

Comprehensive Annual Financial Report
of the
Charlotte Firefighters' Retirement System -
A Component Unit of the
City of Charlotte, North Carolina



For the Fiscal Years Ended
June 30, 2014 and 2013

**COMPREHENSIVE ANNUAL FINANCIAL REPORT
OF THE
CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM –
A COMPONENT UNIT OF THE
CITY OF CHARLOTTE, NORTH CAROLINA**

**FOR THE FISCAL YEARS ENDED
JUNE 30, 2014 AND 2013**

BOARD OF TRUSTEES

F. Traylor Renfro, Chairman of the Board, Citizen Appointee
Tim R. Ramsey, Vice Chairman, Elected Member
Scott L. Greer, Treasurer, Ex-Officio
A. Scott King, Secretary, Elected Member
Cheryl L. Brown, Ex-Officio
Lydia F. Crutchfield, Citizen Appointee
Bobby W. Davis, Elected Retiree
Greg C. Gaskins, Ex-Officio
Kevin S. Gordon, Elected Member
Vanessa Heffron, Citizen Appointee
Kurt R. Hollar, Citizen Appointee

Prepared by the Charlotte Firefighters' Retirement System Staff
Sandra J. Thiry, Interim Administrator

WHERE TO WRITE FOR INFORMATION

Charlotte Firefighters' Retirement System
428 East Fourth Street, Suite 205
Charlotte, North Carolina 28202-2434
(704) 336-4431
Fax: (704) 336-6101
Email address: sthiry@charlottenc.gov

**Charlotte Firefighters' Retirement System
Charlotte, North Carolina**

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CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM

428 East Fourth Street • Suite 205 • Charlotte, North Carolina • (704) 336-4431 • Fax (704) 336-6101

April 15, 2015

Honorable Board,
Members of the City Council of Charlotte, North Carolina,
and Charlotte Firefighters' Retirement System Participants:

The Component Unit Financial Report ("Report") of the Charlotte Firefighters' Retirement System ("System") for the fiscal year ended June 30, 2014 is submitted herewith. The Board and the System's staff are responsible for the preparation and presentation of the financial information and all other data contained herein, and believe that the Report is based on accounting principles generally accepted in the United States of America, presents fairly and consistently the System's financial position and results of operations and conforms to the standards of governmental accounting and financial reporting principles as promulgated by the Governmental Accounting Standards Board (GASB). The Report consists of five sections:

- (1) Introductory Section which contains this Letter of Transmittal and general information regarding the system;
- (2) Financial Section consisting of the Independent Auditors' Report, audited financial statements and the accompanying notes to the financial statements, and required supplementary information and schedules which includes Management's Discussion and Analysis pursuant to GASB Statement No. 34;
- (3) Investment Section which contains supportive documentation related to the System's investments;
- (4) Actuarial Section which contains the consulting actuary's opinion and the results of the annual actuarial valuation report, as of July 1, 2014; and
- (5) Statistical Section which contains financial trends and information on investment policy and performance results and other statistical information which may be of interest to readers.

HISTORY

The System was organized pursuant to Chapter 926 of the 1947 Session Laws, as amended, of the State of North Carolina, and is officially known as the Charlotte Firefighters' Retirement System Act ("Act"). The System was established on the fifth day of April 1947, for the purpose of providing retirement and permanent and total

disability benefits to the uniformed employees of the Fire Department of the City of Charlotte. The stated purpose of the System was amended on the 29th day of June 1987, to provide survivor benefits to named beneficiaries as an added objective. In 2002, the Act was amended to provide for acceptance of various rollover funds for member purchases of prior military, prior government and withdrawn service credit. In 2013, a new Letter of Determination from the Internal Revenue Service was received affirming the tax-qualified status of the System.

ADMINISTRATION OF THE SYSTEM

The administration and responsibility for the proper operation of the System is vested with the System's Board of Trustees ("Board"), which is comprised of the following trustees as defined by the Act: (a) a Mecklenburg County resident who is appointed by the Resident Judge of the Superior Court of Mecklenburg County as Chairman of the Board for a three year term; (b) three Mecklenburg County residents who are appointed by the Resident Judge of the Superior Court of Mecklenburg County as trustees for three year staggered terms which results in the appointment of one trustee each year; (c) the City Manager, who serves by virtue of his position, or some other City department head or employee as designated by the City Manager; (d) the City Finance Director, who serves by virtue of his position, or a deputy finance director as designated by the Finance Director; (e) the City Treasurer who serves by virtue of his position; (f) three members of the System who are elected by the Members as trustees for three year staggered terms which results in the election of one trustee each year; and (g) one retiree of the System who is elected by the Retirees for a term of three years.

The current Board is listed on the title page of this report. Vanessa Heffron was appointed as Citizen Trustee effective August 16, 2013 replacing Ken Levine. Greg Gaskins, ex-officio and Kurt Hollar, Citizen Trustee retired effective June 30, 2014.

COMMITTEES

The Board operationally functions under a committee structure. An Investment Committee and a Benefits Committee are annually appointed by the Chairman of the Board to monitor, fact-find and recommend actions for the Board's consideration. Although not required, the committees have generally been comprised of at least three trustees with one committee member being a citizen appointee, another an elected member, and the other an ex-officio (i.e., City official) trustee. During the past fiscal year, Tim R. Ramsey, Elected Member, served as Chair of the Investment Committee. A. Scott King, Elected Member, served as Chair of the Benefits Committee. Other committees may be appointed for specific projects by the Chairman of the Board on an ad hoc basis.

PROFESSIONAL SERVICES

The Board employs the services of various professionals to aid it in its fiduciary responsibility for the effective and prudent management of the System. These

professionals include: (a) a full-time Administrator who is responsible for the supervision of System staff and administration and coordination of all System operations and activities in accordance with the rules and regulations of the Act and the policies and direction of the Board; (b) the City Attorney and his staff serve as the legal advisor to the Board although additional outside legal counsel may be engaged by the Board from time to time for specialized services; (c) a consulting actuary who is engaged by the City of Charlotte to perform such studies and evaluations of the System as may be necessary and/or desirable in connection with the System's administration and funding, including preparation of the Annual Actuarial Valuation to determine the adequacy of the funding of the retirement benefit liabilities accrued by System members); (d) an independent auditor engaged by the Board on an annual basis to determine whether the financial statements present fairly, in all material respects, the financial position of the System and the results of its yearly operations in conformity with generally accepted accounting principles; (e) a Medical Board appointed by the Board to review and evaluate medical evidence and propose recommendations regarding disability retirements; and (f) investment management professionals employed to invest the system's assets consistent with the objectives and direction of the Board. The Board may engage other professionals with expertise in various fields for specific services as deemed necessary.

The System's investment performance is monitored on a continuous basis to ensure that the objectives and direction of the Board are being fulfilled. The investment consulting firm of Callan Associates, Inc. has been employed since 1987 to assist the Board to fulfill this obligation and providing other investment consulting services. All of the advisors, consultants and providers of professional services to the System are listed on Page 10. Information related to investment fees may be found on Page 37.

FINANCIAL REPORTING

An annual report of the financial and actuarial condition of the System is prepared and submitted to the City Council. The annual report to City Council contains, but is not limited to, the auditors' opinion, statements contained in the auditors' report, a summary of the annual actuarial valuation and the actuary's valuation certification. Additionally, a copy of the annual report to City Council is provided to each of the fire stations and fire department administrative offices of the City of Charlotte.

MAJOR INITIATIVES

During the year, as its primary duty, the Investment Committee spent considerable time reviewing the performance of all existing managers. The Committee met in person with each manager. As a result of continuing global market and economic volatility, the Committee had in-depth discussions with managers and the investment consultant to maintain the asset allocation and target diversification of the portfolio and to review risk management policies. The Committee conducted a periodic review of the Policy Statement of Investment Goals, Objectives and Guidelines and made no recommendation for revisions to the Board. No significant changes were made to the asset allocation or strategy. However, the Board approved an Asset Liability Study be

performed by Callan Associates, Inc. beginning in the next fiscal year. A decision was also made to perform a process audit due to the change in key personnel. Due to the timing, the process audit will be performed in the next fiscal year.

The Investment Committee also received periodic reports during the year on the success of the securities class action litigation monitoring efforts and on some significant recoveries as the result of such litigation settlements. The volume of new class actions has dropped considerably over the past two years and the stream of recoveries has dropped by approximately 74% from Fiscal 2013 to Fiscal 2014.

Issues will continue to be examined by the Investment Committee on both a proactive and reactive basis to assure continued success as well as continued commitment to a well-diversified portfolio and strategic asset allocation. The total portfolio investment return for the year ended June 30, 2014 of 18.73% exceeded the assumed return rate of 7.75% by 1,098 basis points and reflected the continuing volatility of the global markets and economic conditions. Detailed information concerning the System's investments may be found in the *Investment Section* beginning on Page 40.

The Benefits Committee met on a regular basis during the year. Considerable ongoing discussion regarding the Disability Regulations have been at the forefront of the meetings. Discussions will continue into the next fiscal year.

The Arrivos pension administration system was fully in use during this fiscal year with occasional minor issues identified and resolved during the year. Arrivos should continue to improve data availability, operations and the services provided to members as the database grows. It has reduced the time to prepare estimates and service purchase requests from members.

FINANCIAL INFORMATION

The System's internal control structure is designed to provide reasonable, but not absolute, assurance for the safeguarding of assets against loss from theft or unauthorized use and to ensure the reliability and adequacy of the accounting records. The concept of reasonable assurance recognizes that: (1) the cost of a control should not exceed the benefits likely to be derived, and (2) the valuation of costs and benefits requires estimates and judgment by management. Accounting data are maintained in a manner suitable for preparing financial reports in conformity with generally accepted accounting principles and for providing accurate and timely data to the City Council, Board, participants of the System, citizens and other interested parties.

Budgetary Controls

The North Carolina General Statutes require the adoption of an annual budget for all funds except those for which expenditures are authorized by project ordinance, fiduciary funds and internal service funds. The System is a fiduciary fund and is therefore exempt from budgetary requirements. However, the Board considers and

adopts a budget for each current fiscal year of operations and receives a quarterly budget report from the Administrator.

Accounting and Actuarial Systems

The financial reports of the System are prepared in accordance with generally accepted principles of governmental accounting and reporting promulgated by GASB. The accrual basis of accounting is used to record assets and liabilities, and revenues and expenses. Revenues and expenses are recorded when earned or incurred, regardless of collection or disbursement. Capital assets are recorded at cost and depreciated through charges to expense over the estimated useful lives of the assets. An annual actuarial valuation is performed by the System's actuary Cavanaugh Macdonald Consulting, LLC. The actuarially calculated contribution rates are developed using the entry age cost method. This cost method attempts to allocate the cost of each member's benefit as a level percent of compensation over the member's projected service from date of hire to date of retirement or exit. The calculated contribution rates include a current or "normal" cost for the year plus an amortization amount to reduce the unfunded accrued liability.

Revenues and Funding

Revenues essential to the sound funding of the System flow from three sources:

Contributions by Members: A System Member contributes an amount equal to the Member's eligible compensation multiplied by the current contribution rate of 12.65%. Member contributions are made on a tax-deferred basis. The contributions are posted to individual accounts for each Member. The accumulated amount in each account is used for the Member's benefit if he or she remains in service. If the Member leaves service, he or she may withdraw the amount of his or her accumulated contribution. A Member with five or more years of membership service receives interest on his or her contributions if a refund is requested. A Member may, if he or she has five or more years of membership service, choose to elect a deferred annuity providing lifetime income commencing at age 60.

Contributions by the City of Charlotte: The City of Charlotte contributes an amount equal to the Member's eligible compensation multiplied by the current contribution rate of 12.65%. Any differences between the aggregate City and Member contributions are due to (a) service purchases made by Members for which the City does not make contributions and (b) City contributions for those Members away on military deployments during which Members are not required to make contributions.

Investment Income: Investment income is the third source of System revenues and must be regarded as both a vital and major contributor to funding and assists the Board and the City of Charlotte to provide for the financial security of the System's benefits. Statutorily, since 1947, the Board has exercised responsibility for investing the System's assets in a prudent and diligent manner. The Chairman of the Board appoints an Investment Committee that has the responsibility for oversight of the investment of the

System assets in accordance with the Policy Statement of Investment Goals, Objectives, and Guidelines as established by the Board.

The reader of this Report should note that year-to-year investment income variation is a function of appreciation and depreciation of securities and the subsequent realization of gains or losses on the sale of investments and is not necessarily reflective of investment performance.

The primary critical concern of the Board is the System's funding adequacy. High funding levels are directly related to benefit security for participants. It is the responsibility of the Board to make prudent and sound investment decisions in order to increase the assets and thereby the funding level of the System. The Board has a goal of maintaining the funding of the System at or near 100%. Although the market has experienced some recovery over the past few years since the market crash of 2008, investment returns have not outweighed the losses previously incurred; thereby resulting in a funding level at July 1, 2014 of 88.9%, up from 84.4.0% as of July 1, 2013. A more complete discussion of System funding status may be found in the *Actuarial Section* beginning on Page 49.

Expenses

The primary expense of the System relates to the purpose for which it was created, namely, the payment of benefits to retirees and their beneficiaries. Benefit payments to retired participants and beneficiaries, and refunds to terminated members were responsible for 97.0% of all deductions from plan assets, compared to 97.3% for the prior year. Administrative costs and depreciation accounted for 3.0% of deductions from plan assets for fiscal year 2014, compared to 2.7% for the prior year. This is primarily the result of no disability retirement cases during the past year. A more detailed discussion of System expenses may be found in the *Financial Section* beginning on Page 15.

The reader may also obtain additional information in *Management's Discussion and Analysis* beginning on Page 17.

OTHER INFORMATION

Independent Audit

Pursuant to North Carolina law, the System is required to undergo an annual audit by a certified public accountant. The Board has selected the independent certified public accounting firm of Cherry Bekaert LLP to provide these services. The auditors' report on the financial statements and required supplementary information is included in the *Financial Section*.

Awards and Acknowledgments

The Government Finance Officers Association of the United States and Canada (G.F.O.A.) awarded a Certificate of Achievement for Excellence in Financial Reporting to the Charlotte Firefighters' Retirement System for its comprehensive annual financial reports for the fiscal years ended June 30, 1995 - 2001 and June 30, 2003 - 2012. (The System did not submit its June 30, 2002 or June 30, 2013 report.) The Certificate of Achievement is a prestigious national award recognizing conformance with the highest standards for preparation of state and local government financial reports. A Certificate of Achievement is valid for a period of one year only.

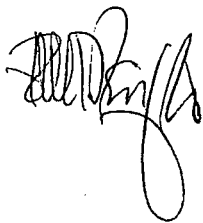
In order to be awarded a Certificate of Achievement, a government unit must publish an easily readable and efficiently organized comprehensive annual financial report or CAFR, whose contents conform to program standards. Such CAFR must satisfy both generally accepted accounting principles and applicable legal requirements.

The compilation of this Report is intended to provide complete and reliable information regarding the stewardship for the funds contributed by the members of the System and the City of Charlotte.

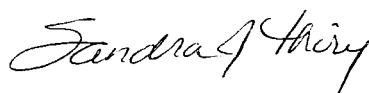
Several individuals assisted with the preparation of this report and we wish to acknowledge their efforts and assistance. H. Lee Madden, Consultant; City Finance Staff, Teresa Smith, Chief Accountant; Lewkytra Weddington, Accountant I; all contributed many hours to insure the quality and completeness of this report.

We hope that this year's report will be of interest to you and will be helpful in understanding, evaluating, and assuring the continued success of the Charlotte Firefighters' Retirement System.

Respectfully Submitted,



F. Traylor Renfro, Chairman of the Board



Sandra J. Thiry, Interim Administrator

CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM

CHARLOTTE, NORTH CAROLINA

BOARD OF TRUSTEES

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Greg C. Gaskins, Ex-Officio

Kevin S. Gordon, Elected Member

Vanessa Heffron, Citizen Appointee

Kurt Hollar, Citizen Appointee

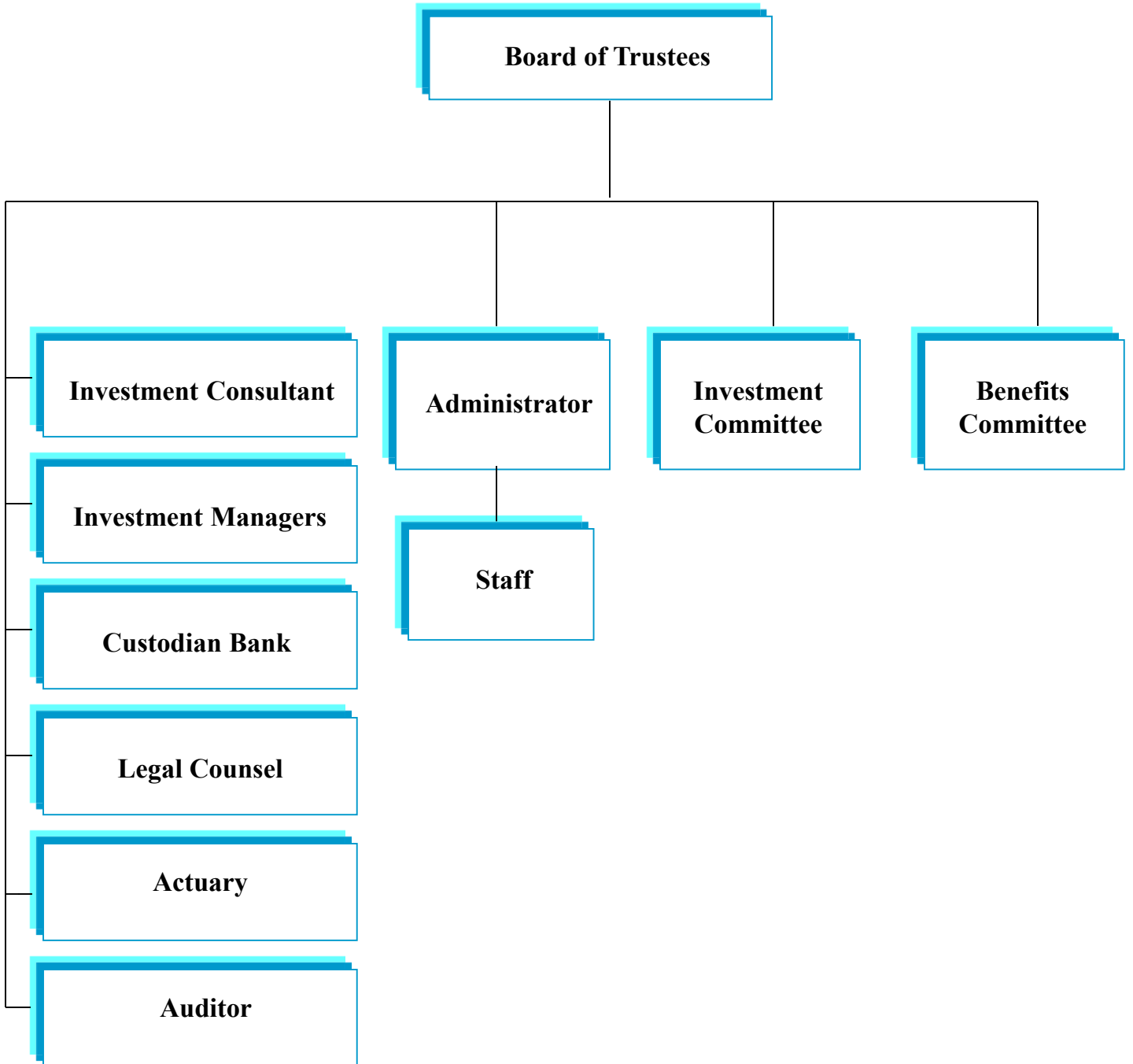
STAFF

Sandra J. Thiry, Interim Administrator

Kaisha Barron, Analyst

Tyralyn Phelps, Office Assistant

CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM ORGANIZATIONAL CHART



**PROFESSIONAL SERVICE PROVIDERS
TO THE
CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM**

ACTUARY

Cavanaugh Macdonald Consulting, LLC

CUSTODIAN BANK

State Street Bank and Trust Company, NA

INDEPENDENT AUDITORS

Cherry Bekaert LLP, Raleigh, NC

INVESTMENT ADVISORS

AJO, L.P., Domestic Equities
Baring Asset Management, Inc., Non-U.S. Fixed Income
Barrow, Hanley, Mewhinney & Strauss, Inc., Core Plus Domestic Fixed Income
UBS Realty Investors LLC, Real Estate
Robeco Investment Management, Domestic Equities
D. E. Shaw Investment Management, L.L.C., Domestic Equities
Eagle Asset Management, Domestic Equities
Investment Counselors of Maryland, Domestic Equities
Morgan Stanley, Non-U.S. Equities
State Street Global Advisors, Domestic Fixed Income Index & Equities Index
T. Rowe Price International, Inc., Non-U.S. Equities
Winslow Capital Management, Inc., Domestic Equities
William Blair & Company, Domestic Equities

INVESTMENT CONSULTANT

Callan Associates, Inc.

MEDICAL ADVISORS

CMC-NorthEast Medical Center, Concord, North Carolina

1. Eligibility for Membership

Membership is mandatory for all employees of the Charlotte Fire Department who are subject to the provisions of the Civil Service Act.

2. Normal Service Retirement

A member may elect to retire at any time after attaining age 50 with 25 or more years of service, age 60 with 5 or more years of service or at any age with 30 or more years of service.

3. Normal Service Retirement Benefit

A member receives 2.6% of final average salary per year of credited service not to exceed the limit imposed by Section 415 of the IRS Code. Final average salary is defined as the monthly average Compensation received by the member during any two consecutive Plans Years of Membership Service which produces the highest average and is contained within the Member's last 5 years of Membership Service.

4. Early Retirement

A member may retire early before age 50 at any time after completion for 25 years of membership service.

5. Early Retirement Benefit

The early retirement benefit is calculated in the same manner as for normal service retirement, but reduced by .25% for each month the early retirement date precedes age 50.

6. Disability Retirement Benefits

(a) In Line of Duty No minimum age or service requirements. Disability retirement benefits are the greater of 78% of final average salary determined as of date of total and permanent disability incurred in the line of duty or 2.6% of final average salary times

membership service. (b) Not In Line of Duty Payable in the event of total and permanent disability after 10 years of service. Disability retirement benefit is 39% of final average salary, plus 1.95% of such salary for each year of service in excess of 10 years, maximum benefit not to exceed the limits imposed by Section 415 of the IRS Code determined as of date of disability.

7. Retirement Bonus Payment

A retiree may receive an annual bonus payment in the month of January following an annual actuarial valuation when the actuary recommends such a payment and provides the Board with a fiscal note which evaluates the effect of such a payment on the System's funded status. A retiree must have been retired for at least one year as of December 31, preceding the distribution, in order to be eligible for a bonus payment.

8. Benefit Upon Termination of Employment

(a) Less Than 5 Years Lump-sum distribution of member's contributions.

(b) 5 Or More Years Normal service retirement benefits payable at age 60 or lump sum distribution of member's contribution plus interest compounded at 4.0 % per plan year of participation.

9. Death Benefits

(a) Prior to Retirement Member's contributions, plus those made by City on his or her behalf, together with interest at 4.0 % per year, are payable to the named beneficiary in a lump sum or annuity. Under certain conditions, the beneficiary may elect to receive an actuarial equivalent monthly benefit under the 66 2/3% Joint and Survivor Option.

(b) After Retirement Pre-retirement death benefit as of date of retirement, less any retirement benefits already received, is paid to retiree's named beneficiary.

10. Optional Benefits (Other Than Lifetime Benefits) All optional benefits are actuarially equivalent to lifetime retirement benefits.

Option 1 - 10 Years Certain and Life Thereafter Reduced lifetime monthly benefit to member. If member dies within 10 years following retirement, benefit continues to the named beneficiary for balance of 10 year period.

Option 2 - 100% Joint & Survivor Reduced monthly lifetime benefit which continues after retiree's death to the designated beneficiary for beneficiary's lifetime.

Option 3 - 75% Joint & Survivor Similar to Option 2, but 75% of retiree's benefit continues to the designated beneficiary after retiree's death.

Option 4 - 66 2/3% Joint & Survivor Similar to Option 2, but 66 2/3% of retiree's benefit continues to the designated beneficiary after retiree's death.

Option 5 - 50% Joint and Survivor Similar to Option 2, but 50% of retiree's benefit continues to the designated beneficiary after retiree's death.

Option 6 A retiree may elect any of the Options 2-5 with an added provision which allows the benefit to revert to the amount of the lifetime benefit (pre-

option reduced amount) in the event the beneficiary predeceases the retiree.

11. Requirements for Electing Optional Benefits

Any of the options may be elected at any time between 30 and 90 days prior to early or normal retirement. A disability retiree may elect to receive the benefit under Option 5, subject to approval by the Board of the disability retirement application.

12. Purchase of Membership Service Credit for Prior Active Military Duty

Up to five years of additional service may be purchased upon completion of 5 years in the CFRS, for active duty served prior to CFRS membership. This service may be used to qualify for normal service retirement, but not early retirement.

13. Return from Active Military Duty

Membership service credit is granted to a member who returns to CFRS membership from active duty served during any period of national emergency condition or entry at any time through the operation of the compulsory military service law of the United States of America.

14. Accumulated Sick Leave and Vacation at Retirement

Membership service is credited for the balance of any unpaid sick leave and/or vacation at the time of retirement. Also, a member receives the inclusion of the amount of lump sum payoff at retirement for any vacation and/or sick leave attributable to the member's period of final average salary.

15. Purchase of Membership Service for Prior Government Service

Up to five years of additional service may be purchased upon completion of 5 years of service in the CFRS, for prior service with another government employer. 50% of prior government service may be purchased up to the maximum. The cost of such service is calculated at full actuarial cost and may be used to qualify for normal service requirement but not early retirement.

16. Purchase of Membership Service for Withdrawn Service

Prior service with the Charlotte Fire Department and contributions withdrawn from the CFRS may be purchased in total at full actuarial cost upon completion of 5 years of service in the CFRS.

This summary of plan provisions is intended for information purposes and is in no way intended to supplant or replace the language of the Charlotte Firefighters' Retirement System Act which is the controlling document relating to benefits and any disputes regarding same. The CFRS Act should be reviewed prior to applying for or selecting benefits from the system.



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Report of Independent Auditor

To the Board of Trustees of
Charlotte Firefighters' Retirement System
Charlotte, North Carolina

Report on Financial Statements

We have audited the accompanying financial statements of the Charlotte Firefighters' Retirement System (the "CFRS") a component unit of the City of Charlotte, North Carolina, as of and for the years ended June 30, 2014 and 2013, and the related notes to the financial statements, which collectively comprise the CFRS' basic financial statements as listed in the table of contents.

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.

Auditor's Responsibility

Our responsibility is to express opinions 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 audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves 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 CFRS' 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 CFRS' internal control. Accordingly, we express no such opinion. 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 the 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 above present fairly, in all material respects, the respective net position of the CFRS as of June 30, 2014 and 2013, and the respective changes in plan net position for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Emphasis of Matter

As discussed in the Notes to the basic financial statements, CFRS adopted the provisions of Governmental Accounting Standards Board Statement No. 67, Financial Reporting for Pension Plans - An Amendment of Governmental Standards Board Statement No. 25 effective July 1, 2013.

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 as listed in the table of contents be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, 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 inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our 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 Schedules and Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the CFRS' basic financial statements. The Supplementary Schedules as listed in the table of contents are presented for purposes of additional analysis and are 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 audit 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 basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the Supplementary Schedules are fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The introductory, investment, actuarial, and statistical sections, as well as the glossary of terms as listed in the table of contents have not been subjected to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we do not express an opinion or provide any assurance on them.

Cherry Rickett LLP

Raleigh, North Carolina
April 13, 2015

MANAGEMENT'S DISCUSSION AND ANALYSIS

This section presents Management's Discussion and Analysis of the Charlotte Firefighters' Retirement System's ("System") financial statements and the significant events, conditions and decisions which affected the operations and performance of the CFRS during the years ended June 30, 2014 and 2013.

Overview of the Financial Statements and Accompanying Information

- 1) Fund Financial Statements. The System presents Statements of Plan Net Position as of June 30, 2014 and 2013 and Statements of Changes in Plan Net Position for the years then ended. These statements reflect resources available for payment of benefits as of year-end and the sources and uses of those funds during the year. For purposes of discussion and analysis, the condensed information shown below includes three fiscal years.
- 2) Notes to the Financial Statements. The notes to the financial statements are an integral part of the financial statements and have additional detailed information to provide a better understanding of the financial statements. Information in the notes discloses the System organization, benefits and contributions, how the asset values are determined, contingencies and commitments.
- 3) Required Supplementary Information. The required supplementary information consists of a schedule concerning the funding status of the System, employer contributions and this Management's Discussion and Analysis.
- 4) Other Supplementary Schedules. Other schedules include detailed information on administrative expenses incurred by the System, a schedule of investment manager fees by asset class and fees paid to consultants for professional services.

Comparative Statements of Plan Net Position

(in thousands)

	Years ended June 30		
	2014	2013	2012
Cash and Cash equivalents	\$ 21,035	\$ 18,772	\$ 6,209
Investments	452,457	388,773	356,263
Capital assets	243	262	311
Other assets	945	941	654
Total assets	474,680	408,748	363,437
Liabilities	(1,105)	(1,251)	(1,045)
Net Position	\$473,575	\$ 407,497	\$362,392

Comparative Statements of Changes in Plan Net Position

(in thousands)

	Years ended June 30		
	2014	2013	2012
Contributions	\$ 17,071	\$ 16,420	\$ 16,094
Net Investment Gain/(Loss)	73,607	51,854	2,434
Total Additions/(Loss)	90,678	68,274	18,528
Benefits	(23,928)	(22,423)	(21,135)
Other deductions	(672)	(746)	(1,071)
Total Deductions	(24,600)	(23,169)	(22,206)
Change in Net Position	\$ 66,078	\$ 45,105	\$ (3,678)

Financial Analysis

The CFRS provides retirement benefits to the uniformed firefighters of the City of Charlotte. The System benefits are funded through member and employer contributions and investment income. As reflected in the Comparative Statements of Changes in Plan Net Position on *Page 22*, the net position of the System increased approximately \$66.1 million during the year ended June 30, 2014, increased approximately \$45.1 million and decreased \$3.7 million during the years ended June 30, 2013 and June 30, 2012, respectively. These results reflect the extremely volatile market environment since the preceding several years of positive results, intense global economic issues in financial markets and the improving market conditions of the past year.

Funded Ratio

The funded ratio of the plan measures the ratio of actuarially determined assets against actuarial liabilities and is a good indicator of the fiscal strength of a pension fund's ability to meet obligations to its members. The System is required by the Act to perform an annual actuarial valuation. The valuation as of July 1, 2014 showed the funded status of the System increasing to 88.9% from 84.4% at July 1, 2013 and 85% at July 1, 2012. The System valuations use a 5-year smoothed market basis. The System had an unfunded liability of \$53 million, \$70.3 million and \$64.7 million for the years ended June 30, 2014, 2013 and 2012, respectively. The increase in the funded ratio was principally due to robust investment returns across global markets. In addition, the depressed June 30, 2009 market value that resulted from the severe sell-off in global equities during the credit crisis rolled off the 5-year smoothed asset value calculation.

Contributions and Income

Additions to Plan Net Position include employer and member contributions and net income from investment activities. Member contributions were approximately \$8.7 million, \$8.3 million and \$8.3 million for the years ended June 30, 2014, 2013 and 2012, respectively, an annual increase of \$403,000 and a decrease of \$54,000 each for fiscal years 2013 and 2012. The member rate is 12.65% of eligible compensation, set by statute and made on a tax-deferred basis. The employer rate is set at 12.65% by statute to equally match that of members. Employer contributions were approximately \$8.3 million, \$8.1 million and \$7.7 million for the years ended June 30, 2014, 2013 and 2012, respectively. The variances between employer and member contributions may be attributed to significant prior government and military service purchases made by members and contributions not made by members who have been placed on military deployment during the past years.

Net investment gains of approximately \$73.6 during fiscal 2014, \$51.9 million during fiscal 2013 and \$2.4 million during fiscal 2012, resulted in returns of 18.73%, 14.82% and 1.14%, respectively as measured by Callan Associates, Inc. The positive returns in investment income in 2014 were the largely result of strong global equity market performance, with particular strong returns from the domestic equity allocation. The System outperformed its composite benchmark on a relative basis by 44 basis points and the Callan Public Fund Sponsor Database median return by 262 basis points. For the 5-year period ended June 30, 2014, the System returns were 14.06% compared to its composite benchmark returns of 13.75% and its actuarial assumed rate of return of 7.75%.

The most significant deduction from investment income is investment manager fees. The System's assets are managed 100% by external investment advisors hired by the Board of Trustees. Many of these managers are paid a fee based on the assets under management. Some of the active managers are paid a base fee plus the possibility of performance incentive. Some of the managers were generally compensated more than in prior years because of the effect of higher asset values during most of the year. Investment expenses for the years ended June 30, 2014, 2013 and 2012 were approximately \$2.5 million, \$2.1 million and \$1.9 million, respectively.

Prudent investment of the System's assets, diligent monitoring of investment advisors and a commitment to periodic allocation rebalancing in addition to conservative administrative costs has enabled the System to maintain a high funded status. The Board of Trustees is committed to maintaining the System at or near 100% funding and will dedicate its efforts to that goal.

Benefits, Refunds and Expenses

The most significant recurring deduction to Plan Net Position is benefit payments. During fiscal 2014, the System paid approximately \$23.9 million, up from \$22.6 million in fiscal 2013 and \$21.6 million in fiscal 2012, in benefits and refunds. The increased level of payments in fiscal year 2014 was due primarily to new retirements. The System does not provide an automatic Cost of Living Adjustment (COLA). Due to the funding ratio of the System, the Board of Trustees was unable to provide a bonus payment for retirees and beneficiaries receiving benefits as of January 1, 2013.

The administrative costs of the System represented approximately .15% of the net ending assets in fiscal year 2014, virtually the same over the past two fiscal years.

Plan Assets

During fiscal year 2014, investments allocated to domestic and international equity portfolios increased approximately \$37.8 million, after experiencing an increase of \$35.6 million and a decrease of \$9.0 million in fiscal years 2013 and 2012, respectively. The increase is attributable to the recovery. The System does not invest in alternative classes of investments such as hedge funds, venture capital and private equity. It also does not have a securities lending program at this time. During fiscal years 2014, 2013 and 2012, investments allocated to domestic and non-U.S. fixed income increased approximately \$27.8 million, and decreased \$0.8 million and increased \$3.4 million, respectively. These results are attributable to investment results and continuing volatility of global bond markets combined with historically low interest rates and global currency issues during this period.

The System values its assets at "fair value" as discussed in accounting policies footnote 2(f) (*Page 28*) to the financial statements. Fair value is the value the System expects to receive in a current sale between a willing buyer and a willing seller that are equally motivated; that is, other than a forced or liquidation sale. The value of publicly traded securities, stocks and bonds, are determined using the latest quote from national exchanges or pricing services. These prices reflect the securities' pricing at the close of business and can be affected by such factors as liquidity, current events and the size of lots being traded. Real Estate is valued using appraisal values by approved appraisers who meet professional qualifications. The appraisal process

involves a significant amount of judgment and estimates. As a result, the ultimate value on the sale of the asset may differ from the appraised value. The System terminated an open-end commingled real estate investment trust (REIT) and hired a manager with a core equity real estate portfolio for its real estate investment allocation. The new manager has been partially funded. Additional funds will be allocated in Fiscal 2014. In addition, the System replaced the Mid Cap Growth manager.

Contacting the CFRS Management

This financial report is designed to provide the City Council, participants of the System, citizens, taxpayers and other interested parties with an overview of its operations and financial position and to demonstrate its accountability. Questions concerning this report or requests for additional information should be directed to the Interim Administrator, Charlotte Firefighters' Retirement System, 428 East 4th Street, Suite 205, Charlotte, NC 28202.

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA
COMPARATIVE STATEMENTS OF PLAN NET POSITION
(In Thousands)**

	June 30	
	<u>2014</u>	<u>2013</u>
ASSETS:		
Cash and cash equivalents	\$ 21,035	\$ 18,772
Receivables:		
Employer contributions	189	157
Member contributions	186	150
Interest and dividends	<u>570</u>	<u>634</u>
Total receivables	<u>945</u>	<u>941</u>
Investments, at fair value:		
Equity securities - stocks	168,076	160,330
Fixed income securities - bonds	82,527	60,875
Mutual funds	<u>201,854</u>	<u>167,568</u>
Total investments	<u>452,457</u>	<u>388,773</u>
Capital assets, at cost, net of accumulated depreciation of \$382 - 2014 and \$333 - 2013	<u>243</u>	<u>262</u>
Total assets	474,680	408,748
LIABILITIES:		
Accounts payable	<u>1,105</u>	<u>1,251</u>
NET POSITION RESTRICTED FOR PENSIONS	<u>\$473,575</u>	<u>\$407,497</u>

The notes to the financial statements are an integral part of this statement.

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA**
COMPARATIVE STATEMENTS OF CHANGES IN PLAN NET POSITION
(In Thousands)

	Years Ended June 30	
	<u>2014</u>	<u>2013</u>
ADDITIONS:		
Contributions:		
Member	\$ 8,723	\$ 8,320
Employer	<u>8,348</u>	<u>8,100</u>
Total contributions	<u>17,071</u>	<u>16,420</u>
Investment income:		
Net appreciation in fair value of investments	68,366	47,652
Interest	2,155	1,522
Dividends	<u>5,610</u>	<u>4,789</u>
	76,131	53,963
Less investment expense	<u>2,524</u>	<u>2,109</u>
Net investment income	<u>73,607</u>	<u>51,854</u>
Total additions	<u>90,678</u>	<u>68,274</u>
DEDUCTIONS:		
Benefits	23,928	22,423
Refunds	(67)	128
Administration	691	569
Depreciation	<u>48</u>	<u>49</u>
Total deductions	<u>24,600</u>	<u>23,169</u>
Net increase in plan net position	66,078	45,105
Net position - beginning	<u>407,497</u>	<u>362,392</u>
Net position - ending	<u>\$473,575</u>	<u>\$407,497</u>

The notes to the financial statements are an integral part of this statement.

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA**
NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2014 AND 2013
(Dollar Amounts in Thousands)

1. PLAN DESCRIPTION:

The Charlotte Firefighters' Retirement System (the System), a single-employer, defined benefit plan, was organized pursuant to the 1947 Session Laws of the State of North Carolina, for the purpose of providing retirement, disability and death benefits to civil service employees of the Charlotte Fire Department. Membership is mandatory at the date of employment. The System is administered by an eleven member Board of Trustees. The City of Charlotte's (City) payroll for members covered by the System for the year ended June 30, 2014 and 2013 was \$66 million and \$63 million, respectively.

At June 30, the System's membership consisted of:

	<u>2014</u>	<u>2013</u>
Inactive members or beneficiaries		
currently receiving benefits	575	546
Inactive members entitled to but not yet		
receiving benefits	7	5
Active plan members	<u>1,027</u>	<u>1,026</u>
Total	<u>1,609</u>	<u>1,577</u>

Benefits vest after five years of credited service. The requirements for normal service retirement are: (a) any age with 30 years of service credit, (b) age 50 with 25 years of service credit, or (c) age 60 with 5 years of service credit. The normal service retirement monthly benefits are 2.6 percent of final average salary multiplied by the years of credited service. Salary in the final year includes portions of cashed-in vacation and sick days. Final average salary is the monthly average received by the member during any 2 consecutive years of membership which produces the highest average and is contained within the last 5 years of membership. The minimum monthly benefit is \$902.75. Members less than age 50 may elect early retirement with 25 years of service credit. Early retirement benefits are reduced by 3 percent for each year the early retirement date precedes age 50.

If an employee ceases employment with less than 5 years of service credit, accumulated employee contributions are refunded to the employee or designated beneficiary. After 5 or more years of service, the employee may elect to receive a refund of the employee's accumulated contributions with interest compounded annually at 4 percent or receive an accrued benefit at age 60.

Death and disability benefits are also available. Benefit and contribution provisions are established by State law and may be amended only by the North Carolina legislature.

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA**
NOTES TO THE FINANCIAL STATEMENTS – (Continued)
FOR THE YEARS ENDED JUNE 30, 2014 AND 2013
(Dollar Amounts in Thousands)

Pursuant to the Act that established the System, the City is required to match the member's contribution. The Act establishes the contribution rate pursuant to the Board of Trustees' recommendation and approval by the Charlotte City Council. The current rate is 12.65 percent. Administrative costs are funded through contributions and investment earnings.

The contributions made by the City and the members of the System were as follows:

	<u>In Dollars</u>		<u>Percent of Covered Payroll</u>	
	<u>2014</u>	<u>2013</u>	<u>2014</u>	<u>2013</u>
Contributions made by -				
City	\$ 8,348	\$ 8,100	13.01%	12.96%
Members	<u>8,723</u>	<u>8,320</u>	<u>13.59</u>	<u>13.31</u>
Total	<u>\$17,071</u>	<u>\$16,420</u>	<u>26.60%</u>	<u>26.27%</u>

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES:

a. Basis of Presentation

The System provides services exclusively to the City; therefore, the System is included as a blended component unit and reported as a Fiduciary Pension Trust Fund in the City's basic financial statements.

The financial statements are presented in accordance with Governmental Accounting Standards Board (GASB) Statement No. 67, Financial Reporting for Pension Plans an amendment of GASB Statement No. 25, which establishes standards of financial reporting for state and local government pension plans administered through trusts that meet certain criteria.

GASB Statement No. 9, Reporting Cash Flows of Proprietary and Nonexpendable Trust Funds and Governmental Entities That Use Proprietary Fund Accounting, as amended by GASB Statement No. 25, exempts pension plans from presenting a statement of cash flows. As a result, the System has chosen not to present this statement.

b. Basis of Accounting

The financial statements are presented on the accrual basis of accounting. Property is stated at historical cost. Depreciation is computed using the straight-line method over an estimated useful life of twenty-five years for buildings and five years for intangible assets. 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. Interest and dividend income is

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA
NOTES TO THE FINANCIAL STATEMENTS – (Continued)
FOR THE YEARS ENDED JUNE 30, 2014 AND 2013
(Dollar Amounts in Thousands)**

reported as earned. The net appreciation in the fair value of investments includes realized gains and losses on investments that were both bought and sold during the year.

c. Cash and Cash Equivalents/Investments

Short-term, highly liquid investments are considered cash equivalents. Short-term refers to investments with an original maturity of three months or less at date of acquisition. Highly liquid investments are those that are readily convertible to known amounts of cash and so near their maturity that the risk of changes in value because of changes in interest rates is insignificant.

The carrying amounts of deposits and investments were \$21,035 and \$452,457 at June 30, 2014 and \$18,772 and \$388,773 at June 30, 2013, respectively.

Deposits

All deposits of the System are made in board-designated official depositories and are insured or collateralized with securities held by the System's agent in the System's name. The System has no formal policy regarding custodial credit risk for deposits. The bank balances at June 30, 2014 and 2013 were \$165 and \$244, respectively.

Investments

The North Carolina Act (Act) which established the System requires the Board of Trustees to act with the same care, skill, prudence and diligence under the circumstances then prevailing, that a prudent person acting in a similar capacity and familiar with those matters would use in the conduct of a similar enterprise with similar aims. The Act requires the Trustees to design an investment plan to further the purpose of the System by giving consideration to the following: (a) diversification of investments, (b) liquidity and return relative to cash flow needs and (c) projected return. In accordance with the Act, the Board of Trustees has developed and periodically revises a policy statement of investment goals, objectives, and guidelines, which specifically define vehicles that may be used for the investment of System funds. The System invests in United States government securities, corporate bonds, common stocks and mutual funds.

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA**
NOTES TO THE FINANCIAL STATEMENTS – (Continued)
FOR THE YEARS ENDED JUNE 30, 2014 AND 2013
(Dollar Amounts in Thousands)

The investments and maturities at June 30, 2014, were as follows:

<u>Investment type</u>	<u>Fair Value</u>	<u>Investment Maturities (in Years)</u>			
		<u>Less than 1</u>	<u>1 - 5</u>	<u>6 - 10</u>	<u>More than 10</u>
U.S. Treasuries	\$ 10,823	\$ -	\$ 839	\$ 8,404	\$ 1,580
U.S. Agencies	21,671	-	-	20	21,651
Corporate bonds	50,033	-	31,484	12,507	6,042
Common stocks	177,716	N/A	N/A	N/A	N/A
Mutual funds	192,214	N/A	N/A	N/A	N/A
Total	<u>\$ 452,457</u>	<u>\$ -</u>	<u>\$ 32,323</u>	<u>\$ 20,931</u>	<u>\$ 29,273</u>

Interest Rate Risk. The System does not have a formal investment policy that limits investment maturities.

Credit Risk. The System is authorized to invest in bonds with a quality rating of no less than investment grade and unrated U.S. Treasuries and Agencies. The quality ratings of investments in fixed income securities as described by nationally recognized statistical rating organizations at June 30, 2014 are as follows:

<u>Quality Rating</u>	<u>Fair Value</u>	<u>Percentage of Portfolio</u>
AAA	\$ 2,486	3.01%
Baa>AA	40,864	49.52
Total credit risk debt securities	43,350	52.53
US Government fixed income securities:		
Government National Mortgage Association	3,589	4.35
U.S. Treasury	10,822	13.11
Not rated	24,766	30.01
Total fixed income securities	<u>\$ 82,527</u>	<u>100.00%</u>

Custodial Credit Risk. The System has no formal policy regarding custodial credit risk for investments.

Concentration of Credit Risk. The System limits the amount of equity holdings in any one company to 8 percent of the market value of the portfolio; the amount of equity holdings in any one sector to 30 percent of the market value of the portfolio; and the amount of fixed-income securities in any one corporation to 5 percent of the market value of the portfolio. There is no limit on securities backed by the full faith and credit of the U.S. Government or any of its instrumentalities.

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA
NOTES TO THE FINANCIAL STATEMENTS – (Continued)
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(Dollar Amounts in Thousands)**

In accordance with the Act, the System has invested in collateralized mortgage obligations (CMO) and mortgage backed securities. CMO and mortgage backed securities are based on cash flows from principal and interest payments on underlying mortgages. CMO rates trade in sympathy with treasury rates. The System held \$1,747 and \$1,520 of these securities at June 30, 2014 and 2013, respectively.

d. Concentrations

The System had individual fixed income or equity investments at June 30 managed by the following organizations that represented 5 percent or more of the System's net assets:

	<u>2014</u>	<u>2013</u>
Barrow, Hanley, MeWhinney & Strauss	18%	15%
Morgan Stanley Dean Witter	13	12
Aronson + Johnson + Ortiz	10	12
Winslow Capital Management	10	11
State Street Global Advisors	9	8
DE Shaw Investment Management	6	6
Robeco Boston Partners	5	6
Eagle Asset Management	5	6
Investment Counselors of Maryland	5	6
William Blair & Company	5	5

In addition, the System owned individual assets at June 30 that represented 5 percent or more of the System's net assets:

	<u>2014</u>	<u>2013</u>
Morgan Stanley Pooled International Equity Trust	11%	11%
DE Shaw Investment Management	6	6
ICM Small Company Portfolio	5	6
State Street Global Advisors S&P 500 Flagship Fund	5	-

e. Rate of Return

For the year ended June 30, 2014, the annual money-weighted rate of return on the system's investments, net of pension plan investment expense, was 18.6 percent. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA
NOTES TO THE FINANCIAL STATEMENTS – (Continued)
FOR THE YEARS ENDED JUNE 30, 2014 AND 2013
(Dollar Amounts in Thousands)**

f. Method Used to Value Investments

Investments are reported at fair value. Securities and mutual funds traded on a national or international exchange are valued at the last reported sales price at current exchange rates. Mortgages are valued on the basis of future principal and interest payments and are discounted at prevailing interest rates for similar instruments. The fair value of real estate investments is based on independent appraisals. Investments that do not have an established market are reported at estimated fair value.

g. Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities and changes therein, disclosure of contingent assets and liabilities, and the actuarial present value of accumulated plan benefits at the date of the financial statements. Actual results could differ from those estimates.

h. Capital Assets

Capital asset activity for the year ended June 30, 2014, was as follows:

	<u>Beginning Balance</u>	<u>Increase</u>	<u>Decrease</u>	<u>Ending Balance</u>
Capital assets, being depreciated:				
Buildings	\$ 435	\$ 30	\$ -	\$ 465
Intangibles	<u>160</u>	<u>-</u>	<u>-</u>	<u>160</u>
Total capital assets being depreciated	<u>595</u>	<u>30</u>	<u>-</u>	<u>625</u>
Less accumulated depreciation for:				
Buildings	253	17	-	270
Intangibles	<u>80</u>	<u>32</u>	<u>-</u>	<u>112</u>
Total accumulated depreciation	<u>333</u>	<u>49</u>	<u>-</u>	<u>382</u>
Capital assets, net	<u>\$ 262</u>	<u>\$ (19)</u>	<u>\$ -</u>	<u>\$ 243</u>

3. NET PENSION LIABILITY:

The components of the net pension liability at June 30, 2014, were as follows:

Total pension liability	\$478,213
Plan net position	<u>(473,575)</u>
Net pension liability	<u>\$ 4,638</u>

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA
NOTES TO THE FINANCIAL STATEMENTS – (Continued)
FOR THE YEARS ENDED JUNE 30, 2014 AND 2013
(Dollar Amounts in Thousands)**

Plan fiduciary net position as a percentage of the total liability 99.03%

Actuarial assumptions. The total pension liability was determined by an actuarial valuation as of July 1, 2014, using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	3.25%
Salary increases	4.25-11.25%, including inflation
Investment rate of return	7.75%, net of pension plan investment expense, including inflation

Mortality rates were based on the RP-2000 Combined Mortality Table for the period after service retirement, for dependent beneficiaries, and for deaths in active service, and the UP 1994 Mortality Table set forward five years for males for the period after disability retirement.

The actuarial assumptions used in the July 1, 2014 valuation were based on the results of an actuarial experience study for the period July 1, 2004 – June 30, 2009.

The long-term expected rate of return on the system's investments was determined using a log-normal distribution analysis in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are 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. The target asset allocation and best estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

<u>Asset Class</u>	<u>Target Allocation</u>	<u>Long-Term Expected Real Rate of Return</u>
Broad Domestic Equity	51.0%	8.5%
International Equity	14.0%	8.3%
Emerging Markets Equity	2.0%	8.8%
Domestic Fixed Income	23.0%	4.5%
Non US Fixed Income	4.0%	4.0%
Real Estate	<u>6.0%</u>	6.8%
Total	100.0%	

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA**
NOTES TO THE FINANCIAL STATEMENTS – (Continued)
FOR THE YEARS ENDED JUNE 30, 2014 AND 2013
(Dollar Amounts in Thousands)

Discount rate. The discount rate used to measure the total pension liability was 7.75 percent. The projection of cash flows used to determine the discount rate assumed that plan member contribution will be made at the current contribution rate and that employer contributions will be made at the current statutory rate. Based on those assumptions, the system's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Sensitivity of the net pension liability to changes in the discount rate. The following presents the net pension liability of the System, calculated using the discount rate of 7.75 percent, as well as what the System's net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.75 percent) or 1-percentage-point higher (8.75 percent) than the current rate (\$ thousands):

	1% Decrease <u>(6.75%)</u>	Current Discount Rate <u>(7.75%)</u>	1% Increase <u>(8.75%)</u>
System's net pension liability	\$ 57,051	\$ 4,638	\$ (40,111)

4. INTERNAL REVENUE STATUS:

The Internal Revenue Service has determined that the System meets the requirements of Section 401(a) of the Internal Revenue Code and is exempt from Federal income tax under Section 501(a) of the Code.

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA**
SCHEDULE OF CHANGES IN THE NET PENSION LIABILITY
(In Thousands)

	<u>2014</u>
Total pension liability	
Service Cost	\$ 13,967
Interest	34,249
Benefit payments	(23,928)
Refunds of contributions	<u>67</u>
Net change in total pension liability	24,355
Total pension liability - beginning	<u>453,858</u>
Total pension liability - ending (a)	<u><u>\$ 478,213</u></u>
Plan fiduciary net position	
Contributions - employer	\$ 8,348
Contributions - member	8,723
Net investment income	73,607
Benefit payments	(23,928)
Administrative expense	(691)
Refunds of contributions	67
Depreciation	<u>(48)</u>
Net change in plan fiduciary net position	66,078
Plan net position - beginning	<u>407,497</u>
Plan net position - ending (b)	<u>\$ 473,575</u>
Net pension liability - ending (a) - (b)	<u><u>\$ 4,638</u></u>
Plan net position as a percentage of the total pension liability	99.03%
Covered employee payroll	\$ 65,992
Net pension liability as a percentage of covered employee payroll	7.03%

Note to Schedule:

In 2014, the System began reporting in accordance with GASB Statement 67 which requires 10 years of information. Additional years will be displayed as they become available.

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA
REQUIRED SUPPLEMENTARY INFORMATION
SCHEDULE OF EMPLOYER CONTRIBUTIONS
(Dollar Amounts in Thousands)**

	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	<u>2010</u>	<u>2009</u>	<u>2008</u>	<u>2007</u>	<u>2006</u>	<u>2005</u>
Actuarially determined employer contribution	\$ 10,849	\$ 9,214	\$ 8,409	\$ 8,131	\$ 7,440	\$ 6,703	\$ 6,918	\$ 6,846	\$ 6,640	\$ 6,159
Actual employer contributions	<u>8,348</u>	<u>8,100</u>	<u>7,720</u>	<u>7,670</u>	<u>7,440</u>	<u>7,341</u>	<u>6,918</u>	<u>6,574</u>	<u>6,229</u>	<u>5,871</u>
Annual contribution deficiency (excess)	<u>\$ 2,501</u>	<u>\$ 1,114</u>	<u>\$ 689</u>	<u>\$ 461</u>	<u>\$ -</u>	<u>\$ (638)</u>	<u>\$ -</u>	<u>\$ 272</u>	<u>\$ 411</u>	<u>\$ 288</u>
Covered-employee payroll	\$ 65,992	\$ 64,032	\$ 61,028	\$ 60,632	\$ 58,814	\$ 58,032	\$ 54,688	\$ 51,968	\$ 49,241	\$ 46,411
Actual contributions as a percentage of covered-employee payroll	12.65%	12.65%	12.65%	12.65%	12.65%	12.65%	12.65%	12.65%	12.65%	12.65%

Notes to Schedule

Valuation Date: Actuarially determined contribution rates are calculated as of July 1, two years prior to the end of the fiscal year in which contributions are reported
Methods and assumptions used to determine contribution rates:

Actuarial cost method	Entry age
Amortization method	Level percent of pay, Open
Remaining amortization period	30 years
Asset valuation method	5-year smoothed market value
Inflation	3.25%
Salary increases	4.25 - 11.25%, including inflation
Investment rate of return	7.75%, net of pension plan investment expense, including inflation
Mortality	Mortality rates were based on the RP-2000 Combined Healthy Retiree Mortality Table for the period after service retirement and for dependent beneficiaries. The UP 1994 Mortality Table set forward five years is used for the period after disability retirement.

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA
REQUIRED SUPPLEMENTARY INFORMATION
SCHEDULE OF INVESTMENT RETURNS
(Dollar Amounts in Thousands)**

2014

Annual money-weighted rate of return, net of investment expense	18.60%
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Note to Schedule:

In 2014, the System began reporting in accordance with GASB Statement 67 which requires 10 years of information. Additional years will be displayed as they become available.

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA
SCHEDULE OF CASH RECEIPTS AND DISBURSEMENTS
(Dollar Amounts in Thousands)**

	Years Ended June 30	
	<u>2014</u>	<u>2013</u>
CASH RECEIPTS:		
Contributions:		
Member	\$ 8,687	\$ 8,313
Employer	<u>8,316</u>	<u>8,088</u>
Total contributions	17,003	16,401
Investing activities:		
Sales of investments	227,966	199,821
Interest	2,088	1,274
Dividends	<u>5,733</u>	<u>4,784</u>
Total investing activities	<u>235,787</u>	<u>205,879</u>
Total cash receipts	<u>252,790</u>	<u>222,280</u>
CASH DISBURSEMENTS:		
Benefits	24,001	22,138
Refunds	82	174
Administration	588	296
Acquisition of capital assets	30	-
Investing activities:		
Purchase of investments	223,283	184,679
Investment expense	<u>2,543</u>	<u>2,430</u>
Total investing activities	<u>225,826</u>	<u>187,109</u>
Total cash disbursements	<u>250,527</u>	<u>209,717</u>
Net increase in cash and cash equivalents	2,263	12,563
CASH AND CASH EQUIVALENTS, beginning of year	<u>18,772</u>	<u>6,209</u>
CASH AND CASH EQUIVALENTS, end of year	<u>\$ 21,035</u>	<u>\$ 18,772</u>

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA**
SCHEDULE OF ADMINISTRATIVE EXPENSES AND DEPRECIATION
Year Ended June 30, 2014
(Dollar Amounts in Thousands)

PERSONAL SERVICES:		
Staff Salaries	\$329	
Insurance	22	
Retirement	15	
Social Security	20	
401 (k) Contributions	<u>5</u>	
Total Personal Services		<u>\$391</u>
PROFESSIONAL SERVICES:		
Other	120	
Actuarial Services	19	
Audit	12	
Legal Counsel	<u>3</u>	
Total Professional Services		<u>154</u>
COMMUNICATION:		
Travel and Training	49	
Postage	13	
Printing	11	
Meetings	5	
Telecommunications	4	
Books and Subscriptions	0	
Parking	<u>1</u>	
Total Communication		<u>83</u>
MISCELLANEOUS:		
Depreciation	48	
Office Condominium Fees	26	
Insurance	20	
Annual Retiree Reunion	5	
Office Equipment Maintenance	0	
Professional Memberships	3	
Office and Computer Supplies	5	
Miscellaneous and Contingency	2	
Office Furniture and Equipment	<u>2</u>	
Total Miscellaneous		<u>111</u>
TOTAL ADMINISTRATIVE EXPENSES AND DEPRECIATION		<u><u>\$739</u></u>

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA
SCHEDULE OF PROFESSIONAL SERVICE EXPENSES
Year Ended June 30, 2014
(Dollar Amounts in Thousands)**

Type of Service	Name	Expenses
Actuary	Cavanaugh Macdonald Consulting	\$ 19
Audit	Cherry Bekaert LLP	12
Architect	Fryday & Doyne	6
Consulting	McLaughlin Young Consulting	1
	Tegrit Financial	<u>56</u>
		57
IT	Profit/CS, LLC	5
Legal	Parker, Poe, Adams & Berstein LLP	2
	Womble, Carlyle, Sandridge & Rice	<u>1</u>
		3
Payroll	Ceridian	<u>52</u>
TOTAL PROFESSIONAL SERVICE EXPENSES		\$ <u><u>154</u></u>

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA
SCHEDULE OF INVESTMENT EXPENSES
Year Ended June 30, 2014
(Dollar Amounts in Thousands)**

		<u>ASSETS UNDER MANAGEMENT</u>
INVESTMENT MANAGEMENT FEES:		
Equity:		
Morgan Stanley	\$ 489	\$ 61,113
William Blair & Company	202	23,913
Eagle Asset Management	192	25,301
Investment Counselors of Maryland	179	24,741
AJO (Aronson + Johnson + Ortiz)	174	47,060
Robeco Investment Management, Inc.	172	23,772
T. Rowe Price	170	13,984
Winslow Capital Management	125	48,032
DE Shaw Investment Management	107	27,833
Cadence Capital Management	21	-
State Street Global Advisors	18	44,390
Fixed Income:		
Barrow, Hanley, Mewhinney & Strauss	202	82,527
Baring Asset Management	88	18,172
Real Estate:		
UBS Trumbull Property Fund	<u>130</u>	<u>11,619</u>
Total Investment Management Fees	<u>2,269</u>	<u>\$452,457</u>
TRUST AND BANK FEES:		
State Street Bank and Trust Company NA	108	
Bank of America	<u>4</u>	
Total Trust and Bank Fees	<u>112</u>	
INVESTMENT CONSULTING FEES - Callan Associates Inc.	<u>143</u>	
TOTAL INVESTMENT EXPENSES	<u>\$2,524</u>	

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA**

SCHEDULE OF INVESTMENTS

Years Ended June 30, 2014 and 2013

(Dollar Amounts in Thousands)

Type of Investment	June 30, 2014		June 30, 2013	
	Fair Value	Percentage Fair Value	Fair Value	Percentage Fair Value
FIXED INCOME	\$ 82,527	17.43%	\$ 60,875	14.94%
COMMON AND PREFERRED STOCK	168,076	35.50%	160,330	39.34%
MUTUAL FUNDS:				
Domestic Equities	76,935	16.25%	61,436	15.07%
Fixed Income Bond Index	20,030	4.23%	19,198	4.71%
International Equities	75,098	15.86%	62,584	15.36%
International Fixed Income	18,172	3.84%	13,702	3.36%
Real Estate	11,619	2.45%	10,648	2.61%
Total mutual funds	201,854	42.62%	167,568	41.10%
TOTAL INVESTMENTS	452,457	95.55%	388,773	95.38%
CASH & CASH EQUIVALENTS	21,035	4.44%	18,772	4.61%
	<u>\$ 473,492</u>	<u>100.00%</u>	<u>\$ 407,545</u>	<u>100.00%</u>

September 24, 2014

The Charlotte Firefighters' Retirement System ("CFRS") investment program's objective is to provide plan participants with retirement benefits. This is accomplished by the implementation of a carefully planned and executed long-term investment program. The Board of Trustees ("Board") has exclusive control of all retirement system investments and is responsible for establishing investment objectives, strategies, and policies.

The Board is charged with the responsibility of investing CFRS' assets to provide for the benefits of the members of the System. To achieve that goal, the Board follows a policy of preserving capital, while seeking means of enhancing revenues and protecting against undue losses in any particular investment area. The Board diversifies the investment of the assets among classes of securities to reduce risk while maximizing the long-range return.

Asset Allocation Policy

Based on its analysis of capital and money market return patterns, both historical and projected, the Board considers the following asset allocation targets to be consistent with the return requirements and risk tolerance of the fund:

Asset Class	Target Weight	Asset Class Benchmark
Domestic Equity	51%	Russell 3000 Stock Index
International Equity	14%	MSCI Europe, Australia, Far East Index
Emerging Markets Equity	2%	MSCI Emerging Markets Free Index
Real Estate	6%	NCREIF Open-End Diversified Core Index
Domestic Fixed Income	23%	Barclays Aggregate Bond Index
International Fixed Income	4%	Citicorp Non-U.S. Government Bond Index

Total Fund Goals

The System's primary funding goal is to achieve a return of at least 7.75% and maintain a funded status that provides for the security of retirement income to participants in the plan. The fund's investment goal is to attain an annualized total return over a rolling period of five years which exceeds the fund benchmark by 75 basis points. The fund benchmark assumes a passive implementation of the asset allocation policy.

Total Fund Returns

For the fiscal year 2014, CFRS produced a return of 18.73% which outperformed the fund benchmark, as described above, by 0.40%.

The five-year annualized return of 14.06% outperformed the fund benchmark by 0.31%. In the Callan Public Fund Universe, CFRS' total fund performance ranks at the 11th percentile for the trailing five-year period and at the 18th percentile since inception (26 years). The performance calculations presented above were prepared by the Systems' custodial bank using a time-weighted rate of return methodology based upon the market value of assets.

Kind regards,



Gwelda Swilley-Burke



Michael Swinney

CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM INVESTMENT POLICY, GOALS, OBJECTIVES & GUIDELINES

BACKGROUND

The Charlotte Firefighters' Retirement System is the primary retirement income vehicle for its members and is co-sponsored by the City of Charlotte and the uniformed employees of the Charlotte Fire Department. The Board will discharge its investment responsibilities and make all decisions solely in the interest of plan participants and their beneficiaries.

Funding Philosophy

The Board's funding goal for the system is to be as fully funded as prudently possible so that:

- the ability to pay all benefit obligations when due is ensured;
- the City of Charlotte and the Board have maximum flexibility in determining the future level of contributions; and
- a funding "cushion" is maintained for unexpected developments and for possible future changes in retirement benefit levels.

Investment results are considered to be a critical element in achieving the system's funding goal stated above.

Risk Tolerance

In establishing investment objectives and guidelines that are consistent with the Board's funding goal, several factors were examined to determine the system's financial ability to withstand variability of investment return. The Board analyzed the system's financial and legal characteristics, work force

demographics, actuarial and funding policies as well as actual experience.

The assets of the system should be invested with a risk orientation that is consistent with a moderate ability to assume risk. The Board defines a moderate risk orientation as:

- a willingness to tolerate some interim fluctuations in market value and rates of return in order to achieve the asset allocation objective stated below; and
- a desire to limit the volatility in the fund's rate of return to a level that approximates the average volatility experienced by other U.S. defined benefit retirement plans.

INVESTMENT OBJECTIVES & GUIDELINES

Asset Allocation

The system's risk tolerance is, in large part, a function of the asset mix established for the fund. Based on its analysis of capital and money market return patterns, both historical and projected, the Board considers the following asset allocation to be consistent with the risk tolerance previously defined.

Total Fund Asset Mix Ranges

The Total Fund Asset Mix Guidelines will be implemented and maintained by the following distribution through a combination of "Specialist" Investment Managers and internal management in each of the asset class categories as follows:

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM
INVESTMENT POLICY, GOALS, OBJECTIVES & GUIDELINES**

<u>"Specialist" Managers</u>	<u>Target Allocation</u>	<u>Acceptable Range</u>
Domestic Equity	51%	+/-5%
Non-U.S. Equity	16%	+3/-2%
Real Estate	6%	+2/-3%
Domestic Fixed Income	23%	+/-4%
Non-U.S. Fixed	4%	+/-2%

Total Fund Asset Mix Ranges

This distribution of assets among the aforementioned investment managers and the individual manager guidelines will produce the following Total Fund Asset Mix Ranges:

<u>Asset Class</u>	<u>Market Value Exposure</u>	
	<u>Maximum</u>	<u>Minimum</u>
Domestic Equities	56%	46%
Non-U.S. Equities	19%	14%
Real Estate	8%	3%
Domestic Fixed Income	27%	19%
Non-U.S. Fixed	6%	2%

These guidelines are to be pursued by the fund on a long term basis (five year goal) but will be revised if significant changes occur within the economic and/or capital market environments.

INVESTMENT GOALS

In formulating investment goals for the system's assets, the Board placed primary emphasis on the following:

- Achieving investment results that will accomplish the stated funding goal for the system. Inflation is the key factor driving the cost of retirement programs. The primary function of a retirement plan investment program is to help pay the cost of providing retirement benefits by offsetting the impact of inflation on costs. Therefore,

investment performance that exceeds the rate of inflation, thereby providing a real rate of return, will contribute to the proper funding of the system.

- Receiving from its investment managers, performance that is above average compared to other comparably styled managers.
- Annual income production sufficient to cover benefit payments, administrative costs and investment manager, trustee, actuary, performance measurement and consultant fees.

Accordingly, the specific goals set forth below reflect the above general goals.

Total Fund Goals

As noted in a prior section, the system's primary funding goal is to achieve and maintain a funded status that provides for the security of retirement income to participants in the plan.

Given the impact of inflation on retirement plan funding, the primary total fund investment goal is to achieve a positive inflation adjusted (real) return. The Board recognizes that over short and intermediate periods of time its goal may be difficult to achieve because rapid increases or decreases in the level of inflation tend to adversely impact the capital markets. For this reason, the total fund inflation adjusted goal is established in the context of a longer-term time horizon:

- The fund's overall annualized total return (price change plus income) should exceed the return

CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM INVESTMENT POLICY, GOALS, OBJECTIVES & GUIDELINES

available from a policy of "rolling over" 91-day Treasury Bills (as a proxy for the inflation rate) by at least 325 basis points per year measured over a period of 10 years. A 325 basis points annual premium above "risk free" Treasury Bill rates is consistent with the desired risk tolerance.

- The fund's annualized total return over a rolling period of five years should exceed by 75 basis points the return that would have been achieved if the fund had been invested 51.0% in the Russell 3000 Stock Index, 14.0% in the Morgan Stanley Capital International (MSCI) Europe, Australia Far East (MSCI-EAFE) Index, 2.0% Morgan Stanley Capital International Emerging Markets Index (MSCI-EM), 23.0% in the Barclays Aggregate Bond Index (Barclays Aggregate), 6% in the National Council of Real Estate Investment Fiduciaries (NCREIF) Open-End DCE Index, and 4% in the Citigroup Non-US Government Bond Index.

Domestic Equity Segment Goals

The following performance goals have been established for the fund's domestic equity segment:

- The domestic equity segment total return should rank in the upper 50% compared to the domestic equity results of other retirement fund portfolios measured over a period of five years.

- The domestic equity segment total return should exceed the total return of the Russell 3000 Stock Index by at least 50 basis points per year measured over a period of five years.

Non-Domestic Equity Segment Goals

The following performance goals have been established for the Non-domestic equity segment of the system's assets:

- The non-domestic equity segment total return should rank in the upper 50% compared to the non-domestic equity results of other retirement fund portfolios measured over a period of five years.
- The non-domestic equity segment total return should exceed the total return of the Morgan Stanley Capital International Europe, Australia, Far East Index (MSCI-EAFE) by at least 200 basis points per year measured over a period of five years.

Real Estate Segment Goals

The following performance goals have been established for the real estate segment of the system's assets:

- The total real estate segment return should rank in the upper 50% compared to the real estate results of other retirement fund portfolios measured over a period of five years.
- The total real estate segment return should exceed the NCREIF Open-End DCE Index

CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM INVESTMENT POLICY, GOALS, OBJECTIVES & GUIDELINES

by at least 100 basis points per year over a period of five years.

measured over a period of five years.

Domestic Fixed Income Segment Goals

The following performance goals have been established for the domestic fixed income segment of the system's assets:

- The total domestic fixed income segment return should rank in the upper 50% compared to the fixed income results of other retirement fund portfolios measured over a period of five years.
- The total domestic fixed income return should exceed the total return of the Barclays Aggregate Bond Index by at least 25 basis points per year measured over a period of five years.

Non-Domestic Fixed Income Segment Goals

The following performance goals have been established for the fund's non-domestic fixed income segment of the system's assets:

- The total non-domestic fixed income segment should rank in the upper 50% compared to the non-domestic fixed income results of other retirement fund portfolios measured over a period of five years.
- The total non-domestic fixed income return should exceed the total return of the Citicorp Non-US Government Bond Index by at least 100 basis points per year

Internal Account

The following performance goals have been established for the Fund's Internal Account segment of the system's assets:

The internal account is used solely for payment of benefit payments and administrative expenses and shall be invested in a U.S. Treasury Money Market account with the Fund's Custodian at all times.

INVESTMENT PERFORMANCE

The investment performance of the system is being monitored by Callan Associates, Inc., a highly respected portfolio evaluation service provider and consultant in the United States.

A summary of the Charlotte Firefighters' Retirement System's performance results, along with a brief description of issues to be considered in interpreting the results follow. Since the purpose of the summary is to provide an overview, the reader is cautioned against forming conclusions that may be premature.

The information provided is prepared for the Charlotte Firefighters' Retirement System Comprehensive Annual Financial Report to provide a profile of the system's performance.

Total Annualized Rate of Return

This shows how the Charlotte Firefighters' Retirement System performed over multi-year periods

CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM INVESTMENT POLICY, GOALS, OBJECTIVES & GUIDELINES

compared with a customized portfolio of asset class investments invested in the same proportion as the CFRS fund targets.

Segment Annualized Rate of Return

This shows how each asset class component of the Charlotte Firefighters' Retirement System performed over the multi-year periods. Since the system's total return is comprised of the combination of each segment, reviews are important because academic studies have clearly shown that the asset allocation decision (the decision on what segments and proportion invested in each) determines between 70% to 95% of the total annualized rate of return.

Percentile rank indicates the annualized rate of return of a comparable portfolio that attained that level of performance in each segment component as measured by the Callan Associates, Inc. universe. A low percentage indicates a relatively higher return. The reader can choose a time period of particular interest and examine the return the CFRS earned for that period. For any time period one chooses to examine, the median serves as an effective standard for determining what a "reasonable" return for that period would have been (the median is that return which outranked 50% of the funds in the Callan universe and which was outranked by 50% of the funds).

This summary should be regarded only as an introduction to evaluating the Charlotte Firefighters' Retirement System's investment performance results. Nevertheless, it is hoped that this brief overview will be of some assistance.

RETURN ON INVESTMENT

The return on investments, which is defined as the income plus or minus the appreciation or depreciation in value, is analyzed each quarter. The Charlotte Firefighters' Retirement System return on investments is compared with the returns of the Callan Associates, Incorporated universe which is comprised of over 80% of the professionally managed investments in the United States. Evaluation for the various time periods ended June 30, 2014 are shown on subsequent pages. All returns are "time weighted", annualized "total" rates of return in and are based on market values.

RATE OF RETURN	FISCAL YEAR										Annualized Return Over Last 10 Years	Cumulative 10-Year Rate
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014		
CFRS	10.54%	10.83%	18.71%	-4.49%	-19.23%	10.90%	26.22%	1.14%	14.82%	18.73%	8.03%	116.49%
Composite Benchmark	9.76%	10.04%	17.28%	-5.18%	-17.91%	11.95%	23.50%	2.72%	13.65%	18.33%	7.57%	107.45%
Market Indicators												
Citicorp Non-US Govt Bond	7.75%	-0.01%	2.20%	18.72%	3.53%	1.52%	13.95%	0.44%	-5.72%	8.88%	4.90%	61.34%
JP Morgan Emer Mkts Debt Plus	21.37%	5.24%	11.94%	5.16%	2.43%	17.44%	11.75%	11.15%	0.07%	10.73%	9.55%	148.96%
BC Aggregate Index	6.80%	-0.81%	6.12%	7.12%	6.05%	9.50%	3.90%	7.47%	-0.69%	4.37%	4.93%	61.81%
MSCI EAFE Index	13.65%	26.56%	27.00%	-10.61%	-31.35%	5.92%	30.36%	-13.83%	18.62%	23.57%	6.93%	95.43%
MSCI Emerging Markets Free	34.89%	35.91%	45.45%	4.89%	-27.82%	23.48%	28.17%	-15.67%	3.23%	14.68%	12.30%	219.01%
Russell 1000 Growth	1.68%	6.12%	19.04%	-5.96%	-24.50%	13.62%	35.01%	5.76%	17.07%	26.92%	8.20%	119.92%
Russell 1000 Index	7.92%	9.08%	20.43%	-12.36%	-26.69%	15.24%	31.93%	4.37%	21.24%	25.35%	8.19%	119.72%
Russell 1000 Value	14.06%	12.10%	21.86%	-18.78%	-29.03%	16.92%	28.94%	3.01%	25.32%	23.81%	8.03%	116.49%
Russell 2000 Growth	4.29%	14.58%	16.83%	-10.83%	-24.85%	17.96%	43.50%	-2.71%	23.67%	24.73%	9.04%	137.61%
Russell 2000 Value	14.39%	14.61%	16.05%	-21.63%	-25.24%	25.07%	31.35%	-1.44%	24.76%	22.54%	8.24%	120.74%
Russell Mid Cap Growth	10.86%	13.04%	19.73%	-6.42%	-30.33%	21.30%	43.25%	-1.65%	25.41%	26.85%	9.83%	155.39%
Russell Mid Cap Value	21.80%	14.25%	22.09%	-17.09%	-30.52%	28.91%	34.28%	-0.37%	27.65%	26.62%	10.66%	175.36%
S&P Global ex-US Small Cap Index	21.33%	31.22%	35.90%	-13.08%	-29.89%	15.06%	35.68%	-16.34%	17.11%	25.70%	9.75%	153.54%
Standard & Poor's 500 Index	6.32%	8.63%	20.59%	-13.12%	-26.21%	14.43%	30.69%	5.45%	20.60%	24.61%	7.78%	111.53%
Treasury Bills + 3.25%	5.40%	7.23%	8.46%	6.88%	4.20%	3.41%	3.41%	3.31%	3.36%	3.30%	4.88%	61.04%

Investment results are shown on a time-weighted rate of return based on the market rate of return.

See Glossary for explanation of the Market Indices shown in this Table.

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA
INVESTMENT RESULTS
Periods Ended June 30**

	Last Year	Last 3 Years	Last 5 Years
Domestic Equity	25.04%	15.62%	19.83%
Russell 3000	25.22%	16.46%	19.33%
SSgA S&P 500 Flagship	24.61%	16.62%	18.88%
S&P 500 Index	24.61%	16.58%	18.83%
DE Shaw	24.46%	19.22%	21.09%
Russell 1000 Index	25.35%	16.63%	19.25%
Winslow Capital Management	27.71%	14.65%	18.91%
Russell 1000 Growth	26.92%	16.26%	19.24%
Aronson + Johnson + Ortiz	25.98%	18.21%	20.04%
Russell 1000 Value	23.81%	16.92%	19.23%
Robeco Boston Partners	29.90%	18.95%	24.26%
Russell Mid Cap Value	27.76%	17.56%	22.97%
Eagle Asset Management	19.04%	11.91%	-
Russell 2000 Growth	24.73%	14.49%	20.50%
Investment Counselors of Maryland	24.96%	14.74%	19.71%
Russell 2000 Value	22.54%	14.65%	19.88%
Domestic Fixed-Income	4.81%	4.12%	5.51%
Barrow, Hanley, MeWhinney & Strauss	4.96%	4.40%	6.04%
SSgA Bond Market Fund	4.34%	3.67%	4.87%
BC Aggregate Index	4.37%	3.66%	4.85%
International Equity	20.72%	9.59%	13.10%
Morgan Stanley International Equity	20.80%	10.32%	12.59%
MSCI EAFE Index	23.57%	8.10%	11.77%
Morgan Stanley Emerging Markets	12.19%	2.50%	10.94%
MSCI Emerging Markets Free	14.68%	-0.06%	9.58%
T. Rowe Price	24.73%	10.76%	16.20%
S&P Global ex-US Small Cap Index	25.70%	7.19%	13.97%
International Fixed Income	9.41%	1.05%	4.19%
Barings	9.41%	1.05%	4.19%
Citicorp Non-U.S. Govt Bond	8.88%	1.03%	3.59%
JP Morgan Emerging Markets Debt Plus	10.73%	7.19%	10.08%
Total Fund	18.73%	11.30%	14.06%
Treasury Bill + 3.25%	3.30%	3.32%	3.36%
Composite Benchmark	18.33%	11.36%	13.75%
Public PinSponsor DB	16.11%	9.70%	12.54%

Returns for periods longer than one year are annualized.

Investment results are shown on a time-weighted rate of return based on the market rate of return.

For performance purposes, blended benchmarks will be used until 36 months of rolling periods have expired.

See Glossary for explanation of the Market Indices shown in this Table.

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA
LIST OF LARGEST ASSETS HELD
(Dollar and Share Amounts in Thousands)**

**Largest Stock Holdings (By Fair Value)
June 30, 2014**

	Shares	Stock	Fair Value
1)	200	Morgan Stanley Pooled International Equity Trust	\$53,305
2)	27,834	DE Shaw 130/30	27,834
3)	687	ICM Small Company Portfolio	24,741
4)	56	SSgA S&P 500 Flagship Fund	24,360
5)	237	T Rowe Price International Discovery Fund	13,984
6)	108	Morgan Stanley Emerging Markets Trust	7,808
7)	20	Union Pacific Corp	2,025
8)	19	Apple Inc	1,756
9)	17	Exxon Mobil Corp	1,753
10)	8	VISA Inc	1,686

**Largest Bond Holdings (By Fair Value)
June 30, 2014**

	Par/Units	Bond	Fair Value
1)	724	SSgA Bond Market Index Fund	\$20,030
2)	51	Baring International Trust Fund - Non-Dollar Fixed Income/Emerging Debt	18,172
3)	363	Barrow Hanley High Yield Fund	6,406
4)	5,385	US Treasury Notes 2.000% due 11/15/2021 Rating AAA	5,318
5)	3,135	US Treasury Notes 2.000% due 2/15/2022 Rating AAA	3,086
6)	1,630	US Treasury Notes 3.125% due 11/15/2041 Rating AAA	1,580
7)	1,181	FNMA AB3395 4.5% due 8/1/2041 Rating AAA	1,281
8)	1,208	FED HM LN PC U79038 3% due on 11/1/2028 Rating AAA	1,243
9)	1,086	FNMA MA1689 4.000% due 12/1/2033 Rating AAA	1,164
10)	971	FNMA AH6301 4.000% due 5/1/2026 Rating AAA	1,040

A portfolio listing is available for review at the System's office. Please note that the lists consists of individual stocks a.



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Cavanaugh Macdonald

CONSULTING, LLC

The experience and dedication you deserve

October 23, 2014

Board of Trustees
Charlotte Firefighters' Retirement System
428 East Fourth Street
Suite 205
Charlotte, NC 28202

Dear Members of the Board:

We are pleased to submit herewith the results of the annual actuarial valuation of the City of Charlotte Firefighters' Retirement System prepared as of July 1, 2014. The purpose of this report is to provide a summary of the funded status of the System as of July 1, 2014, to recommend rates of contribution and to provide accounting information under Governmental Accounting Standards Board Statements No. 25 and 27 (GASB 25 and 27). In performing the valuation, we relied on data provided by the System. While not verifying the data at source, the actuary performed tests for consistency and reasonability.

The promised benefits of the System are included in the actuarially calculated contribution rates which are developed using the entry age cost method. A five-year smoothed market value of plan assets was used for the actuarial value of assets. Gains and losses are reflected in the unfunded accrued liability that is being amortized by regular annual contributions as a level percentage of payroll within a 30-year period, on the assumption that payroll will increase by 3.25% annually. The annual required employer contribution rate is 14.85% of payroll for the fiscal year ending June 30, 2016. The assumptions recommended by the actuary and adopted by the Board are in the aggregate reasonably related to the experience under the System and to reasonable expectations of anticipated experience under the System. There have been no changes to assumptions, methods, or plan provisions since the previous valuation.

The Governmental Accounting Standards Board has issued statement No. 67 which replaces Statement No. 25 for Plan years beginning after June 15, 2013. A separate report will be issued to provide information required under GASB Statement No. 67.

We have prepared the Schedule of Active Member Valuation Data, Schedule of Retired Members and Beneficiaries Added to and Removed from Rolls, the Solvency Test and the Analysis of Financial Experience for the actuarial section of the Annual Report and the Schedule of Funding Progress and Trend Information for the financial section of the Annual Report.

3550 Busbee Pkwy, Suite 250, Kennesaw, GA 30144

Phone (678) 388-1700 • Fax (678) 388-1730

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Offices in Englewood, CO • Kennesaw, GA • Bellevue, NE • Hilton Head Island, SC



This is to certify that the independent consulting actuary is a Member of the American Academy of Actuaries and has experience in performing valuations for public retirement systems, that the valuation was prepared in accordance with principles of practice prescribed by the Actuarial Standards Board, and that the actuarial calculations were performed by qualified actuaries in accordance with accepted actuarial procedures, based on the current provisions of the System and on actuarial assumptions that are internally consistent and reasonably based on the actual experience of the System.

In our opinion, in order for the System to operate in an actuarially sound manner, contributions equal to the ARC are necessary. Assuming that the annual required employer contributions to the System are made by the City from year to year in the future at the rates recommended on the basis of the successive actuarial valuations, the continued sufficiency of the retirement fund to provide the benefits called for under the System may be safely anticipated.

Future actuarial results may differ significantly from the current results presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Since the potential impact of such factors is outside the scope of a normal annual actuarial valuation, an analysis of the range of results is not presented herein.

We trust that the report will meet the approval of the Board and will furnish the desired information concerning the financial condition of the System.

Respectfully submitted,

A handwritten signature in blue ink that reads 'Todd B. Green' followed by a horizontal flourish.

Todd B. Green, ASA, FCA, MAAA
Principal and Consulting Actuary

A handwritten signature in blue ink that reads 'Cathy Turcot'.

Cathy Turcot
Principal and Managing Director

TBG/CT:dmw



**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM
REPORT OF THE ACTUARY
ON THE ANNUAL VALUATION
PREPARED AS OF JULY 1, 2014**

Valuation Date	July 1, 2014	July 1, 2013
Active members:		
Number	1,027	1,026
Annualized compensation	\$64,190,190	\$62,523,240
Retired members and beneficiaries:		
Number	575	546
Annual allowances	\$24,864,206	\$23,015,232
Number of terminated vested members*	7	5
Assets:		
Market Value	\$473,575,209	\$407,496,811
Actuarial Value	425,165,681	381,253,694
Unfunded actuarial accrued liability	\$53,047,754	\$70,325,227
Funded Ratio	88.9%	84.4%
Amortization Period	30 years	30 years
Fiscal Year Ending	June 30, 2016	June 30, 2015
City annual required contribution rate (ARC):		
Normal (including expenses of 0.75%)	9.86%	10.08%
Accrued liability	<u>4.99</u>	<u>6.79</u>
Total	14.85%	16.87%
Member contribution rate	12.65%	12.65%

*In addition, there are 16 inactive members as of July 1, 2014 that are expected to receive a refund of member contributions that have not yet been paid.



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**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA
PARTICIPANT INFORMATION
Year Ended June 30, 2014**

SERVICE RETIREMENTS

Name	Date of Retirement
Bergen, Mark	06/29/2013
Brisley, Robert	01/04/2014
Broome, Monty	10/11/2013
Brown Jr., William	12/21/2013
Brown, Rebecca	01/04/2014
Brunson, David	12/21/2013
Corigliano, Michael	12/21/2013
Cunningham, Sidney	03/15/2014
Davis, Glenn	06/29/2013
Dunn, Ronald	12/21/2013
Goggio, Steven	04/12/2014
Hartsell, James W	11/09/2013
Hefner, Bingham	11/02/2013
Helms, Kimberly	05/31/2014
Henson Jr., Roy	12/21/2013
Holiday, Robert	12/21/2013
Hudson, Mark	07/20/2013
Huffman, James	04/26/2014
Kepley, Larry	12/21/2013
Kidd IV, Chester	10/19/2013
Kinsey, Walter	12/21/2013
Massey, Roger	10/05/2013
McMahon, Hugh	12/21/2013
Mullis, Clifton	05/10/2014
Neal, Doyle	04/26/2014
Newell, David	11/12/2013
Newhouse, Richard	12/21/2013
Pickett, Bruce	02/15/2014
Piercy, Gene	12/21/2013
Riley, Richard	12/21/2013
Russell, Dino	12/21/2013
Shaffner, James	12/21/2013
Sloan, David	04/19/2014
Stilwell, June	08/17/2013
Thomas, Larry	12/21/2013
Thornburg, David	12/21/2013
Voncannon, Jeffrey	05/17/2014
Walker, Elbert	12/21/2013

**IN MEMORIAM
Retiree Deaths**

Name	Date of Death
Baucom, Thomas	12/12/2013
Bennett, Sam	01/12/2014
Foard, Renzy	04/24/2014
Jones, Lloyd	06/25/2014
Klein, John	01/24/2014
McElhaney, Joe	02/28/2014
Newell, John	03/01/2014
Thompson, Jimmy	10/12/2013
Upton, David	05/10/2014

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA**

CHANGES IN NET POSITION

for Fiscal Years Ended June 30

(Dollar Amounts in Thousands)

Revenues by Source and Expenses by Type

Fiscal Year	Revenues by Source				Expenses by Type			Total Expenses	Change in Net Position
	Employee Contributions	Employer Contributions	Investment Income	Total Revenues	Benefits	Administrative Expenses	Refunds		
2005	\$ 6,254	\$ 5,871	\$ 26,267	\$ 38,392	\$ 15,217	\$ 389	\$ 105	\$ 15,711	\$ 22,681
2006	6,471	6,229	29,440	42,140	16,052	394	171	16,617	25,523
2007	6,772	6,574	56,552	69,898	16,609	441	241	17,291	52,607
2008	7,327	6,918	(17,818)	(3,573)	17,081	489	112	17,682	(21,255)
2009	7,711	7,341	(67,070)	(52,018)	18,146	490	138	18,774	(70,792)
2010	7,758	7,440	28,394	43,592	19,210	601	200	20,011	23,581
2011	8,288	7,670	75,299	91,257	20,080	544	248	20,872	70,385
2012	8,374	7,720	2,434	18,528	21,135	566	505	22,206	(3,678)
2013	8,320	8,100	51,854	68,274	22,423	618	128	23,169	45,105
2014	8,723	8,348	73,607	90,678	23,928	739	(67)	24,600	66,078

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA**
SCHEDULE OF BENEFIT AND REFUND EXPENSES BY TYPE
for Fiscal Years Ended June 30
(Dollar Amounts in Thousands)

Fiscal Year Ending	Age & Service Benefits			Death in Service Benefits	Retiree Disability Benefits			Refunds Death	Refunds Separation	Total
	Retirees	Survivors	QDROs		Duty	Non-duty	Survivor			
2005	13,383	192	33	0	514	769	50	276	105	15,322
2006	14,186	212	48	1	528	783	55	239	171	16,223
2007	14,712	219	59	13	538	791	59	218	241	16,850
2008	15,379	258	61	22	526	757	78	0	112	17,193
2009	16,395	273	67	36	553	743	79	0	138	18,284
2010	17,439	260	115	46	545	725	80	0	200	19,410
2011	18,316	265	112	46	500	682	159	0	248	20,328
2012	19,429	267	125	46	475	635	158	186	319	21,640
2013	20,771	268	135	46	457	576	170	0	128	22,551
2014	22,260	388	140	62	434	553	91	0	-67	23,861

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA
SCHEDULE OF RETIRED MEMBERS BY TYPE OF BENEFIT
as of June 30, 2014**

Amount of Monthly Benefit	Number of Retirees	Type of Retirement									Option Selected						
		1	2	3	4	5	6	7	8	9	Basic	Opt.1	Opt.2	Opt.3	Opt.4	Opt.5	Opt.6
Deferred	7								7		7						
\$ 1 - 500	6	1		1		1	1			2	4					2	
501 - 600	3			1						2	3				1		
601 - 700	2						1			1	1						
701 - 800	1									1	1						
801 - 900	1							1			1						
901-1000	4			1					3		5						
Over 1000	556	419	80	11	1	16	22	4		3	355	17	15	11	32	104	21
Totals	580	420	80	14	1	17	24	8	7	9	377	17	15	11	32	107	21

Type of Retirement

- 1 - Service retirement
- 2 - Early retirement
- 3 - Survivor payment - normal or early retirement
- 4 - Survivor payment - death in service
- 5 - Duty disability retirement
- 6 - Non-duty disability retirement
- 7 - Survivor payment - disability retirement
- 8 - Former member with deferred future benefit
- 9 - Spouse payment - QDRO

Option Selected

- Basic - Basic Benefit
- Option 1 - 10CC
- Option 2 - 100% Joint Survivor
- Option 3 - 75% Joint Survivor
- Option 4 - 66.67% Joint Survivor
- Option 5 - 50% Joint Survivor
- Option 6 - Joint Survivor with Reversion to Basic

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA
SCHEDULE OF AVERAGE BENEFIT PAYMENTS
for Fiscal Years Ended June 30**

	Membership Service Credit					
	<u>5-10</u>	<u>11-15</u>	<u>16-20</u>	<u>21-25</u>	<u>26-30</u>	<u>31 +</u>
Period 7/1/2004 to 6/30/2005						
Average Monthly Benefit	\$ 413	\$ 1,264	\$ 1,591	\$ 2,185	\$ 2,847	\$ 3,696
Average Final Average Salary	3,112	2,115	2,845	3,118	3,768	3,831
Number of Active Retirants	1	17	14	36	263	114
Period 7/1/2005 to 6/30/2006						
Average Monthly Benefit	\$ 277	\$ 1,264	\$ 1,655	\$ 2,174	\$ 2,892	\$ 3,722
Average Final Average Salary	1,556	2,115	3,064	3,166	3,899	3,889
Number of Active Retirants	2	17	15	36	271	114
Period 7/1/2006 to 6/30/2007						
Average Monthly Benefit	\$ 277	\$ 1,264	\$ 1,566	\$ 2,161	\$ 2,918	\$ 3,779
Average Final Average Salary	1,556	2,115	2,873	3,277	3,980	4,002
Number of Active Retirants	2	17	16	35	273	116
Period 7/1/2007 to 6/30/2008						
Average Monthly Benefit	\$ 396	\$ 1,315	\$ 1,704	\$ 2,316	\$ 3,084	\$ 4,124
Average Final Average Salary	1,556	2,115	2,928	3,548	4,082	4,294
Number of Active Retirants	2	17	17	37	281	115
Period 7/1/2008 to 6/30/2009						
Average Monthly Benefit	\$ 396	\$ 1,408	\$ 1,704	\$ 2,345	\$ 3,134	\$ 4,241
Average Final Average Salary	1,556	2,230	2,928	3,562	4,206	4,460
Number of Active Retirants	2	18	17	36	291	118
Period 7/1/2009 to 6/30/2010						
Average Monthly Benefit	\$ 396	\$ 1,377	\$ 1,704	\$ 2,387	\$ 3,215	\$ 4,272
Average Final Average Salary	1,556	2,246	2,928	3,708	4,369	4,561
Number of Active Retirants	2	17	17	39	299	123
Period 7/1/2010 to 6/30/2011						
Average Monthly Benefit	\$ 396	\$ 1,380	\$ 1,687	\$ 2,388	\$ 3,286	\$ 4,339
Average Final Average Salary	1,556	2,285	2,843	3,679	4,531	4,676
Number of Active Retirants	2	16	16	35	310	126
Period 7/1/2011 to 6/30/2012						
Average Monthly Benefit	\$ 930	\$ 1,326	\$ 1,835	\$ 2,815	\$ 3,455	\$ 4,535
Average Final Average Salary	1,865	2,354	2,946	4,397	4,675	4,897
Number of Active Retirants	2	16	15	39	324	126
Period 7/1/2012 to 6/30/2013						
Average Monthly Benefit	\$ 930	\$ 1,363	\$ 2,157	\$ 3,403	\$ 3,524	\$ 4,591
Average Final Average Salary	1,865	2,354	3,615	5,143	4,710	4,763
Number of Active Retirants	2	16	15	40	345	128
Period 7/1/2013 to 6/30/2014						
Average Monthly Benefit	\$ 930	\$ 1,486	\$ 1,774	\$ 3,056	\$ 3,625	\$ 4,732
Average Final Average Salary	1,865	2,378	3,142	4,696	4,978	5,262
Number of Active Retirants	4	17	17	95	328	112

**CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM, A COMPONENT UNIT OF
THE CITY OF CHARLOTTE, NORTH CAROLINA
SCHEDULE OF BONUS HISTORY
for Fiscal Years Ended June 30
(Dollar Amounts in Thousands)**

<u>Year</u>	<u>Bonus Distribution</u>	<u>Annual Benefits</u>	<u>Retirees</u>	<u>Bonus Percentage</u>	<u>Consumer Price Index*</u>
1990	\$ 26	\$ 3,332	198	0.78%	4.6%
1991	142	3,735	221	3.80%	6.1%
1992	115	4,236	237	2.71%	3.1%
1993	90	4,892	255	1.84%	2.9%
1994	69	6,339	292	1.09%	2.7%
1995	65	6,429	292	1.01%	2.7%
1996	109	6,641	294	1.64%	2.5%
1997	366	7,388	312	4.95%	3.3%
1998	600	7,948	331	7.55%	1.6%
1999	734	8,753	357	8.39%	1.9%
2000	808	9,733	371	8.30%	3.2%
2001	1,070	12,998	398	8.23%	1.3%
▶ 2002	197	13,064	395	1.51%	0.7%
**2003	-	-	-	-	2.1%
**2004	-	-	-	-	3.2%
**2005	-	-	-	-	2.6%
**2006	-	-	-	-	4.5%
▶▶ 2007	266	15,966	454	1.67%	2.7%
**2008	-	-	-	-	5.6%
**2009	-	-	-	-	-2.0%
**2010	-	-	-	-	1.4%
**2011	-	-	-	-	4.1%
**2012	-	-	-	-	1.4%
**2013	-	-	-	-	1.8%
**2014	-	-	-	-	2.1%

Average Percentage of Bonus Amount Per Retiree over 25-year Period: 2.14%
Average Percentage of Bonus Amount Per Retiree over 5-year Period : 0.00%

*Source: Callan Associates, Inc.

▶In 2002, each eligible retiree received a \$500 bonus.

**Pursuant to the Actuary's recommendations, the Board of Trustees did not approve bonuses for 2003 - 2006, 2008 - 2014.

▶▶In 2007, each eligible retiree received a \$600 bonus.

CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM GLOSSARY OF KEY ACTUARIAL, FINANCIAL AND INVESTMENT TERMS

ACCRUED BENEFIT

The amount of a pension plan participant's benefit (whether or not vested) as of a specified date, determined in accordance with the terms of the pension plan and based on compensation (if applicable) and service to that date.

ACTIVE PARTICIPANTS

Eligible individuals who have hours of service and make contributions to a retirement plan.

ACTUARIAL ACCRUED LIABILITY

The difference between the actuarial present value of system benefits and the actuarial value of future normal costs. Sometimes referred to as "accrued liability".

ACTUARIAL ASSUMPTIONS

Estimates of future experience with respect to rates of mortality, disability, turnover, retirement, rate or rates of investment income and salary increases. Decrement assumptions (rates of mortality, disability, turnover and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (salary increases and investment income) consist of an underlying rate in an inflation-free environment plus a provision for a long-term average rate of inflation.

ACTUARIAL PRESENT VALUE (APV)

The discounted value of an amount or series of amounts payable or receivable at various times, determined as of a given date by the application of a particular set of actuarial assumptions.

ACTUARIAL VALUATION

An examination by an actuary of a group of people, with regard to certain characteristics of the people in that group. Some of the characteristics are age, service, salary, rate of turnover by death or termination. The actuary can then determine whether contributions are sufficient to fund liabilities earned.

AMORTIZE

To pay off an interest-discounted amount with periodic payments of interest and principal as opposed to paying off with a lump sum payment.

AUDIT

An examination by someone or some firm outside an organization of the accounting records developed by the staff of the organization. Recommendations and suggestions for better record keeping and management are often part of an audit.

AUDITOR

A certified public accountant who examines an organization's accounting records according to a set of procedures and issues a report.

BARCLAYS U.S. AGGREGATE INDEX

(formerly Lehman Brothers Aggregate Bond Index) This index represents securities that are SEC-registered, taxable and dollar denominated. The index covers the U.S. investment grade fixed rate bond market, with index components for government and corporate securities, mortgage pass-through securities and asset-backed securities. These major sectors are subdivided into more specific indices that are calculated and reported on a regular basis.

BENEFICIARY/BENEFICIARIES

The person(s) to whom a share of a deceased participant's account balance is payable.

BENEFITS

Payments to which participants may be entitled under a pension plan, including pension benefits, death benefits and benefits due on termination of employment.

CALLAN PUBLIC FUND SPONSOR DATABASE

A database comprised totally of the open-end funds of banks and insurance companies.

CITICORP NON-US GOVERNMENT BOND INDEX

An index of fixed rate government bonds with a maturity of one year or longer and amounts outstanding of at least U.S. \$25 million.

CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM

GLOSSARY OF KEY ACTUARIAL, FINANCIAL AND INVESTMENT TERMS

COMPENSATION

The amount of a participant's taxable and nontaxable wages that is considered for purposes of a certain employee benefit requirement.

CONSUMER PRICE INDEX (CPI)

A measure of the average change in prices for a fixed market basket of goods and services. This market basket is based on the spending patterns of urban wage earners and clerical workers, who represent 40 percent of the total civilian population.

COST-OF-LIVING ADJUSTMENT (COLA)

Provision for the adjustment of payment designed to offset changes in the cost of living, usually as measured by the consumer price index.

DEFINED BENEFIT PENSION PLAN

A pension plan that defines an amount of pension benefit to be provided, usually as a function of one or more factors, such as age, years of service and/or compensation.

DISABILITY

Inability to pursue an occupation because of physical or mental impairment.

DISCOUNT RATE

The rate used to adjust a series of future payments to reflect the time value of money. For the purpose of calculating the pension benefit obligation defined by G.A.S.B., this rate is equal to the estimated long-term rate of return on current and future investments of the pension plan.

DIVERSIFICATION

The practice of investing in several different businesses, industries and classes of investment securities in order to minimize total portfolio risks.

EARLY RETIREMENT

Provision made in a retirement plan to allow employees who have met certain conditions, such as length of service and specified age, to retire prior to their regularly scheduled

retirement age. In general, in case of such early retirement, the benefits which a participant can expect to receive from the plan will be less than those offered at full retirement age.

FIDUCIARY FUND TYPE

The trust and agency funds used to account for assets held by a government unit in a trustee capacity or as an agent for individuals, private organizations, other government units and/or other funds.

FUNDED RATIO

The actuarial value of benefit obligations accrued to date, compared to the pension plan assets expressed as a percentage.

GASB

Governmental Accounting Standards Board is the body which creates the various accounting standards for governmental and non-profit organizations.

INVESTMENT POLICY

A formal statement outlining the broad investment objectives of the plan.

J. P. MORGAN EMERGING MARKETS

BOND INDEX PLUS

An index that tracks total returns for traded external debt instruments in the emerging markets. The instruments include external currency-denominated Brady bonds, loans and Eurobonds, as well as U.S. dollar local markets instruments.

MSCI EMERGING MARKETS INDEX

The MSCI Emerging Markets Index is a free float-adjusted market capitalization index that is designed to measure equity market performance of emerging markets. This index consists of the following 21 emerging market country indices: Brazil, Chile, China, Colombia, Czech Republic, Egypt, Hungary, India, Indonesia, Korea, Malaysia, Mexico, Morocco, Peru, Philippines, Poland, Russia, South Africa, Taiwan, Thailand and Turkey. The index is market capitalization-weighted and is expressed in terms of U.S. dollars.

CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM GLOSSARY OF KEY ACTUARIAL, FINANCIAL AND INVESTMENT TERMS

NCREIF INDEX

The National Council of Real Estate Investment Fiduciaries (NCREIF) calculates a number of real estate benchmarks. This core index is comprised of return series of various properties in each region of the U.S. The index comprises properties by type and subtype by region and division. The return series analyzes appreciation, income, market value and total return. This benchmark is compiled on a one-quarter lag basis.

NET PENSION OBLIGATION (NPO)

The standardized measure of funding status and progress required by the GASB to be disclosed in the notes to the financial statements. It is the actuarial present value of credited projected benefits, prorated on service and is counted at a rate equal to the expected return on present and future plan assets.

NORMAL COST

The actuarial present value of retirement system benefits allocated to the current year by the actuarial cost method. This amount does not include any payment related to an unfunded actuarial accrued liability. For plans financed in part by employee contributions, normal cost ordinarily refers to the total of employee contributions and employer normal cost.

PENSION CONTRIBUTION

The amount paid into a pension plan by an employer (or employee), pursuant to the terms of the plan, state law, actuarial calculations or some other basis of determination.

PORTFOLIO

The total of all investments held.

PRUDENT PERSON

Requires that a plan fiduciary use the "care, skill and diligence" that would be used by a reasonably prudent person familiar with "such matters". While essentially an extension of the common-law requirement of good faith in handling other people's money, it creates a "prudent expert" test that places an additional burden on the plan sponsor---to know what a person in this position of responsibility should

know, rather than a reliance on the knowledge level of the general populace.

QUALIFIED DOMESTIC RELATIONS ORDER (QDRO)

A domestic relations order that creates or recognizes the existence of an alternate payee's right or assigns an alternate payee the right to receive all or a portion of the benefits payable with respect to a participant under a qualified retirement plan, and that it complies with certain special requirements. Only a spouse, former spouse or dependent can be the alternate payee.

RISK

The possibility that the expected rate of return may not be attained for the total portfolio or for specific asset classes.

RUSSELL 1000 INDEX

An index which measures the performance of the 1,000 largest companies in the Russell 3000 Index, which represents approximately, 92% of the total market capitalization of the Russell 3000 Index.

RUSSELL 1000 GROWTH INDEX

Measures the performance of the large-cap growth segment of the U.S. equities.

RUSSELL 1000 VALUE INDEX

Measures the performance of the large-cap value segment of U.S. equities.

RUSSELL 2000 GROWTH INDEX

Measures the performance of the small-cap growth segment of the U.S. Equities.

RUSSELL 2000 VALUE INDEX

Measures the performance of the small-cap value segment of the U.S. equities.

RUSSELL MIDCAP INDEX

Measures the performance of the 800 smallest companies in the Russell 1000 index, which represent approximately 35% of the total market capitalization of the Russell 1000 Index.

CHARLOTTE FIREFIGHTERS' RETIREMENT SYSTEM GLOSSARY OF KEY ACTUARIAL, FINANCIAL AND INVESTMENT TERMS

SECTION 415

Sets out the maximum contribution and benefit limitations of the Internal Revenue Code for qualified plans.

S&P GLOBAL-US SMALL CAP INDEX

Comprises the stocks representing the lowest 15% of float-adjusted market cap in each developed and emerging country. It is a subset of the S&P Global BMI, a comprehensive, rules-based index measuring global stock market performance.

STANDARD AND POOR'S 500 (S&P 500) INDEX

An index that is an unmanaged market index generally considered representative of the stock market as a whole. It is a composite of 400 industrial, 40 financial, 40 utility and 20 transportation common stocks. The index is capitalization-weighted with each stock weighted by its proportion of the total market value of all 500 issues. It focuses on the large-cap segment of the U.S. equities market.

TOTAL RATE OF RETURN

Cash income plus capital appreciation, less capital depreciation, realized and unrealized, adjusted for capital contributions and withdrawals expressed as a percentage on an accrual basis.

TOTAL REAL ESTATE FUNDS

A database that consists of both open and closed-end commingled funds managed by real estate firms. The returns represent the overall performance of commingled institutional capital invested in real estate properties.

TREASURY BILLS

Short-term direct obligations of the U.S. Government, usually issued with maturities of three months, six months, or one year. Because of their safety and liquidity, Treasury bills are often used as risk-free proxies in portfolio analytics.

TRUSTEE

A fiduciary holding property on behalf of another. An individual with the responsibility of administering all aspects of a pension fund.

UNFUNDED ACTUARIAL ACCRUED LIABILITIES

The difference between actuarial accrued liabilities and valuation assets. Sometimes referred to as "unfunded actuarial liability" or "unfunded accrued liability".

VESTED BENEFIT

A benefit for which the employer has an obligation to make payment even if an employee terminates; thus, the benefit is not contingent on an employee's future service.