity and Benefit Fund of Cook County ("CEABF" or "the Fund") as of December 31, 2014 performed by Buck Consultants, LLC.

The purpose of this valuation is to determine the Annual Required Contribution ("ARC") for the Plan year January 1, 2015 through December 31, 2015, as well as the funded status of the Plan as of the valuation date, December 31, 2014. The ARC and funded status are determined in accordance with GASB Statement No. 43, *Financial Reporting for Postemployment Benefit Plans Other than Pension Plans* ("GASB 43"). The results may also be used by the government of Cook County for use in determining the County's ARC and Annual OPEB Cost ("AOC") in accordance with GASB Statement No. 45, *Accounting and Financial Reporting by Employers for Postemployment Benefit Other Than Pensions* ("GASB 45").

The actuarial valuation is based on unaudited financial data, working rates, plan information and census data provided by Fund staff and summarized in this report. The calculations rely on this information and are only as accurate as the information provided. The benefits considered in this valuation are postretirement health only. The County may offer other postemployment benefits that warrant measurement under GASB 45. However, the scope of this valuation is limited to the County's postretirement health and welfare benefit program as described in this report. The actuary did not verify the data and information submitted but did perform tests for consistency and reasonableness.

All costs, liabilities and other factors under the Plan were determined in accordance with generally accepted actuarial principles and procedures. An actuarial cost method is used to measure the actuarial liabilities which we believe is reasonable.

The Fund is currently not funded for health liabilities. We recommend that a funding policy be legislated that is sufficient to pay the Normal Costs of active Plan members, Plan expenses, and amortize the Unfunded Actuarial Accrued Liability as a level percent of payroll (or salary) over a period no longer than 30 years.

Effective January 1, 2015 the medical administrator changed from BCBS to UHC and there were also improved pharmacy contracting provisions put in place. These changes and their impact on the plan are described in the Executive Summary.

The actuary for CEABF performs an analysis of plan experience periodically and recommends changes in basic assumptions if, in the opinion of the actuary, assumption changes are needed to more accurately reflect expected future experience. On January 9, 2014 the Retirement Board adopted revised assumptions for use in valuing the

Plan. These assumptions were based on an experience analysis performed by Buck Consultants, which reviewed experience for the four-year period ending December 31, 2012. Additional changes to health care specific assumptions were made in the current year to account for recent experience and trends. We believe the economic and demographic assumptions used are reasonable for financial accounting purposes and represent a reasonable estimate of the plan's future economic and demographic experience. A summary of the actuarial assumptions and methods used in this actuarial valuation are shown at the end of this section.

The assumptions and methods used to determine the ARC of CEABF as outlined in this report and all supporting schedules meet the parameters and requirements pursuant to GASB 43 and GASB 45. Based on member data and asset information provided by the Fund staff, we have prepared the Schedule of Funding Progress and Schedule of Employer Contributions that are included in the Financial Section of the Comprehensive Annual Financial Report.

The undersigned are Members of the American Academy of Actuaries and in combination meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained in this report. To the best of the undersigned actuaries' knowledge, the actuarial statement contained in this report is complete and accurate. The calculations in this report have been prepared in accordance with all Applicable Actuarial Standards of Practice. We are available to answer any questions on the material contained in the report or to provide explanations or further details as may be appropriate.

BUCK CONSULTANTS, LLC

Daniel A. Levin, FSA, MAAA, FCA, CEBS

Daniel a. Levin

Principal, Health & Productivity

Larry Langer, EA, ASA, MAAA, FCA

Principal, Retirement

Actuarial Valuation - Postemployment Healthcare

Overview

The County Employees' and Officers' Annuity and Benefit Fund of Cook County ("CEABF" or "the Fund") offers health benefits to separated and retired employees of Cook County and their eligible dependents. This report presents the results of the actuarial valuation of the Plan benefits as of the valuation date of December 31, 2014.

Purpose

This report had been prepared at the request of the Fund for use in financial reporting of CEABF under GASB 43. The results may also be used for purposes of the County's financial statements under GASB 45. It may not be appropriate for other purposes, such as analyzing proposed design alternatives, funding, pricing or option evaluation. Use of this report for any other purpose may not be appropriate and may result in mistaken conclusions due to failure to understand applicable assumptions, methodologies or inapplicability of the report for that purpose. No one may make any representations or warranties based on any statements or conclusions contained in this report without the written consent of Buck.

Membership

Summary of Membership Data

	Year Ending December 31,	
	<u>2014</u>	<u>2013</u>
1. Annuitants Currently Receiving Benefits	8,591	8,536
2. Separated Employees Entitled To Benefits But Not Yet Receiving Them	1,309	1,353
3. Active Employees	21,656	21,287
4. Total Number of Members	31,556	31,176

Changes in Plan Provisions

The following changes in benefits and other plan provisions have been made since the last valuation performed as of December 31, 2013:

 The United Healthcare Choice and Choice Plus plans replaced the prior BlueCross BlueShield plan options effective January 1, 2015.

Changes in Actuarial Assumptions, Methods, or Procedures

The following changes have been made to the actuarial assumptions or valuation procedures since the last actuarial valuation performed as of December 31, 2013:

- The health care cost trend rate has been revised from an initial rate of 7.0% reducing to 5.0% in 2018 to separate preand post-Medicare rates. The initial pre-Medicare rate is 8.00% reducing to 4.75% by 2028. The initial post-Medicare rate is 6.50% reducing to 4.75% by 2022.
- The percentage of terminated vested individuals who retiree with medical coverage has been revised to vary based on age (rather than assuming 100% retire at age 61).

Changes in the Actuarial Accrued Liability (AAL)

	Accrued Liability (AAL)	% Change
December 31, 2013 Report	\$1,978,767,490	
Expected Growth Due to the Passage of Time	112,098,440	5.7%
Demographic Experience	(20,178,753)	-1.0%
Updated Per Capita Health Plan Experience	(27,544,331)	-1.3%
Prescription Plan Contracting Savings	(18,279,667)	-0.9%
Medical Plan Contracting Savings	(60,867,742)	-3.0%
Updated Health Care Trend Rate Assumptions	32,727,204	1.7%
Updated Term Vest Election Assumption	(7,403,004)	-0.4%
Change in Projected Excise Tax	(9,231,019)	<u>-0.5%</u>
December 31, 2014 Report	\$1,980,088,617	0.1%

Note: AAL does not reflect Retiree Drug Subsidy (RDS) Payments, since GASB 43/45 rules do not allow it.

Development of Annual Required Contribution (ARC)

Development of Employer Contribution	December 31, 2014 Valuation ARC for Fiscal Year 2015	December 31, 2013 Valuation ARC for Fiscal Year 2014
1. Annual Payroll	\$1,514,550,023	\$1,484,269,715
 2. Actuarial Accrued Liability a. Active Members b. Inactive Members with Deferred Benefits c. Retired Members and Beneficiaries Receiving Benefits d. Total (a. + b. + c.) 	1,107,098,509 46,937,834 826,052,274 1,980,088,617	1,105,242,788 55,323,148 818,201,554 1,978,767,490
3. Actuarial Value of Assets	-	-
4. Unfunded Actuarial Accrued Liability (UAAL)	1,980,088,617	1,978,767,490
5. UAAL as a Percent of Annual Payroll	130.7%	133.3%
6. Amortization Payment for UAAL a. Amount b. As a % of pay	116,326,024 7.7%	116,248,411 7.8%
7. Employer Normal Cost a. Amount b. As a % of pay	67,311,816 4.4%	66,437,678 4.5%
8. Interest Cost	7,233,612	7,221,113
9. Annual Required Contribution (6. + 7. + 8.)	190,871,452	189,907,202
10. Pay-go Costs for the Year ¹	46,291,195	48,487,043
11. Amortization Period (years)	30	30

¹ Source: Estimated amount for 2015; for 2014 as provided by CEABF. Pay-as-you-go costs are net of prescription drug rebates but do not reflect the Retiree Drug Subsidy offset due to GASB 43/45 accounting rules.

Schedule of Funding Progress

A history of the GASB Statement No. 45 liabilities and assets follows:

Actuarial						UAAL as a
Valuation Date	Actuarial	Actuarial Accrued	Unfunded	Funded	Covered	Percentage of
December 31,	Value of Assets	Liability	Liability	<u>Ratio</u>	<u>Payroll</u>	<u>Payroll</u>
2007	\$ -	\$1,554,123,496	\$1,554,123,496	0.0%	\$1,370,844,734	113.4%
2008	-	1,448,828,756	1,448,828,756	0.0%	1,463,372,408	99.0%
2009	-	1,686,872,018	1,686,872,018	0.0%	1,498,161,713	112.6%
2010	-	1,724,622,462	1,724,622,462	0.0%	1,494,093,569	115.4%
2011	-	1,678,571,388	1,678,571,388	0.0%	1,456,444,123	115.3%
2012	-	1,845,609,132	1,845,609,132	0.0%	1,478,253,368	124.9%
2013	-	1,978,767,490	1,978,767,490	0.0%	1,484,269,715	133.3%
2014	-	1,980,088,617	1,980,088,617	0.0%	1,514,550,023	130.7%

Schedule of Employer Contributions

A history of the GASB Statement No. 45 required contributions and actual percentages follow:

Fiscal Year Ended December 31,	Annual Required Contribution (ARC)	Employer Contribution	Employer Contribution as a Percent of ARC
2007	\$169,154,664	\$31,420,216	18.57%
2008	169,823,905	37,781,310	22.25%
2009	157,964,519	35,779,228	22.65%
2010	163,823,488	40,183,057	24.53%
2011	165,176,771	38,185,306	23.12%
2012	156,700,388	37,986,237	24.24%
2013	178,698,965	40,097,630	22.44%
2014	189,907,202	43,957,4581	23.15%

¹ Source: Total Employer's Contribution for 2014 as provided by CEABF.

GASB 45 Net OPEB Obligation (NOO) as of December 31, 2014

1. NOO as of December 31, 2013	\$732,880,371
2. Annual Required Contribution (ARC)	189,907,202
3. Interest on NOO	32,979,617
4. Adjustment to ARC	_(44,992,657)
5. Annual OPEB Cost for 2014 (2. + 3. + 4.)	177,894,162
6. Total Employer Contribution for 2014 ¹	43,957,458
7. NOO as of December 31, 2014 (1. + 5 6.)	\$866,817,075

¹ Source: Total Employer's Contribution for 2014 as provided by CEABF.

Summary of Substantive Plan Provisions

Eligibility

Tier 1 retirement (hired before January 1, 2011)

• Age 50 and 10 years of service

Tier 2 retirement (hired on or after January 1, 2011)

• Age 62 and 10 years of service

All active employee members who separate with 10 or more years of service can receive postretirement health benefits under the Plan upon receipt of annuity benefits, provided that if they elect to retire under the Illinois Reciprocal Act, CEABF is their final retirement system.

Surviving dependents of actively employed members and surviving dependents of covered annuitants are eligible for postretirement health benefits under the Plan upon receipt of annuity benefits.

Eligible annuitants may cover their spouses and dependent children under the age of 26 and all disabled children (no age limitation).

Medical Plans

Non-Medicare retirees can choose from:

- United Healthcare Choice Plan
- United Healthcare Choice Plus Plan

Medicare eligible retirees can choose from:

- United Healthcare Choice Plan
- United Healthcare Choice Plus Plan

All Medicare plans are supplemental to Medicare Part A & B benefits.

A retail and mail pharmacy benefit through CVS/Caremark is included with the election of any medical plan.

Summary of Substantive Plan Provisions (continued)

Contributions

CEABF pays 52% of the total premium for retiree annuitants, including the cost of family coverage, and 67% of the total premium for survivor annuitants, including the cost of family coverage.

The following are the annual working rates effective January 1, 2015. These rates represent an estimated cost of self-insured coverage and include administrative expenses.

The working rates below reflect expected RDS payments. It was assumed that in the absence of RDS, the working rates would increase by the assumed value of the subsidy.

	Choice Plan	Choice Plus Plan
Single w/o Medicare	\$11,268	\$15,672
Two w/o Medicare	22,524	31,332
Single w/ Medicare	4,872	4,236
Two w/ Medicare	9,756	8,472

Assumptions and Methods

The actuarial assumptions used for the December 31, 2014 actuarial valuation are summarized below. The mortality rate, termination rate, retirement rate and salary assumptions are based on an experience analysis of CEABF, over the period 2009 through 2012. These assumptions were adopted by the Board on January 9, 2014.

Valuation Date December 31, 2014

Discount Rate 4.50%

Salary Scale

<u>Age</u>	<u>Inflation</u>	<u>Merit</u>	Total
•	2.224	4 = = 0 /	0.000/
<21	3.25%	4.75%	8.00%
21	3.25%	4.55%	7.80%
22	3.25%	4.35%	7.60%
23	3.25%	4.15%	7.40%
24	3.25%	3.95%	7.20%
25	3.25%	3.75%	7.00%
26	3.25%	3.55%	6.80%
27	3.25%	3.35%	6.60%
28	3.25%	3.15%	6.40%
29	3.25%	2.95%	6.20%
30	3.25%	2.75%	6.00%
31	3.25%	2.55%	5.80%
32	3.25%	2.35%	5.60%
33	3.25%	2.15%	5.40%
34	3.25%	1.95%	5.20%
35	3.25%	1.75%	5.00%
36	3.25%	1.55%	4.80%
37	3.25%	1.35%	4.60%
38	3.25%	1.15%	4.40%
39	3.25%	0.95%	4.20%
40	3.25%	0.75%	4.00%
41	3.25%	0.55%	3.80%
42+	3.25%	0.50%	3.75%

Assumptions and Methods (continued)

Termination Rates The following is a sample of the termination rates used.

Age at Entrance

Attained		Males			Females	
<u>Age</u>	27	32	37	<u>27</u>	32	37
27	.145			.183		
32	.116	.165		.117	.165	
37	.030	.105	.141	.030	.093	.114
42	.030	.030	.085	.030	.030	.060
47	.030	.030	.030	.030	.030	.030

Retirement Rates For deputy sheriffs who are members of the Cook County Police department who became participants prior to January 1, 2011 (Tier 1):

Service at retirement	< 20	Years	≥20 \	Years
<u>Age</u>	Male	Female	Male	Female
50	.010	.012	.100	.100
55	.060	.072	.100	.100
60	.250	.216	.200	.200
65	.150	.120	1.000	1.000
70	.250	.200	1.000	1.000
75	1.000	1.000	1.000	1.000

For other members who became participants prior to January 1, 2011 (Tier 1):

Service at retirement	< 30	Years	≥30 Years		
<u>Age</u>	Male	<u>Female</u>	Male	Female	
50	.040	.040	.350	.300	
55	.080	.060	.275	.200	
60	.150	.150	.225	.400	
65	.225	.200	.270	.200	
70	.250	.200	.450	.200	
75	1.000	1.000	1.000	1.000	

Assumptions and Methods (continued)

For members who became participants on or after January 1, 2011 (Tier 2):

<u>Age</u>	<u>Male</u>	Female
62	.400	.350
64	.225	.150
67	.400	.350
70	.450	.200
75	1.000	1.000

Mortality Rates The RP-2000 Blue Collar table, base year 2000, fully generational based on scale BB.

Disability Rates Included in termination and retirement rates.

Anticipated Plan Participation

70% of eligible employees are assumed to elect retiree medical benefits.

30% of vested terminated employees are assumed to elect retiree medical benefits upon retirement, and are assumed to retire according to the rates below:

<u>Age</u>	% Who Elect
55-59	6%
60-61	20%
62-64	5%
65-69	20%
70-74	25%
75+	15%

Based on recent experience, future annuitants are assumed to elect from among the available plans as follows:

% Who Elect	Choice Plan	Choice Plus Plan
Pre-Medicare	80%	20%
Post-Medicare	55%	45%

Current annuitants who elect coverage are assumed to remain in coverage. Current annuitants who have waived or deferred coverage are not assumed to participate in the future.

Dependent Coverage

40% of future annuitants are assumed to cover a dependent. 40% of surviving dependents are assumed to elect coverage upon the death of an actively employed member and are assumed to commence benefits when the actively employed member would have reached age 61. Males are assumed to be 4 years older than females. Actual ages were used for dependents of current annuitants.

Assumptions and Methods (continued)

Per Capita Health Plan Costs Estimated net annual per capita incurred claim costs per covered adult for fiscal 2015 at age 65, reflecting administrative expenses, drug rebates, and the Retiree Drug Subsidy.

	<u>Choice Plan</u>	Choice Plus Plan
Not Medicare eligible	\$12,789	\$17,108
Medicare eligible	3,980	3,217

Per capita medical costs were developed from the medical working rate provided by the Fund for calendar year 2015, adjusting for age morbidity. The working rates reflect expected RDS payments. Since GASB 43/45 requires AAL and ARC to be calculated without reduction for RDS payments, the above per capita costs were adjusted upward to include the assumed value of RDS payments, an average of \$597 per eligible individual, for fiscal 2015. The valuation relies on the accuracy of the rate calculations. We understand that the rates represent medical benefit costs only for annuitants under the Fund.

Age-Based Morbidity

Per capita costs are adjusted to reflect expected cost increases related to age. The increase in the net incurred claims was assumed to be:

<u>Age</u>	Annual Increase	<u>Age</u>	Annual Increase
49 and below	2.5%	70-74	2.5%
50-54	3.3%	75-79	2.0%
55-59	3.6%	80-84	1.0%
60-64	4.2%	85-89	0.5%
65-69	3.0%	90 and over	0.0%

Assumptions and Methods (continued)

Health Care Cost Health care cost trend rates apply to expected claims, premiums and retiree contributions: **Trend Rates**

Year	Pre-Medicare	Post-Medicare
2015	8.00%	6.50%
2016	7.75%	6.25%
2017	7.50%	6.00%
2018	7.25%	5.75%
2019	7.00%	5.50%
2020	6.75%	5.25%
2021	6.50%	5.00%
2022	6.25%	4.75%
2023	6.00%	4.75%
2024	5.75%	4.75%
2025	5.50%	4.75%
2026	5.25%	4.75%
2027	5.00%	4.75%
2028+	4.75%	4.75%

Census Data

The active, deferred vested, and retiree census were provided by the Fund.

Actuarial Cost Method The entry age actuarial cost as a percentage of earnings was used.

Amortization Method 30 years open, level dollar.

Assets The valuation assumes CEABF or the County has not set aside any assets to prefund

its retiree medical liabilities.

Medicare Coordination Medicare is assumed to remain the primary payer for current and future retirees and spouses

who are at least age 65 and who are currently on Medicare. Medicare is assumed to become primary for 95% of retirees and spouses who retired before January 1, 2014 and who are not yet age 65, when they attain that age. For all other retirees and spouses, Medicare is

assumed to be the primary payer at the time they reach age 65.

IBNR The calculations do not include any explicit amount for incurred but not reported claims (IBNR).

Retiree Drug Subsidy The value of the Retiree Drug Subsidy under Medicare Part D is not directly reflected in the valuation, in accordance with GASB Technical Bulletin No. 2006-1 *Accounting and Financial Reporting by Employers and OPEB Plans for Payments from the Federal Government Pursuant to the Retiree Drug Subsidy Provisions of Medicare Part D*, on this issue. An estimate of the value of the subsidy has been reflected in projecting the value of the Excise

Tax on High-Cost Employer Plans (see next section).

Miscellaneous The valuation was prepared on an on-going plan basis. This assumption does not imply

that an obligation to continue the plan actually exists.

Assumptions and Methods (continued)

Considerations of the Patient Protection and Affordable Care Act (PPACA)

Summary of Effects of Selected Provisions

Early Retiree Reinsurance Program: Effective 6/1/2010. Due to the short-term nature of the payments expected to be received under this program it is assumed to have no future impact on CEABF.

Removal of Lifetime/Annual Maximum: The plan is not subject to the requirement to eliminate lifetime maximums, since it is a retiree only plan.

Expansion of Child Coverage to Age 26: The impact of covering retiree children to age 26 is assumed to have already been reflected in the working rates provided.

Medicare Part D Retiree Drug Subsidy: RDS payments are not reflected as an ongoing offsetting item in GASB 43 valuations, and so no direct impact is reflected. The valuation does reflect the RDS in estimating the future impact of the Excise Tax on High-Cost Employer Health Plan.

Excise Tax on High-Cost Employer Health Plans (aka "Cadillac Tax") - Effective 1/1/2018: We performed a projection of the calculation on the Plan using a CPI of 3.25%, blending non-Medicare and Medicare retiree coverage for testing purposes. The tax amount expected is based on projected net employer costs for Medicare retirees after RDS, as this is the way we expect costs to be determined for tax purposes. The projection indicates that the overall increase in liability would be approximately 0.54% and we have adjusted the results accordingly. Additional commentary on this issue can be found on the following page.

Other Revenue Raisers: The PPACA legislation includes a variety of other revenue raisers that involve additional costs on employers, providers (such as medical device manufacturers) and insurers. We considered these factors when developing the trend assumption used.

Other: We have not identified any other specific provision of the PPACA legislation that would be expected to have a significant impact on the measured obligation. As additional guidance on the legislation is issued, we will continue to monitor any potential impacts.

Assumptions and Methods (continued)

High-Cost Plan Excise Tax: The PPACA legislation added a new High-Cost Plan Excise Tax (also known as the "Cadillac Tax") starting in calendar year 2018. For valuation purposes, we assumed that the value of the tax will be passed back to the Plan in higher premium rates.

Based on our understanding of the tax, we think it is clear that the tax does not apply directly to CEABF. Rather, the tax applies to the administrator of the benefits, UnitedHealthcare, which in turn is then expected to pass the additional cost along to CEABF.

The tax is 40% of the excess of a) the cost of coverage over b) the limit. We modeled the cost of the tax by calculating "a" (the cost of coverage) using the working rates projected with trend. We calculated "b" (the limit) starting with the statutory limits (\$10,200 single and \$27,500 family), adjusted for the following:

- Limits will increase from 2018 to 2019 by 4.25% (CPI plus 1%);
- Limits will increase after 2019 by 3.25% (CPI); and
- For retirees over age 55 but not on Medicare, the limit is increased by an additional dollar amount of \$1,650 for single coverage, \$3,450 for family coverage¹.

We also examined the possibility that the limits would be increased due to excess trend. An estimate of trend for the period from 2010 through 2018 for the federal standard Blue Cross Blue Shield option (using actual increase rates from 2010 to 2014 and the valuation trend from 2014 to the valuation 2018) is compared to the statutory "assumed" 55% trend, with trend in excess of 55% applied on the base amount before the additional amount for "early" retirees. However, it appears due to favorable experience in the federal benchmark Blue Cross Blue Shield plan that there will not be any excess trend.

¹ These additional amounts are available at other ages for plans sponsored by an employer where the majority of employees are engaged in high risk professions including law enforcement officers and fire fighters. Since only a minority of the retirees included in this valuation is police and fire, we are assuming that this exception would not apply.

Description of Actuarial Methods and Valuation Procedures

Actuarial Cost Method

Liabilities and contributions shown in this report are computed using the Entry Age Actuarial Cost Method of funding.

Sometimes called a "funding method," this is a particular technique used by actuaries for establishing the amount and incidence of the annual actuarial cost of pension plan benefits, or normal cost, and the related unfunded actuarial accrued liability. Ordinarily the annual contribution to the plan is comprised of (1) the normal cost and (2) an amortization payment on the unfunded actuarial accrued liability.

Under the Entry Age Actuarial Cost Method, the **Normal Cost** is computed as the level percentage of pay which, if paid from the earliest time each member would have been eligible to join the Plan if it then existed (thus, entry age) until his retirement or termination, would accumulate with interest at the rate assumed in the valuation to a fund sufficient to pay all benefits under the Plan.

The **Actuarial Accrued Liability** under this method at any point in time is the theoretical amount of funding that would have accumulated had annual contributions equal to the Normal Cost been made in prior years (it does not represent the liability for benefits accrued to the valuation date).

The **Unfunded Actuarial Accrued Liability** is the excess of the Actuarial Accrued Liability over the Actuarial Value of Plan Assets actually on hand on the valuation date. The Unfunded Actuarial Accrued Liability is amortized as a level dollar amount over an open 30-year period.

Under this method experience gains or losses, i.e. decreases or increases in accrued liabilities attributable to deviations in experience from the actuarial assumptions, adjust the Unfunded Actuarial Accrued Liability.

Glossary of Terms

Actuarial Accrued Liability	Total accumulated cost to fund OPEB benefits and expenses arising from service in all prior years.
Actuarial Cost Method	Technique used to assign or allocate, in a systematic and consistent manner, the expected cost of a OPEB plan for a group of plan members to the years of service that give rise to that cost.
Actuarial Present Value of Future Benefits	Amount which, together with future interest, is expected to be sufficient to pay all future benefits.
Actuarial Valuation	Study of probable amounts of future OPEB benefits and the necessary amount of contributions to fund those benefits.
Actuary	Person who performs mathematical calculations pertaining to OPEB and insurance benefits based on specific procedures and assumptions.
Annual Required Contribution	Disclosure measure of annual OPEB cost.
GASB 43	Governmental Accounting Standards Board Statement Number 43 which specifies how the Annual Required Contribution (ARC) is to be calculated and disclosure requirement for CEABF.
GASB 45	Government Accounting Standards Board Statement Number 45 which specifies how to calculate the Annual OPEB Cost that the employer recognizes.
Employer Normal Cost	That portion of the actuarial present value of benefits assigned to a particular year in respect to an individual participant or the Plan as a whole.
Unfunded Actuarial Accrued Liability (UAAL)	The portion of the actuarial accrued liability not offset by Plan assets.

Additional Actuarial Tables

Schedule of Active Member Valuation Data - Pension Benefits

Valuation <u>Date</u>	<u>Number</u>	Annual <u>Payroll</u>	Annual Average <u>Pay</u>	% Increase In Average <u>Pay</u>
12/31/05	25,726	\$1,387,459,142	\$53,932	1.6%
12/31/06	25,555	1,412,878,627	55,288	2.5%
12/31/07	23,456	1,370,844,734	58,443	5.7%
12/31/08	23,436	1,463,372,408	62,441	6.8%
12/31/09	23,570	1,498,161,713	63,562	1.8%
12/31/10	23,165	1,494,093,569	64,498	1.5%
12/31/11	22,037	1,456,444,123	66,091	2.5%
12/31/12	21,447	1,478,253,368	68,926	4.3%
12/31/13	21,287	1,484,269,715	69,727	1.2%
12/31/14	21,656	1,514,550,023	69,937	0.3%

Schedule of Retirees and Beneficiaries Added to and Removed from Rolls - Pension Benefits

	Year Ended	Added t	o Rolls Annual <u>Benefits</u>	Removed Number	from Rolls Annual <u>Benefits</u>	End of Number	<u>Year Rolls</u> Annual <u>Benefits</u>	Average Annual <u>Benefit</u>	% Increase in Average Annual Benefit	
2	005	633	\$19,156,511	533	\$ 8,052,936	13,445	\$309,388,643	\$23,011	3.0%	
2	006	689	21,223,721	424	8,871,159	13,710	321,741,205	23,468	2.0%	
2	007	910	37,609,335	602	9,344,686	14,018	350,005,854	24,968	6.4%	
2	800	791	32,064,586	517	8,641,406	14,292	373,429,034	26,129	4.6%	
2	009	693	43,524,587	510	9,455,204	14,475	407,498,417	28,152	7.7%	
2	010	917	40,259,064	538	10,616,859	14,854	437,140,622	29,429	4.5%	
2	011	1,158	55,308,088	580	12,124,191	15,432	480,324,519	31,125	5.8%	
2	012	1,374	58,601,319	632	14,697,753	16,174	524,228,085	32,412	4.1%	
2	013	992	52,564,737	489	10,006,848	16,677	566,785,974	33,986	4.9%	
2	014	929	52,208,075	530	11,628,617	17,076	607,365,432	35,568	4.7%	

Schedule of Retirees and Beneficiaries Added to and Removed from Rolls - Postemployment Healthcare

Year	Added	<u>to Rolls</u> Annual	Removed f	Annual	End of	<u>Year Rolls</u> Annual	Average Annual	% Change in Average Annual
Ended	<u>Number</u>	Benefits	<u>Number</u>	Benefits 1	<u>Number</u>	Benefits	Benefit	Benefit
2009	428	\$4,633,172	361	\$3,680,293	7,367	\$41,433,222	\$5,624	1.4%
2010	539	6,120,411	352	2,652,932	7,554	44,900,801	5,944	5.7%
2011	752	4,513,262	381	2,509,723	7,925	46,904,340	5,919	-0.4%
2012	640	3,715,909	386	6,655,532	8,179	43,964,717	5,375	-9.2%
2013	703	3,970,847	346	3,986,309	8,536	43,949,255	5,149	-4.2%
2014	556	2,308,094	501	2,229,694	8,591	48,487,043	5,644	9.6%

¹ Includes liability from changes in benefit levels.

Solvency Test - Pension Benefits

Accrued Liabilities for

Year	(1) Active and Inactive Members Accumulated	(2) Members Currently Receiving	(3) Active and Inactive Member Employer	Actuarial Value of	I	nt of Accr Liabilities red by As	
Ended	Contributions	Benefits	<u>Portion</u>	Assets	(1)	(2)	(3)
2005	\$1,322,128,598	$$4,023,901,896^{1}$	\$3,923,913,6391	\$7,027,508,138	100%	100%	43%
2006	1,496,918,427	3,738,360,199	3,591,302,839	7,462,683,122	100%	100%	62%
2007	1,569,401,144	4,035,560,084	3,781,326,569	8,059,879,804	100%	100%	65%
2008	1,650,186,209	4,258,683,439	4,188,158,217	8,036,074,797	100%	100%	51%
2009	1,749,058,834	5,043,516,963	4,696,505,501	7,945,567,096	100%	100%	25%
2010	1,824,472,753	5,373,790,587	4,824,959,545	7,982,368,659	100%	100%	16%
2011	1,662,273,117	5,902,779,764	5,063,221,680	7,897,102,116	100%	100%	7%
2012	1,821,792,594	6,431,295,762	5,168,398,587	7,833,882,926	100%	93%	0%
2013	1,854,155,647	6,822,552,230	4,959,868,300	8,381,444,287	100%	96%	0%
2014	1,897,951,260	7,295,515,219	4,947,080,874	8,810,509,070	100%	95%	0%

¹ Combined Benefits

Solvency Test - Postemployment Healthcare

Accrued Liabilities for

Year	(1) Active and Inactive Members Accumulated	(2) Members Currently Receiving	(3) Active and Inactive Member Employer	Actuarial Value of	L	nt of Acci liabilities red by As	
Ended	Contributions	Benefits	Portion	Assets	(1)	(2)	(3)
2009	\$ -	\$588,250,913	\$1,098,621,105	\$ -	0%	0%	0%
2010	-	606,821,210	1,117,801,252	-	0%	0%	0%
2011	-	605,375,403	1,073,195,985	-	0%	0%	0%
2012	-	776,395,244	1,069,213,888	-	0%	0%	0%
2013	-	818,201,554	1,160,565,936	-	0%	0%	0%
2014	_	826,052,274	1.154.036.343	_	0%	0%	0%



Statistical Section

This section contains additional schedules that are designed to supplement the information in the Comprehensive Annual Financial Report:

Statements of Changes in Plan Net Position – Pension Benefits and Postemployment Healthcare provides details on the specific sources and uses of funds.

Schedules of Retired Members by Benefit Type – Pension Benefits and Postemployment Healthcare provides details on the monthly pension amounts for retirement and survivor members, including those with postemployment healthcare.

Schedule of Average Benefit Payments – Pension Benefits and Postemployment Healthcare provides details on years of credited service, average monthly pension, average monthly final average salary, and the number of new retirees, including those with postemployment healthcare.

Schedule of Principal Participating Employers – Pension Benefits and Postemployment Healthcare provides details on employers who participate in the Plan.

Additional Schedules Required by Employer provides details on historical financial, investment and actuarial performance.

Statement of Changes in Pension Plan Fiduciary Net Position

For year ended December 31, 2014, with comparative totals for 9 years

Additions:	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	<u>2010</u>
Employer contributions	\$ 146,075,414	\$ 147,720,014	¢ 152.724.520	e 162 667 160	e 141.226.266
			\$ 152,734,539	\$ 162,667,160	\$ 141,326,266
Employee contributions	129,325,318	127,593,220	128,869,508	127,577,473	129,449,866
Net investment and net securi		4.450.440.440			
lending income (loss)	488,890,897	1,179,440,119	887,687,519	82,701,033	832,882,639
Other	3,753,960	4,041,145	4,212,209	3,380,437	8,248,307
Total additions	768,045,589	1,458,794,498	1,173,503,775	376,326,103	1,111,907,078
Deductions:					
Benefits					
Retirement	543,274,840	507,494,409	469,398,775	429,527,599	393,525,707
Survivors	41,865,298	38,761,919	35,762,286	33,003,057	30,307,794
Disability	10,515,760	10,909,478	12,265,257	13,961,631	13,789,106
Refunds					
Death	3,187,363	3,461,166	4,636,647	3,036,462	5,569,966
Separation	13,082,086	15,180,523	16,740,836	15,813,775	12,704,374
Other	10,077,912	11,231,341	11,704,243	10,315,098	6,767,478
Net adminstrative and					
miscellaneous expenses	5,010,206	4,324,634	4,303,353	4,078,843	4,074,955
Total deductions	627,013,465	591,363,470	554,811,397	509,736,465	466,739,380
Net increase (decrease)	141,032,124	867,431,028	618,692,378	(133,410,362)	645,167,698
Net position:					
Beginning of year	8,927,366,656	8,059,935,628	7,441,243,250	7,574,653,612	6,929,485,914
End of year	\$9,068,398,780	\$8,927,366,656	\$8,059,935,628	\$7,441,243,250	\$7,574,653,612

For year ended December 31, 2014, with comparative totals for 9 years (continued)

	<u>2009</u>	<u>2008</u>	<u>2007</u>	<u>2006</u>	<u>2005</u>
Additions:					
Employer contributions	\$ 147,934,643	\$ 146,134,911	\$ 226,721,014	\$ 194,367,840	\$ 186,540,579
Employee contributions	127,795,881	123,776,705	123,047,516	121,672,773	174,213,741
Net investment and net secur	rities				
lending income (loss)	1,013,615,250	(1,858,853,846)	477,494,266	749,245,001	324,731,939
Other	6,087,899	4,382,353	4,142,324	5,433,125	6,977,513
Total additions	1,295,433,673	(1,584,559,877)	831,405,120	1,070,718,739	692,463,772
Deductions:					
Benefits					
Retirement	369,226,987	347,922,288	324,724,997	301,803,116	289,176,133
Survivors	27,837,079	25,815,860	23,645,235	21,459,472	19,473,853
Disability	13,510,567	13,234,974	13,038,555	11,722,480	11,359,918
Refunds					
Death	3,424,156	3,565,245	3,997,807	4,101,200	2,862,768
Separation	11,582,869	15,322,631	56,013,958	17,564,604	17,289,173
Other	5,397,886	5,836,226	6,611,592	3,256,405	2,889,802
Net adminstrative and					
miscellaneous expenses	4,248,287	4,172,536	4,450,330	3,979,155	4,398,437
Total deductions	435,227,831	415,869,760	432,482,474	363,886,432	347,450,084
Net increase (decrease)	860,205,842	(2,000,429,637)	398,922,646	706,832,307	345,013,688
Net position:					
Beginning of year	6,069,280,072	8,069,709,709	7,670,787,063	6,963,954,756	6,618,941,068
End of year	\$6,929,485,914	\$6,069,280,072	\$8,069,709,709	\$ 7,670,787,063	\$6,963,954,756

Statement of Changes in Postemployment Healthcare Plan Net Position

For year ended December 31, 2014, with comparative totals for 9 years

	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	<u>2010</u>
Additions:					
Employer contributions	\$43,957,458	\$40,097,630	\$37,986,237	\$32,670,461	\$40,183,057
Other	5,988,102	4,506,584	5,978,480	14,233,879	4,717,744
Total additions	49,945,560	44,604,214	43,964,717	46,904,340	44,900,801
Deductions:					
Healthcare benefits	49,945,560	44,604,214	43,964,717	46,904,340	44,900,801
Net increase (decrease)	-	-	-	-	-
Net position:					
Beginning of year	-	-	-	-	-
End of year	\$ -	\$	\$ -	\$ -	\$ -

Statement of Changes in Postemployment Healthcare Plan Net Position (continued)

For year ended December 31, 2014, with comparative totals for 9 years (continued)

	<u>2009</u>	<u>2008</u>	<u>2007</u>	<u>2006</u>	<u>2005</u>
Additions:					
Employer contributions	\$35,779,227	\$37,781,310	\$31,420,216	\$26,818,379	\$28,308,863
Other	5,653,995	2,699,033	5,860,228	3,823,866	-
Total additions	41,433,222	40,480,343	37,280,444	30,642,245	28,308,863
Deductions:					
Healthcare benefits	41,433,222	40,480,343	37,280,444	30,642,245	28,308,863
Net increase (decrease)	-	-			
Net position:			-	-	-
Beginning of year	-	-	-	-	_
End of year	\$ -	\$ -	\$ -	\$ -	\$ -

Schedule of Retired Members by Benefit Type - Pension Benefits

As of December 31, 2014

Amour	nt of N	Ionthly	Number of	Type of Pension Benefit		Option Selected		
Pens	ion Be	enefit	Recipients	1	2	1	2	3
\$ 1	_	\$ 600	2,605	1,756	849	1,707	788	110
601	_	1,200	2,164	1,466	698	1,469	677	18
1,201	_	1,800	1,829	1,441	388	1,178	651	0
1,801	_	2,400	1,663	1,417	246	1,009	654	0
2,401	_	3,000	1,591	1,398	193	957	634	0
3,001	_	3,600	1,470	1,350	120	832	638	0
3,601	_	4,200	1,223	1,147	76	637	586	0
4,201	_	4,800	1,096	1,064	32	480	616	0
4,801	_	5,400	922	911	11	366	556	0
5,401	_	6,000	868	863	5	308	560	0
6,001	_	6,600	620	615	5	237	383	0
6,601	_	7,200	353	353	0	126	227	0
7,201	_	7,800	223	220	3	81	142	0
7,801	_	8,400	122	119	3	37	85	0
8,401	_	9,000	42	41	1	12	30	0
9,001	_	9,600	38	35	3	8	30	0
9,601	_	10,200	22	21	1	2	20	0
10,201	_	10,800	25	24	1	6	19	0
10,801	_	11,400	30	29	1	7	23	0
11,401	_	12,000	20	19	1	6	14	0
12,001	_	12,600	17	17	0	4	13	0
12,601	_	13,200	18	18	0	3	15	0
13,201	_	13,800	14	14	0	3	11	0
13,801	_	14,400	13	12	1	6	7	0
14,401	_	15,000	8	8	0	2	6	0
15,001	_	15,600	13	12	1	4	9	0
15,601	_	16,200	7	7	0	2	5	0
16,201	_	16,800	9	9	0	1	8	0
16,801	_	17,400	10	10	0	3	7	0
17,401	_	18,000	5	5	0	1	4	0
Over \$1	8,000		36	36	0	6	30	0
Totals			17,076	14,437	2,639	9,500	7,448	128

Type of Pension Benefit

- 1. Regular retirement
- 2. Survivor payment

Option Selected

- 1. Whole Life Annuity
- 2. 65% Joint and Contingent Annuity
- 3. Temporary Annuity

Schedule of Retired Members by Benefit Type -Postemployment Healthcare

As of December 31, 2014

Amoui	nt of M	Ionthly	Number of	Type of Pension Benefit		Opt	Option Selected		
Pens	sion Be	enefit	Recipients	1	2	1	2	3	
\$ 1	_	\$ 600	284	103	181	240	44	0	
601	_	1,200	581	299	282	468	113	0	
1,201	_	1,800	803	597	206	571	232	0	
1,801	_	2,400	885	746	139	595	290	0	
2,401	_	3,000	983	850	133	654	329	0	
3,001	_	3,600	1,005	932	73	635	370	0	
3,601	_	4,200	833	786	47	489	344	0	
4,201	_	4,800	737	710	27	376	361	0	
4,801	_	5,400	661	654	7	310	351	0	
5,401	_	6,000	616	611	5	260	356	0	
6,001	_	6,600	462	458	4	207	255	0	
6,601	_	7,200	262	262	0	117	145	0	
7,201	_	7,800	172	169	3	67	105	0	
7,801	_	8,400	84	82	2	27	57	0	
8,401	_	9,000	24	23	1	8	16	0	
9,001	_	9,600	28	25	3	7	21	0	
9,601	_	10,200	17	16	1	2	15	0	
10,201	_	10,800	17	17	0	4	13	0	
10,801	_	11,400	26	25	1	7	19	0	
11,401	_	12,000	13	12	1	3	10	0	
12,001	_	12,600	9	9	0	2	7	0	
12,601	_	13,200	12	12	0	2	10	0	
13,201	_	13,800	11	11	0	2	9	0	
13,801	_	14,400	5	5	0	3	2	0	
14,401	_	15,000	6	6	0	2	4	0	
15,001	_	15,600	9	8	1	3	6	0	
15,601	_	16,200	4	4	0	0	4	0	
16,201	_	16,800	5	5	0	1	4	0	
16,801	_	17,400	9	9	0	2	7	0	
17,401	_	18,000	4	4	0	1	3	0	
Over \$1	8,000		24	24	0	3	21	0	
Totals			8,591	7,474	1,117	5,068	3,523	0	

Type of Pension Benefit

1. Regular retirement

2. Survivor payment

Option Selected

- 1. Whole Life Annuity
- 2. 65% Joint and Contingent Annuity
- 3. Temporary Annuity

Schedule of Average Benefit Payments - Pension Benefits

				Years o	f Credite	d Service		
		<u>0-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30+</u>
2005	Average Monthly Pension	\$ 342	\$1,071	\$1,529	\$2,362	\$2,768	\$4,188	\$3,708
	Average Monthly Final Average Salary	N/A	N/A	\$4,265	\$4,608	\$4,699	\$5,464	\$5,166
	Number of New Retirees	110	50	112	84	41	25	43
2006	Average Monthly Pension	\$ 363	\$1,280	\$1,821	\$2,248	\$2,843	\$3,689	\$4,094
	Average Monthly Final Average Salary	N/A	N/A	\$5,052	\$4,516	\$4,880	\$6,252	\$4,946
	Number of New Retirees	80	55	110	111	68	39	46
2007	Average Monthly Pension	\$ 355	\$1,016	\$1,921	\$2,543	\$3,404	\$4,034	\$4,477
	Average Monthly Final Average Salary	N/A	N/A	\$5,435	\$5,138	\$5,506	\$5,421	\$5,907
	Number of New Retirees	71	65	156	158	127	59	119
2008	Average Monthly Pension	\$ 382	\$1,368	\$1,871	\$2,751	\$3,394	\$4,441	\$4,575
	Average Monthly Final Average Salary	\$ N/A	N/A	\$5,719	\$5,540	\$5,682	\$6,219	\$6,048
	Number of New Retirees	69	43	121	128	121	76	91
2009	Average Monthly Pension	\$ 302	\$1,311	\$2,055	\$2,671	\$3,682	\$3,854	\$4,491
	Average Monthly Final Average Salary	N/A	N/A	\$6,649	\$5,778	\$6,095	\$5,931	\$5,992
	Number of New Retirees	58	30	77	96	100	59	120
2010	Average Monthly Pension	\$ 335	\$1,144	\$1,855	\$2,598	\$3,349	\$3,968	\$4,278
	Average Monthly Final Average Salary	\$5,927	\$6,780	\$5,616	\$5,512	\$5,319	\$5,466	\$5,408
	Number of New Retirees	74	38	92	122	153	72	176
2011	Average Monthly Pension	\$ 439	\$ 955	\$1,931	\$2,705	\$3,686	\$4,316	\$4,537
	Average Monthly Final Average Salary	\$ 6,747	\$6,114	\$6,090	\$5,667	\$5,948	\$6,123	\$5,712
	Number of New Retirees	74	30	138	157	212	131	267
2012	Average Monthly Pension	\$ 432	\$ 982	\$1,828	\$2,579	\$3,273	\$4,273	\$4,578
	Average Monthly Final Average Salary	\$7,369	\$6,598	\$5,733	\$5,475	\$5,391	\$5,882	\$5,795
	Number of New Retirees	97	35	110	167	210	113	287
2013	Average Monthly Pension	\$ 469	\$1,150	\$1,864	\$2,567	\$3,334	\$4,864	\$4,813
	Average Monthly Final Average Salary	\$7,331	\$7,653	\$5,999	\$5,419	\$5,597	\$6,609	\$6,087
	Number of New Retirees	60	44	113	123	168	132	275
2014	Average Monthly Pension	\$ 421	\$1,336	\$1,767	\$2,643	\$3,770	\$4,620	\$4,829
	Average Monthly Final Average Salary	\$6,611	\$8,364	\$5,943	\$5,968	\$6,296	\$6,447	\$6,131
	Number of New Retirees	53	33	104	119	155	135	246
N/A - Not A	<i>lvailable</i>							

Schedule of Average Benefit Payments -Postemployment Healthcare

Average Monthly Pension Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Pension Average Monthly Pension Average Monthly Pension Average Monthly Final Average Salary Number of New Retirees	\$ 828 N/A 2 \$ 412 N/A 3 \$ 380 N/A 3	\$2,245 N/A 6 \$1,329 N/A 17 \$1,467 N/A 13	\$1,685 \$4,482 58 \$1,923 \$5,117 57 \$2,153 \$5,721 77	\$2,453 \$4,812 59 \$2,342 \$4,696 70 \$2,601 \$5,121 109	20-24 \$2,794 \$4,884 24 \$2,985 \$5,014 44 \$3,530 \$5,486 87	\$3,771 \$5,317 17 \$5,291 \$6,508 26 \$4,117 \$5,600	\$3,727 \$5,178 \$6 \$4,269 \$5,023 \$2 \$4,630 \$6,056
Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Pension Average Monthly Pension Average Monthly Final Average Salary	N/A 2 \$ 412 N/A 3 \$ 380 N/A 3	N/A 6 \$1,329 N/A 17 \$1,467 N/A 13	\$4,482 58 \$1,923 \$5,117 57 \$2,153 \$5,721	\$4,812 59 \$2,342 \$4,696 70 \$2,601 \$5,121	\$4,884 24 \$2,985 \$5,014 44 \$3,530 \$5,486	\$5,317 17 \$5,291 \$6,508 26 \$4,117 \$5,600	\$5,178 36 \$4,269 \$5,023 32 \$4,630
Average Monthly Pension Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Pension Average Monthly Pension Average Monthly Final Average Salary	2 \$ 412 N/A 3 \$ 380 N/A 3 \$ 150	N/A 6 \$1,329 N/A 17 \$1,467 N/A 13	\$4,482 58 \$1,923 \$5,117 57 \$2,153 \$5,721	\$4,812 59 \$2,342 \$4,696 70 \$2,601 \$5,121	\$4,884 24 \$2,985 \$5,014 44 \$3,530 \$5,486	\$5,317 17 \$5,291 \$6,508 26 \$4,117 \$5,600	\$5,178 36 \$4,269 \$5,023 32 \$4,630
Average Monthly Pension Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Final Average Salary	\$ 412 N/A 3 \$ 380 N/A 3 \$ 150	\$1,329 N/A 17 \$1,467 N/A 13	\$1,923 \$5,117 57 \$2,153 \$5,721	\$2,342 \$4,696 70 \$2,601 \$5,121	\$2,985 \$5,014 44 \$3,530 \$5,486	\$5,291 \$6,508 26 \$4,117 \$5,600	\$4,269 \$5,023 32 \$4,630
Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Final Average Salary	N/A 3 \$ 380 N/A 3 \$ 150	N/A 17 \$1,467 N/A 13	\$5,117 57 \$2,153 \$5,721	\$4,696 70 \$2,601 \$5,121	\$5,014 44 \$3,530 \$5,486	\$6,508 26 \$4,117 \$5,600	\$5,023 32 \$4,630
Average Monthly Pension Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Final Average Salary	3 \$ 380 N/A 3 \$ 150	17 \$1,467 N/A 13	\$2,153 \$5,721	70 \$2,601 \$5,121	\$3,530 \$5,486	26 \$4,117 \$5,600	\$4,630
Average Monthly Pension Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Final Average Salary	\$ 380 N/A 3 \$ 150	\$1,467 N/A 13	\$2,153 \$5,721	\$2,601 \$5,121	\$3,530 \$5,486	\$4,117 \$5,600	\$4,630
Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Final Average Salary	N/A 3 \$ 150	N/A 13	\$5,721	\$5,121	\$5,486	\$5,600	
Number of New Retirees Average Monthly Pension Average Monthly Final Average Salary	3 \$ 150	13					\$6,056
Average Monthly Pension Average Monthly Final Average Salary	\$ 150		77	109	87		Ψ0,00
Average Monthly Final Average Salary		\$1,238				37	82
	N/A		\$1,830	\$3,046	\$3,418	\$4,317	\$4,585
Number of New Retirees		N/A	\$5,050	\$5,941	\$6,128	\$5,920	\$6,016
	1	10	62	76	70	47	72
Average Monthly Pension	\$ 399	\$ 0	\$2,031	\$2,672	\$3,434	\$3,906	\$4,398
Average Monthly Final Average Salary	N/A	\$ 0	\$6,679	\$5,804	\$6,652	\$5,994	\$6,031
Number of New Retirees	4	0	31	64	46	41	88
Average Monthly Pension	\$ 199	\$1,468	\$1,931	\$2,784	\$3,273	\$4,141	\$4,239
Average Monthly Final Average Salary	\$2,747	\$7,743	\$5,740	\$5,673	\$5,151	\$5,639	\$5,361
Number of New Retirees	1	5	41	72	110	58	118
Average Monthly Pension	\$ 239	\$ 783	\$1,839	\$2,852	\$3,787	\$4,056	\$4,574
Average Monthly Final Average Salary	\$4,669	\$5,044	\$5,376	\$5,729	\$5,991	\$5,710	\$5,750
Number of New Retirees	2	7	58	89	144	96	196
Average Monthly Pension	\$ 635	\$1,127	\$1,767	\$2,746	\$3,462	\$4,572	\$4,479
Average Monthly Final Average Salary	\$5,149	\$7,880	\$5,489	\$5,552	\$5,457	\$6,193	\$5,672
Number of New Retirees	2	4	36	88	142	82	197
Average Monthly Pension	\$ 607	\$ 868	\$2,014	\$2,674	\$3,562	\$4,739	\$4,705
Average Monthly Final Average Salary	\$5,833	\$4,857	\$6,140	\$5,441	\$5,737	\$6,441	\$5,952
Number of New Retirees	1	5	48	76	110	87	190
Average Monthly Pension	\$ 0	\$ 609	\$1,786	\$2,682	\$3,631	\$4,768	\$4,781
	\$ 0	\$4,183	\$5,834	\$5,718	\$6,035	\$6,521	\$6,062
Average Monthly Final Average Salary	0	4	31	63	104	97	162
^ ^ ^	Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Pension Average Monthly Pension Average Monthly Final Average Salary	Average Monthly Pension Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Pension Average Monthly Final Average Salary Number of New Retirees Average Monthly Pension Average Monthly Pension Average Monthly Pension Average Monthly Final Average Salary Average Monthly Final Average Salary Number of New Retirees 1 Average Monthly Pension 4 Average Monthly Pension 5 5 6 6 7 6 7 7 8 7 8 8 8 8 8 8 8 8 8	Average Monthly Pension Average Monthly Final Average Salary Average Monthly Pension Average Monthly Pension Average Monthly Pension Average Monthly Final Average Salary Average Monthly Final Average Salary Average Monthly Pension Average Monthly Pension Average Monthly Pension Average Monthly Final Average Salary	Average Monthly Pension Average Monthly Final Average Salary Average Monthly Pension Average Monthly Pension Average Monthly Pension Average Monthly Final Average Salary Average Monthly Final Average Salary Average Monthly Final Average Salary Average Monthly Pension Average Monthly Pension Average Monthly Pension Average Monthly Final Average Salary Average Monthly Pension Average Monthly Final Average Salary	Average Monthly Pension Average Monthly Final Average Salary Average Monthly Pension Average Monthly Pension Average Monthly Pension Average Monthly Pension Average Monthly Final Average Salary Average Monthly Final Average Salary Average Monthly Final Average Salary Average Monthly Pension Average Monthly Pension Average Monthly Pension Average Monthly Pension Average Monthly Final Average Salary	Average Monthly Pension Average Monthly Pension Substitute 1	Average Monthly Pension \$ 239 \$ 783 \$ 1,839 \$ 2,852 \$ 3,787 \$ 4,056 Average Monthly Final Average Salary \$ 4,669 \$ 5,044 \$ 5,376 \$ 5,729 \$ 5,991 \$ 5,710 Average Monthly Pension \$ 635 \$ 1,127 \$ 1,767 \$ 2,746 \$ 3,462 \$ 4,572 Average Monthly Final Average Salary \$ 5,149 \$ 7,880 \$ 5,489 \$ 5,552 \$ 5,457 \$ 6,193 Average Monthly Pension \$ 607 \$ 868 \$ 2,014 \$ 2,674 \$ 3,562 \$ 4,739 Average Monthly Final Average Salary \$ 5,833 \$ 4,857 \$ 6,140 \$ 5,441 \$ 5,737 \$ 6,441 \$ 8,000 \$ 609 \$ 1,786 \$ 2,682 \$ 3,631 \$ 4,768 \$ 4,847 \$ 6,035 \$ 6,521

Schedule of Principal Participating Employers Pension Benefits and Postemployment Healthcare Combined

As of December 31, 2014 and 2005

		2014		<u>2005</u>
Participating Employer	Covered Employees	Percentage of Total Covered Employees	Covered Employees	Percentage of Total Covered Employees
Cook County	21,656	99.88%	25,726	99.91%
County Employees' and Officers' Annuity and Benefit Fund of Cook County Total	$\frac{27}{21,683}$	0.12% 100.00%	$\frac{22}{25,748}$	0.09% 100.00%

Additional Schedules Required by Employer

Schedule of Investment Rate of Return - Pension Benefits and Postemployment Healthcare Combined

Year Ended December 31,	Investment Rate of Return (Net of Fees)
2005	4.8%
2006	11.4%
2007	6.3%
2008	-24.5%
2009	18.0%
2010	12.4%
2011	1.2%
2012	12.5%
2013	15.1%
2014	5.9%

Schedule of Actuarial Value of Assets vs. Fair Value of Assets - Pension Benefits and Postemployment Healthcare Combined

Year Ended December 31.	Actuarial Value of Assets	Fair Value <u>of Assets</u>	Actuarial Value as a Percentage of Fair Value
2005	\$7,027,508,138	\$6,963,954,756	100.9%
2006	7,462,683,122	7,670,787,063	97.3%
2007	8,059,879,804	8,069,709,709	99.9%
2008	8,036,074,797	6,069,280,072	132.4%
2009	7,945,567,096	6,929,485,914	114.7%
2010	7,982,368,659	7,574,653,612	105.4%
2011	7,897,102,116	7,441,243,250	106.1%
2012	7,833,882,926	8,059,935,628	97.2%
2013	8,381,444,287	8,927,366,656	93.9%
2014	8,810,509,070	9,068,398,780	97.2%

Schedule of Employer Contributions - Pension Benefits and Postemployment Healthcare Combined

Year Ended December 31,	Actuarially Required Contribution (ARC)	Tax Levy <u>Requested</u>	Actual Employer <u>Contribution</u>	Percentage of ARC Contributed
2005	\$428,971,126	\$209,151,000	\$218,292,478	50.9%
2006	398,340,979	223,270,000	225,438,363	56.6%
2007	421,092,345	264,846,000	261,534,551	62.1%
2008	406,625,773	183,124,000	188,008,670	46.2%
2009	468,181,943	186,099,854	188,285,317	40.2%
2010	572,318,384	186,523,677	184,722,634	32.3%
2011	613,952,848	192,234,211	198,837,424	32.4%
2012	655,800,100	196,139,483	190,720,776	29.1%
2013	719,890,057	192,969,505	187,817,644	26.1%
2014	634,722,132	194,668,229	190,032,872	29.9%

Schedule of Financial Condition - Pension Benefits and Postemployment Healthcare Combined for year ended December 31, 2014, with comparative totals for 9 years

	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	<u>2010</u>
Beginning Net Assets (Fair Value)	\$8,927,366,656	\$8,059,935,628	\$7,441,243,250	\$7,574,653,612	\$6,929,485,914
Additions:					
Employer contributions	190,032,872	187,817,644	190,720,776	195,337,621	181,509,323
Employee contributions	129,325,318	127,593,220	128,869,508	127,577,473	129,449,866
Net investment income (loss)	488,890,897	1,179,440,119	887,687,519	82,701,033	833,052,844
Other	9,742,062	8,547,729	10,190,689	17,614,316	12,795,846
Total additions	817,991,149	1,503,398,712	1,217,468,492	423,230,443	1,156,807,879
Deductions:					
Benefits	645,601,458	601,770,020	561,391,035	523,396,627	482,523,408
Refunds	26,347,361	29,873,030	33,081,726	29,165,335	25,041,818
Administrative expenses	5,010,206	4,324,634	4,303,353	4,078,843	4,074,955
Total deductions	676,959,025	635,967,684	598,776,114	556,640,805	511,640,181
Ending Net Assets (Fair Value)	\$9,068,398,780	\$8,927,366,656	\$8,059,935,628	\$7,441,243,250	\$7,574,653,612
Actuarial Value of Assets	8,810,509,070	8,381,444,287	7,833,882,926	7,897,102,116	7,982,368,659
Actuarial Accrued Liabilities (AAL)	15,318,790,688	14,812,087,677	14,630,250,955	13,724,012,399	13,142,137,175
Unfunded AAL (UAAL) (Fair Value)	6,250,391,908	5,884,721,021	6,570,315,327	6,282,769,149	5,567,483,563
Unfunded AAL (UAAL) (Actuarial Value)	6,508,281,618	6,430,643,390	6,796,368,029	5,826,910,283	5,159,768,516
Funded Ratio (Fair Value)	59.2%	60.3%	55.1%	54.2%	57.6%
Funded Ratio (Actuarial Value)	57.5%	56.6%	53.5%	57.5%	60.7%

Schedule of Financial Condition - Pension Benefits and Postemployment Healthcare Combined for year ended December 31, 2014, with comparative totals for 9 years (continued)

	<u>2009</u>	2008	<u>2007</u>	<u>2006</u>	<u>2005</u>
Beginning Net Assets (Fair Value)	\$6,069,280,072	\$8,069,709,709	\$7,670,787,063	\$6,963,954,756	\$6,618,941,068
Additions:					
Employer contributions	183,713,870	183,916,221	258,141,230	221,186,219	214,849,442
Employee contributions	127,795,881	123,776,705	123,047,516	121,672,773	174,213,741
Net investment income (loss)	1,013,615,250	(1,858,853,846)	477,494,266	749,245,001	324,731,939
Other	11,741,894	7,081,386	10,002,552	9,256,991	6,977,513
Total additions	1,336,866,895	(1,544,079,534)	868,685,564	1,101,360,984	720,772,635
Deductions:					
Benefits	452,007,855	427,453,465	398,689,231	365,627,313	348,318,767
Refunds	20,404,911	24,724,102	66,623,357	24,922,209	23,041,743
Administrative expenses	4,248,287	4,172,536	4,450,330	3,979,155	4,398,437
Total deductions	476,661,053	456,350,103	469,762,918	394,528,677	375,758,947
Ending Net Assets (Fair Value)	\$6,929,485,914	\$6,069,280,072	\$8,069,709,709	\$7,670,787,063	<u>\$6,963,954,756</u>
Actuarial Value of Assets	7,945,567,096	8,036,074,797	8,059,879,804	7,462,683,122	7,027,508,138
Actuarial Accrued Liabilities (AAL)	12,575,515,749	11,073,181,349	10,423,729,900	9,904,578,174	9,269,944,133
Unfunded AAL (UAAL) (Fair Value)	5,646,029,835	5,003,901,277	2,354,020,191	2,233,791,111	2,305,989,377
Unfunded AAL (UAAL) (Actuarial Value)	4,629,948,653	3,037,106,552	2,363,850,096	2,441,895,052	2,242,435,995
Funded Ratio (Fair Value)	55.1%	54.8%	77.4%	77.4%	75.1%
Funded Ratio (Actuarial Value)	63.2%	72.6%	77.3%	75.3%	75.8%

Schedule of Funding Progress - Pension Benefits and Postemployment Healthcare Combined

Year Ended <u>December 31,</u>	Actuarial Accrued Liabilities (AAL)	Actuarial Value of Assets	Fair Value of Net Assets	Unfunded AAL (UAAL) (<u>Actuarial Value)</u>
2005	\$ 9,269,944,133	\$7,027,508,138	\$6,963,954,756	\$2,242,435,995
2006	9,904,578,174	7,462,683,122	7,670,787,063	2,441,895,052
2007	10,423,729,900	8,059,879,804	8,069,709,709	2,363,850,096
2008	11,073,181,349	8,036,074,797	6,069,280,072	3,037,106,552
2009	12,575,515,749	7,945,567,096	6,929,485,914	4,629,948,653
2010	13,142,137,175	7,982,368,659	7,574,653,612	5,159,768,516
2011	13,724,012,399	7,897,102,116	7,441,243,250	5,826,910,283
2012	14,630,250,955	7,833,882,926	8,059,935,628	6,796,368,029
2013	14,812,087,677	8,381,444,287	8,927,366,656	6,430,643,390
2014	15,318,790,688	8,810,509,070	9,068,398,780	6,508,281,618

Schedule of Funding Progress - Pension Benefits

Year Ended December 31,	Actuarial Accrued Liabilities (AAL)	Actuarial Value of Assets	Fair Value of Net Assets	Unfunded AAL (UAAL) (Actuarial Value)
2005	\$ 8,340,404,845	\$7,027,508,138	\$6,963,954,756	\$1,312,896,707
2006	8,826,581,465	7,462,683,122	7,670,787,063	1,363,898,343
2007	9,386,287,797	8,059,879,804	8,069,709,709	1,326,407,993
2008	10,097,027,865	8,036,074,797	6,069,280,072	2,060,953,068
2009	11,489,081,298	7,945,567,096	6,929,485,914	3,543,514,202
2010	12,023,222,885	7,982,368,659	7,574,653,612	4,040,854,226
2011	12,628,274,561	7,897,102,116	7,441,243,250	4,731,172,445
2012	13,418,486,943	7,833,882,926	8,059,935,628	5,584,604,017
2013	13,636,576,177	8,381,444,287	8,927,366,656	5,255,131,890
2014	14,140,547,353	8,810,509,070	9,068,398,780	5,330,038,283

Schedule of Funding Progress - Pension Benefits and Postemployment Healthcare Combined (cont'd)

Unfunded AAL (UAAL) Fair Value	Funded Ratio <u>Actuarial Value</u>	Funded Ratio <u>Fair Value</u>	Covered <u>Payroll</u>	UAAL as a Percentage of Covered Payroll (Actuarial Value)	UAAL as a Percentage of Covered Payroll (Fair Value)
\$2,305,989,377	75.8%	75.1%	\$1,387,459,142	161.6%	166.2%
2,233,791,111	75.3%	77.4%	1,412,878,627	172.8%	158.1%
2,354,020,191	77.3%	77.4%	1,370,844,734	172.4%	171.7%
5,003,901,277	72.6%	54.8%	1,463,372,408	207.5%	341.9%
5,646,029,835	63.2%	55.1%	1,498,161,713	309.0%	376.9%
5,567,483,563	60.7%	57.6%	1,494,093,569	345.3%	372.6%
6,282,769,149	57.5%	54.2%	1,456,444,123	400.1%	431.4%
6,570,315,327	53.5%	55.1%	1,478,253,368	459.8%	444.5%
5,884,721,021	56.6%	60.3%	1,484,269,715	433.3%	396.5%
6,250,391,908	57.5%	59.2%	1,514,550,023	429.7%	412.7%

Schedule of Funding Progress - Pension Benefits (continued)

Unfunded AAL (UAAL) Fair Value	Funded Ratio <u>Actuarial Value</u>	Funded Ratio <u>Fair Value</u>	Covered <u>Payroll</u>	UAAL as a Percentage of Covered Payroll (Actuarial Value)	UAAL as a Percentage of Covered Payroll (Fair Value)
\$1,376,450,089	84.3%	83.5%	\$1,387,459,142	94.6%	99.2%
1,155,794,402	84.5%	86.9%	1,412,878,627	96.5%	81.8%
1,316,578,088	85.9%	86.0%	1,370,844,734	96.8%	96.0%
4,027,747,793	79.6%	60.1%	1,463,372,408	140.8%	275.2%
4,559,595,384	69.2%	60.3%	1,498,161,713	236.5%	304.3%
4,448,569,273	66.4%	63.0%	1,494,093,569	270.5%	297.7%
5,187,031,311	62.5%	58.9%	1,456,444,123	324.8%	356.1%
5,358,551,315	58.4%	60.1%	1,478,253,368	377.8%	362.5%
4,709,209,521	61.5%	65.5%	1,484,269,715	354.1%	317.3%
5,072,148,573	62.3%	64.1%	1,514,550,023	351.9%	334.9%

Schedule of Funding Progress - Postemployment Healthcare

Year Ended December 31,	Actuarial Accrued <u>Liabilities (AAL)</u>	Actuarial Value of Assets	Fair Value of Net Assets	Unfunded AAL (UAAL) (Actuarial Value)
2005	\$1,460,682,921	\$ -	\$ -	\$1,460,682,921
2006	1,506,821,967	-	-	1,506,821,967
2007	1,554,123,496	-	-	1,554,123,496
2008	1,448,828,756	-	-	1,448,828,756
2009	1,686,872,018	-	-	1,686,872,018
2010	1,724,622,462	-	-	1,724,622,462
2011	1,678,571,388	-	-	1,678,571,388
2012	1,845,609,132	-	-	1,845,609,132
2013	1,978,767,490	-	-	1,978,767,490
2014	1,980,088,617	-	-	1,980,088,617

Schedule of Components of Change in Unfunded Liability - Pension Benefits and Postemployment Healthcare Combined

Year Ended December 31,	Salary Increase Higher/Lower <u>than Assumed</u>	Investment Returns Higher/Lower than Assumed	Employer Contributions Higher/Lower than Normal Cost <u>Plus Interest</u>	Changes in Actuarial Assumptions	Other <u>Sources (1)</u>	Total Change in Unfunded <u>Liability</u>
2005	\$(120,058,069)	\$196,928,921	\$181,602,475	\$ -	\$ (765,976,307)	\$ (507,502,980)
2006	(43,191,730)	47,913,709	152,221,465	-	42,515,613	199,459,057
2007	78,765,800	(118,960,238)	135,979,428	-	(173,829,946)	(78,044,956)
2008	160,614,779	481,086,534	198,154,784	-	(166,599,641)	673,256,456
2009	(138,750,205)	534,155,051	258,309,848	810,786,835	128,340,572	1,592,842,101
2010	(185,530,277)	364,312,504	349,354,012	-	1,683,624	529,819,863
2011	(138,554,686)	459,875,129	371,793,485	-	(25,972,161)	667,141,767
2012	34,073,219	376,601,751	252,886,106	-	305,896,670	969,457,746
2013	(184,385,510)	(586,433,767)	513,419,056	-	(108,324,418)	(365,724,639)
2014	(148,871,075)	(161,124,113)	423,103,748	-	(35,470,332)	77,638,228

 $^{(1) \} Includes \ but \ is \ not \ limited \ to \ health \ insurance, \ optional \ retirement \ experience \ and \ death, \ retirement \ and \ with \ drawal \ experience.$

Schedule of Funding Progress - Postemployment Healthcare (continued)

Unfunded AAL (UAAL) Fair Value	Funded Ratio <u>Actuarial Value</u>	Funded Ratio <u>Fair Value</u>	Covered <u>Payroll</u>	UAAL as a Percentage of Covered Payroll (Actuarial Value)	UAAL as a Percentage of Covered Payroll (Fair Value)
\$1,460,682,921	0.0%	0.0%	\$1,387,459,142	105.3%	105.3%
1,506,821,967	0.0%	0.0%	1,412,878,627	106.6%	106.6%
1,554,123,496	0.0%	0.0%	1,370,844,734	113.4%	113.4%
1,448,828,756	0.0%	0.0%	1,463,372,408	99.0%	99.0%
1,686,872,018	0.0%	0.0%	1,498,161,713	112.6%	112.6%
1,724,622,462	0.0%	0.0%	1,494,093,569	115.4%	115.4%
1,678,571,388	0.0%	0.0%	1,456,444,123	115.3%	115.3%
1,845,609,132	0.0%	0.0%	1,478,253,368	124.9%	124.9%
1,978,767,490	0.0%	0.0%	1,484,269,715	133.3%	133.3%
1,980,088,617	0.0%	0.0%	1,514,550,023	130.7%	130.7%

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